



UNITED STATES MARINE CORPS
1ST MARINE DIVISION (REIN)
BOX 555380
CAMP PENDLETON, CALIFORNIA 92055-5380

DivO 5041.21M
G-7

JUN 11 2015

DIVISION ORDER 5041.21M

From: Commanding General, 1st Marine Division
To: Distribution List

Subj: COMMANDING GENERAL'S INSPECTION PROGRAM

Ref: (a) MCO 5040.6H
(b) MCO 1700.23F
(c) NAVMC DIR 5040.6H
(d) NAVMC DIR 1700.23F
(e) DivO 3501.1D
(f) DivO 5041.3G

Encl: (1) Commanding General's Inspection Functional Area List
(2) Corrective Action Report

1. Purpose. To establish 1st Marine Division's Commanding General's Inspection Program policy per reference (a).

2. Cancellation. DivO 5041.21L

3. Commanding General's Inspection Program (CGIP). Reference (a) provides detailed guidance on Marine Corps inspections and directs Commanding Generals (CG) to design and implement an inspection and evaluation program. This program is designed using the Inspector General of Marine Corps (IGMC) Functional Area Checklists (FAC) and/or internally generated inspection/evaluation checklists to conduct formal inspections and or evaluations to assess a command's readiness, performance and adherence to established orders, policies, procedures, directives, bulletins and formal training standards. Inspections and/or evaluations reinforce the importance of adhering to these regulations and their importance when evaluating the critical areas essential for mission performance. CGIP inspection/evaluation categories are as follow; FA inspections, Troop Inspection, Operational Evaluations, No-notice drills, Logistics Readiness Evaluation (LRE) and other internally directed inspections and/or evaluations as designated. The FA checklists can be located on the IGMC website under the Inspections tab.

a. Functional Area Checklist (FAC) Inspections: FAC inspections are conducted as part of the Commanding General's Inspection (CGI). The troop inspection is also a FAC inspection and is conducted in conjunction with the CGI. Commanding General's Request Mast is part

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of the CGI and will be conducted by the Command Inspector General as part of the CGI. With regards to the CGI planning, management and reporting, the G-7 has been assigned this responsibility. However, the following G sections and or special staff maintain inspection responsibilities under the CGI; G-1, G-2, G-3, G-4, G-7, Medical, Fiscal, SJA, Postal, Chaplain, Safety/Environmental Compliance Officer, and the Division Safety Director.

b. Operational Evaluation (OpEval): An evaluation of the operational capability and effectiveness of a unit or any portion thereof. Currently the 1st Marine Division has designated the Marine Corps Combat Readiness Evaluation as the OpEval that will be used to evaluate commands readiness and performance. The G-3 is responsible for the conduct of this evaluation.

c. No-notice drill: A readiness evaluation of those commands/units assigned to the division's crisis response force. This evaluation is designed to test the commands/units readiness and ability to rapidly mobilize and deploy. The G-3 is responsible for the development, management and conduct of this evaluation.

d. Administrative Assistance: Provides training and inspection preparation in support of the Marine Corps Administrative Analysis Team (MCAAT) inspections. MCAAT analyzes the effectiveness of internal audit procedures, regulatory compliance, systems management, internal controls, command administrative and disbursing/finance (DO/FO) operations, and the timely and accurate performance of pay and entitlement transactions in the Marine Corps Total Force System (MCTFS), travel systems, and other associated systems. The G-1 is responsible for the scheduling and conduct of assist visits.

e. Logistics Readiness Evaluation (LRE): An inspection directed per Division Order 5041.3G. LRE assesses unit compliance with established policy and improve materiel readiness procedures. LRE inspectors train the unit's Marines simultaneously while inspecting. The LRE program is administered by the AC/S G-4 and is conducted using checklists that may be found on the LRE SharePoint page. At a minimum, each activity address code in Division will receive an LRE once every two fiscal years.

f. Other internally directed inspections and/or evaluations: These are directed by the Commanding General based upon recommendations of the general staff. These inspections/evaluations are conducted to determine the adherence to orders, policies, procedures, directives, and bulletins and to assess their effectiveness as it pertains to readiness and safety within a command. The following two internal inspections/evaluations are hereby directed as part of the CGIP.

g. Motorcycle Mentoring Program (MMP): MMP is a FAC inspection; the Division Safety Director is responsible for the conduct of this inspection.

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h. Force Preservation Council (FPC): FPC is evaluated using an internally generated evaluation checklist. The G-7 is responsible for the development, management and conduct of this evaluation.

4. Commanding General's Inspection (CGI). Per the direction of IGMC the CGI is a short notice inspection (72-48 hours' notice). Efforts will be made to conduct the CGI inspection within the first quarter after a commander assumes command. At a minimum, commands will receive a CGI within 24 months after the unit's last inspection. The CGI strives to include the other categories of inspections as well as the Logistics Readiness Evaluation (LRE) during those years when a Field Supply Maintenance Analysis Office (FSMAO) inspection is not scheduled, however, inspections can be conducted at different times if need be. The CGI is based upon inspections of the unit's commodities and functional areas using the IGMC FA checklists. Inspections under the umbrella of the CGI are conducted by the Division G-7 Readiness Section and designated personnel assigned as inspectors. Marines, Sailors and civilian Marines that possess a significant amount of Military Occupation Specialty (MOS) training and operational experience, coupled with specific inspector training are designated by the Commanding General as a Subject Matter Expert (SME). These SMEs conduct the inspection utilizing an expanded FA checklist that consists of the IGMC core functional areas and additional functional areas identified by the Commanding General's staff. It is the intent of the Commanding General that the G-7 attempt to coordinate all FA inspections to occur simultaneously with the CGI in order to reduce the disruption to the command being inspected. This effort is also intended to provide a better assessment of the command as it provides an overall picture of the command's functional areas during a specific period of time.

a. Assist Visits (AV): AV is a vital component of a commander's ability to evaluate his commands compliance and readiness. Normally, AV requests will not be approved within 90 days of a CGI. Commanders are encouraged to request post deployment AV prior to returning from deployment. It is important to note that a requirement for scheduling an AV is that commands conduct a self-inspection prior to the AV. This will allow the AV team to employ a targeted approach, focusing only on the areas pre identified as needing help.

5. Conduct of the CGI. The CGI is conducted in four phases.

a. Phase I/Intent to Inspect. G-7 releases quarterly AMHS to notify Division units that are in the window for CGI. This notification message reiterates the procedures for requesting assist visits. Prior to the release of this intent message, the Division Readiness Chief will make every effort to identify the best time period for the inspection to take place. This will be done through coordination with the Division G-3 and Regiments and/or separate battalion staffs. At no time will the G-7 identify the exact dates of the CGI to the commands.

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b. Phase II/Unit Notification. Units are notified via AMHS that their unit will stand a CGI. This notification is provided 72-48 hours prior to the beginning of the inspection.

c. Phase III/Inspection. The CGI is a one week inspection unless conducted jointly with an LRE, then the inspection can take up to two weeks to conclude. Due to operational and training commitments, there are times when a Functional Area Manager(s) may not be available during the designated week(s) of the inspection. If this is the case, the Readiness Chief will work with the command to reschedule these inspection areas. The inspection will conclude only when all functional areas have been inspected. Upon conclusion of the inspection, the command will receive a post inspection out briefing. The command will then have 30 work-days to complete corrective actions. Any FAs found to be Non-Mission capable will be re-inspected after corrective actions are completed.

d. Phase IV/Commanding General out briefing. The out briefing with the Commanding General will be conducted 45 days after the conclusion of the inspection. During this out briefing noteworthy performance and areas that were identified as non-mission capable will be briefed. SMEs for the areas assessed as non-mission capable will attend in order to brief the Commanding General on the findings, the units' corrective actions and results of the re-inspection.

6. Recognition of Excellence. Those personnel that stand out during the inspection will be recognized by the award of Commanding General Certificates of Commendation. Additionally, the unit(s) that has the highest score(s) during the calendar year will be recognized by a Commanding General Certificates of Commendation.

7. Task

a. Assistant Chief of Staff (AC/S), G-7 (Readiness):

(1) Manage the CGIP.

(2) Maintain the results of all CGI inspections for three (3) years per reference (b) (destruction authority).

(3) Ensure that all required reports are submitted per reference (a).

(4) Supervise and facilitate the assist program to help commands become compliant and operationally ready.

(5) Provide Professional Military Education for division personnel on the role of the Inspector and purpose of the CGIP.

(6) Publish quarterly AMHS message(s) that provide a warning order regarding CGI, identify trends, and training.

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(7) Conduct the following training.

(a) Monthly training for functional area managers and inspectors.

(b) Quarterly training for SMEs.

(c) Annual or as requested, CGIP training for Commanders and their staff.

(8) Maintain a current roster of primary and secondary inspectors for all Functional Areas (FAs).

(9) Release quarterly trends message.

(10) Conduct the CGI.

(11) Recognize excellence through the award of Commanding General Certificates of Commendation.

(12) Coordinate with IGMC Inspections as required.

(13) Ensure that SMEs re-inspect FA found "Non-Mission Capable" within 30 days of the initial inspection.

(14) Conduct an annual review of FA being used during the CGI.

b. General and Special Staff Officers:

(1) Extend full cooperation to the AC/S, G-7 for the conduct of the CGI.

(2) Plan, coordinate and assess inspections and/or evaluations that fall under the cognizance of the G section and or Special Staff. Coordinate with the G-7 Readiness Chief in order to synchronize and/or de-conflict inspections/evaluations.

(3) Provide personnel who are MOS proficient and possesses a significant amount of MOS knowledge and operational experience to be trained and designated as a SME, capable of conducting FA inspections and/or evaluations. Enclosure (4).

(4) Designate one (1) primary and one (1) alternate SME for each Functional Area. Enclosure(4).

(5) Periodically compile, update, and maintain Functional Area Checklists as reflected in the IGMC FA checklists.

(6) When requested by the AC/S G-7, conduct AV as scheduling permits.

(7) Coordinate all inspection/evaluation requirements with the

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AC/S, G-7, to include inspections/evaluations completed independently of, or concurrently with the CGI.

(8) Inform the AC/S, G-7 of all inspection/evaluation results.

(9) Re-inspect FA found to be "Non-Mission Capable" within 30 days of the initial inspection.

(10) Conduct quarterly training for all inspectors.

(11) Maintain a current roster of primary and secondary inspectors for all Functional Areas (FAs).

(12) Release quarterly trends message.

c. Regimental Headquarters, Subordinate Battalion Commanders, and Separate Battalion Commanders.

(1) Maintain an internal self-inspection/evaluation program.

(2) Submit Corrective Action Reports to the CG (Attn: AC/S, G-7) within 30 days of receiving the CGI Inspection Report. The format contained in enclosure (2) will be used.

(3) Notify the CG (Attn: Cognizant staff section) of the results of any inspection conducted by an organization external to the division headquarters.

8. Coordinating Instructions.

a. The sole source for obtaining functional area checklists (FA) will be the IGMCI webpage under the tab titled "Inspections". It is the unit's responsibility to ensure that Functional Area Managers check this website on a regular basis in order to view updates to FA checklists.

b. Upon receipt of notification of a pending CGI, commands will provide the Division Readiness Chief a list that identifies the Functional Area Managers by name prior to the initiation of the inspection.

c. Functional Area Managers will present their FA desktop procedure/turnover binder with the last Self-inspection to the SME conducting the CGI inspection. This binder will include the results from the previous CGI. Any discrepancies or anomalies pertaining to records that are required by Marine Corps order to be maintained must be memorialized in a memorandum for record and made a part of the self-inspection and inspector briefing. The Functional Area Manager is also responsible for providing a blank Functional Area Checklist(s) to the SME at the initiation of the inspection.

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d. Any challenges to the assessment by an SME will be addressed by the Division Readiness Chief and the units Executive Officer. In instances where an issue cannot be resolved at this level, the Command Inspector General and the Commanding Officer will intervene.

e. The command's Corrective Action Report will be submitted to the Division Readiness Chief no later than 30 business days after the conclusion of the inspection enclosure (2).

9. Administration/Logistics.

a. The Division Readiness Chief is the point of contact for all matters pertaining to the CGI. E-mails need to be sent to

(b)(3), (b)(6), (b)(7)(c)

contact is

(b)(3), (b)
(6), (b)(7)
(c)

attention Division Readiness Chief/point of

(b)(3), (b)(6), (b)(7)(c)

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1ST MARINE DIVISION
BOX 555380
CAMP PENDLETON, CALIFORNIA 92055-5380

IN REPLY REFER TO:
5040
CIG/G-7
21 Aug 18

From: Command Inspector General/G-7, 1st Marine Division
To: Commanding Officer, 3D Assault Amphibian Battalion
Subj: 3D ASSAULT AMPHIBIAN BATTALION UNIT INSPECTION REPORT

Ref: (a) MCO 5040.6H
(b) NAVMC DIR 5040.6
(c) DivO 5041.21N

Encl: (1) Detailed Command Inspection Report
(2) Commendatory Performance Report

1. Overall Assessment. Per the references, Command Inspector General (CIG)/G-7, 1st Marine Division (1st MarDiv) conducted a Commanding General's Inspection (CGI) of 3D Assault Amphibian Battalion (3D AABn) from 17 to 24 July 2018. After a thorough and detailed assessment of 33 Core Functional Areas (FAs) and 17 additional areas, 3D AABn was assessed as **Mission Capable (MC)**.

2. Summarized Command Assessment

a. **CGI results:**

(1) Core FAs inspected:	33
(2) Additional FAs and other inspection areas:	17
(3) Total areas inspected/evaluated:	50
(a) Non-Mission Capable (NMC) areas:	4
(b) MC areas:	46
<u>1.</u> MC areas with findings:	9
<u>2.</u> MC areas with discrepancies:	23
<u>3.</u> Fully compliant areas:	23

b. **NMC areas:**

(1) FA 1610	Performance Evaluation System
(2) FA 1700.31	Transition Readiness Program (TRP)
(3) FA 1740	Family Care Plan
(4) FA 5210	Records, Reports, & Directives Management

c. **MC areas with finding(s):**

(1) FA1040	Career Planning (CP)
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- (2) FA1400 Officer and Enlisted Promotion Process
- (3) FA1700.23 Request Mast
- (4) FA1900.1 Separation & Retirement
- (5) FA3040 Casualty Affairs
- (6) FA4600 Government Travel Charge Card
- (7) FA4650 Defense Travel System
- (8) FA5090 Environmental Program Management
- (9) FA5100 Safety

d. MC areas with discrepancies:

- (1) FA250 Intelligence
- (2) FA1020 Uniform Inspection
- (3) FA1040 Career Planning
- (4) FA1400 Officer and Enlisted Promotion Process
- (5) FA1650 Military Awards
- (6) FA1700.23 Request Mast
- (7) FA1742 Voter Assistance
- (8) FA1752 Sexual Assault Prevention & Response
- (9) FA 1900.1 Separation & Retirement
- (10) FA3040 Casualty Affairs
- (11) FA3070 Operations Security
- (12) FA3302 Antiterrorism
- (13) FA3800 Intel Oversight
- (14) FA4400.15 Consumer Level Supply
- (15) FA4600 Government Travel Charge Card
- (16) FA4650 Defense Travel System
- (17) FA5090 Environmental Program Management
- (18) FA5510.3 Information & Personnel Security
- (19) FA5530 Physical Security

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(20) FA5600 Printing and Publications Management Program

(21) FA5800.16 Legal Administration

(22) FA6000 Health Services

(23) FA8000 Ground Ordnance Maintenance

3. Command Climate. The command climate across the battalion was healthy. The commander and primary staff were fully engaged during the inspection and took full benefit of the training opportunity provided by the inspection team.

4. Corrective Actions. All findings and discrepancies are the responsibility of the command to correct and should be addressed as a priority. Per reference (b), a Corrective Action Report (CAR) must be submitted to CIG/G-7 within 30 days of the receipt of this report. The CAR must detail your corrective action plan to remediate your findings from both NMC and MC FAs, as listed in enclosure (1). Corrective actions for discrepancies are internal to the command and are not required in the CAR. All NMC areas will be re-inspected within 30-60 days following the CGI. Ensure you coordinate with the owning FA inspector and ensure the re-inspection is completed prior to 24 August 2018.

5. Commendatory Performers. Enclosure (2) is a list of individuals who have been noted and referred to the Commanding General for recognition.

6. Any questions or concerns, please contact the 1st MarDiv CIG/G-7 Readiness Chief at 760-725-5951, or via email at the organizational inbox (b)(3), (b)(6), (b)(7)(c) (b)(6), (b)(7)(c)

Detailed Command Inspection Report

FA: 1040 Career Planning - MC with (3) Findings

Inspector: GySgt (b)(3), (b)(6), (b)(7)(c)

0107: Does examination of the interview management system and/ Career Planning Contact Records reveal that the Commanding Officer is making reenlistment recommendations and assigning appropriate reenlistment eligibility codes? Reference: MCO 1040.31, chap 3, par 2b(3)(d); chap 6, par 1a(2); app d; MCO P1900.16F; MCO 1040R.35, chap 5, par 4a, and fig 5-5

Finding: Review of the contact records revealed the Command was assigning codes of RE-3P or RE-3C and not recommending the Marines for further service (which would then warrant assignment of RE-4). These interviews were conducted by the previous program manager and adjustments were made once the new program manager took over.

Recommendation: No additional actions required. Command already made appropriate adjustments to the conduct of interviews. Reference: MCO 1040.31, chap 3, par 2b(3)(d); chap 6, par 1a(2); app d; MCO P1900.16F; MCO 1040R.35, chap 5, par 4a, and fig 5-5

0109: Does the interview management system and/or Career Planning Contact Records show any missed interviews? Reference: MCO 1040.31, chap 3, par 2a; MCO 1040R.35, chap 8, par 2b

Finding: Yes, review of the interview management system and contact records show 33 missed interviews.

Recommendation: Historic in nature. Career Planner has documented these interviews are missed prior to turnover. Unscheduled interviews were completed as applicable. Reference: MCO 1040.31, chap 3, par 2a; MCO 1040R.35, chap 8, par 2b

0115: Does the Career Planner maintain the career planning contact record, and the individual case file for the current fiscal year plus two previous fiscal years? Reference: MCO 1040.31, chap 6, par 1d; MCO 1040R.35, chap 8, par 6d(4)

Finding: Review of contact records revealed (13) missing case files. Additionally, numerous contact records from previous fiscal year are missing.

Recommendation: No additional actions required. Career Planner has conducted an audit and annotated all missing files and contact records. Missing records are historic in nature. Continue to conduct monthly audits of contact records and case files. Reference: MCO 1040.31, chap 6, par 1d; MCO 1040R.35, chap 8, par 6d(4)

FA: 1400 Officer and Enlisted Promotion Process - MC with (4) Findings

Inspector: MGySgt (b)(3), (b)(6), (b)(7)(c)

0206: Does the command ensure when a Marine is promoted to Corporal and Sergeant they are assigned promotion conduct and duty proficiency marks via MOL? Reference: MCO P1070.12K W/CH1, TABLE 4-3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. There are currently 435 Marines affected. This goes back as far as March 18.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1070.12K W/CH1, TABLE 4-3

0207: Does the command ensure the effective date of reduction and date of rank are the same for Marines who are punitively reduced? Reference: MCO P1400.320 W/CH2, par 7001.3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. Based on the Pro/Cons not being certified there are delinquencies.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1400.320 W/CH2, par 7001.3

0208: Is the command assigning reduction conduct and duty proficiency marks, via MOL, when a Marine is punitively reduced?
Reference: MCO P1070.12K W/CH1, TABLE 4-3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. Based on the Pro/Cons not being certified there are delinquencies.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1070.12K W/CH1, TABLE 4-3

0306: Is the unit reporting the appropriate promotion restriction entries via unit diary, and are the required service record page 11 entries being completed for all reportable occasions (including occasions when MCTFS automatically places the member in a promotion restriction status, i.e. weight control, NJP, DUI etc.)? Reference: MCO P1400.32D W/CH2, par 1204; PRIUM, par 70702; MCO P1070.12K W/CH1, par 4006.3E

Finding: No, the command is not doing page 11 's correctly. Promotions is CY not FY. Also, the Command verbiage on the page 11 's is not concise.
Example: ; I understand I am selected, but will not be promoted to the rank of Corporal for the April 2018 promotion period due to pending legal

action. This is not correct. If this is for the 2d quarter April-June it does not articulate May and June. Based on how it was written the Marine is eligible in the month of May. All Marines not recommended page 11 's are also not being completed.

Recommendation: Standardized templates are created for the Co, 1stSgt's and Co Commanders to use for Non-Rec's for promotion. Reference: MCO P1400.32D W/CH2, par 1204; PRIUM, par 70702; MCO P1070.12K W/CH1, par 4006.3E

FA: 1610 Performance Evaluation System - NMC

Inspector: MGySgt (b)(3), (b)(6), (b)(7)(c)

Finding: Inspection was stopped due to Marines not being prepared to be inspected. I believe this program did not get touched from when I inspected it in 2016.

Recommendation: A re-inspection in 60 days.

FA: 1700.23 Request Mast - MC with (1) Finding

Inspector: (b)(3), (b)(6), (b)(7)(c)

0302: Can the Commander demonstrate what specific follow-up procedures are used to ensure Request Mast applications are resolved in a timely manner and that no actions, adverse or prejudicial, befall Marines exercising their right to Request Mast? (Commands should utilize a "Reprisal Check-up Tracker" to ensure that applicants are checked up on (e.g., at 30 & 90-day, and 6-month marks) to verify that they have not been victimized by reprisals on account of their Request Mast. A copy of a sample tracker can be found on the IGMCI Inspections Division's website at <http://www.hgmc.marines.mil/igmc/Units/Inspections-Division/>. As a best practice, the Commander and/or CIG should keep on file documentation (e.g., emails, log book entry, phone log entry, etc.) that further verifies that they have consistently followed-up with the applicant.) Reference: NAVMC 1700.23F chap 5, par 1 e

Finding: Command maintains a record of completed Masts, but does not have written records of 30-, 90-day and 6-month follow-ups to check for reprisal against applicants. CIG will provide command with example documents used at Division level.

Recommendation: Command should conduct follow-ups with all Request Mast applicants at 30 days, 90 days, and 6 months following the Request Mast. These follow-ups should verify that a) the resolution offered to the Marine has been effected (if applicable) and b) the Marine has not been subject to reprisal as a result of Request Mast. These follow-ups should be documented with electronic or hardcopies of communication with Request Mast applicants. Inspector will provide command with templates used at Division to satisfy this requirement. Reference: NAVMC 1700.23F chap 5, par 1 e

FA: 1700.31 Transition Readiness Program - NMC with (6) Findings

Inspector: (b)(3), (b)(6), (b)(7)(c)

0103: Does the CO ensure Marines attend the Personal Readiness Seminar (PRS) within 90 days of arrival to their First Permanent Duty Station? PRS is

currently only offered aboard Marine Corps installations. Recommend CO appoint a POC to coordinate attendance and entry of "PR" training event code in Marine Corps Total Force System (MCTFS). Reference: MCO 1700.31, par 3b(5) (a) and encl 7; MARADMIN 568/16

Finding: SSgt (b)(3), (b)(6), (b)(7)(c) was able to provide PRS attendance rosters for March, May and July of 2018 and is making sure all new joins checking in with him are signed up for PRS. However, there was no proof of PRS attendance prior to March, a PR code list was not present in the UTC binder, nor were there any PRS certificates of completion which authorize the PR code entry.

Recommendation: A current new join roster, with an updated PR code list from MCTFS will demonstrate enrollment and completed training for the Marines within 90 days of their first permanent duty station. Additionally I recommend keeping PRS certificates of completion on file. Reference: MCO 1700.31, par 3b(5) (a) and encl 7; MARADMIN 568/16

0104: Does the CO ensure that all Active Duty (AD) and Reserve Component (RC) Marines complete mandatory Pre-separation Counseling, Veteran Affairs (VA) I and II, Department of Labor Employment Workshop (DOLEW) (unless limited or exempted), within 12-14 months from separating, deactivating, demobilizing or up to 24 months if retiring, but NLT 180 days prior to separation, retirement, demobilization, or deactivation? Reference: MCO 1700.31, par 3b (5) (b), MARADMIN 362/17

Finding: SSgt (b)(3), (b)(6), (b)(7)(c) stated that once a month the Company 1stSgt's meet and look at the EAS roster to determine who has only 12 months left until EAS. This is reported to the UTC for TRS registration. The Transition Readiness Manpower report indicated that only 25 of 142 Marines had completed TRS within the desired time frame. This equates to an 18% success rate, while 85% or higher is required for compliance. SSgt (b)(3), (b)(6), (b)(7)(c) made mention that he is planning on creating a spreadsheet next week that will assist him with better tracking for EAS, TRS registration, and TRS completion.

Recommendation: Reviewing EAS rosters more than once a month to identify and contact Marines who are a year from EAS date. I highly encourage the usage of a TRS spreadsheet tracking system to ensure those Marines with 12 months left are registered and completing TRS in the required time frame. Reference: MCO 1700.31, par 3b (5) (b), MARADMIN 362/17

0105: Does the UTC coordinate pre-deployment Transition Readiness Seminar (TRS) attendance for Marines who are scheduled to return from deployment NLT 180 days of their End of Active Service (EAS)? Does not apply to non-deployable units. Reference: MCO 1700.31, par 3b(6) (g)

Finding: This is a deployable unit. SSgt (b)(3), (b)(6), (b)(7)(c) reported that prior to a deployment each company reviews the deployment roster to determine who has 12 months left until EAS and requests the UTC register them for TRS. Upon inspection there was no prior deployment roster on file to compare with those who completed TRS in the past year.

Recommendation: UTC should keep deployment rosters on file to track those with 12 months left against completed DD 2648 forms. Reference: MCO 1700.31, par 3b(6) (g)

Enclosure (1)

0107: Upon successful completion of TRS, has the UTC coordinated entry of the training event code "TA" (Transition Readiness Seminar) in MCTFS, through the unit? Reference: MARADMIN 568/16, par 3b(5)

Finding: SSgt (b)(3), (b)(6), (b)(7)(c) does not have access to MCTFS and there is not a good system in place to ensure TA codes are entered. He did indicate he is working to have a designated person to enter TA and TZ codes into MCTFS.

Recommendation: For SSgt (b)(3), (b)(6), (b)(7)(c) to gain access to the MCTFS system for code entry or for him to follow through with his plan of having a designated person to enter all TA and TZ codes. TA codes should be entered as soon as they receive the TRS completion roster from the TRP office. Reference: MARADMIN 568/16, par 3b(5)

0109: Has the CO (or designee) used the DD Form 2648 eForm to personally conduct Capstone (Commander's Verification) no later than 90 days prior to EAS, by verifying Career Readiness Standards (CRS) have been met or not met and a warm handover has been documented and confirmed for Marines who have not met CRS or require additional assistance? Reference: MCO 1700.31, par 3b(5)(b) and encl (3); MARADMIN 568/16, par 3d; MARADMIN 503/16; MARADMIN 339/17

Finding: From the TRP Manpower report, only 7 service members out of 142 have completed their Commanders Verification within the desired timeframe of NLT 90 days from the service member's EAS. This results in a success rate of 5%, while 85% is required for compliance in this area.

Recommendation: CO or designees (Company Commanders) should complete Commander's Verification NLT two weeks from the receipt of notification from the Transition Readiness advisors. Increased compliance in sending Marines to TRS in the desired 12-14 months prior to EAS would increase compliance in this area as well. Reference: MCO 1700.31, par 3b(5)(b) and encl (3); MARADMIN 568/16, par 3d; MARADMIN 503/16; MARADMIN 339/17

0110: Upon completion of Capstone (Commander's Verification), has the UTC coordinated the entry of the training event code "TZ" (Transition Readiness Seminar Capstone) in MCTFS for all DD Form 2648 eForms? Reference: MARADMIN 568/16, par 3d(2)

Finding: There is currently not a system in place to ensure TZ codes are being consistently entered. SSgt is waiting to get MCTFS access and as with the TA codes, is planning on having an assistant designated to enter all codes into MCTFS.

Recommendation: The UTC or someone designated immediately enter the TZ code into MCTFS after completion of Capstone. Additionally they should follow up with IPAC to make sure codes are being entered. Reference: MARADMIN 568/16, par 3d(2)

FA: 1740 Family Care Plan - NMC with (2) Findings

Inspector: MSgt (b)(3), (b)(6), (b)(7)(c)

0103: Do all members with dependents have a validated Family Care Plan (FCP)? Reference: MCO 1740.13C, par 4a(1)(b)

Finding: Not all members with dependents have Family Care Plan on file.

Recommendation: Identify Company leadership to validate and ensure all their Company FCPs are completed and properly accounted for. Reference: MCO 1740.13C, par 4a(1)(b)

0104: Following validation of a unit member's FCP, is FCP Caregiver Contact information compared to the member's Record of Emergency Data under "Guardian" in order to identify inconsistencies with regard to Caregiver Contact? Does the validating official advise members of such inconsistencies in need to corrective actions? Reference: MCO 1740.13C, par 4a(2)(d)

Finding: No cases provided to verify this is getting done.

Recommendation: Leadership get invested in this program to properly maintain Family Care Plan. Reference: MCO 1740.13C, par 4a(2)(d)

FA: 1900.1 Separation & Retirement - MC with (1) Finding

Inspector: MSgt

0101: Do established separation procedures exist in accordance with the current version of MCO 1900.16 and applicable MARADMINs or Naval Messages? Reference: MCTFSPRIUM, par 10300.2; MARADMIN 026/15

Finding: There are no established procedures published.

Recommendation: At a minimum turnover or desktop procedures. Require turnover binder with instructions. Reference: MCTFSPRIUM, par 10300.2; MARADMIN 026/15

FA: 3040 Casualty Affairs - MC with (1) Finding

Inspector: SSgt

0122: Is the command archiving copies of PCRs for at least six years in conformance with the Freedom of Information (FOIA) requirements? Reference: MCO 3040.4, chap 3, sect 2, par 1

Finding: Command does not have at least six years of PCR'S.

Recommendation: Command keeps file drawer with six years worth. Reference: MCO 3040.4, chap 3, sect 2, par 1

FA: 4600 Government Travel Charge Card - MC with (4) Findings

Inspector: 1stLt (b)(3), (b)(6), (b)(7)(c)

0207: Has the APC closed accounts (T1) on cardholders, both Civil Service and Military, who have Separated/Retired? Reference: MCO 4600.40B, encl 1, appendix B, par 9b

Finding: Out of ten sampled accounts, command placed one in a correct T1 status. The risk associated with not properly closing accounts is a misuse of the card after the member departs the service.

Enclosure (1)

Recommendation: Include a "GTCC" action column in the logbook. When members check out for EAS, this column can easily be viewed to ensure the appropriate closeout actions were conducted for the account. Reference: MCO 4600.40B, encl 1, appendix B, par 9b

0209: Is the APC extracting, properly working and maintaining the required monthly account listing report and filing for current plus two years? The APC must reconcile the Account Listing report with the unit's personnel rosters to identify accounts that do not belong. Note: APC must annotate the report so that the inspector can see how they are working the report. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(1)

Finding: The proper review, reconciliation, and filing of this report is crucial to effective program management. The risk associated with not properly pulling, working, and filing this report is that individuals who may appear within the command's alpha roster but do not appear on the account listing report are not identified and therefore will never appear within the hierarchy reports if in a delinquent status.

Recommendation: Bounce the alpha roster against the account listing report on a monthly basis to ensure personnel are being properly pulled into the GTCCP hierarchy. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(1)

0210: Is the APC extracting, properly working and maintaining the required monthly ACCOUNT ACTIVITY TEXT FILE CD100T report and filing it for current plus two years? Note: APC must annotate the report so that the inspector can see how they are working the report. The unit commander or designated representative (APC) must review a minimum of 25% of accounts with activity to ensure that charges were made in conjunction with official travel. Sample must increase to 50% if there is any suspected misuse/abuse. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

0211: Is the APC extracting, properly working and maintaining the required monthly DECLINED AUTHORIZATION Report? Note: APC must annotate on the report how they determined the transactions failed and the reason for the decline. Reference: DODI 5154.31, Vol 4, par 041402C

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

0215: Is the APC extracting, properly working and maintaining the required monthly DOD TRAVEL IBA AGING ANALYSIS SUMMARY report? This report identifies the reportable metrics for the command. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(4)

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

FA: 4650 Defense Travel System - MC with (1) Finding

Inspector: SSgt (b)(3), (b)(6), (b)(7)(c)

0205: Is the ODTA utilizing the Complete Traveler Information List Report to verify traveler profiles are maintained and up to date? The ODTA must demonstrate how the list is reconciled, how often they do this, provide copies of the report and indicate actions taken to resolve discrepancies. Reference: MCO 4650.39A, encl 1, chap 6, par 3d

Finding: Complete Traveler Report wasn't being verified with Alpha roster.

Recommendation: Unit must verify/account for all personnel assigned in order to reflect in DTS hierarchy. Relying solely on check in/out sheets will allow for discrepancy (member not properly joined). Once roster is verified, every month, the month task will be reduced to a short period of time and appropriate management of complete traveler's report completion. Reference: MCO 4650.39A, encl 1, chap 6, par 3d

FA: 5090 Environmental Program Management - MC with (3) Findings

Inspector: Mr. (b)(3), (b)(6), (b)(7)(c)

0118: Are unit personnel, subject to environmental training requirements, appropriately trained, and are those training requirements listed in their job descriptions? Reference: MCO P5090.2A, par 5303

Enclosure (1)

Finding: S3 and S4 Officer Environmental Awareness Training has not been completed. Failed to properly train the aboveground storage tank operators and two Hazardous Waste Handlers.

Recommendation: Complete the required training and file the certificates for three years. The unit must assign in writing the aboveground operators and all the Hazardous Waste Handlers, properly train them and keep training records for three years. Reference: MCO P5090.2A, par 5303

0121: Does the ECC track environmental training requirements and completion for the Marines in the unit who require it? Reference: MCO P5090.2A, par 5304

Finding: Failed to maintain training records. Train records must be retained for three years.

Recommendation: Properly train all the Hazardous Waste Handlers and keep the training records for three years. Reference: MCO P5090.2A, par 5304

0126: Does the unit comply with any orders, directives, and SOPs created by either the host installation or the unit established to adequately execute HW management controls? Reference: MCO P5090.2A, par 9302.2

Finding: Failed to properly label/date hazardous waste container. Failed to keep secondary spill containment devices clean and free of liquids and debris. Failed to inspect storage areas at least weekly. Missing weekly site inspections for July 2018.

Recommendation: Peel off the extra label on one of the waste barrels and replace all faded labels on waste containers. Clean and inspect all your secondary containers at least weekly. Conduct the required weekly inspection and keep the inspections sheet for three years. Reference: MCO P5090.2A, par 9302.2

FA 5100 Safety - MC with (4) Findings

Inspector: Mr. (b)(3), (b)(6), (b)(7)(c)

0106: Does the Commander or Executive Officer chair and conduct quarterly safety and safe driving councils to analyze and assess safety challenges, current trends, hazard corrective actions, local traffic safety issues, on and off-duty mishaps, and other force preservation and readiness issues? Reference: MCO 5100.298, encl (1), chap 2, par4a and NAVMC DIR 5100.8 chap 4, par 4001, MCO 6260.3A, encl (2), par 8(c)

Finding: There was not any evidence that safety council meetings were being properly conducted, chaired by the Commander or the Executive Officer.

Recommendation: Safety councils need to be held on a quarterly basis and chaired by the Commander or Executive Officer. They should consist of topics that are identified through mishap trends, deficiency of areas that aren't receiving the proper attention e.g. mishap reporting, section safety inspections, etc, and updates on the safety program if needed. Maintain a

roster with all attendees and minutes for the records. Reference: NAVMC DIR 5100.8, chap 13, par 13008.3.a.

0332: Does the command have an appropriately trained RPPM? Reference: NAVMC DIR 5100.8, chap 13, par 13008.3.a.

Finding: There was not any evidence that there was a qualified RPPM.

Recommendation: Appoint and train a qualified RPPM to manage the respirator program. Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

0333: Does the RPPM conduct an annual audit of the Respiratory Protection Program? Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

Finding: There was not any evidence of an annual audit of the Respiratory Protection Program.

Recommendation: Once an RPPM is qualified, conduct an annual audit of the Respiratory Protection Program. Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

0337: Does the command have a written policy (LOI, SOP) that addresses training, hazards, controls, reporting of injuries and obtaining Wet Bulb Globe Temperature (WBGT) readings in hot and cold environments? Reference: MARADMIN 111/15

Finding: No policy, letter of instruction or standard operating procedure was on hand.

Recommendation: Write a policy, letter of instruction or standard operating procedure for signature. There is an example of this on the Division Safety and Environmental Best Practice located on the G4 Sharepoint Page. Reference: MARADMIN 111/15

<https://eis.usmc.mil/sites/lmardiv/g4/DivSafety/default.aspx>

FA 5210 Records, Reports, & Directives Management - NMC with (11) Findings

Inspector: SSgt (b)(3), (b)(6), (b)(7)(c)

0104: Has the command assigned subordinate records managers to monitor proper record keeping in all staff sections (i.e., staff sections outside G1/S1)? Reference: MCO 5210.11F, par4c(3)(b), par4b(5)(a), par4c(2)(c)

Finding: Command had subordinate records managers that were no longer present.

Recommendation: Command update all subordinate records managers appointment letters and place in their turnover binder. Reference: MCO 5210.11F, par4c(3)(b), par4b(5)(a), par4c(2)(c)

0301: Has the command developed and maintained a Vital Records program (i.e., policy directive)? (Template directive available on RMKS site). Reference:

Enclosure (1)

MCO 5210.11F, par4a(1)(b)6, par4b(5)(b-c), par4c(2)(q), and chap 7, par 5b(3-4)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records.). Reference: MCO 5210.11F, par4a(1)(b)6, par4b(5)(b-c), par4c(2)(q), and chap 7, par 5b(3-4)

0302: Has the command integrated it's Vital Records program into the Command's Continuity of Operations Plan (COOP), safety, and/or Emergency Evaluation Plan (EAP)? (COOP templates are available at: [http://www.hqmc.marines.mil/ppo/Units/OperationsDivision\(PO\)ICurrentOperations Branch\(POC\)/Continuity of Operations\(COOP\).aspx](http://www.hqmc.marines.mil/ppo/Units/OperationsDivision(PO)ICurrentOperations Branch(POC)/Continuity of Operations(COOP).aspx)) Reference: MCO 5210.11 F, par 4a(1)(b)6 and 4c(2)(q)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Command also had no COOP in their records. Recommend Command develops a COOP with their S-2 and S- 3. Reference: MCO 5210.11 F, par 4a(1)(b)6 and 4c(2)(q)

0303: Has the command appropriately identified the types of vital records? (All staff sections and subordinate units shall determine what records are considered vital to the continuity of operations in the event of a natural disaster or emergency.) Reference: MCO 5210.11 F, chap 7, par 2 and par 3

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11 F, chap 7, par 2 and par 3

0304: Has the command conducted an annual inventory of all vital records? Reference: MCO 5210.11 F, chap 7, par 5b(1) and par 5b(3)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof

of no vital records. Reference: MCO 5210.11 F, chap 7, par 5b(1) and par 5b(3)

0305: Are all identified vital records current and properly managed throughout their lifecycle? (Vital records shall be managed and maintained by the appropriate SSIC of the identified record.) Reference: MCO 5210.11F, chap 7, par 5b(3) and par 5b(5)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11F, chap 7, par 5b(3) and par 5b(5)

0306: Has the command established a folder on the organization SharePoint Portal (or other electronic records management source if SharePoint is unavailable) labeled "Vital Records"? Reference: MCO 5210.11 F, chap 7, par 5b(7)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11 F, chap 7, par 5b(7)

0402: Has the command established a Reports Management program (i.e. policy directive)? (Template directive available on RMKS site. Reports Management ensures staff agencies are not putting undue burden on staff regarding the completion of reports/surveys, thus taking away from daily tasks. The Reports Management program ensures that reports and reporting systems are compliant with federal mandates (i.e., 5 CFR Part 1320, SSN Reduction Act, etc.) and provide necessary information effectively, efficiently, and economically.) Reference: MCO 5214.2F, par 4b(2) (a) and par 4a(1-13), and chap 2, par 3, and SECNAVINST 5210.16, par 5 a-d

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program. Reference: MCO 5214.2F, par 4b(2) (a) and par 4a(1-13), and chap 2, par 3, and SECNAVINST 5210.16, par 5 a-d

0403: Has the command issued a listing of their recurring reporting requirements? (The listing for recurring reporting requirements is necessary to keep track of what licensed reports are available, eliminates duplication, and can be used as a resource for data that may be needed by other staff agencies.) Reference: MCO 5214.2F, chap 6, par 2d, and chap 3, par 7d

Finding: Command had no Reports Management Program.

Enclosure (1)

Recommendation: Command use the reference to establish a reports program.

Reference: MCO 5214.2F, chap 6, par 2d, and chap 3, par 7d

0404: Is the Reports Manager ensuring that information collections are not redundant with forms and information collections of a higher authority?

(Local forms shall not be used if a higher level form and report (i.e., NAVMC, DD, SF, etc.) already exists for the information being collected.)

Reference: SECNAVINST 5210.16, par 7d-f

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program.

Reference: SECNAVINST 5210.16, par 7d-f

0406: Does the command maintain reports case files for their sponsored validated reports? (The case file is required for a report not mandated by higher authority. The case file validates the purpose for the information collection and shows the life of the report, (i.e., what directive required it, when it was required, a sample of the report or snapshot of the database and what Report Control Symbol was assigned to it.) **Reference:** MCO 5214.2F, chap 3, par 7

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program.

Reference: MCO 5214.2F, chap 3, par 7



UNITED STATES MARINE CORPS
1ST MARINE DIVISION
BOX 555380
CAMP PENDLETON, CALIFORNIA 92055-5380

IN REPLY REFER TO:
5040
CIG/G-7
21 Aug 18

From: Command Inspector General/G-7, 1st Marine Division
To: Commanding Officer, 3D Assault Amphibian Battalion

Subj: COMMENDATORY PERFORMANCE REPORT CASE OF 3D ASSAULT AMPHIBIAN BATTALION

Ref: (a) MCO 5040.6H
(b) DivO 5041.21N

1. Per the references, the following individuals are recognized as superior performers during the Commanding General's Inspection of 3D Assault Amphibian Battalion (3D AABn).

- a. FA 1560 Lifelong Learning
Staff Sergeant (b)(3), (b)(6), (b)(7)(c)
- b. FA 1730 Religious Ministries
Lieutenant (b)(3), (b)(6), (b)(7)(c)
- c. FA 3070 Operations Security
Sergeant (b)(3), (b)(6), (b)(7)(c)
- d. FA 3574 Marksmanship Program
Sergeant (b)(3), (b)(6), (b)(7)(c)
- e. FA 5110 Postal Affairs
Sergeant (b)(3), (b)(6), (b)(7)(c)
Corporal
- f. FA 5510.3 Information & Personnel Security
Sergeant (b)(3), (b)(6), (b)(7)(c)
- g. FA Motor Cycles Mentorship Program
Lieutenant (b)(3), (b)(6), (b)(7)(c)

2. A request for a Commanding General's Certificate of Commendation to recognize these individuals has been routed.

3. Any questions or concerns, please contact the 1st MarDiv CIG/G-7
Readiness Chief at (b)(3), (b)(6), (b)(7)(c) or via email at the organizational inbox
(b)(3), (b)(6), (b)(7)(c)

Enclosure (2)



UNITED STATES MARINE CORPS

3D ASSAULT AMPHIBIAN BATTALION
1ST MARINE DIVISION (REIN)
MCB BOX 555574
CAMP PENDLETON, CA 92055-5574

IN REPLY REFER TO:

1000

CO

1 Nov 19

From: Commanding Officer
To: SNCOs and Officers of 3rd Assault Amphibian Battalion

Subj: VISION

Ref: (a) Commander's Leadership Principles
(b) Commander's Initial Guidance
(c) 3D Assault Amphibian Battalion Annual Training Plan FY19

1. **Orientation/Vision:** The Marines and Sailors of 3rd Assault Amphibian Battalion (AABn) will be the most professional, resilient, and best trained in order to provide the 1st Marine Division with the most ready Assault Amphibian Battalion in the Marine Corps. The Marines and Sailors of this battalion form the backbone of the assault amphibian community for the Marine Corps and provide significant warfighting capabilities - direct fire support platform, breaching, amphibious mechanized lift, and full spectrum voice and data communications.

The Battalion's physical assets only account for a small portion of those capabilities. Capability = personnel + equipment + training. Without all three, capability does not exist. In order to provide "significant" warfighting capability all three need to exist together and be developed, maintained, and focused.

2. **Situation:** Over the last year, 3rd AABn has begun a transition to better provide the 1st Marine Division with a significant warfighting capability. This transition has been taking place in three crucial areas; within the development of our Marines and Sailors, within the training and education continuum, and on the rear area maintenance park (RAMP).

With a strong emphasis on leadership, accountability, and personal and professional development from the SNCO's and Officers within the Battalion and based on a cursory (unofficial) analysis of metrics such as the legal report and our NCO/SNCO panels, there are indications that the Marines and Sailors are making better decisions and are taking an active interest in each other and the unit. Through initiatives like "Take A Knee" we highlight the strength of character developed from positive and effective training facilitated through communication both up and down the chain of command.

Through the concerted efforts of our Company leadership, the training and education of our Marines and Sailors has become more focused and thoughtful. Over the last year each of the successive Unit Deployment Program companies in a pre-deployment training cycle has "bought back" critically important time for their Marines and Sailors. This time is beneficial to the morale and well-being of each of our Marines, Sailors, and their families. These efforts have enabled the development and fostering of a familial environment in which each Marine, Sailor and family member is appreciated and cared for.

On the RAMP, 3rd AABn has begun to adjust/reorganize its Table of Organization and Equipment (T/O&E) and physical posture to better facilitate

Subj: VISION

the manning and maintenance of our gear and vehicles, and better prepare to receive and employ the amphibious combat vehicle (ACV). Additionally, Company D has begun to adjust its T/O&E to facilitate the transition from the AAV Family of Vehicles to the ACV within the next fiscal year.

In order to continue these advances and to most effectively accomplish our Operational Priorities, 3rd AABn will continue the focus of effort on the development of our Marines and Sailors across the three areas as indicated above, leadership, accountability, and personal and professional development. Additionally, as a Battalion, we will continue to search for efficiencies in our training and maintenance cycles to "buy back" time for our Marines and Sailors, and improve both training and maintenance efforts.

As outlined in MCDP 1, "Operating forces should be organized for warfighting and then adapted for peacetime rather than vice versa", we will reorganize to reflect a wartime structure, prepare the battalion for major contingency operations, better facilitate Global Force Management (GFM) deployment requirements, and facilitate ACV fielding requirements.

The Battalion's Operational Priorities are as follows: (1) Major Contingency Operations, (2) Generating Ready Forces In Support Of GFM requirements, and (3) Developing Prepared and Resilient Marines, Sailors, and Their Families. In order for the Battalion to execute Priority (1) or (2) we must make Priority (3) our number one Supporting Effort. We cannot effectively execute Priorities (1) or (2) without Marines and Sailors of good character who have the leadership qualities necessary to lead their peers and subordinates into combat.

3. **Mission:** Immediately, all battalion leaders will reinforce NCO and SNCO leadership efforts in order to exploit the successes in the development of Marines and Sailors.

On order, all leaders will gain and maintain efficiencies in training and operations in order to provide Marines and Sailors opportunity to enable personal and professional development.

On order, reorganize the Battalion T/O&E to facilitate a clearer, more standardized, task organization and better equip Marines and Sailors to execute their Mission Essential Tasks.

4. **Execution:** Over the next year, 3rd AABn SNCOs and Officers will re-energize their efforts to develop the character and leadership of every Marine and Sailor under their charge.

I. Commander's Intent: It is my intent to capitalize on the successes that we have had over the last year and reinforce those efforts to improve the character and leadership development and qualities of every Marine and Sailor within the Battalion. Additionally, we will better equip each Marine and Sailor with the requisite gear to accomplish their METs. Simultaneously, we will gain efficiencies in time and resources to give back to the Marine and Sailor, thereby preventing burn-out and loss of motivation and morale. In all, we will be better stewards of the resources we have been given.

Purpose: To provide the Division with the most ready Assault Amphibian Battalion in order to accomplish all three operational priorities.

Method: We will accomplish this by focusing our efforts across three lines of effort (LOE); (1) reinforce NCO and SNCO leadership with the tools and means to develop and train their subordinate leaders on leadership,

Subj: VISION

accountability, and personal and professional development; (2) training and education of our Marines and Sailors will be done efficiently and productively to "buy back" time for our Marines and Sailors and improve both training and maintenance efforts; (3) reorganize the Battalion T/O&E to establish a "standard" Headquarters and Service Company and three "standard" line companies (Companies A, B, and C); and reorganize and equip Co D according to MCBUL 5400, to facilitate the transition from AAV Co D to ACV Co D.

End State: Marines and Sailors better trained and better equipped to handle the operational tempo and maintain a high state of morale and readiness, both personally and institutionally. Operational readiness of all of the Battalion's gear and equipment in a high state of readiness. The Battalion postured and ready to execute Operational Priority number one, while maintaining the recurring GFM requirements.

II. Tasks:

Company Commanders:

1. (T) Draft a Command Philosophy.
(P) Provide your subordinate leadership with the guidance and background on how you intend to Command your Company.
2. (T) Draft guidance regarding your plan of support to address the three lines of effort as outline above (put significant focus on LOE #1).
(P) Synchronize and convey your guidance with the Battalion Staff.
(P) Provide your Company Staff the best opportunity to support your efforts.
3. (T) Conduct a thorough scrub of your training schedules and deployment requirements.
(P) Create the most efficient and effective training plan.
(P) Give those resources to the Marines and Sailors (in the form of PME/Annual Training Opportunities/Liberty/NCO Days/etc.).

Battalion Executive Officer:

1. (T) Provide oversight to this transition process.
(P) Mediate between the Battalion Staff and Company Commanders.
(P) Establish realistic goals, expectations, and timelines/create an executable Plan of Actions and Milestones.
(T) Develop a Character Development Program to include but not limited to: PME, junior Marine/Sailor leadership opportunities, NCO, SNCO, and Officer led discussions, etc.
(P) Provide a focused and deliberate program.

Battalion Operations Officer:

1. (T) Provide oversight and guidance to the Company Commanders regarding LOE #2.
(P) Assist the Company Commanders with creating the most efficient and effective training plan for each company.
2. (T) Work with Division G-3 to schedule a realistic, executable and sustainable Training and Exercise Employment Plan.
(P) De-conflict and schedule reasonable and executable training opportunities for our Marines and Sailors.

Battalion Logistics Officer:

1. (T) Provide a POA&M to restructure the Battalion according to the guidance given for LOE #3.
(P) Provide the oversight and support to effect the most efficient and effective Battalion Structure.

Subj: VISION

All Battalion Staff (Primary/Special):

1. (T) Put your full support behind the efforts of the Company Commanders.

(P) Provide the resources necessary to train and educate the Marines and Sailors.

III. Coordinating Instructions: Omitted.

5. **Administration and Logistics:**

I. Administration: Ensure all Marines and Sailors within the Battalion are assigned a BIC number. Once this is completed ensure the reorganization accounts for the movement of that BIC. Continued review of BICs as Marines check-in and -out of the Battalion is vital to ensuring the reorganization is maintained at a high state of readiness.

II. Logistics: Ensure all equipment within the Battalion is cross leveled so that Companies A, B, and C all have equivalent gear sets to maintain, train on, and deploy with if necessary.

6. **Command and Signal:** I will lead this continued transition providing guidance and direction when required. The Battalion Executive Officer will oversee the day to day staff coordination in the execution of this order.

K. C. BRENIZE

(b)(3), (b)(6), (b)(7)(c)
Sgt

From: (b)(3), (b)(6), (b)(7)(c) Maj (b)(3), (b)(6), (b)(7)(c)
Sent: Tuesday, November 12, 2019 6:22 PM
To: (b)(3), (b)(6), (b)(7)(c) Maj (b)(3), (b)(6), (b)(7)(c)
Cc: (b)(3), (b)(6), (b)(7)(c) Maj (b)(3), (b)(6), (b)(7)(c) MGySgt (b)(3), (b)(6), (b)(7)(c) MGySgt (b)(3), (b)(6), (b)(7)(c) WO3 (b)(3), (b)(6), (b)(7)(c) MGySgt (b)(3), (b)(6), (b)(7)(c) Capt (b)(3), (b)(6), (b)(7)(c) 1stLt (b)(3), (b)(6), (b)(7)(c) MSgt (b)(3), (b)(6), (b)(7)(c) Capt (b)(3), (b)(6), (b)(7)(c)
Subject: Bn Reorg POAM Rough Cut COA
Attachments: TO Reorg.pptx
Signed By: (b)(3), (b)(6), (b)(7)(c)

XO-

Please see attached as tasked according to the CO Vision statement. This should be a first start will needs detailed refinement with staff and commander input.

The schedule is a rough one.

I recommend to the S3 and the companies to use the month of January and pause all training IOT execute the equipment and manning aspects of the Bn Reorg and conduct a maintenance stand-down. Obviously there will be a need to continue service level requirements like Iron Fist/ITX/etc.

R/

Maj (b)(3), (b)(6), (b)(7)(c)
Logistics Officer
3d Assault Amphibian Bn
1st Marine Division
Box 555574
Camp Pendleton, CA 92055-5547
Comm: (b)(3), (b)(6), (b)(7)(c)
Mobile: (b)(3), (b)(6), (b)(7)(c)

Bn Reorganization



11 Nov 2019



BN Organization

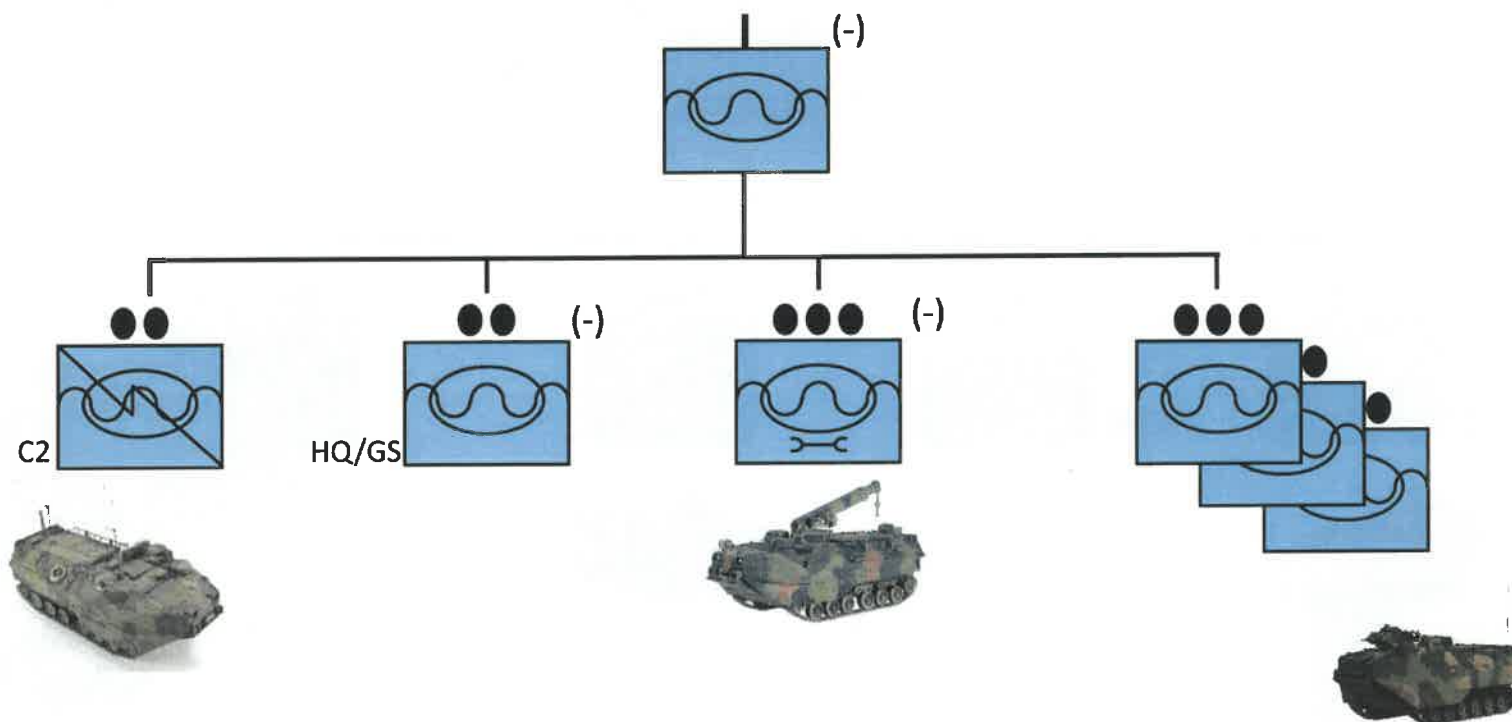


Current AAV Assignment:	Org by TO/E:	Proposed Cookie Cutter Goal:
<p><i>Alpha</i></p> <ul style="list-style-type: none"> • 42 P7 • 3 C7 • 1 R7 <p><i>Bravo</i></p> <ul style="list-style-type: none"> • 32 P7 • 2 C7 • 1 R7 <p><i>Charlie</i></p> <ul style="list-style-type: none"> • 31 P7 • 2 C7 • 1 R7 <p><i>Delta</i></p> <ul style="list-style-type: none"> • 24 P7 • 2 C7 • 1 R7 <p><i>HS</i></p> <ul style="list-style-type: none"> • 35 P7 • 4 C7 • 2 R7 <p><i>ADL</i></p> <ul style="list-style-type: none"> • 50 P7 • 2 C7 • 1 R7 <p><i>11th MEU</i></p> <ul style="list-style-type: none"> • 13 P7 • 1 C7 	<p><i>Alpha (6/186)</i></p> <ul style="list-style-type: none"> • 43 P7 • 2 C7 • 1 R7 <p><i>Bravo (6/186)</i></p> <ul style="list-style-type: none"> • 43 P7 • 2 C7 • 1 R7 <p><i>Charlie (7/223)</i></p> <ul style="list-style-type: none"> • 53 P7 • 3 C7 • 2 R7 <p><i>Delta (8/207/4)</i></p> <ul style="list-style-type: none"> • 43 P7 • 2 C7 • 1 R7 <p><i>HS (22/334/2/20)</i></p> <ul style="list-style-type: none"> • 41 P7 • 6 C7 • 2 R7 	<p><i>FWD UDP Co (6/187/0/2)</i></p> <ul style="list-style-type: none"> • 42 P7 • 3 C7 • 1 R7 <p><i>PTP Co (6/187/0/2)</i></p> <ul style="list-style-type: none"> • 43 P7 • 2 C7 • 1 R7 <p><i>Forming Co (6/182)</i></p> <ul style="list-style-type: none"> • 43 P7 • 2 C7 • 1 R7 <p><i>ACV Co (8/207/0/4)</i></p> <ul style="list-style-type: none"> • 24 P7 • 2 C7 • 1 R7 <p><i>HS Co (22/323/2/15)</i></p> <ul style="list-style-type: none"> • 25 P7 • 5 C7 • 2 R7 <p><i>CHOP'ed MEU (1/50/0/1)</i></p> <ul style="list-style-type: none"> • 13 P7 • 1 C7 <p><i>ADL (equates approx. 99 personnel)</i></p> <ul style="list-style-type: none"> • 33 P7 (3 from HS, 10 from Co C, 19 Co D, 1 Co A) (1 R7) (1 C7) • 6 Mk-154 kits
<p>Bn is 5 P7 over TE and company manning level goal cannot be determined</p>	<p>Bn TE is 223/15/7 TO is 49/1136/2/24/1</p>	

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Company Organization (Forming)



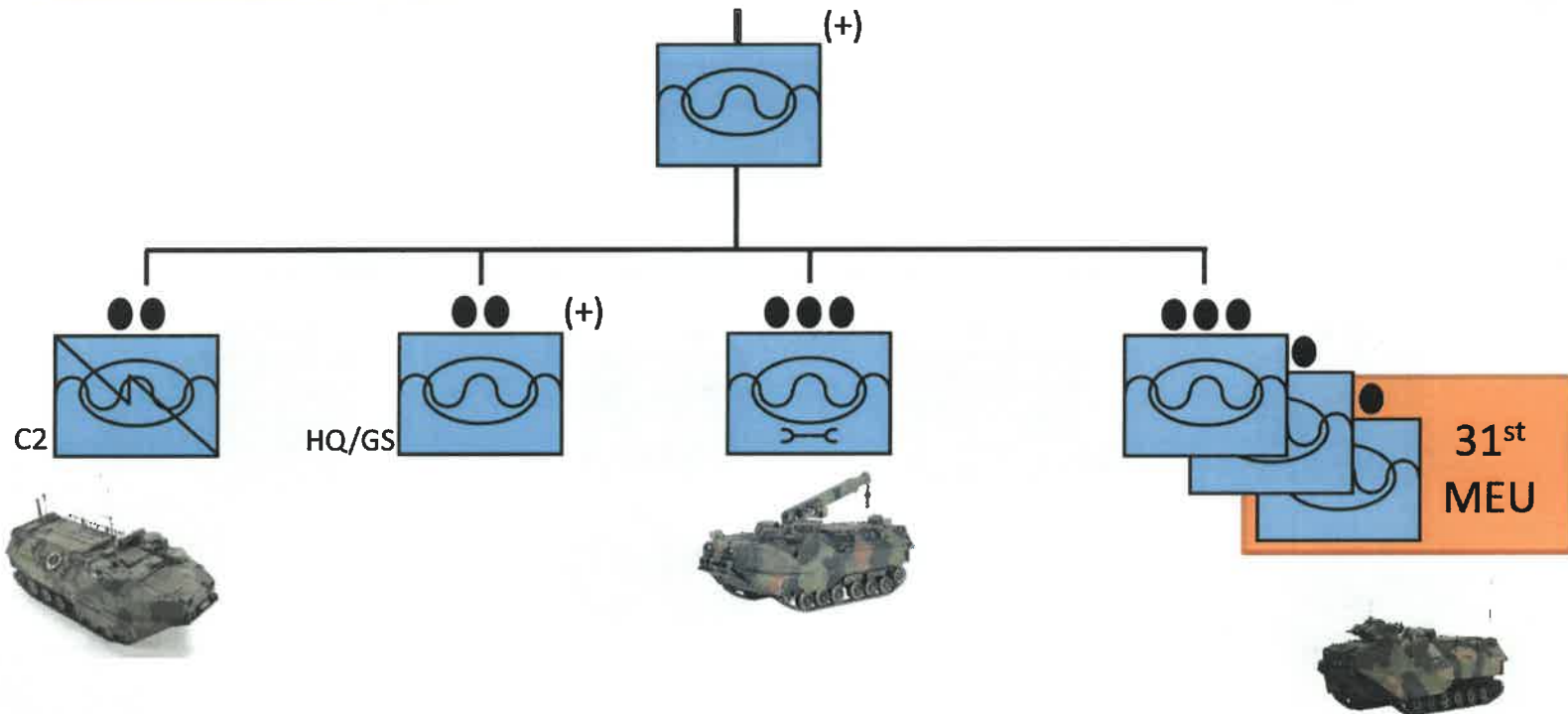
Forming

- (43 P7/2 C7/1 R7); (6 MO/182 ME)
- (-1) 1316 Welder part of HS/Bn Eng
- (-1) 0431 Embark part of HS/S4 UMCC
- (-1) 3521 MT Mech part of HS/Bn MT
- (-1) 2111 Armorer part of HS/Bn Armory

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Company Organization (UDP/PTP)



1 REIN AA Company ISO UDP/31 MEU or PTP Phase

- (43 P7, 2 C7, 1R7); (6 MO/187 ME/2 NE)
- Company will receive complete T/O (welder, embark, mt mech, armorer)
- Company will be augmented from HS with (2) Corpsman, (1) Food Service
- HS Augments and four low density MOS will return to HS at R+30

31st MEU out of hide from Company once on island; AA Company UDP equipment set is deficient 1 P7 and MT assets from this construct. Recommend resourcing Company MT assets in Oki; divest MT assets in CPCA.

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Line Company Modifications From T/O

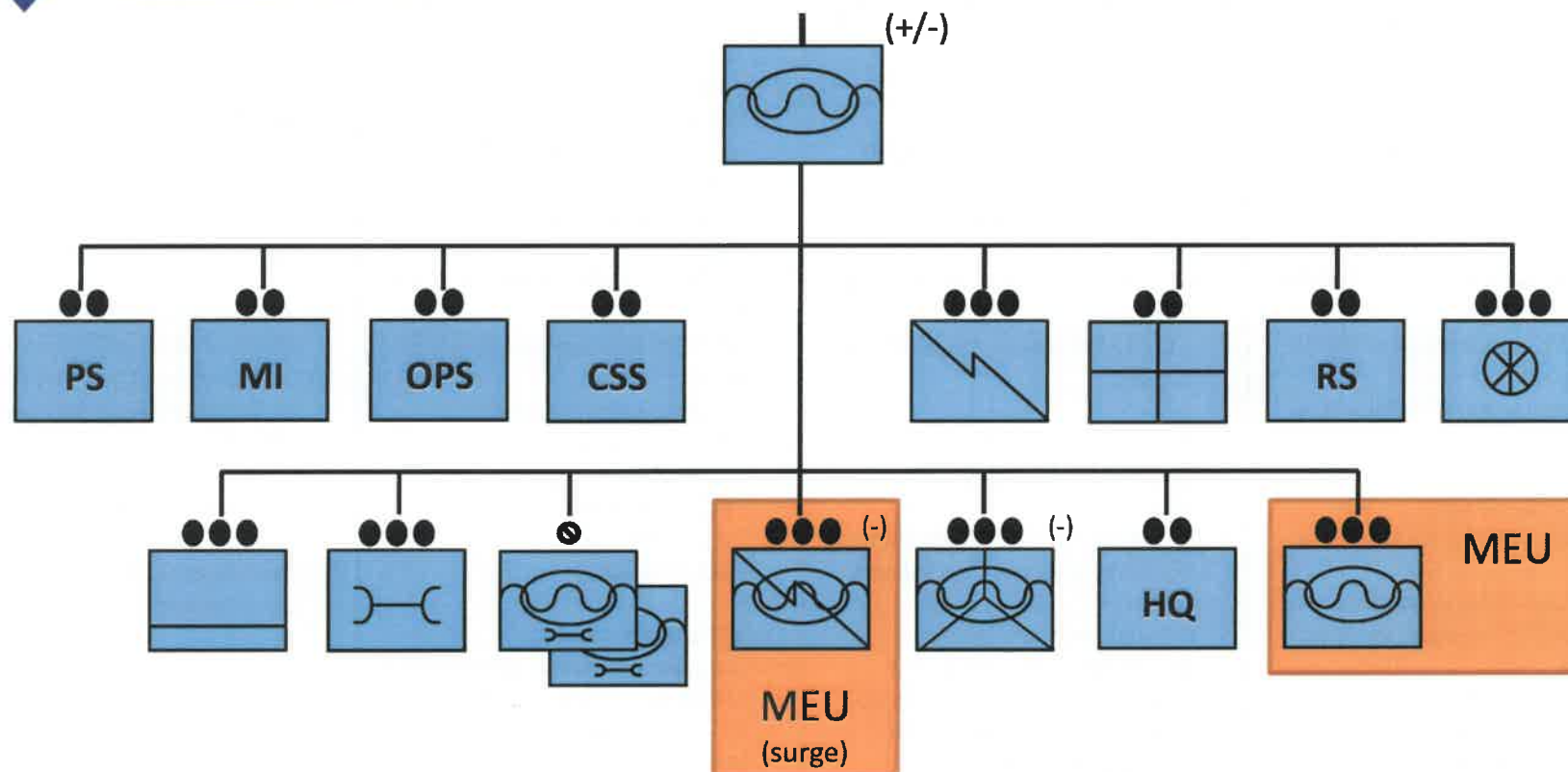


<p>A Co Forming (43/2/1)</p> <ul style="list-style-type: none"> • 6 MO • 182 ME • (-1) 1316 Welder part of HS/Bn Eng • (-1) 0431 Embark part of HS/S4 UMCC • (-1) 3521 MT Mech part of HS/Bn MT • (-1) 2111 Armorer part of HS/Bn Armory • (1 P7 from mapped III MEF TE in ADL) <p>D-180 to R+30 (43/2/1)</p> <ul style="list-style-type: none"> • Company will receive complete T/O • Company will be augmented from HS with (2) Corpsman, (1) Food Service. • HS Augments and four low density MOS will deploy but return their AAV gear set to HS. HS Personnel Augments will return to HS at R+30. • Equipment turnover will occur with returning company. Returning Company will transition to forming phase. 	<p>B Co Forming (43/2/1)</p> <ul style="list-style-type: none"> • 6 MO • 182 ME • (-1) 1316 Welder part of HS/Bn Eng • (-1) 0431 Embark part of HS/S4 UMCC • (-1) 3521 MT Mech part of HS/Bn MT • (-1) 2111 Armorer part of HS/Bn Armory <p>D-180 to R+30 (43/2/1)</p> <ul style="list-style-type: none"> • Company will receive complete T/O • Company will be augmented from HS with (2) Corpsman, (1) Food Service. • HS Augments and four low density MOS will deploy but return their AAV gear set to HS. HS Personnel Augments will return to HS at R+30. • Equipment turnover will occur with returning company. Returning Company will transition to forming phase. 	<p>C Co Forming (43/2/1)</p> <ul style="list-style-type: none"> • 6 MO • 182 ME • (-1) 1316 Welder part of HS/Bn Eng • (-1) 0431 Embark part of HS/S4 UMCC • (-1) 3521 MT Mech part of HS/Bn MT • (-1) 2111 Armorer part of HS/Bn Armory • (-1) 0621 to HS/Bn Comm • (-31) 1833 to HS • (-1) 1803 to HS • (-6) 2141 to HS • (+1) 2149 from HS • (-10) P7 to ADL <p>D-180 to R+30 (43/2/1)</p> <ul style="list-style-type: none"> • Company will receive complete T/O • Company will be augmented from HS with (2) Corpsman, (1) Food Service. • HS Augments and four low density MOS will deploy but return their AAV gear set to HS. HS Personnel Augments will return to HS at R+30. • Equipment turnover will occur with returning company. Returning Company will transition to forming phase. 	<p>D (ACV) (24/2/1)</p> <ul style="list-style-type: none"> • 8 MO • 207 ME • 4 NE • (-19) P7 in ADL <p>TRANSITION IS THE MISSION.</p> <p>Recommended organization:</p> <ul style="list-style-type: none"> • IOTE ACV PLT formed from Company GS section and 1st Plt • 2nd Plt MCOTEA support (no vehicles) • 3^d Plt taskable ISO service level exercises (Bn economy of force measure IOT allow UDP companies to properly train to PTP requirements)
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HS Organization



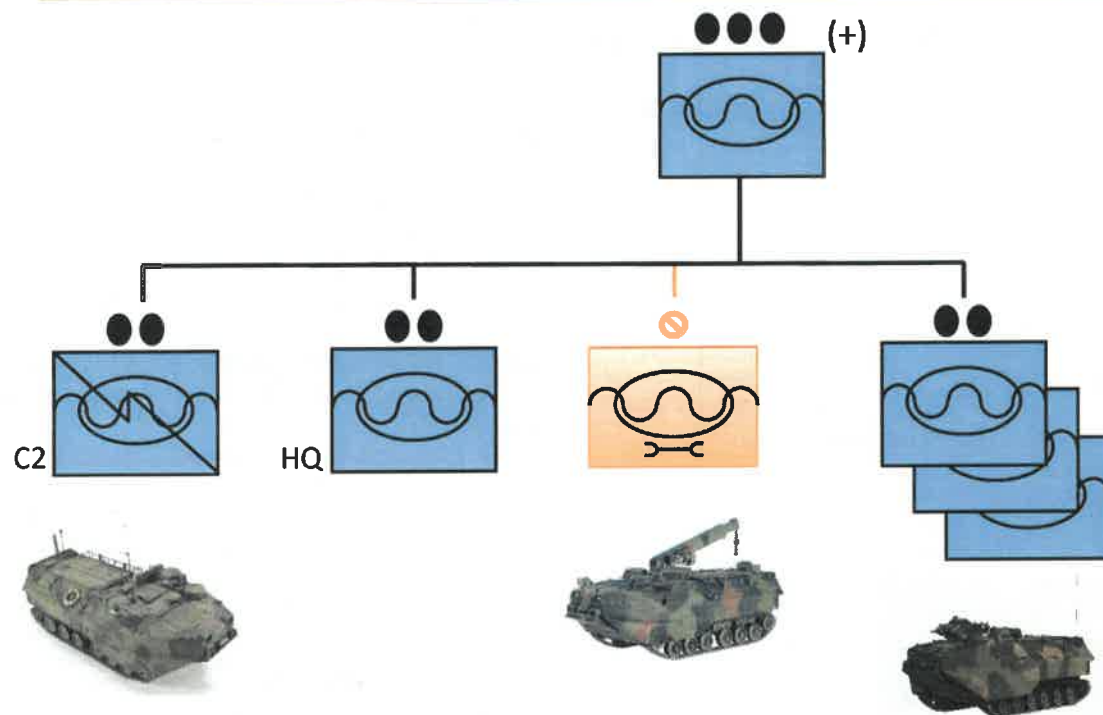
- (1) AA Plt (12 P7)
- (1) GS/NOTM Plt (8 P7 GS) (4 NOTM C7, 2 POP P7, 2 C7, 4 P7)
- (1) MCM Plt (3 MCM Sections; 6 P7 W/O Kits; 6 P7 w/MK 154)
- (2) Recovery Sections (2 R7)

*****13 P7, 1 C7 can be surged from GS/NOTM Plt to form additional MEU Plt*****

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Standard MEU Plt Organization



- (1/50/0/1)
- MEU Platoon reinforced from HQ GS/C2 Plt and **CLB R7 team**.

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HS Company Modifications



HS In Modified Structure (38/6/2)

- 23 MO
- 373 ME
- 2 NO
- 20 NE
- (3) 1316 Welder part of HS/Bn Eng
- (3) 0431 Embark part of HS/S4 UMCC
- (3) 3521 MT Mech part of HS/Bn MT
- (3) 2111 Armorer part of HS/Bn Armory
- (1) 0621 to HS/Bn Comm
- (31) 1833 to HS
- (1) 1803 to HS
- (6) 2141 to HS
- (-1) 2149 from HS to Charlie
- 3 P7 in ADL

AAV Organization

- MCM Plt (12 P7, 6 w/ Kits)
- GS/C2 Plt (8 P7); (4 P7, 6 C7, 2 POP)
- R7 Section (2 R7)
- AA Line Plt (12 P7)

HS Steady State (25/5/2)

- 22 MO
- 323 ME
- 2 NO
- 15 NE

UDP Enduring Support (FWD/PTP)

- (-2) 1316 Welder
- (-2) 0431 Embark
- (-2) 3521 MT Mech
- (-2) 2111 Armorer
- (-4) Corpsmen
- (-2) Food Service

CHOP'ed MEU Support (as needed)

- (-1) 0621
- (-1) 1803
- (-36) 1833
- (-5 1833, -1 2841) (NOTM/POP)
- (-6) 2141
- (-1) Corpsman
- (-1) 2111

Enduring Line Company Support

- (-1) 2149

Retained Company Caps

- MCM PLT (6 P7 W/O Kits, 6 P7 w/MK 154)
- GS/C2 Plt (8 P7); C7 Sections (5 C7, 4 P7, 1 POP)
- Recovery Section (2 R7)
- ***13 P7, 1 C7 can be surged from GS/C2 Plt to form additional MEU Plt***

Enduring Forces Provided:

1 REIN AA Company ISO UDP/31 MEU

- 42 P7, 3 C7, 1R7 (6 MO/182 ME)
- **1 additional C7 Section (1 P7/1 C7), (6 ME)???**
- HS Augments (5 ME/ 2 NE)
- (6 MO/187 ME/2 NE)

D-180 to R+30

- Company will receive complete T/O (welder, embark, mt mech, armorer)
- Company will be augmented from HS with (2) Corpsman, (1) Food Service, HS Augments and four low density MOS will return to HS at R+30
- **III MEF TE has Mk 154 kits; however, the AA Company gear set in Oki is deficient 6 AAVP7 IOT support MCM/C7 section**
- **AA Company in Oki is also deficient the rolling stock/trailers/supporting gear set to be TE complete. Those assets reside in Camp Pendleton?**

1 REIN AA PLT ISO (11/13/15) MEU

- 12 P7 (1 MO/37 ME) (6 ME)
- 1 C7 Section (1 P7/1 C7), (6 ME)
- Enablers (1 ME/1 NE)
- (1 MO, 50 ME, 1 NE)

CHOP to Decomposite

- At CHOP HS will augment MEU Plt with (1) Corpsman, (1) C7 section, and (1) armorer
- HS Augments will return to HS at decomposite

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POA&M



NOV

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
CMR Consolidation: HS, S6, S4, S3						
10	11	12	13 Co A/B RIPTOA Complete	14	15	16
CMR Consolidation: HS, S6, S4, S3						
17 Co B MB Deploy	18	19 Co A MB Return	20	21	22	23
			C Co MT Transfer			
CMR Consolidation: HS, S6, S4, S3						
24	25	26 11 MEU Return	27	28	29	30
C Co MT Transfer						
CMR Consolidation: HS, S6, S4, S3						

DEC

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
SK 20						
CMR Consolidation: HS, S6, S4, S3						
8	9	10	11	12	13	14
SK 20						
CMR Consolidation: HS, S6, S4, S3						
15	16	17	18 ★ HS: 35 P7, 4 C7, 2 R7	19	20	21
CMR Consolidation						
22	23	24	25	26	27	28
HS ADL PULL (1 C7, 1 P7)						
29	30	31	1	2	3 ★ HS: 36 P7, 5 C7, 2 R7	4
HS ADL PULL (1 C7, 1 P7)						



POA&M



JAN

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3 ★ HS: 36 P7, 5 C7, 2 R7	4
HS ADL PULL (1 C7, 1 P7)						
5	6	7	8	9	10	11
HS COC?						
Co C COC?						
Bn BSO and Personnel Realignment						
12	13 ★ 11 th MEU CHOP to Co A	14	15	16	17 ★ HS: 38 P7, 6 C7, 2 R7	18
Bn BSO and Personnel Realignment						
11 MEU CHOP 1 P7, 1 POP, 1 C7 to HS						
19	20	21	22	23	24 ★ Co A: 43 P7, 6 C7, 2 R7	25
Bn BSO and Personnel Realignment						
11 MEU CHOP 11 P7 to Co A						
26	27 ★ 15 MEU Formed	28	29	30	31	
CO C ADL PULL (12 P7)						

FEB

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
Co A COC?						
Cross level Co A and HS TE						
9	10	11	12	13	14	15
Cross level Co A and HS TE						
16	17	18	19	20	21	22
23	24	25	26	27	28	29



Train, Man, Equip, Support



Equipment Normalization will be complete in February:

- HS CMR consolidation Nov/Dec
- Co C TO/E complete 27 Nov (-12 AAV for 3d Plt)
- HS Pull 1 C7/1 P7 from ADL Dec and mount 2 Mk154 kits
- 11 MEU returns an assets are distributed to Co A and HS in Jan
- 15th MEU is formed EOM January
- Co C ADL Pull 12 P7 EOM January
- Co A TE cross levelled mid February

Manning priorities will be as follows:

- Co C
- Co A
- Co D as necessary for IOTE/MCBUL 5400
- HS Enduring
- Co B upon redeployment to CPCA
- Personnel across the BN will be cross leveled and reorganized in the month of January
- Personnel will be aligned to a single BIC according to billet. Weekly BIC reconciliations with the S1 will ensure compliance.

Training implications:

- MCTIMS will be realigned according to the 13 ROs. The 13 RO will be accountable for coordinating training for their subordinate elements.
- Ammo Allocations will align with the 13 ROs.
- The S3 will establish the Bn training priorities and establish the yearly CONOP for accomplishing 7000 level tasks. HS Co will be responsible for coordinating HS, S3, S4, S6, Supply, Bn Maint, Bn Ordinance, BAS and Bn Motor-T training efforts and requirements ISO S3 7000 lvl CONOP.
- These entities will also coordinate their yearly budgets through the HS CO to the S3/S4/XO/CO.

Supporting systems to be realigned:

- There will be 13 CMR Accounts: HS, S3, S4, S6, Supply, ADL, Bn Maint, Bn Ordinance, BAS, Bn Motor-T, B Co, C Co, D Co.
- There will be 13 BESAs associated with funding that will match the CMR Accounts. Appropriate RIs and DOAs will be appointed to assist in management of the accounts according to TO sections/subsections and billet responsibilities.
- Every effort will be made in GCSS MC, MCTIMS and MOL to ensure transparency, easy of understanding, efficiency and effectiveness of reconciling training, manning and equipping of the revised Bn structure.
- A TOECR will be consolidated and submitted with the revised changes to Bn organization as well as the divestment of non-essential equipment and the acquisition of mission essential equipment.
- CLC2S will be reorganized according to the 13 ROs, and their established subsections/RIs.

Additional changes to supporting electronic systems associated with the support structure must be researched. This will be an RFI to the HS subsections.



S-4



Projects:

Close Fight

- YAC and Y13MEU divestment to YADL/Bn. Maint/S6/HS/C CO
 - *Pending RO for YADL follow up action*
- BN Reorganization
- FY20 Budget/Support Plan for Operations and Training (**pending submissions**)
- S4 Play Book
- NETT/IOTE Support requirements through end of FY

Pending

- T/O and T/E changes: S6 (NOTM/TAMPA); MT (CL 1, 3, 5, 9, capability/capacity/personnel for Bn and Co); Supply and Log personnel (Bn/Co)
- EAAK Removal/Storage Plan
- Ramp Safety SOP

Facilities:

MILCON

- Design Phase (March – December 2019)
 - *Construction bringing in March*
 - *Pending pre-final design drawings*

Bn Headquarters

- DRMO/DISPO old broken chairs, excess furniture, filling cabinets
- Carpet Cleaning (available for check out with S4)
- *Pending phone/printer services update for Supply*

AAV Ramp

- *Port issues remain for MT IRT printers, and computers*
- *Pending phone/printer services for MT*

Barracks/Bn Common Areas

- A member of Company Staff is expected to conduct weekly inspections of Barracks/common areas; S4 will spot check on Friday mornings
- Revising Barracks oversight, turnover and work request process
 - 25% month random verification of Barracks rooms and work requests

Priorities of Work:

- 1 – BN REORG
- 2 – YAC/YADL Follow Up
- 3 – FY20 Budget refinement

Areas of Concern:

- 1 – Bn Reorganization (Information Sys)
- 2 – February Maintenance Stand down (funds)
- 3 – Facilities support follow up

Enclosure (123) Page 1 of 5



BN Organization



Current AAV Assignment:

Alpha

- 42 P7
- 3 C7
- 1 R7

Bravo

- 32 P7
- 2 C7
- 1 R7

Charlie

- 31 P7
- 2 C7
- 1 R7

Delta

- 24 P7
- 2 C7
- 1 R7

HS

- 35 P7
- 4 C7
- 2 R7

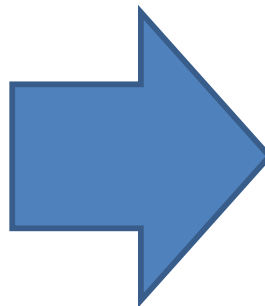
ADL

- 50 P7
- 2 C7
- 1 R7

11th MEU

- 13 P7
- 1 C7

Bn is 5 P7 over TE and company manning level goal cannot be determined



Future State:

FWD UDP Co (6/187/0/2)

- 42 P7
- 3 C7
- 1 R7

PTP Co (6/187/0/2)

- 43 P7
- 2 C7
- 1 R7

Forming Co (6/182)

- 43 P7
- 2 C7
- 1 R7

ACV Co (8/207/0/4)

- 24 P7
- 2 C7
- 1 R7

HS Co (22/323/2/15)

- 25 P7
- 5 C7
- 2 R7

CHOP'ed MEU (1/50/0/1)

- 13 P7
- 1 C7

ADL (equates approx. 115 personnel)

- 33 P7 (3 from HS, 10 from Co C, 19 Co D, 1 Co A) (1 R7) (1 C7)
- 6 Mk-154 kits



POA&M



JAN

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7 <i>IPR 4</i>	8	9 HS COC CO C COC	10	11
<div>Bn BSO and Personnel Realignment</div> <div>15 MEU CHOP to Co A</div>						
12	13	14 <i>IPR 5</i>	15 11 th MEU CHOP to HS	16 <i>MRB</i>	17	18
11 MEU CHOP 12 P7, 1 POP, 1 C7 to HS						
19	20	21 <i>IPR 6</i>	22	23 <i>SRB</i>	24	25
11 MEU CHOP 12 P7, 1 POP, 1 C7 to HS						
26	27	28 <i>IPR 7</i>	29	30 <i>MRB</i>	31	
Form 15 MEU						

FEB

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4 <i>IPR 8</i>	5	6 <i>SRB</i>	7	8
<div>C7 Upgrade Fielding</div> <div>Bn cross level of Armory TE</div>						
9	10	11 <i>IPR 9</i>	12	13 <i>MRB</i>	14	15
16	17	18 <i>IPR 10</i>	19	20 <i>SRB</i>	21	22
<div>BN Maint Stand down</div> <div>C Co ADL Draw (12 AAVs)</div>						
23	24	25 <i>IPR 11</i>	26	27 <i>MRB</i>	28	29
<div>BN Maint Stand down</div> <div>HS Co ADL Draw</div>						

Enclosure (123) Page 3 of 5



POA&M



MAR

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3 <i>IPR 12</i>	4	5 <i>SRB</i>	6	7
BN Maint Stand down						
8	9	10 <i>IPR 13</i>	11	12 <i>MRB</i>	13	14
BN Maint Stand down						
15	16	17 <i>IPR 14</i>	18	19 <i>SRB</i>	20	21
22	23	24	25	26 <i>MRB</i>	27	28
29	30	31				

APR

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2 <i>SRB</i>	3	4
5	6	7	8	9 <i>MRB</i>	10	11
12	13	14	15	16 <i>SRB</i>	17	18
DIV LRE						
19	20	21	22	23 <i>MRB</i>	24	25
26	27	28	29	30 <i>SRB</i>		



Train, Man, Equip, Support



Equipment Normalization will be complete EOM February:

- ~~HS CMR consolidation Nov/Dec~~
- ~~Co C TO/E complete 27 Nov (12 AAV for 3d Plt)~~
- **15 MEU CHOP to Co A NLT 10 Jan**
- 11 MEU returns and assets are distributed to HS NLT 24 Jan
- 15 MEU is reformed NLT 31 Jan
- Bn Armory TE cross levelled NLT 7 Feb
- Bn Maint Stand down 18 Feb – 13 Mar
- HS ADL Pull 18 – 21 Feb and mount 2 Mk154 kits
- Co C ADL Pull 24 – 28 Feb

Manning priorities and considerations:

- MEU Plt(s), Co C, Co A, Co D as necessary for IOTE/MCBUL 5400, HS (GS, MCM), Co B upon redeployment to CPCA
- Personnel across the BN will be cross leveled and reorganized in the month of January
- Personnel will be aligned to a single BIC according to billet. Weekly BIC reconciliations with the S1, RO rep and Company 1stSgt will ensure compliance.

Training implications:

- MCTIMS realigned according to the 13 ROs and their subordinate RIs. The 13 RO will be accountable for coordinating training for their subordinate elements.
- Ammo Allocations will align with the 13 ROs.
- The S3 establishes Bn training priorities and yearly CONOP for accomplishing 7000 level tasks. HS Co will be responsible for coordinating HS, S3, S4, S6, Supply, Bn Maint, Bn Ordinance, BAS and Bn Motor-T training efforts and requirements ISO S3 7000 lvi CONOP.
- These entities will also coordinate their yearly budgets through the HS CO to the S3/S4/XO/CO.

Supporting systems to be realigned:

- There will be 13 CMR Accounts: HS, S3, S4, S6, Supply, ADL, Bn Maint, Bn Ordinance, BAS, Bn Motor-T, B Co, C Co, D Co.
- There will be 13 BESAs associated with funding that will match the CMR Accounts. Appropriate RIs and DOAs will be appointed to assist in management of the accounts according to TO sections/subsections and billet responsibilities.
- Every effort will be made in GCSS MC, MCTIMS and MOL to ensure transparency, easy of understanding, efficiency and effectiveness of reconciling training, manning and equipping of the revised Bn structure.
- A TOECR will be consolidated and submitted with the revised changes to Bn organization as well as the divestment of non-essential equipment and the acquisition of mission essential equipment in FEB.
- CLC2S will be reorganized according to the 13 ROs, and their established subsections/Ris and HS Company commodities.
- Recommend DTS authorization hierarchy be revised according to 13 ROs with an appointed DTS manager.
- FITREP, pros/cons, leave/liberty approval processes must be reviewed.
- All processes for support requests/training/personnel will be outlined in a Bn Play book (aka 3d Tracks for dummies).

Additional changes to supporting electronic systems associated with the support structure must be researched. Currently pending feedback from HS/Staff Sections.

From: (b)(3), (b) Maj (b)(3),
To: (b)(3), Capt (b)(3), (b)(6), (b) Capt (b)(3), (b)(6), (b)(7)(c) Maj (b)(3), (b)(6), (b)(7)(c) Capt (b)(3), (b)(6), (b)(7)(c) Capt (b)(3), (b)(6), (b)(7)(c) 1stLt (b)(3), (b)(6), (b)(7)(c) 1stLt (b)(3), (b)(6), (b)(7)(c) Capt (b)(3), (b)(6), (b)(7)(c) MSgt (b)(3), (b)(6), (b)(7)(c) SSgt (b)(3), (b)(6), (b)(7)(c) CWU3 (b)(3), (b)(6), (b)(7)(c) CWU2 (b)(3), (b)(6), (b)(7)(c)
Cc: (b)(3), (b) MGySgt (b)(3), (b) Maj (b)(3), (b)(6), (b)(7)(c) Maj (b)(3), (b)(6), (b)(7)(c) MGySgt (b)(3), (b)(6), (b)(7)(c) 1stLt (b)(3), (b)(6), (b)(7)(c)
Subject: INFO: BN REORG, 11MEU, 15 MEU
Date: Monday, December 2, 2019 1:54:40 PM

Leaders-

This is for your planning purposes. Additional information will follow IRT how the Bn will move forward with reorganization. Up to this point I have provided the brief and intent per the CO's Vision statement. A formal LOI will be built to outline more specific expectations and tasks.

The reorg will happen in January. I have cleared the following through the S3 and the CO. Aside from service level exercises and ship ops the focus of effort for FY20 2d Qtr will be BITS, maintenance stand down/maint runs/maint ops/SSRI configuration, and reorg tasks for HS, Alpha and Charlie. Company D and B, this does not apply to you. Reorg tasks imply the movement of personnel, equipment, and modifications to supporting system architecture (CLC2S, MCTIMS, MOL, etc) to align to the new organization. Training outside of the above priorities will need to be approved and coordinated with the S3.

Pending the last meeting, the CO had the 11/15 MEU integration for decision. The CO has made a decision and it is below.

In accordance with the POAM:

18 Dec to 10 Jan - Lt (b)(3), (b)(6) plt assets will go to Co A. We are pending exactly what personnel will also go with the equipment.

On or around 15 Jan - 11MEU will chop back to HS Co.

27 Jan to 31 Jan - 15 MEU formed within HS.

Let me know if you have any questions or have questions ready for tomorrow's IPR with the XO.

R/

Maj (b)(3), (b)(6), (b)(7)(c)
Logistics Officer
3d Assault Amphibian Bn
1st Marine Division
Box 555574
Camp Pendleton, CA 92055-5547
Comm: (b)(3), (b)(6), (b)(7)(c)
Mobile: (b)(3), (b)(6), (b)(7)(c)
NIPR: (b)(3), (b)(6), (b)(7)(c)

Remote Weapon Station Modification



Program Description

- The M153 Common Remotely Operated Weapon Station (CROWS) is a stabilized mount that contains a sensor suite and fire control software. Allows on-the-move target acquisition and first-burst target engagement. Capable of target engagement under day and night conditions. CROWS supports Mk-19 Grenade Machine Gun and M2 .50cal Machine Gun.
- ECP will include new Vehicle Commander station, seat, hatch / riser armor system
- E3 testing at NSWC DD successfully completed 18 Dec 18. Safety Certification Testing at ATC completed Jul 19.
- Procurement reduced from 330 to 140 RWS kits, based upon USMC Force Design planning.
- Allocation: 84 – 2D AA Bn, 43 – 3D AA Bn, 11 - AAS

Project Status

FY20

- Two sub vendors to Vehicle Integration Kit (VIK) prime contractor effected by COVID-19 causing a two and a half to three month delay in production schedule

FY21

- Completed Engineering Change Proposal (ECP)
- Distribution Decision
- Begin Distribution / Installations began on 8 Mar 21

Remote Weapon Station Milestone Table

Milestone	Objective Date	Threshold Date	PM Estimate Date
RWS Integration Kit	Aug 18	Nov 18	Oct 18
Testing	Jun 19	Jul 19	Jun 19
ECP Complete	May 19	Oct 19	Dec 20
Distribution Decision	Mar 20	Sep 20	Feb 21
Distribution / Installation	4QFY20	1QFY21	Mar 21

Intercom (ICS) Modernization



Project Description

- New ICS provides warfighter with improved radio control and interoperability
- Project is an ECP - replaces obsolete AN/VIC-2 and TOCNET intercoms with the Harris RF7800I ICS on the AAV FoV
- Engineering performed at NIWC Charleston (DIF)
- 451 ICS kits have been procured to support installs on 376 AAVP7s, 40 AAVC7s and 35 AAVR7s.
- Training for Operators, Functional Administrators, and Maintainers completed and provided to MCCES and AAS
- ICS Provisioning completed

Program Status

FY20

- Initial installations conducted at I MEF and II MEF
- Install plans being modified to correspond with AA Force Design implementation plan and associated AAV sunset.

FY21-24

- Distribution continues

Intercoms (ICS) Modernization Milestone Table

Milestone	Objective Date	Threshold Date	PM Estimate Date
P7 & R7 ICS Procurement	Nov 18	Jan 19	Dec 18
C7 ICS Procurement	Feb 19	Apr 19	Mar 19
C7 ICS ECP Completion	Feb 19	Apr 19	Mar 19
Distribution Decision	N/A	N/A	N/A
Distribution / Installation	Jul 19	Sep 19	Aug 19

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Tactical Communications Modernization



Project Description

- TCM Project is an ECP - replaces currently fielded radios (SINCGARS, AN/PRC-150, and AN/PRC-117F). These radios will be obsolete by 2024 due to the NSA cryptographic modernization mandate.
- Strategy is to procure the enterprise next generation Multi-Channel Radio, RT-2034 (a.k.a. AN/PRC-158) and the wide-band HF radio, RT-2060 (a.k.a. AN/PRC-160) solutions to integrate into AAV
- New radio technology provides warfighter with quantum leap ahead in communications capability. New radios meet the NSA 2024 Crypto mandate.
- 446 MCR Systems (current estimate), based on Force Design implementation
- Engineering performed at NIWC Charleston (DIF)
- Fully Funded PB-22

Program Status

FY21

- PCA of Finalized design
- ECP approval
- Procurement of Radios
 - Leverage PM CS Joint Army contract
- Development of Distribution Plan
 - CD&I, PP&O participation
- Distribution Conference
- Distribution Decision

FY22-24

- Distribution to units to align with Force Design changes

Tactical Communications Modernization (TCM) Milestone Table

Milestone	Objective Date	Threshold Date	PM Estimate Date
P7 & R7 Design Complete	May 18	Jul 19	Jun 19
C7 Design Complete	Jul 19	Sep 19	Aug 19
Test	Dec 19	Feb 20	Jan 20
ECP Approval	Apr 21	May 21	Jun 21
Distribution / Installation	Apr 22	May 22	Jun 22

Enclosure (125) Page 3 of 4



CUI

AAV Mods Procurement Schedule

AAV MODIFICATIONS PROCUREMENT SCHEDULE

FISCAL YEAR			FY20				FY21				FY22				FY23				FY24				FY25			
Quarter			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AAV, Remote Weapon Station (RWS)	Total P C R	140 140 0 0	Procure 140				Install																			
			60				ECP Approval																			
			60																							
AAV, Intercoms (ICS) Modernization	Total P C R	451 376 40 35	Procure 451				Install																			
			18				44																			
			18				36																			
							5																			
							3																			
AAV, Radio Modernization (TCM)	Total P C R	446 403 18 25	Procure 446				Install																			
			Procure Test				ECP Approval				141															
			Vehicle Integration & Test				305				262															
							18				141															
							25																			
Emergency Egress Lighting System (EELS) VPM	Total P C R	389 354 35 0	Procure 389				Install																			
			ECP Approval				69																			
			320																							
			70				105																			
			10				15																			
AAV, Assured Position, Navigation, and Timing (A-PNT)	Total P C R	76 52 12 12	Design & Eng				Procure 76				Install															
			Testing				DEMO				ECP Approval															
			64				12				12															

CUI

From: Joseph Osterman (b)(3), (b)(6), (b)(7)(c)
Sent: Sunday, May 2, 2021 9:11 PM
To: Mundy LtGen Carl E III
Subject: [Non-DoD Source] Re: One Final Issue

Sam,

Similar to our previous meeting, the following answers are provided with the below caveats and understanding that:

- They are associated with events over a year ago;
 - That I have no access to my USMC emails, files and calendar events that were associated with the timeframe, as I have been retired/on terminal leave for over nine months;
 - That I have only had a couple of hours to think about and answer the questions below, given my existing schedule and the timeline in which the answers to the questions were needed.
1. How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the MEF? *Risk assessments were made relative to issue specific items such as OPLAN Readiness, HD/LS MOS shortages, TEEP exercise preparedness, fiscal resource shortfalls, and force preservation, but were then also aggregated into an overall risk picture across the MEF. Accepting risk in one specific area invariably leads to risk in other areas and has to be incorporated into the overall risk assessment. For example, applying fiscal resources to an unexpected item within a fixed budget invariably increases fiscal risk in other areas. Minimizing risk to mission, such as readiness and execution of the unexpected, directed border augmentation mission, increased training, perstempo and resilience risk to the force in accomplishing other missions, as time is fixed for training and maintenance.*
 2. How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF Summits, QFPBs, ORM, and routine correspondence with subordinate commanders? *Risks were identified and discussed with the recurring reports and battle rhythm events such as DRRS, MEF Summits, QFPBs, ORM analysis and dialogue with subordinate commanders. It was also identified in staff planning processes for events through the use of course of action development, wargaming and confirmation briefs for exercises and training. During the COVID period, I conducted weekly VTCs with my subordinate and adjacent commanders to discuss the changes and constraints/restraints being directed from HQMC/DoD levels and the impact of those on training, readiness and preservation of the force. Adjustments were made on a weekly basis to accommodate the fluidity of the direction. In the aggregate, I used independent sources, such as my Red Team, CNA rep, Inspector General, SJA and my SgtMaj/Command Master Chief to obtain information outside of the staff processes and processes directed by HQMC, for the analysis of risk. The results of those assessments were then discussed with subordinate commanders to reach acceptable mitigation strategies.*
 3. Were you concerned about possible “blind spots”, i.e. what might have been missing from these risk assessments? *I was always concerned about “not knowing what we don’t know”, but particularly when new or unusual circumstances or missions were assigned. Internal inspection programs and staff planning were very good at assessing what we knew and calculating the risk*

to mission and force. Rapidly changing and new situations like COVID heightened my concern for the unknown and its impacts, which is why I put the MEF on a wartime battle rhythm in garrison – I needed all of the staff and command expertise looking at the problem set to identify all possible emergent risks. It is also why I gave direction that I would deploy forces to GFM requirements with partial mission capability (with concurrence of HHQ), if COVID constraints/restraints increased risk to the force for training/readiness and their ability to be mission capable in all mission areas.

4. From your perspective, were risks handled at the appropriate level? *Yes; I encouraged a climate of open dialogue about risk and adherence to MCDP-1 for mission-type orders and frank dialogue between commanders. If a commander was uncomfortable with the risk associated with an event, he/she was encouraged to articulate that risk up the chain of command for mitigation. This transcended training, resource management, personnel assignments and optempo – it was not confined to just exercises and deployments.*

S/F,
Jody

From: Mundy LtGen Carl E III (b)(3), (b)(6), (b)(7)(c)
Date: Sunday, May 2, 2021 at 09:36
To: "Osterman LtGen Joseph L." (b)(3), (b)(6), (b)(7)(c)
Subject: One Final Issue

Jody,

I'm wrapping up the investigation and have one additional issue to follow up with you. As you know one of a Commander's toughest challenges is identifying risks in his or her organization and then managing these risks by either accepting or mitigating them. In that context, please answer the following questions:

- How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the MEF?
- How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF Summits, QFPBs, ORM, and routine correspondence with subordinate commanders?
- Were you concerned about possible "blind spots", i.e. what might have been missing from these risk assessments?
- From your perspective, were risks handled at the appropriate level?

I realize it may be difficult to recall specifics during a snapshot in time, but as much as possible please focus your responses on the time frame from January through April 2020.

An email response is fine, and sooner is better – preferably NLT than COB tomorrow/Monday, 3 May, or early Tuesday, 4 May. Sorry for the short fuze!

Semper Fidelis,
Sam

PRELIMINARY STATEMENT

The following answers to the IO's Second Set of Interrogatories, dated 2 May 2021, are covered by the Article 31 Rights Advisement Form I executed on 23 April 2021, in the same manner as set forth with regard to the IO's 19 April 2021 Interrogatories.

ANSWERS TO IO'S SECOND SET OF INTERROGATORIES

1. How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the Division?

We assessed and managed risks to force and mission through a holistic approach by using the three lines of effort (LOEs) outlined in our enduring Division campaign plan. Two of the LOEs — providing forces to support Global Force Management (GFM) and training the Division to serve as the Ground Combat Element (GCE) for a MEF-level MAGTF — were underpinned by the third: readiness. Simply put, the readiness levels reported by our subordinate units identified the levels of risk for our “next to deploy” GFM units and the potential risk we might incur in the event of a contingency or OPLAN activation. While risks were rarely “issue-specific,” the two biggest drivers for risk assessment and management at the Division-level were those first two LOEs. In our interaction with I MEF, when tasked to provide forces for ordered or emergent GFM requirements, we conducted our own risk to force/mission analysis, which was informed by the analysis performed by our subordinate unit commanders in their feasibility of support (FOS) responses to the Division headquarters.

2. How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF or Division Seminars, QFPBs, ORM, and routine correspondence with subordinate commanders?

In addition to the monthly DRRS report brief, we also discussed overall Division risks to force/mission during our Division Warfighter Summit, which was a quarterly event for all O-6 commanders and separate O-5 commanders. Typically, every other Warfighter Summit also included all O-5 and above commanders to ensure we reached the broadest audience possible. Regardless of audience, the Warfighter Summit always included OPLAN updates (including Division force requirements) and updates to the Division's GFM TEEP (called the “waterfall chart”). As OPLAN requirements evolved over time, and as GFM requirements alternately swelled and shrank due to issues like L-Class amphib shipping availability and deliberations over the future of both SPMAGTF-CR-CC and SPMAGTF-Southwest Border, the Summit afforded the Division's subordinate commanders an open forum to communicate their concerns vis a vis risk associated with supporting these requirements.

The routine email sitreps provided by my subordinate commanders was a similar avenue for commanders to vocalize their concerns about risk. Because I encouraged commanders to include in their sitrep distribution lists all other commanders, and the Division staff, there was an enormous degree of shared situational awareness among the Division's key leaders and staff; this in turn enabled the staff to focus their efforts to address concerns expressed by commanders. My

subordinate commanders also always had the option to communicate concerns with me directly, without an expanded "cc" line.

The Division also participated in the MEF Summit each quarter. A significant part of the MEF Summit was the requirement for each MSC commander to brief his OPLAN readiness "scorecard," which explained in detail the MSC's readiness levels, forces available, and ability to conduct its assigned OPLAN mission essential tasks. Discussions at the MEF Summit about risk to force/risk to mission nearly always centered around the challenges associated with balancing the requirement to provide ready OPLAN or contingency forces with the requirement to provide ready forces for a constantly evolving GFM cycle.

3. Were you concerned about possible "blind spots", i.e. what might have been missing from these risk assessments?

With the constantly-evolving GFM cycle, which included emergent requirements like SPMAGTF-SWB, the USNS MERCY security force mission, and TF Ellis, there was always the question, "Are we doing too much?" However, with each emergent requirement the Division staff worked closely with our subordinate units to ensure we were not overextending our capabilities or distressing our people. To accomplish this, we weighted each tasked unit accordingly to make certain they had the manpower, equipment, and training to succeed. My assessment was that the Division staff was very responsive to the concerns of the commanders, and the commanders routinely made sure to tell me that my staff was supporting them.

4. From your perspective, were risks handled at the appropriate level?

Two habits of thought I routinely emphasized to my subordinate commanders and staff were "Never assume anything," and "Be unapologetic about your expectations." I extended my communication of those habits of thought all the way down to the deck plate-level each time I circulated among Division units that were training in the field or executing real world operations. My intent was clear among my subordinate commanders, and I relied on them to identify risks and implement controls at their level in a manner that was commensurate with their rank and authority.

CASTELL.VI.ROBERT. FRANCIS. Digitally signed by
CASTELL.VI.ROBERT.FRANCIS.108
(b)(3), (b)(6), (b)(7)(C)

(Witness Signature and Date)

From: liams MajGen Kevin M (b)(3), (b)(6), (b)(7)(c)
Sent: Sunday, May 2, 2021 6:21 PM
To: Mundy LtGen Carl E III
Subject: RE: One Final Issue
Signed By: (b)(3), (b)(6), (b)(7)(c)

General Mundy,

I have responded below and have done my best with recollection to focus my responses as to how I saw and acted on issues in the Jan-Apr 2020 timeframe.

- How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the Wing?

My standing guidance to the MAW Commanders and Staff was "Marines...Machines...then Mission". Nothing that we do outside of combat should require us to prioritize the Mission over our Marines or Machines.

Risks outside of a specific mission or operation were assessed as a combination of units on hand and available for tasking, maintenance readiness, training readiness and aircrew+personnel readiness. We had running availability charts for the MEF for OPLANS/ TEEP/ GFM that took these items into account. Our readiness metrics and daily accountability allowed us to look at each operational requirement through the lens of the actual capabilities of the units on hand. Shortfalls and limitations were highlighted pretty well (Daily AMSRR, Monthly DRRS reports or in the Shortfalls at MEF Summit) and Commanders were not shy about discussing. Additionally, maintenance, personnel and material shortfalls are also discussed with DCA at the MAB and during regular SVTC.

These processes gave us a running aggregate picture with the ability to rapidly deep dive for issue specific requirements.

- How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF or Wing Summits, QFPBs, ORM, and routine correspondence with subordinate commanders?

In the MAW, and in aviation writ large, we have multiple standardized programs and processes to assess risk and apply mitigation.

For EVERY mission flown a Risk Assessment sheet is filled out by the Mission Commander that confirms all risks per the matrix have been assessed and briefed and any changes must be briefed to the duty officer and CoC for approval to continue the mission.

Risks were discussed with MAW subordinate Commands in Confirmation Briefs; Wing DRRS Briefs; MAW Morning Stand-Ups; Wing ALD Monthly; Weekly O&I; and Bi-weekly Commander calls. Aircraft readiness is tracked on a daily basis and reported across the commanders. The MAW standing policy was that units with low MC rates (at or below 50% on hand aircraft or 40% overall) were grounded. Requests to continue ops were a MAG Commander to CG discussion and included all aspects of the Squadron for approval to return to ops.

MAW CG also keeps a daily running "pin board" that aggregates such items that can foretell of a struggling unit: MISHAPS; conduct issues; DUIs; TFOAs ; Leadership issues, etc. Struggling units were discussed with MAG Commanders, especially when approaching high operational/ maint tempo.

Risk analysis was a mandatory briefing item in every exercise/ operations confirmation and execution brief. The risks were identified by Commanders/ Mission Leads and charted out on a matrix slide with items : Specific Risk (night RVL MISHAP); likelihood (Medium); impact-severity (Hi) ; mitigation (Qualifications/ Aircraft and equipment Cks/ NO Low Light); who applies mitigation (Commanders and Staff); and remaining risk (Med-Low). Each risk was assessed on the approved matrix. Any insufficient or concerning areas were reassessed-remitigated -rebriefed to the CG.

If there is a “real-time” issue regarding training or readiness that was going to put more risk to the Marines or Machines than is our standard or than what was briefed, then that is solely the Commander’s responsibility to ensure that the risk is mitigated back to the appropriate and acceptable level. I also expected the Chain of Command to be informed when risks rose above the standards and/ or beyond those that were briefed in the confirmation brief.

Risks were briefed to HHQ during MEF-level confirmation briefs; Summits and QFPBs. The format varied based on the venue.

- Were you concerned about possible “blind spots”, i.e. what might have been missing from these risk assessments?

I was always concerned that we might be missing something. Not that the system is inherently flawed, but nothing is perfect. Thus we took additional measures to back ourselves up.

At the tactical level:

-We opened the floor at the end of the confirmation briefs for Commanders and key MAW staff to add and discuss additional safety items from their varied experiences and perspectives. No area of the operation was off limits for discussion.

-We always had the MAW put safety observers (a Commander if available) in key oversight site positions during LFEs to ensure that if we had missed something, that we had a very experience but “non-mission involved” individual who could intervene.

At the high Operational level: There are multiple meetings conferences and briefs with MEF, DCA and the Naval Aviation Enterprise to highlight emergent issues among Commanders and discuss what we might be missing at that level.

- From your perspective, were risks handled at the appropriate level?

Yes but not always: Our Commanders are the best...but are not infallible. For the most part, they handle risk well at their level. However, there are times they do not see the risk because of lacking experience or misplaced focus. This is when HHQ must be in a position to oversee, step in and over ride. MEF kept a good pulse on the MSCs in this fashion. Thus the Div CG and I saw each other often on battlefield circulation doing the same for our subordinates.

Sir I am available for any further clarification.

VR,
Wolfy

MajGen Kevin "Wolfy" Iiams

ADC CD&I/ DCG MCCDC

Cell: (b)(3), (b)(6), (b)(7)(c)

Com: (b)(3), (b)(6), (b)(7)(c)

IP: (b)(3), (b)(6), (b)(7)(c)

From: Mundy LtGen Carl E III (b)(3), (b)(6), (b)(7)(c)
Sent: Sunday, May 2, 2021 9:47 AM
To: liams MajGen Kevin M (b)(3), (b)(6), (b)(7)(c)
Subject: One Final Issue

Wolfy,

I'm wrapping up the investigation and have one additional issue to follow up with you. As you know one of a Commander's toughest challenges is identifying risks in his or her organization and then managing these risks by either accepting or mitigating them. In that context, please answer the following questions:

- How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the Wing?
- How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF or Wing Summits, QFPBs, ORM, and routine correspondence with subordinate commanders?
- Were you concerned about possible "blind spots", i.e. what might have been missing from these risk assessments?
- From your perspective, were risks handled at the appropriate level?

I realize it may be difficult to recall specifics during a snapshot in time, but as much as possible please focus your responses on the time frame from January through April 2020.

An email response is fine, and sooner is better – preferably NLT than COB tomorrow/Monday, 3 May, or early Tuesday, 4 May. Sorry for the short fuze!

V/R CEM

From: Savage BGen Thomas B (b)(3), (b)(6), (b)(7)(c)
Sent: Sunday, May 2, 2021 12:03 PM
To: Mundy LtGen Carl E III
Subject: RE: One Final Issue
Signed By: (b)(3), (b)(6), (b)(7)(c)

Sir,

Just back from DC, and movers arrive tomorrow, so in a bit of chaos here. I don't have access to all the documents I normally would, so I'm going off memory and can add more specifics if able based on the tight timeline.

I would say that risk was managed MEF wide (OPLAN risk), by unit (GFM Risk), and by event (TEEP risk). For overall MEF/OPLAN risk it was done via monthly DRRS, and quarterly IRWG meetings, and CMC QRB. Unit/GFM risk would also be part of the above mentioned battle rhythm events, but it was also discussed in the bi-weekly MEF MSC and MSE Commander's meeting every other Monday, and weekly staff meetings when the G-3/G-1 would discuss readiness of units next to deploy, and challenges associated with making deployment dates. Event or TEEP risk would be discussed for major training events in separate meetings, which were event specific. For those outside of the MEU there normally would be a series of briefs which (depending on the scope of the exercise) would cover initial planning, in progress reviews as we neared execution, and a formal confirmation brief to the CG prior to the exercise. For the MEU, there are a set series of required briefs, to include, MAGTF design, multiple Forming briefs, EOTG briefs on the MEU PTP, and separate IPR and Confirmation briefs for RUT, PMINT, AMEX, and COMPTUEX. Many of the MEU briefs included our Navy counterparts. Risk to Force and Risk to Mission were topics in all of these briefs, and of course ORM was discussed for every event.

Having said that, for the MEU specifically, I received weekly SITREPS, and had multiple touch points every week with the MEU Commander, EOTG, CSG-15, ESG-3. Of course, we had discussions with the MSC's and their staffs daily, on a myriad of issues, but I would say preparedness of units to deploy was/is an enduring topic. Communication up and down the chain and laterally was excellent between the commanders and the staffs, and our job here, was to help the subordinate commander's to solve problems, i.e. mitigate risk. The CG and I would also help mitigate risk by observing training, and discuss areas of concern with EOTG and the MEU Commanders.

I thought risk was handled at the appropriate level. Looking back, the condition of the AAV's on CHOP date should have been brought to my and LtGen Osterman's attention. The staff thought they handled the issue and did not raise it with us. To my knowledge the lack of amphibious training by the AAV platoon or the Mech company was never brought up as an issue at all.

I don't remember ever talking about blind spots.

Sir, I hope this answers the mail. Please let me know if you need more.

v/r

Tom

BGen T.B. Savage
DCG I MEF
NIPR: (b)(3), (b)(6), (b)(7)(c)

DSN: (b)(3), (b)(6), (b)(7)(c)
Comm: (b)(3), (b)(6), (b)(7)(c)

From: Mundy LtGen Carl E III (b)(3), (b)(6), (b)(7)(c)
Sent: Sunday, May 2, 2021 6:45 AM
To: Savage BGen Thomas B (b)(3), (b)(6), (b)(7)(c)
Subject: One Final Issue

Tom,

I'm wrapping up the investigation and have one additional issue to follow up with you. As you know one of a Commander's toughest challenges is identifying risks in his or her organization and then managing these risks by either accepting or mitigating them. In that context, please answer the following questions:

- How did you (while assisting the MEF CG with this function) assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the MEF?
- How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF Summits, QFPBs, ORM, and routine correspondence with subordinate commanders?
- Were you or the MEF CG concerned about possible "blind spots", i.e. what might have been missing from these risk assessments?
- From your perspective, were risks handled at the appropriate level?

I realize it may be difficult to recall specifics during a snapshot in time, but as much as possible please focus your responses on the time frame from January through April 2020.

An email response is fine, and sooner is better – preferably NLT than COB tomorrow/Monday, 3 May, or early Tuesday, 4 May. Sorry for the short fuze!

V/R CEM

QUESTIONS:

- How did you assess and manage risks to force and mission? Were risks issue-specific, for example, XX OPLAN Readiness, HD/LS MOS Shortages, TEEP exercise preparedness, etc., or aggregated into an overall risk picture across the MLG?
- How were risks identified and discussed, e.g. in recurring reports and battle rhythm events such as DRRS, MEF or MLG Summits, QFPBs, ORM, and routine correspondence with subordinate commanders?
- From your perspective, were risks handled at the appropriate level?

Answer:

Within 1st MLG, we used a variety of mechanisms to assess and manage risks – these might be mission specific, unit specific, or across functions across the MLG.

- In some instances, these mechanisms were mission-specific – such as CLB pre-CHOP Briefs (for example, CLB-15 on 6 March), single digit CLB Pre-CHOP briefs (such as CLB-5 on 18 March), Exercise Confirmation Briefs (such as Exercise ARTIC EDGE Confirmation Brief 15 Jan), and forming briefs to myself or to subordinate commanders. In these briefs, we discussed risk with regard to assigned missions, METs, and personnel (both short-term force preservation and longer-term professional development). In these briefs at 1st MLG, we discussed not only how to articulate risk and mitigate risk but also “Who was bearing the risk?” and “Whose call was it to assume that risk?” These briefs provided an opportunity to focus on a specific unit, its mission, its preparedness to execute that mission, and any CG-level decisions to address shortfalls and risk.
 - These briefs were often iterative up the chain of command – for instance, when I took the CLB-15 pre-CHOP brief on 06 March, it was understood that the CLR-17 CO would have taken an earlier and more detailed brief; and, up the chain of command, I understood that CLB-15’s status would be briefed as part of the MEF’s Naval Integration Working Group or Board. 7th ESB’s formation as the Command Element for Exercise ARTIC EDGE followed a similar construct – with me taking a Confirmation Brief as well as the MEF CG taking one as well.
 - I felt this iterative approach was appropriate so each commander could assess readiness and risk, and ask the question, “are you getting the support you need?” Each CO or CG could influence the process at their level. I felt this approach was appropriate.
 - On April 1st, I received an additional brief from CLB-15 as a follow-up to their 6 March Brief. We did this additional brief because, there were some questions that came up at the first brief, and given the environmental change of COVID since their 06 March brief, we also did a detailed deep dive on how COVID was affecting their preparedness (as just a couple examples: for training, how to address the need for a travel waiver for the Joint En Route Care Course; for manning, how to mitigate, the DOD PCS freeze; etc.). We discussed where we could still meet deadlines and, if not, were we comfortable that they would be done prior to milestone training. I called the MEU CO a couple weeks later to see if his and my perspective matched.
- Within 1st MLG, these milestone briefs were augmented by conversations about readiness and risk in Battle Rhythm Events from my staff (bi-weekly Ops&Intell), from my subordinate COs (bi-weekly Command and Staff), and weekly COs Updates to me. There was also informal communication outside of battle rhythm events.
- Additional 1st MLG Battle Rhythm events to address shortfalls and risk would be DRRS Briefs (an example of unit-specific mechanism to assess readiness and risk); there were also Quarterly

Safety Briefs and Materiel Readiness Briefs (examples of where we could look functionally across the MLG enterprise). For example, on 16 April, we held a Log Symposium where each O5 CO briefed to me their materiel readiness; this additive brief (we had DRRS later that day) enabled us to look at unit specific issues but also common issues affecting the entirety of the MLG – such as .50 cal issues, etc.

- In addition to routine reporting such as DRRS, for overall assessments of our ability to meet OPlan tasks, MSC CGs briefed the MEF CG on their preparedness to meet OPlan tasks at the MEF Quarterly Summit on Jan 17th (coincidentally scheduled post-Soleimani Strike) and April 24th (coincidentally scheduled about 45 days into the Pandemic).
 - At the MEF Summits, there was a MEF-developed scorecard that outlined each OPlan and each MSC's tasks within it – and each CG would brief this MEF-developed scorecard (tailored to each MSC) by providing their assessment of our ability to meet those requirements; on the scorecard, MSC CGs also briefed their ability to meet Rapid Force Deployment requirements. Additionally, separate from the “scorecard”, each CG would brief their perspective of ability to meet force generation requirements, outline future TEEP events, Force Design implications, and other MSC-CG-generated topics.
 - I felt the Summit was my forum to personally articulate risk to OPlan execution and raise issues where I might need HHQ assistance to mitigate risk.
 - These quarterly Summit briefs were in addition to MEF Ops&Intell Briefs.

Specific to COVID, and in the months from January to April, to surface issues of readiness and risk, the MEF initiated its wartime Battle Rhythm and formed a COVID OPT – with planners from across the MEF. The OPT was tasked with specific requirements, that – this is my framework from memory – binned:

- (1) COVID response (such as Medical Battalion's support to Naval Medical Readiness Treatment Center Camp Pendleton or Division's Security mission to the USNS Mercy);
- (2) Health of the Force (sending consistent, clear guidance about HHQ guidance on force health protection measures); and
- (3) Impact of COVID on Training and Readiness.

Each of these lines of effort were briefed at the CG, I MEF Commanders' Update Briefs at varying regularity (sometimes once per week, sometimes three times per week) so that rapidly-changing information could be disseminating and assessed for impacts on overall MEF readiness. For specific units, the Rapid Deployment Forces were briefed at each CUB, and each CG/ MSE CO, 3d Fleet Chief of Staff, Nat'l Guard Liaison, MEU COs, etc. were able to brief their perspective and impacts at each brief. I felt this CUB, along with CG-only SVTCs with the MEF CG, was my opportunity to articulate MLG concerns with regard to #1 - assigned COVID missions, #2 - health of the force, #3 - force generation issues, and #4 – miscellaneous items; I used those three “buckets” for my verbal brief in the CUBs.

- Within the 1st MLG, for communication down, we mirrored the frequency of MEF Battle Rhythm CUBs - for instance, if I MEF was having CUBs three times per week, I would follow-up the MEF CUB with a teleconference with my Commanders and Staff immediately afterwards, to ensure timely dissemination of HHQ guidance and attempt uniformity of guidance.

QUESTION: Were you concerned about possible “blind spots”, i.e. what might have been missing from these risk assessments?

With regard to blind spots, I was concerned and modified my reporting requirements to address those concerns. During the first few months of the pandemic, there was a great deal of information coming in

and decisions being made at varying levels. We took a great deal of effort to make sure that, as an MLG, we had a common understanding of the risk we were undertaking (both specifically in units and cumulatively), mitigation measures, and that where I was comfortable with risk was understood throughout the MLG.

- For example, in the 1st MLG, COs were authorized to take measures to mitigate risk of COVID transmission based on their operational requirements and working environment. That is, I felt that, at the MLG level, due to the vast differences in working environments, it was prudent to delegate decisions (for example, dentists, mechanics, and disbursers each having different operational requirements and transmission risks). We had a lot of conversations about what it might mean to different units and different working environments.
- As we learned more about the disease and how long we would be operating under these conditions, I directed that commanders continually re-assess their earlier decisions – to make sure they made operational sense and were informed by the latest understanding of the pandemic. For example, a port and starboard shifts with disbursing was sustainable as long as we had a good leader-to-led ratio on-site and engaged with Marines, and the TAD frequency by the Force was reduced; or how do we make sure two Marines of an HDLD MOS did not room together in case one tested COVID positive.

Due to being briefed in a variety of forums in a changing environment in the first couple months of COVID, I directed that on 30 March all commanders (to include Battalion Commanders) brief to me their overall assessment of readiness, and specifically impacts of COVID.

- To standardize the briefs, my DRRS officer developed a heat chart where each Commanding Officer were required to brief their tasks, missions, exercises/TEEP, and impacts of COVID – this served as our baseline for further discussion on overall impacts of COVID (we used this same format for the COVID portion of the CLB-15 brief on 01 April) .
- After this initial 30 March brief by all O6 and O5 commanders, we had the Regimental and MLG independent battalions (e.g., 7th ESB) brief from then on using that aggregated format. Based on my memory, I received this aggregated assessment about every week through the July timeframe.
- This brief gave us a by-unit sense of where we were being impacted and how we were addressing it – and it gave us an assessment of where we would potentially affect MEF readiness and might need HHQ assistance (such as supply chain management).
- Most of the issues we discussed in the MLG and as a MEF were current ops focused; through this brief, we also tried to get a sense of long-term impacts on personal and professional development – due to PCS freezes, due to required PME and promotion milestones.
- I felt this aggregated format provided me a better sense what information I needed to feed into the MEF CUB (and, later, routine MEF Battle Rhythm events and reporting) on issues requiring MEF visibility, action, or assistance.

UNCLASSIFIED



The brief is
UNCLASSIFIED

Matériel Readiness Brief

Ground Equipment Availability and Readiness
Stewardship of Resources

March 2020

FY-19 FSMAO

MSC	UNIT	AAC	DATE OF LAST INSPECTION	I &L RESULTS PUBLISHED
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MIG	1st Intel Bn	M20372	15 – 26 Oct 19	26-Nov-18
DIV	1st Mar Reg	M11104	15 – 26 Oct 19	26-Nov-18
MAW	MAG-11	M00011	15 – 26 Oct 19	26-Nov-18
MLG	HQ Reg, 1st MLG	M28301	15 – 26 Oct 19	26-Nov-18
MIG	9th Comm Bn	M21670	26 Nov-14 Dec 18	9-Jan-19
MIG	I MSB	M20371	26 Nov-14 Dec 18	9-Jan-19
DIV	V2/1	M11230	26 Nov-7 Dec 18	9-Jan-19
MAW	MWSS-372	M00372	26 Nov-14 Dec 18	9-Jan-19
DIV	V1/1	M11180	7 – 18 Jan 19	25-Feb-19
MLG	CLB-1	M28333	7 – 18 Jan 19	25-Feb-19
DIV	5th Mar Reg	M11154	28 Jan-8 Feb 19	14-Mar-19
DIV	5/11	M11340	28 Jan-8 Feb 19	14-Mar-19
MLG	7th ESB	M21300	28 Jan-15 Feb 19	14-Mar-19
MLG	CLB-7	M28349	28 Jan-15 Feb 19	14-Mar-19
MLG	CLB-7	M28339	28 Jan-15 Feb 19	14-Mar-19
MLG	CLB-7	M28403	28 Jan-15 Feb 19	14-Mar-19
MLG	CLB-7	MMG801	28 Jan-15 Feb 19	14-Mar-19
MLG	CLB-5	M28280	25 Feb-8 Mar 19	15-Apr-19
DIV	11th Mar Reg	M11303	25 Feb-8 Mar 19	15-Apr-19
DIV	3rd LAR	M20470	1 – 19- Apr 19	12-Jun-19
MLG	CLB-13	M28391	29 Apr-10 May 19	12-Jun-19
MEU	13th MEU	M20173	29 Apr-10 May 19	9-Jun-19
MAW	MWCS-38	M00307	29 Apr-17 May 19	27-Jun-19
DIV	1st Tank Bn	M21410	29 May-14 Jun 19	11-Jul-19
MAW	MTACS-38	M01144	17 – 28 Jun 19	
MAW	VMU-1	M01480	17 – 28 Jun 19	
DIV	V2/5	M11170	17 – 28 Jun 19	
DIV	1st CEB	M11400	8 – 26 Jul 19	
DIV	V3/7	M11140	8 – 19 Jul 19	3-Sep-19
MAW	MWSS-374	M00374	8 – 26 Jul 19	3-Sep-19
MLG	1st Med Bn	M28290	29 Jul-9 Aug 19	23-Sep-19
MLG	1st TSB	M28410	29 Jul-9 Aug 19	23-Sep-19
MIG	1st LE Bn	M20150	12 – 23 Aug 19	17-Oct-19
DIV	3D AA Bn	M21820	9 – 27 Sep 19	23-Oct-19
MAW	MWSS-373	M00373	9 – 27 Sep 19	23-Oct-19
DIV	1st LAR	M20450	9 – 27 Sep 19	23-Oct-19

	NO RISK	LOW RISK	MEDIUM RISK	HIGH RISK
		NOTEWORTHY	NOT REVIEWED	

PROPERTY ACCOUNTABILITY	PROCUREMENT	MAINTENANCE PROGRAM AND RESOURCE MANAGEMENT	MAINTENANCE INFORMATION AND REPORTING	MAINTENANCE PRODUCTION	MISCELLANEOUS ACCOUNTING	CAP DATE DUE (60 DAYS)	CAP STATUS	NUMBER OF MEDIUM RISK	NUMBER OF HIGH RISK
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FY-20 FSMAO

MSC	UNIT	AAC	DATE OF LAST INSPECTION	I & L RESULTS PUBLISHED	PROPERTY ACCOUNTABILITY	PROCUREMENT	MAINTENANCE PROGRAM AND RESOURCE MANAGEMENT	MAINTENANCE INFORMATION AND REPORTING	MAINTENANCE PRODUCTION	MISCELLANEOUS ACCOUNTING	CAP DATE DUE (60 DAYS)	CAP STATUS	NUMBER OF MEDIUM RISK
MEU	15th MEU	M20310	2-13 Dec 19	12-Feb-20							N/A	COMPLETE	0
MAW	MAG-39	M00039	2-13 Dec 19	12-Feb-20							N/A	COMPLETE	0
MEU	11th MEU	M20177	6-17 Jan 20	21-Feb-20							N/A	COMPLETE	0
MLG	CLB-15	M20196	6-17 Jan 20	21-Feb-20							21-Apr-20	PENDING	2
MLG	1st Supply Bn	M28310	27 Jan - 14 Feb 20	10-Mar-20							13-May-20	PENDING	1
MLG	1st Maint Bn	M28321	27 Jan - 14 Feb 20	10-Mar-20							13-May-20	PENDING	3
MLG	7th ESB	M21300	24 Feb - 13 Mar 20										
MAW	MWSS-371	M00371	24 Feb - 13 Mar 20										
DIV	1st Recon Bn	M11009	23 Mar - 3 Apr 20										
MAW	MASS-3	M00830	23 Mar - 3 Apr 20										
DIV	1/11	M11310	20 Apr - 1 May										
DIV	2/11	M11320	20 Apr - 1 May										
MIG	1st Radio Bn	M21570	20 Apr - 1 May										
MLG	CLB-11	M20195	20 Apr - 1 May										
DIV	HQ BN 1st MARDIV	M11001	4-22 May 20										
MLG	CLR-15	M28375	4-15 May 20										
MAW	MACS-1	M00880	4-15 May 20										
DIV	V3/5	M11130	1-12 Jun 20										
DIV	3/11	M11330	1-12 Jun 20										
MAW	MAG-16	M00016	1-12 Jun 20										
DIV	V3/4	M11160	15-26 Jun 20										
MAW	3D LAAD	M00930	15-26 Jun 20										
DIV	V3/1	M11120	15-26 Jun 20										
DIV	V1/7	M11210	13-24 Jul 20										
MLG	CLR-1	M28336	3-14 Aug 20										
DIV	HQ CO 7th Marines	M11204	3-14 Aug 20										
MIG	1st ANGLICO	M21610	3-14 Aug 20										
DIV	V2/1	M11110	14-25 Sep 20										
MAW	MAG-13	M00013	14-25 Sep 20										
	NO RISK	LOW RISK	MEDIUM RISK	HIGH RISK									
		NOTEWORTHY	NOT REVIEWED										

FSMAO adjusting due to COVID-19

- 1) All in-person unit analyses suspended through at least the end of 3rd Quarter FY20
- 2) ESB, MWSS-371, & 1st Recon Bn cancelled
- 3) Virtual FSMAO assistance visits will be used to evaluate unit compliance and will be synchronized with the current FSMAO schedule beginning on 27 April
- 4) Virtual assistance visits will be forwarded to unit commanders from HQMC via the chain of command
- 5) DC I&L (LPS) will provide MARFORS, MEFs, and MSC G-4s with detailed guidance for the conduct of virtual assistance visits using the existing

FY20 FSMAO checklists (131) Page 3 of 3



UNITED STATES MARINE CORPS
3D ASSAULT AMPHIBIAN BATTALION
1ST MARINE DIVISION (REIN)
MCB BOX 555574
CAMP PENDLETON, CA 92055-5574

IN REPLY REFER TO:
4000
CO
3 May 19

From: Commanding Officer
To: Distribution List

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

Ref: (a) MCO 4790.2_
(b) DivO 4790.2_
(c) MMPL 8-19

Encl: (1) Confirmation Brief
(2) Vehicle Redistribution Sheet
(3) ADL Induction Checklist
(4) ADL Request Letter
(5) ADL Placard
(6) ADL Tracker

1. Situation. Commander, 3d Assault Amphibian Battalion (3d AA Bn) must be able to facilitate all modifications for the AAV7A2 application aboard Camp Pendleton at a single time, during their individually specified contractor supported dates. Up to 91 RCCA vehicles will receive these modifications over the course of four years. Only the identified vehicles will receive all the modifications. Additionally, support P-1901 construction space requirements and ACV fielding with 12 AAVP7's being replaced by 21 ACV's per fielding iteration.

2. Mission. Upon signature of this Letter of Instruction (LOI), 3d AA Bn will begin to induct identified equipment into the Administrative Deadline (ADL) Program. Identified vehicles will be inspected, inducted and documented utilizing Global Combat Support System-Marine Corps (GCSS-MC). 3d AA Bn will stand-up an ADL Program in order to defer maintenance that allows the MSE Commander to preserve resources when operational conditions allow. 3d AA Bn will provide continued support to Division and I Marine Expeditionary Force (MEF) operations for Fiscal Year 2019/2020 (FY19/20). When authorized, equipment inducted into the ADL program will meet the following criteria:

- (a) Stored less than 18 months.
- (b) Maintained and reported in a mission capable status.
- (c) Equipment is current on all required scheduled PMCS prior to induction into the program.
- (d) Visually inspected quarterly.
- (e) Exercised semi-annually.
- (f) Scheduled PMCS validated/conducted prior to removal.
- (g) Current CPAC assessment and servicing.
- (h) Corrosion Category Code Condition (CCC) 3 or better.

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

3. Execution.

a. Commander's Intent.

(1) Purpose. To establish and operate an ADL program while maintaining readiness across the battalion in order to sustain FY19/20 operations.

(2) Method. Equipment maintenance and accountability will be the primary focus of the ADL program. Appropriate field level preventative maintenance checks and services (PMCS), corrective maintenance (CM), calibrations (CAL), modifications (MODs), and administrative letters will be updated as needed. Limited Technical Inspections (LTIs) will be completed on all potential ADL Military Equipment (ME) to identify any shortfalls or defects. All Stock List-3 (SL-3) will be inspected and accounted for. The ADL program will be conducted in accordance with applicable publications and references.

(3) End State. All identified equipment will be reported to the Battalion Maintenance Officer and Maintenance Management Officer (MMO) in order to provide an in-depth In-Progress Review (IPR) to the Battalion Commander.

b. Concept of Operations. ADL program will be conducted in five phases: nomination/redistribution, preparation/verification, induction, sustainment, and removal.

(1) Phase I is the Nomination and Redistribution phase. This phase will begin upon signature of this LOI and end upon completion of all tasks below. During phase I the following actions will be completed:

(a) Battalion Maintenance will conduct LTIs on all equipment. LTI discrepancies will be taken for action and will be annotated in appropriate record jackets, as applicable. Upload all LTI sheets to the applicable Service Request.

(b) Identify equipment requiring PMCS, MODs, and CAL.

(c) Prior to transfer of equipment, all RO's will inventory all SL-3 components and complete the necessary DD200 for the parts requirement to Supply.

(d) All part requirements identified during Phase I will be keypunched (funding based) by Supply.

(e) Commodities, MMO and Supply will reconcile all part requirements. Cancel all parts on order that are no longer needed. Ensure all valid part requirements have valid shipping or backorder statuses. This includes backordered Secondary Repairable items evacuated to the intermediate maintenance activity.

(f) Submit ADL nomination letters for approval to the Commanding Officer via the MMO.

(2) Phase II is the Preparation and Verification phase. This phase will begin upon completion of Phase I and end upon completion of all tasks below. This phase will be executed concurrently with phase I in that once a

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

vehicle has successfully completed all necessary phase I tasks it will begin phase II. During phase II, the following actions will be completed:

(a) Perform all corrective maintenance that meets ADL program criteria.

(b) All current (due within the next 30 days) and late PMCS will be completed. MMO will confirm the PM report from GCSS-MC for each vehicle identified. Coordinate assistance through the Battalion Quality Control (QC) Chief in order to complete ALL late and or required PMCS. Any current or late PMCS that is not completed will not be accepted into the ADL program.

(c) All current (due within the next 30 days) and late items that require calibrations will be submitted to the calibration facility (CF). The MMO will confirm the calibration report from GCSS-MC for each vehicles SL-3. Any current or late items that require calibration which have not been submitted to the CF by the conclusion of phase II will cause that vehicle to not be accepted into the ADL program.

(d) All modification records will be reviewed to ensure they are in the correct Modification Instruction (MI) Status. The MMO will confirm the MI report from GCSS-MC for each identified vehicle. Modifications that cannot be installed or are Not Applicable (N/A) must have an "MI status date" and reason why it was not installed or does not apply. Any modifications that have not been installed or its record updated by the conclusion of phase II will cause that vehicle to not be accepted in the ADL program.

(e) Complete all operator/crew PMs.

(f) Scrub the Maintenance Production Report (MPR) and Maintenance Management Report (MMR) for aged service requests (SRs) and ensure proper close-out procedures are conducted. Ensure all open SRs are in the correct job status.

(g) Submit Final ADL nomination letters for approval to the Commanding Officer via the MMO.

(3) Phase III is the Induction phase. This phase will begin once all phase I and II actions are complete and end once all approved vehicles have been inducted in the ADL program Lot. The following actions will be completed during this phase:

(a) ADL Placards will be waterproofed and taped to the forward driver side EAAK plate.

(b) Copies of the ADL approval letter and the ADL placard will be provided to the BN S-4 and BN Maintenance.

(c) S-4 and BN Maintenance will coordinate vehicle induction utilizing the owning RO's Marines.

(d) A completion brief to the Battalion Commander will take place after full induction. Date, time, and location will be published via separate correspondence.

(4) Phase IV is the Sustainment Phase. This Phase will begin once a vehicle has been successfully inducted into the ADL program and end upon removal.

(a) Enclosure (6) will be utilized by the MMO to track the equipment storage length and forecast both required quarterly visual inspections and the semi-annual operation of the equipment.

(b) Enclosure (6) will be updated by the MMO at a minimum monthly and every time a vehicle is inducted into/removed from ADL, visually inspected, or operated.

(c) Headquarters and Support Company will provide a team of maintainers and technicians along with operators, who will be responsible for the required quarterly visual inspection and semi-annual operation of the vehicle.

(d) Each piece of equipment will be visually inspected quarterly to identify any damage not annotated on the induction LTI. The BMO and BMC will be notified immediately of any issues identified during the visual inspection. The MMO will be notified when the inspection(s) take place and will update Enclosure (6) appropriately.

(e) All ME, will be exercised semi-annually based off Enclosure (6). Any issues identified during this operation will be immediately communicated to the BMO and BMC. The MMO will be notified when equipment is exercised and will update Enclosure (6).

(f) Any Corrective Maintenance (CM) parts requisitioned during Phase I will only be applied by qualified maintenance personnel during the quarterly visual inspection or semi-annual vehicle operation and the repair will be inspected by the Battalion QC Chief.

(5) Phase V will be the removal from ADL Program phase. This phase will begin upon the completion of phase IV and end once the piece of equipment has been removed from the ADL program.

(a) Equipment will be removed from the ADL Program on a rotational basis established by the BMO and BMC, based on length of time the equipment has been in the ADL Program and Battalion operational requirements.

(b) At no time will a vehicle be removed without the consent of the Battalion Commander, BMO, or BMC.

(c) When equipment is identified for removal from ADL, the following procedures will be conducted:

1. All CM parts requisitioned during Phase I that have not been applied will be properly installed and repairs verified by the Battalion QC Chief.

2. Scheduled PMCS will be validated/conducted prior to removal of the equipment from ADL. GCSS-MC will be updated appropriately to include any documentation uploaded to the SR.

3. A Joint LTI (JLTI) will be conducted by Battalion Maintenance and the gaining Company/Platoon. The completed LTI will be uploaded to a Maintenance-MISC type SR.

c. Tasks

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

(1) Maintenance Management Officer (MMO)

- (a) Confirm via GCCS-MC, all LTI's have been uploaded upon completion of phase I.
- (b) Track progress throughout the ADL Program process.
- (c) Confirm the most updated PMCS, CAL, MODs, per approved vehicle.
- (d) Reconcile with companies/commodities and Supply throughout phase I and II to ensure all records are valid and necessary requisitions have been approved.
- (e) Conduct guidance and supervision throughout the battalion with issues regarding the ADL Program.

(2) Company Commanders

- (a) Per Enclosure (2), support the vehicle redistribution within the Battalion.
- (b) Inventory all organic ME SL-3 components using the most current inventory sheet. Ensure deficient materials are identified and DD200's are submitted to supply. Open necessary SRs and with the necessary part requirements.
- (c) Utilizing the appropriate Technical Manuals (TMs), complete PMCS and LTIs on organic ME. Validate PMCS scheduling/remarks in GCSS-MC and update as necessary.
- (d) All calibration equipment must be identified and tracked either locally or in GCSS-MC. Send all current (due within the next 30 days) and late calibration items to the CF. Ensure proper validation and remarks are updated in the PM/CAL scheduling form within GCSS-MC.
- (e) Ensure all modifications are installed or have a valid MI status in GCSS-MC. If parts are not on hand to perform the modification, open an SR and update the MI Status to reflect "MI Service Request Open."
- (f) Validate, reconcile, and update all active SRs. Close out aged or inactive SRs.
- (g) Update the MMO throughout the ADL Program with results and findings from phase I and II. Be prepared to brief the Battalion Executive Officer upon request with results, deficiencies, and goals to be met at the conclusion of the induction into the ADL program.
- (h) Provide an AAR to the MMO detailing all actions completed once all qualified vehicles have been successfully inducted into the ADL program.
- (i) Be prepared to brief the Battalion Commander on the overall process, progress and outcome of the ADL program. Date, time, and location will be published via separate correspondence.
- (j) Be prepared to support phase IV and V on order.

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

(3) Battalion Maintenance Officer/Chief (BMO)/(BMC)

(a) Provide oversight and assistance to companies and commodities.

(b) Be prepared to surge maintenance support to the companies and commodities upon request.

(c) Review maintenance output reports and ensure companies and commodities are correcting any discrepancies.

(4) Supply Officer

(a) Be prepared to surge supply administration support to the companies and commodities upon request.

(b) Reconcile with the MMO and each company/commodity to ensure all requisitions have been turned in and are on order.

(c) Validate the DASF for aged and invalid part requirements.

(d) Complete thorough reconciliations of the MAL and CMR.

(e) Reorganize the naming conventions of CMR's to meet ADL Program requirements.

(f) Provide an AAR to the MMO detailing all actions completed once all ME has been successfully inducted into the ADL program.

(5) Battalion S-3 Officer/Chief

(a) De-conflict training support requirements and external support to facilitate the conduct of the ADL Program.

(b) Publish a message notifying 1st Marine Expeditionary Force (I MEF) of reduced support requirements during the ADL Program.

(c) Update DRRS to reflect the current posture of unit readiness and capabilities NLT the reporting period due in June.

(6) Battalion S-4 Officer/Chief

(a) Organize requests for external support from the companies.

(b) Coordinate with companies to help facilitate continuous operations throughout the execution of the ADL program.

(c) Provide an AAR to the MMO detailing all actions completed once all ME has been successfully inducted into the ADL program.

(7) Battalion S-6

(a) Provide oversight of all communications equipment transfers between companies.

(b) Coordinate all EMKS requirements and account adjustments for Responsible Officers.

Subj: ADMINISTRATIVE DEADLINE (ADL) PROGRAM LETTER OF INSTRUCTION

(c) Maintain accountability of all communications equipment stored in the ADL Program.

(8) Battalion Ordnance Officer

(a) Ensure all GSCC-MC reports are recorded correctly for all Ordnance ME being inducted into the ADL Program. Only weapons that are assigned to the particular AAV entering ADL Program will be inducted.

(b) Ensure proper long term storage requirements are met for all Ordnance ME being inducted into the ADL Program.

(c) Ensure all Phase requirements are supported and met.

d. Coordinating Instructions

(1) Ensure appropriate TMs, orders, and directives are being utilized to complete all maintenance or maintenance management actions.

(2) Contact the MMO for assistance or clarification of requirements for this ADL program.

(3) Supporting documents. See enclosures.

4. Administration and Logistics. A copy of this LOI will remain on file for a minimum of two years.

5. Command and Signal. The point of contact for this ADL program LOI is the Battalion Maintenance Officer, Chief Warrant Officer 4, John H. Schicke at com: (760)725-2718, or via email: john.schicke@usmc.mil.

(b)(3), (b)(6), (b)(7)(c)

K. C. ~~BRENIZE~~



UNITED STATES MARINE CORPS
1ST MARINE DIVISION
BOX 555380
CAMP PENDLETON, CALIFORNIA 92055-5380

IN REPLY REFER TO:
5040
CIG/G-7
21 Aug 18

From: Command Inspector General/G-7, 1st Marine Division
To: Commanding Officer, 3D Assault Amphibian Battalion
Subj: 3D ASSAULT AMPHIBIAN BATTALION UNIT INSPECTION REPORT

Ref: (a) MCO 5040.6H
(b) NAVMC DIR 5040.6
(c) DivO 5041.21N

Encl: (1) Detailed Command Inspection Report
(2) Commendatory Performance Report

1. Overall Assessment. Per the references, Command Inspector General (CIG)/G-7, 1st Marine Division (1st MarDiv) conducted a Commanding General's Inspection (CGI) of 3D Assault Amphibian Battalion (3D AABn) from 17 to 24 July 2018. After a thorough and detailed assessment of 33 Core Functional Areas (FAs) and 17 additional areas, 3D AABn was assessed as **Mission Capable (MC)**.

2. Summarized Command Assessment

a. **CGI results:**

(1) Core FAs inspected:	33
(2) Additional FAs and other inspection areas:	17
(3) Total areas inspected/evaluated:	50
(a) Non-Mission Capable (NMC) areas:	4
(b) MC areas:	46
<u>1.</u> MC areas with findings:	9
<u>2.</u> MC areas with discrepancies:	23
<u>3.</u> Fully compliant areas:	23

b. **NMC areas:**

(1) FA 1610	Performance Evaluation System
(2) FA 1700.31	Transition Readiness Program (TRP)
(3) FA 1740	Family Care Plan
(4) FA 5210	Records, Reports, & Directives Management

c. **MC areas with finding(s):**

(1) FA1040	Career Planning (CP)
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Subj: 3D ASSAULT AMPHIBIAN BATTALION UNIT INSPECTION REPORT

- (2) FA1400 Officer and Enlisted Promotion Process
- (3) FA1700.23 Request Mast
- (4) FA1900.1 Separation & Retirement
- (5) FA3040 Casualty Affairs
- (6) FA4600 Government Travel Charge Card
- (7) FA4650 Defense Travel System
- (8) FA5090 Environmental Program Management
- (9) FA5100 Safety

d. MC areas with discrepancies:

- (1) FA250 Intelligence
- (2) FA1020 Uniform Inspection
- (3) FA1040 Career Planning
- (4) FA1400 Officer and Enlisted Promotion Process
- (5) FA1650 Military Awards
- (6) FA1700.23 Request Mast
- (7) FA1742 Voter Assistance
- (8) FA1752 Sexual Assault Prevention & Response
- (9) FA 1900.1 Separation & Retirement
- (10) FA3040 Casualty Affairs
- (11) FA3070 Operations Security
- (12) FA3302 Antiterrorism
- (13) FA3800 Intel Oversight
- (14) FA4400.15 Consumer Level Supply
- (15) FA4600 Government Travel Charge Card
- (16) FA4650 Defense Travel System
- (17) FA5090 Environmental Program Management
- (18) FA5510.3 Information & Personnel Security
- (19) FA5530 Physical Security

Subj: 3D ASSAULT AMPHIBIAN BATTALION UNIT INSPECTION REPORT

- (20) FA5600 Printing and Publications Management Program
- (21) FA5800.16 Legal Administration
- (22) FA6000 Health Services
- (23) FA8000 Ground Ordnance Maintenance

3. Command Climate. The command climate across the battalion was healthy. The commander and primary staff were fully engaged during the inspection and took full benefit of the training opportunity provided by the inspection team.

4. Corrective Actions. All findings and discrepancies are the responsibility of the command to correct and should be addressed as a priority. Per reference (b), a Corrective Action Report (CAR) must be submitted to CIG/G-7 within 30 days of the receipt of this report. The CAR must detail your corrective action plan to remediate your findings from both NMC and MC FAs, as listed in enclosure (1). Corrective actions for discrepancies are internal to the command and are not required in the CAR. All NMC areas will be re-inspected within 30-60 days following the CGI. Ensure you coordinate with the owning FA inspector and ensure the re-inspection is completed prior to 24 August 2018.

5. Commendatory Performers. Enclosure (2) is a list of individuals who have been noted and referred to the Commanding General for recognition.

6. Any questions or concerns, please contact the 1st MarDiv CIG/G-7 Readiness Chief at 760-725-5951, or via email at the organizational inbox
(b)(3), (b)(6), (b)(7)(c)

Detailed Command Inspection Report

FA: 1040 Career Planning - MC with (3) Findings

Inspector: GySgt (b)(3), (b)(6), (b)(7)(c)

0107: Does examination of the interview management system and/ Career Planning Contact Records reveal that the Commanding Officer is making reenlistment recommendations and assigning appropriate reenlistment eligibility codes? Reference: MCO 1040.31, chap 3, par 2b(3)(d); chap 6, par 1a(2); app d; MCO P1900.16F; MCO 1040R.35, chap 5, par 4a, and fig 5-5

Finding: Review of the contact records revealed the Command was assigning codes of RE-3P or RE-3C and not recommending the Marines for further service (which would then warrant assignment of RE-4). These interviews were conducted by the previous program manager and adjustments were made once the new program manager took over.

Recommendation: No additional actions required. Command already made appropriate adjustments to the conduct of interviews. Reference: MCO 1040.31, chap 3, par 2b(3)(d); chap 6, par 1a(2); app d; MCO P1900.16F; MCO 1040R.35, chap 5, par 4a, and fig 5-5

0109: Does the interview management system and/or Career Planning Contact Records show any missed interviews? Reference: MCO 1040.31, chap 3, par 2a; MCO 1040R.35, chap 8, par 2b

Finding: Yes, review of the interview management system and contact records show 33 missed interviews.

Recommendation: Historic in nature. Career Planner has documented these interviews are missed prior to turnover. Unscheduled interviews were completed as applicable. Reference: MCO 1040.31, chap 3, par 2a; MCO 1040R.35, chap 8, par 2b

0115: Does the Career Planner maintain the career planning contact record, and the individual case file for the current fiscal year plus two previous fiscal years? Reference: MCO 1040.31, chap 6, par 1d; MCO 1040R.35, chap 8, par 6d(4)

Finding: Review of contact records revealed (13) missing case files. Additionally, numerous contact records from previous fiscal year are missing.

Recommendation: No additional actions required. Career Planner has conducted an audit and annotated all missing files and contact records. Missing records are historic in nature. Continue to conduct monthly audits of contact records and case files. Reference: MCO 1040.31, chap 6, par 1d; MCO 1040R.35, chap 8, par 6d(4)

FA: 1400 Officer and Enlisted Promotion Process - MC with (4) Findings

Inspector: MGySgt (b)(3), (b)(6), (b)(7)(c)

0206: Does the command ensure when a Marine is promoted to Corporal and Sergeant they are assigned promotion conduct and duty proficiency marks via MOL? Reference: MCO P1070.12K W/CH1, TABLE 4-3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. There are currently 435 Marines affected. This goes back as far as March 18.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1070.12K W/CH1, TABLE 4-3

0207: Does the command ensure the effective date of reduction and date of rank are the same for Marines who are punitively reduced? Reference: MCO P1400.320 W/CH2, par 7001.3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. Based on the Pro/Cons not being certified there are delinquencies.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1400.320 W/CH2, par 7001.3

0208: Is the command assigning reduction conduct and duty proficiency marks, via MOL, when a Marine is punitively reduced?
Reference: MCO P1070.12K W/CH1, TABLE 4-3

Finding: The command is not in compliance with reporting pro/con marks. The Promotion clerk is creating the occasions but the Company leadership is not certifying/approving the Marks. This affects Marines Pay for future promotions. Based on the Pro/Cons not being certified there are delinquencies.

Recommendation: The Admin Chief should give instruction or have a turnover binder accessible to the CO, 1stSgt's and Co Commanders on the procedures for reporting the information correctly and who is the final approver. Reference: MCO P1070.12K W/CH1, TABLE 4-3

0306: Is the unit reporting the appropriate promotion restriction entries via unit diary, and are the required service record page 11 entries being completed for all reportable occasions (including occasions when MCTFS automatically places the member in a promotion restriction status, i.e. weight control, NJP, DUI etc.)? Reference: MCO P1400.32D W/CH2, par 1204; PRIUM, par 70702; MCO P1070.12K W/CH1, par 4006.3E

Finding: No, the command is not doing page 11 's correctly. Promotions is CY not FY. Also, the Command verbiage on the page 11 's is not concise.
Example: (b)(3), (b)(6), (b)(7) ; I understand I am selected, but will not be promoted to the rank of Corporal for the April 2018 promotion period due to pending legal (c)

action. This is not correct. If this is for the 2d quarter April-June it does not articulate May and June. Based on how it was written the Marine is eligible in the month of May. All Marines not recommended page 11 's are also not being completed.

Recommendation: Standardized templates are created for the Co, 1stSgt's and Co Commanders to use for Non-Rec's for promotion. Reference: MCO P1400.32D W/CH2, par 1204; PRIUM, par 70702; MCO P1070.12K W/CH1, par 4006.3E

FA: 1610 Performance Evaluation System - NMC

Inspector: MGySgt (b)(3), (b)(6), (b)(7)(c)

Finding: Inspection was stopped due to Marines not being prepared to be inspected. I believe this program did not get touched from when I inspected it in 2016.

Recommendation: A re-inspection in 60 days.

FA: 1700.23 Request Mast - MC with (1) Finding

Inspector: (b)(3), (b)(6), (b)(7)(c)

0302: Can the Commander demonstrate what specific follow-up procedures are used to ensure Request Mast applications are resolved in a timely manner and that no actions, adverse or prejudicial, befall Marines exercising their right to Request Mast? (Commands should utilize a "Reprisal Check-up Tracker" to ensure that applicants are checked up on (e.g., at 30 & 90-day, and 6-month marks) to verify that they have not been victimized by reprisals on account of their Request Mast. A copy of a sample tracker can be found on the IGMCI Inspections Division's website at <http://www.hgmc.marines.mil/igmc/Units/Inspections-Division/>. As a best practice, the Commander and/or CIG should keep on file documentation (e.g., emails, log book entry, phone log entry, etc.) that further verifies that they have consistently followed-up with the applicant.) Reference: NAVMC 1700.23F chap 5, par 1 e

Finding: Command maintains a record of completed Masts, but does not have written records of 30-, 90-day and 6-month follow-ups to check for reprisal against applicants. CIG will provide command with example documents used at Division level.

Recommendation: Command should conduct follow-ups with all Request Mast applicants at 30 days, 90 days, and 6 months following the Request Mast. These follow-ups should verify that a) the resolution offered to the Marine has been effected (if applicable) and b) the Marine has not been subject to reprisal as a result of Request Mast. These follow-ups should be documented with electronic or hardcopies of communication with Request Mast applicants. Inspector will provide command with templates used at Division to satisfy this requirement. Reference: NAVMC 1700.23F chap 5, par 1 e

FA: 1700.31 Transition Readiness Program - NMC with (6) Findings

Inspector: (b)(3), (b)(6), (b)(7)(c)

0103: Does the CO ensure Marines attend the Personal Readiness Seminar (PRS) within 90 days of arrival to their First Permanent Duty Station? PRS is

currently only offered aboard Marine Corps installations. Recommend CO appoint a POC to coordinate attendance and entry of "PR" training event code in Marine Corps Total Force System (MCTFS). Reference: MCO 1700.31, par 3b(5) (a) and encl 7; MARADMIN 568/16

Finding: SSgt (b)(3), (b)(6), (b)(7)(c) was able to provide PRS attendance rosters for March, May and July of 2018 and is making sure all new joins checking in with him are signed up for PRS. However, there was no proof of PRS attendance prior to March, a PR code list was not present in the UTC binder, nor were there any PRS certificates of completion which authorize the PR code entry.

Recommendation: A current new join roster, with an updated PR code list from MCTFS will demonstrate enrollment and completed training for the Marines within 90 days of their first permanent duty station. Additionally I recommend keeping PRS certificates of completion on file. Reference: MCO 1700.31, par 3b(5) (a) and encl 7; MARADMIN 568/16

0104: Does the CO ensure that all Active Duty (AD) and Reserve Component (RC) Marines complete mandatory Pre-separation Counseling, Veteran Affairs (VA) I and II, Department of Labor Employment Workshop (DOLEW) (unless limited or exempted), within 12-14 months from separating, deactivating, demobilizing or up to 24 months if retiring, but NLT 180 days prior to separation, retirement, demobilization, or deactivation? Reference: MCO 1700.31, par 3b (5) (b), MARADMIN 362/17

Finding: SSgt (b)(3), (b)(6), (b)(7)(c) stated that once a month the Company 1stSgt's meet and look at the EAS roster to determine who has only 12 months left until EAS. This is reported to the UTC for TRS registration. The Transition Readiness Manpower report indicated that only 25 of 142 Marines had completed TRS within the desired time frame. This equates to an 18% success rate, while 85% or higher is required for compliance. SSgt (b)(3), (b)(6), (b)(7)(c) made mention that he is planning on creating a spreadsheet next week that will assist him with better tracking for EAS, TRS registration, and TRS completion.

Recommendation: Reviewing EAS rosters more than once a month to identify and contact Marines who are a year from EAS date. I highly encourage the usage of a TRS spreadsheet tracking system to ensure those Marines with 12 months left are registered and completing TRS in the required time frame. Reference: MCO 1700.31, par 3b (5) (b), MARADMIN 362/17

0105: Does the UTC coordinate pre-deployment Transition Readiness Seminar (TRS) attendance for Marines who are scheduled to return from deployment NLT 180 days of their End of Active Service (EAS)? Does not apply to non-deployable units. Reference: MCO 1700.31, par 3b(6) (g)

Finding: This is a deployable unit. SSgt (b)(3), (b)(6), (b)(7)(c) reported that prior to a deployment each company reviews the deployment roster to determine who has 12 months left until EAS and requests the UTC register them for TRS. Upon inspection there was no prior deployment roster on file to compare with those who completed TRS in the past year.

Recommendation: UTC should keep deployment rosters on file to track those with 12 months left against completed DD 2648 forms. Reference: MCO 1700.31, par 3b(6) (g)

0107: Upon successful completion of TRS, has the UTC coordinated entry of the training event code "TA" (Transition Readiness Seminar) in MCTFS, through the unit? Reference: MARADMIN 568/16, par 3b(5)

Finding: SSgt ^{(b)(3), (b)(6), (b)(7)(c)} does not have access to MCTFS and there is not a good system in place to ensure TA codes are entered. He did indicate he is working to have a designated person to enter TA and TZ codes into MCTFS.

Recommendation: For SSgt ^{(b)(3), (b)(6), (b)(7)(c)} to gain access to the MCTFS system for code entry or for him to follow through with his plan of having a designated person to enter all TA and TZ codes. TA codes should be entered as soon as they receive the TRS completion roster from the TRP office. Reference: MARADMIN 568/16, par 3b(5)

0109: Has the CO (or designee) used the DD Form 2648 eForm to personally conduct Capstone (Commander's Verification) no later than 90 days prior to EAS, by verifying Career Readiness Standards (CRS) have been met or not met and a warm handover has been documented and confirmed for Marines who have not met CRS or require additional assistance? Reference: MCO 1700.31, par 3b(5)(b) and encl (3); MARADMIN 568/16, par 3d; MARADMIN 503/16; MARADMIN 339/17

Finding: From the TRP Manpower report, only 7 service members out of 142 have completed their Commanders Verification within the desired timeframe of NLT 90 days from the service member's EAS. This results in a success rate of 5%, while 85% is required for compliance in this area.

Recommendation: CO or designees (Company Commanders) should complete Commander's Verification NLT two weeks from the receipt of notification from the Transition Readiness advisors. Increased compliance in sending Marines to TRS in the desired 12-14 months prior to EAS would increase compliance in this area as well. Reference: MCO 1700.31, par 3b(5)(b) and encl (3); MARADMIN 568/16, par 3d; MARADMIN 503/16; MARADMIN 339/17

0110: Upon completion of Capstone (Commander's Verification), has the UTC coordinated the entry of the training event code "TZ" (Transition Readiness Seminar Capstone) in MCTFS for all DD Form 2648 eForms? Reference: MARADMIN 568/16, par 3d(2)

Finding: There is currently not a system in place to ensure TZ codes are being consistently entered. SSgt ^{(b)(3), (b)(6), (b)(7)(c)} is waiting to get MCTFS access and as with the TA codes, is planning on having an assistant designated to enter all codes into MCTFS.

Recommendation: The UTC or someone designated immediately enter the TZ code into MCTFS after completion of Capstone. Additionally they should follow up with IPAC to make sure codes are being entered. Reference: MARADMIN 568/16, par 3d(2)

FA: 1740 Family Care Plan - NMC with (2) Findings

Inspector: MSgt ^{(b)(3), (b)(6), (b)(7)(c)}

0103: Do all members with dependents have a validated Family Care Plan (FCP)? Reference: MCO 1740.13C, par 4a(1)(b)

Finding: Not all members with dependents have Family Care Plan on file.

Recommendation: Identify Company leadership to validate and ensure all their Company FCPs are completed and properly accounted for. Reference: MCO 1740.13C, par 4a(1)(b)

0104: Following validation of a unit member's FCP, is FCP Caregiver Contact information compared to the member's Record of Emergency Data under "Guardian" in order to identify inconsistencies with regard to Caregiver Contact? Does the validating official advise members of such inconsistencies in need to corrective actions? Reference: MCO 1740.13C, par 4a(2)(d)

Finding: No cases provided to verify this is getting done.

Recommendation: Leadership get invested in this program to properly maintain Family Care Plan. Reference: MCO 1740.13C, par 4a(2)(d)

FA: 1900.1 Separation & Retirement - MC with (1) Finding

Inspector: MSgt (b)(3), (b)(6), (b)(7)(c)

0101: Do established separation procedures exist in accordance with the current version of MCO 1900.16 and applicable MARADMINs or Naval Messages? Reference: MCTFSPRIUM, par 10300.2; MARADMIN 026/15

Finding: There are no established procedures published.

Recommendation: At a minimum turnover or desktop procedures. Require turnover binder with instructions. Reference: MCTFSPRIUM, par 10300.2; MARADMIN 026/15

FA: 3040 Casualty Affairs - MC with (1) Finding

Inspector: SSgt (b)(3), (b)(6), (b)(7)(c)

0122: Is the command archiving copies of PCRs for at least six years in conformance with the Freedom of Information (FOIA) requirements? Reference: MCO 3040.4, chap 3, sect 2, par 1

Finding: Command does not have at least six years of PCR'S.

Recommendation: Command keeps file drawer with six years worth. Reference: MCO 3040.4, chap 3, sect 2, par 1

FA: 4600 Government Travel Charge Card - MC with (4) Findings

Inspector: 1stLt (b)(3), (b)(6), (b)(7)(c)

0207: Has the APC closed accounts (T1) on cardholders, both Civil Service and Military, who have Separated/Retired? Reference: MCO 4600.40B, encl 1, appendix B, par 9b

Finding: Out of ten sampled accounts, command placed one in a correct T1 status. The risk associated with not properly closing accounts is a misuse of the card after the member departs the service.

Recommendation: Include a "GTCC" action column in the logbook. When members check out for EAS, this column can easily be viewed to ensure the appropriate closeout actions were conducted for the account. Reference: MCO 4600.40B, encl 1, appendix B, par 9b

0209: Is the APC extracting, properly working and maintaining the required monthly account listing report and filing for current plus two years? The APC must reconcile the Account Listing report with the unit's personnel rosters to identify accounts that do not belong. Note: APC must annotate the report so that the inspector can see how they are working the report. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(1)

Finding: The proper review, reconciliation, and filing of this report is crucial to effective program management. The risk associated with not properly pulling, working, and filing this report is that individuals who may appear within the command's alpha roster but do not appear on the account listing report are not identified and therefore will never appear within the hierarchy reports if in a delinquent status.

Recommendation: Bounce the alpha roster against the account listing report on a monthly basis to ensure personnel are being properly pulled into the GTCCP hierarchy. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(1)

0210: Is the APC extracting, properly working and maintaining the required monthly ACCOUNT ACTIVITY TEXT FILE CD100T report and filing it for current plus two years? Note: APC must annotate the report so that the inspector can see how they are working the report. The unit commander or designated representative (APC) must review a minimum of 25% of accounts with activity to ensure that charges were made in conjunction with official travel. Sample must increase to 50% if there is any suspected misuse/abuse. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

0211: Is the APC extracting, properly working and maintaining the required monthly DECLINED AUTHORIZATION Report? Note: APC must annotate on the report how they determined the transactions failed and the reason for the decline. Reference: DODI 5154.31, Vol 4, par 041402C

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

0215: Is the APC extracting, properly working and maintaining the required monthly DOD TRAVEL IBA AGING ANALYSIS SUMMARY report? This report identifies the reportable metrics for the command. (The cycle date for the Marine Corps is the 6th of each month. A cycle-based subscription is available and recommended; ensure cycle selected is NA-06). Reference: MCO 4600.40B, encl 1, appendix B, par 4b(4)

Finding: The risk associated with not properly pulling, working, and filing this report is that travelers who may be misusing their card are not held accountable.

Recommendation: Sample at least 25% of this report for misuse. If any misuse is identified, annotate that on the report and provide a copy to leadership with recommendations of follow on actions. Reference: MCO 4600.40B, encl 1, appendix B, par 4b(2)

FA: 4650 Defense Travel System - MC with (1) Finding

Inspector: SSgt (b)(3), (b)(6), (b)(7)(c)

0205: Is the ODTA utilizing the Complete Traveler Information List Report to verify traveler profiles are maintained and up to date? The ODTA must demonstrate how the list is reconciled, how often they do this, provide copies of the report and indicate actions taken to resolve discrepancies. Reference: MCO 4650.39A, encl 1, chap 6, par 3d

Finding: Complete Traveler Report wasn't being verified with Alpha roster.

Recommendation: Unit must verify/account for all personnel assigned in order to reflect in DTS hierarchy. Relying solely on check in/out sheets will allow for discrepancy (member not properly joined). Once roster is verified, every month, the month task will be reduced to a short period of time and appropriate management of complete traveler's report completion. Reference: MCO 4650.39A, encl 1, chap 6, par 3d

FA: 5090 Environmental Program Management - MC with (3) Findings

Inspector: Mr. (b)(3), (b)(6), (b)(7)(c)

0118: Are unit personnel, subject to environmental training requirements, appropriately trained, and are those training requirements listed in their job descriptions? Reference: MCO P5090.2A, par 5303

Enclosure (1)

Finding: S3 and S4 Officer Environmental Awareness Training has not been completed. Failed to properly train the aboveground storage tank operators and two Hazardous Waste Handlers.

Recommendation: Complete the required training and file the certificates for three years. The unit must assign in writing the aboveground operators and all the Hazardous Waste Handlers, properly train them and keep training records for three years. Reference: MCO P5090.2A, par 5303

0121: Does the ECC track environmental training requirements and completion for the Marines in the unit who require it? Reference: MCO P5090.2A, par 5304

Finding: Failed to maintain training records. Train records must be retained for three years.

Recommendation: Properly train all the Hazardous Waste Handlers and keep the training records for three years. Reference: MCO P5090.2A, par 5304

0126: Does the unit comply with any orders, directives, and SOPs created by either the host installation or the unit established to adequately execute HW management controls? Reference: MCO P5090.2A, par 9302.2

Finding: Failed to properly label/date hazardous waste container. Failed to keep secondary spill containment devices clean and free of liquids and debris. Failed to inspect storage areas at least weekly. Missing weekly site inspections for July 2018.

Recommendation: Peel off the extra label on one of the waste barrels and replace all faded labels on waste containers. Clean and inspect all your secondary containers at least weekly. Conduct the required weekly inspection and keep the inspections sheet for three years. Reference: MCO P5090.2A, par 9302.2

FA 5100 Safety - MC with (4) Findings

Inspector: Mr. (b)(3), (b)(6), (b)(7)(c)

0106: Does the Commander or Executive Officer chair and conduct quarterly safety and safe driving councils to analyze and assess safety challenges, current trends, hazard corrective actions, local traffic safety issues, on and off-duty mishaps, and other force preservation and readiness issues? Reference: MCO 5100.298, encl (1), chap 2, par4a and NAVMC DIR 5100.8 chap 4, par 4001, MCO 6260.3A, encl (2), par 8(c)

Finding: There was not any evidence that safety council meetings were being properly conducted, chaired by the Commander or the Executive Officer.

Recommendation: Safety councils need to be held on a quarterly basis and chaired by the Commander or Executive Officer. They should consist of topics that are identified through mishap trends, deficiency of areas that aren't receiving the proper attention e.g. mishap reporting, section safety inspections, etc, and updates on the safety program if needed. Maintain a

roster with all attendees and minutes for the records. Reference: NAVMC DIR 5100.8, chap 13, par 13008.3.a.

0332: Does the command have an appropriately trained RPPM? Reference: NAVMC DIR 5100.8, chap 13, par 13008.3.a.

Finding: There was not any evidence that there was a qualified RPPM.

Recommendation: Appoint and train a qualified RPPM to manage the respirator program. Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

0333: Does the RPPM conduct an annual audit of the Respiratory Protection Program? Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

Finding: There was not any evidence of an annual audit of the Respiratory Protection Program.

Recommendation: Once an RPPM is qualified, conduct an annual audit of the Respiratory Protection Program. Reference: NAVMC DIR 5100.8, chap 13, par30 8.3.k

0337: Does the command have a written policy (LOI, SOP) that addresses training, hazards, controls, reporting of injuries and obtaining Wet Bulb Globe Temperature (WBGT) readings in hot and cold environments? Reference: MARADMIN 111/15

Finding: No policy, letter of instruction or standard operating procedure was on hand.

Recommendation: Write a policy, letter of instruction or standard operating procedure for signature. There is an example of this on the Division Safety and Environmental Best Practice located on the G4 Sharepoint Page. Reference: MARADMIN 111/15

<https://eis.usmc.mil/sites/lmardiv/g4/DivSafety/default.aspx>

FA 5210 Records, Reports, & Directives Management - NMC with (11) Findings

Inspector: SSgt (b)(3), (b)(6), (b)(7)(c)

0104: Has the command assigned subordinate records managers to monitor proper record keeping in all staff sections (i.e., staff sections outside G1/S1)? Reference: MCO 5210.11F, par4c(3)(b), par4b(5)(a), par4c(2)(c)

Finding: Command had subordinate records managers that were no longer present.

Recommendation: Command update all subordinate records managers appointment letters and place in their turnover binder. Reference: MCO 5210.11F, par4c(3)(b), par4b(5)(a), par4c(2)(c)

0301: Has the command developed and maintained a Vital Records program (i.e., policy directive)? (Template directive available on RMKS site). Reference:

Enclosure (1)

MCO 5210.11F, par4a(1)(b)6, par4b(5)(b-c), par4c(2)(q), and chap 7, par 5b(3-4)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records.). Reference: MCO 5210.11F, par4a(1)(b)6, par4b(5)(b-c), par4c(2)(q), and chap 7, par 5b(3-4)

0302: Has the command integrated it's Vital Records program into the Command's Continuity of Operations Plan (COOP), safety, and/or Emergency Evaluation Plan (EAP)? (COOP templates are available at: [http://www.hqmc.marines.mil/ppo/Units/OperationsDivision\(PO\)ICurrentOperationsBranch\(PO\)/ContinuityofOperations\(COOP\).aspx](http://www.hqmc.marines.mil/ppo/Units/OperationsDivision(PO)ICurrentOperationsBranch(PO)/ContinuityofOperations(COOP).aspx)) Reference: MCO 5210.11 F, par 4a(1)(b)6 and 4c(2)(q)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Command also had no COOP in their records. Recommend Command develops a COOP with their S-2 and S- 3. Reference: MCO 5210.11 F, par 4a(1)(b)6 and 4c(2)(q)

0303: Has the command appropriately identified the types of vital records? (All staff sections and subordinate units shall determine what records are considered vital to the continuity of operations in the event of a natural disaster or emergency.) Reference: MCO 5210.11 F, chap 7, par 2 and par 3

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11 F, chap 7, par 2 and par 3

0304: Has the command conducted an annual inventory of all vital records? Reference: MCO 5210.11 F, chap 7, par 5b(1) and par 5b(3)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof

of no vital records. Reference: MCO 5210.11 F, chap 7, par 5b(1) and par 5b(3)

0305: Are all identified vital records current and properly managed throughout their lifecycle? (Vital records shall be managed and maintained by the appropriate SSIC of the identified record.) Reference: MCO 5210.11F, chap 7, par 5b(3) and par 5b(5)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11F, chap 7, par 5b(3) and par 5b(5)

0306: Has the command established a folder on the organization SharePoint Portal (or other electronic records management source if SharePoint is unavailable) labeled "Vital Records"? Reference: MCO 5210.11 F, chap 7, par 5b(7)

Finding: Command has not developed a vital records program. Command stated that they had no vital records, but couldn't provide confirmation from each section.

Recommendation: Command send an email to each section OIC asking for confirmation of vital records. The Command can use the email traffic as proof of no vital records. Reference: MCO 5210.11 F, chap 7, par 5b(7)

0402: Has the command established a Reports Management program (i.e. policy directive)? (Template directive available on RMKS site. Reports Management ensures staff agencies are not putting undue burden on staff regarding the completion of reports/surveys, thus taking away from daily tasks. The Reports Management program ensures that reports and reporting systems are compliant with federal mandates (i.e., 5 CFR Part 1320, SSN Reduction Act, etc.) and provide necessary information effectively, efficiently, and economically.) Reference: MCO 5214.2F, par 4b(2) (a) and par 4a(1-13), and chap 2, par 3, and SECNAVINST 5210.16, par 5 a-d

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program. Reference: MCO 5214.2F, par 4b(2) (a) and par 4a(1-13), and chap 2, par 3, and SECNAVINST 5210.16, par 5 a-d

0403: Has the command issued a listing of their recurring reporting requirements? (The listing for recurring reporting requirements is necessary to keep track of what licensed reports are available, eliminates duplication, and can be used as a resource for data that may be needed by other staff agencies.) Reference: MCO 5214.2F, chap 6, par 2d, and chap 3, par 7d

Finding: Command had no Reports Management Program.

Enclosure (1)

Recommendation: Command use the reference to establish a reports program.

Reference: MCO 5214.2F, chap 6, par 2d, and chap 3, par 7d

0404: Is the Reports Manager ensuring that information collections are not redundant with forms and information collections of a higher authority?

(Local forms shall not be used if a higher level form and report (i.e., NAVMC, DD, SF, etc.) already exists for the information being collected.)

Reference: SECNAVINST 5210.16, par 7d-f

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program.

Reference: SECNAVINST 5210.16, par 7d-f

0406: Does the command maintain reports case files for their sponsored validated reports? (The case file is required for a report not mandated by higher authority. The case file validates the purpose for the information collection and shows the life of the report, (i.e., what directive required it, when it was required, a sample of the report or snapshot of the database and what Report Control Symbol was assigned to it.) **Reference:** MCO 5214.2F, chap 3, par 7

Finding: Command had no Reports Management Program.

Recommendation: Command use the reference to establish a reports program.

Reference: MCO 5214.2F, chap 3, par 7



UNITED STATES MARINE CORPS
1ST MARINE DIVISION
BOX 555380
CAMP PENDLETON, CALIFORNIA 92055-5380

IN REPLY REFER TO:
5040
CIG/G-7
21 Aug 18

From: Command Inspector General/G-7, 1st Marine Division
To: Commanding Officer, 3D Assault Amphibian Battalion

Subj: COMMENDATORY PERFORMANCE REPORT CASE OF 3D ASSAULT AMPHIBIAN BATTALION

Ref: (a) MCO 5040.6H
(b) DivO 5041.21N

1. Per the references, the following individuals are recognized as superior performers during the Commanding General's Inspection of 3D Assault Amphibian Battalion (3D AABn).

- a. FA 1560 Lifelong Learning
Staff Sergeant (b)(3), (b)(6), (b)(7)(c)
- b. FA 1730 Religious Ministries
Lieutenant (b)(3), (b)(6), (b)(7)(c)
- c. FA 3070 Operations Security
Sergeant (b)(3), (b)(6), (b)(7)(c)
- d. FA 3574 Marksmanship Program
Sergeant (b)(3), (b)(6), (b)(7)(c)
- e. FA 5110 Postal Affairs
Sergeant (b)(3), (b)(6), (b)(7)(c)
Corporal
- f. FA 5510.3 Information & Personnel Security
Sergeant (b)(3), (b)(6), (b)(7)(c)
- g. FA Motor Cycles Mentorship Program
Lieutenant (b)(3), (b)(6), (b)(7)(c)

2. A request for a Commanding General's Certificate of Commendation to recognize these individuals has been routed.

3. Any questions or concerns, please contact the 1st MarDiv CIG/G-7
Readiness Chief at (b)(3), (b)(6), (b)(7)(c) or via email at the organizational inbox

Enclosure (2)



UNITED STATES MARINE CORPS
BATTALION LANDING TEAM 2/8
26TH MARINE EXPEDITIONARY UNIT
PSC BOX 20103
CAMP LEJEUNE, NC 28542-0103

IN REPLY REFER TO
5830
IO
23 Aug 19

From: Captain (b)(3), (b)(6), (b)(7)(c) , (b)(3), (b)(6), (b)(7)(c) /7557 USMC
To: Commanding Officer, Battalion Landing Team 2/8

Subj: COMMAND INVESTIGATION INTO THE FACTS AND CIRCUMSTANCES
SURROUNDING THE AMPHIBIOUS ASSAULT VEHICLE INCIDENT ON OR ABOUT
11 JULY 2019

Ref: (a) JAGINST 5800.7F, Chapter II (JAGMAN)
(b) JAGMAN Investigation Handbook 2016
(c) COMNAVSURFLANTINST 3340.3E, Appendix G (Wet Well Manual)
(d) TI 07007C/07267C/07268C-25/1A
(e) Standard Operating Procedures Assault Amphibious Vehicle
Operations (Common SOP for AAV Ops)
(f) TM 09674A-25&P/4D

Encl: (1) Appointment Order and Extension Letter
(2) Voluntary statement, First Lieutenant (b)(3), (b)(6), (b)(7)(c) ,
USMC
(3) Voluntary statement, Gunnery Sergeant (b)(3), (b)(6), (b)(7)(c) ,
USMC
(4) Voluntary statement, Staff Sergeant (b)(3), (b)(6), (b)(7)(c) ,
USMC
(5) Voluntary statement, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(6) Voluntary statement, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(7) Voluntary statement, Sergeant (b)(3), (b)(6), (b)(7)(c) , USMC
(8) Voluntary statement, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(9) Voluntary statement, Captain (b)(3), (b)(6), (b)(7)(c) , USMC
(10) Summary of interview, Sergeant (b)(3), (b)(6), (b)(7)(c) , USMC
(11) Summary of interview, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(12) Summary of interview, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(13) Summary of interview, Sergeant (b)(3), (b)(6), (b)(7)(c) , USMC
(14) Summary of Interview, Captain (b)(3), (b)(6), (b)(7)(c) , USMC
(15) Summary of Interview, Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(16) Email interview, First Lieutenant (b)(3), (b)(6), (b)(7)(c) , USMC
(17) Email from BLT 2/8 Operations Officer to Assistant
Operations Officer, dtd 26 July 2019
(18) Pre-water operations checklist dtd 11 July 2019
(19) Surf observation report dtd 11 July 2019
(20) Amphibious operations planning documents of First
Lieutenant (b)(3), (b)(6), (b)(7)(c) , USMC, dtd 11 July 2019
(21) Amphibious assault vehicle operators identification card
for Corporal (b)(3), (b)(6), (b)(7)(c) , USMC
(22) Surface weather observations log aboard USS OAK HILL dtd
11 July 2019
(23) Wave data from buoy provided by USS BATAAN dtd 11 July
2019

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11 JULY 2019

- (24) Amphibious operations Go/No-go Criteria Table extract from ref (c)
- (25) Ship's deck log sheet from USS OAK HILL dtd 11 July 2019
- (26) Email from USS OAK HILL Operations Officer, Lieutenant (b)(3), (b)(6), (b)(7)(c), USN, dtd 11 July 2019
- (27) Voluntary statement by Lieutenant (b)(3), (b)(6), (b)(7)(c), USN, dtd 31 July 2019
- (28) Email from Master Chief Petty Officer (b)(3), (b)(6), (b)(7)(c), USN, dtd 29 July 2019
- (29) Diagram depicting amphibious assault vehicle recovery aboard HOS MYSTIQUE
- (30) Email from Chief Warrant Officer 2 (b)(3), (b)(6), (b)(7)(c), USN, dtd 20 July 2019
- (31) Assault amphibious vehicle limited technical inspection for 2A303 dtd 20 May 2019
- (32) Assault amphibious vehicle combat readiness dtd 9 July 2019
- (33) Operational risk management matrix for Golf Company raid
- (34) Situation report by engineering team from office of the Program Manager, Advanced Amphibious Assault (PM AAA)
- (35) Aft hydraulic bilge pump tubes and fittings diagram excerpt from ref (f)
- (36) Extracts from ref (e)
- (37) PowerPoint picture presentation provided by (b)(3), (b)(6), (b)(7)(c), PM AAA
- (38) PowerPoint picture presentation provided by Investigating Officer
- (39) Estimated cost of the mishap and equipment density list
- (40) Things to look at maintenance related provided by (b)(3), (b)(6), (b)(7)(c), USMC
- (41) GCSS excerpts for 2A303 provided by Master Sergeant (b)(3), (b)(6), (b)(7)(c), USMC
- (42) Voluntary statement, Quarter Master 2nd Class (Surface Warfare Specialist) (b)(3), (b)(6), (b)(7)(c), USN
- (43) Email from (b)(3), (b)(6), (b)(7)(c), PM AAA, dtd 9 August 2019

Preliminary Statement

1. In accordance with the references and enclosure (1), I conducted a command investigation to determine the facts and circumstances surrounding the assault amphibious vehicle mishap that resulted in the sinking of AAV-P7 serial number 523139, tactical number 2A303, on 11 July 2019.

2. I consulted the 26th Marine Expeditionary Unit (MEU) Staff Judge Advocate and the Battalion Landing Team (BLT) 2/8 Legal Officer for guidance on this investigation.

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3. I was present during the dive recovery of 2A303, the pier side transfer of 2A303, and maintained the key in my possession to the secured vehicle for the duration of the investigation while it was back at 2nd Assault Amphibian Battalion (2d AA Bn).

4. The 26th MEU provided Communication Strategy (COMMSTRAT) support to the investigation. As a result, there is both video and still photograph evidence of the recovery of 2A303.

5. An engineering investigation support team from the Program Office, Advanced Amphibious Assault (PM AAA) in Quantico, Virginia, along with two east coast field service representatives from 2d AA Bn aided in this investigation. These members included (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), and Gunnery Sergeant (b)(3), (b)(6), (b)(7)(c).

6. The term "assault amphibious vehicle" is often misworded as "amphibious assault vehicle." Both terms appear in various references and enclosures to this report and should be understood as one in the same and interchangeable. Henceforth, both terms are shortened to "AAV". All AAVs in this report are referred to by their 2d AA Bn tactical number consisting of 2 for 2nd Battalion, A for Alpha Company, 300 series for 3rd Platoon, and the last two digits 1 thru 15. AAV Personnel Variant Seven (AAV-P7) Serial Number 523139 will therefore be referred to simply as 2A303.

7. All statements and interviews were taken without Article 31 rights advisements or waivers. It should be noted that throughout the entirety of the investigation, the crew of 2A303 and all members of the Assault Amphibian Platoon have decidedly cooperated. Additionally, the 2d AA Bn was forthcoming and helpful at all levels during the investigation.

Findings of Fact

1. I, Captain (b)(3), (b)(6), (b)(7)(c) was appointed as the Investigating Officer on 12 July 2019. [Encl (1)]

2. Greenwich Mean Time (GMT or Zulu time) is 4 hours ahead of Eastern time. All incident reporting was conducted in Zulu time. [Encl (23)]

3. Sergeant (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 1833, BLT 2/8, was the senior crew member in 2A303. [Encl (18)]

4. Corporal (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 1833, BLT 2/8, was the acting crew chief and driver in 2A303. [Encl (18)]

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5. Corporal (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 1833, BLT 2/8, was the rear crewman in 2A303. [Encl (18)]
6. Corporal (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 1833, BLT 2/8, was the mechanic for 2A303. [Encl (18)]
7. Captain (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 7565, BLT 2/8, was the only embarked troop aboard 2A303. [Encl (18)]
8. First Lieutenant (b)(3), (b)(6), (b)(7)(c), (b)(3), (b)(6), (b)(7)(c), MOS 1803, BLT 2/8 was the Platoon Commander for the Amphibious Assault Platoon. [Encls (2), (16)]
9. Corporal (b)(3), (b)(6), (b)(7)(c) was qualified to operate 2A303 and had an active AAV operator's identification card. [Encl (21)]
10. Corporal (b)(3), (b)(6), (b)(7)(c) was not designated in writing to be the crew chief of 2A303. He was acting in the role of crew chief as a temporary solution to a personnel change within the Platoon. [Encls (12), (16)]
11. An Operational Risk Management (ORM) matrix was completed and signed by the BLT 2/8 Commanding Officer prior to the 11 July 2019 incident. The ORM matrix contained specific guidance for developing and implementing controls to ensure watertight integrity, bilge pump operability, and sea state verification prior to splashing AAVs. One required control was to conduct an AAV pre-water operations checklist. [Encl (33)]
12. On 11 July 2019, Corporal (b)(3), (b)(6), (b)(7)(c) supervised as the 2A303 crew completed the required AAV pre-water operations checklist. [Encl (18)]
13. Item 8 of the checklist directs the crew to check that ramp and personnel hatch seals are serviceable. The AAV is not mission capable if the seal is missing or any visual defect is detected that may result in a water leak. On the checklist completed on 11 July 2019, the crew annotated item 8 as serviceable. [Encl (18)]
14. Items 14 and 15 of the checklist direct the crew to check the hydraulic and electric bilge pumps. The AAV is not mission capable if more than 1 of 4 bilge pumps are inoperative. The crew annotated that the rear electric bilge pump was inoperative. [Encl (18)]
15. The AAV platoon conducted a Surf Observation Report (SUROB) on 11 July 2019 at 1355Z and the Mean Surf Index (MSI) was calculated to be 1.9. [Encl (19)]

Subj: COMMAND INVESTIGATION INTO THE FACTS AND CIRCUMSTANCES
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16. The maximum safe MSI as per COMNAVSURPACINST/COMNAVSURFLANTINST 3840.1B Joint Surf Manual is 6.0. [Encl (36)]

17. First Lieutenant ^{(b)(3), (b)(6), (b)(7)(c)} met in person aboard the USS OAK HILL on 10 July 2019 with the ship's Captain, Operations Officer, Navigator, Communication Chief, Combat Cargo Officer, and Commander of Troops. The purpose of this meeting was to synchronize the key personnel involved in the movement. The result of this meeting was a plan for an underway (i.e., dynamic) recovery of the AAVs by the USS OAK HILL at a distance from shore of 6350 meters (3.45 nautical miles (NM)). [Encl (2)]

18. The BLT 2/8 Operations Officer, Major ^{(b)(3), (b)(6), (b)(7)(c)}, made final coordination with the USS OAK HILL and First Lieutenant ^{(b)(3), (b)(6), (b)(7)(c)} on 10 July 2019. After making that coordination, he believed that the USS OAK HILL would perform an underway recovery at a distance of approximately 3NM or 6000 meters. Major ^{(b)(3), (b)(6), (b)(7)(c)} emailed this information to the BLT 2/8 Assistant Operations Officer, ^{(b)(3), (b)(6), (b)(7)(c)} and the Executive Officer, Major ^{(b)(3), (b)(6), (b)(7)(c)}. [Encl (17)]

19. At 1154Z on 11 July, the day of the AAV recovery mission, the USS OAK HILL's Combat Cargo Officer, CWO3 ^{(b)(3), (b)(6), (b)(7)(c)}, USMC, sent a text message to First Lieutenant ^{(b)(3), (b)(6), (b)(7)(c)} to inform him that the plan had changed. First Lieutenant ^{(b)(3), (b)(6), (b)(7)(c)} discovered that the recovery would now be static with the USS OAK HILL anchored at a distance of 7950 meters or 4NM from shore. [Encl (2)]

20. The actual location of the USS OAK HILL was an anchored position approximately 8334 meters (4.5NM) from the splash point, approximately 400 meters farther away from what was briefed. [Encl (26)]

21. The original planned recovery time for the first AAV onto the USS OAK HILL was 1830Z. The USS OAK HILL delayed approval for AAVs to enter the water until 2030Z despite worsening weather and sea states. [Encl (2)]

22. The Splash Team Commander was Gunnery Sergeant ^{(b)(3), (b)(6), (b)(7)(c)}, MOS 1833. [Encls (2), (3), (9)]

23. Gunnery Sergeant ^{(b)(3), (b)(6), (b)(7)(c)} and his splash team conducted splash checks prior to the AAVs entering the water. [Encls (2), (3), (9)]

24. One of the responsibilities of the rear splash team member is to ensure that the ramp and ramp personnel door are properly secured. [Encl (36)]

Subj: COMMAND INVESTIGATION INTO THE FACTS AND CIRCUMSTANCES
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25. The first AAV entered the water with a splash time of 2037Z on 11 July 2019. [Encls (25), (26)]

26. 2A303 was the 11th of 13 AAVs to enter the water, and its splash time was 2052Z on 11 July 2019, approximately 15 minutes after the first AAV. [Encls (2), (3), (9)]

27. The last AAV entered the water at 2055Z on 11 July 2019. The entire movement consisted of 13 AAVs and 52 personnel. [Encls (25), (26)]

28. The first AAV was "feet dry" on the USS OAK HILL at 2145Z on 11 July 2019 for a total swim time of 1 hour and 8 minutes. [Encls (25), (26)]

29. 2A303 reported to the USS OAK HILL at 2244Z on 11 July 2019 that it was taking on water. At that time, 2A303 already had been in the water for 1 hour and 52 minutes. [Encls (25), (26)]

30. 12 minutes later, at 2256Z, the USS OAK HILL received a report that 2A303 was fully submerged with all personnel evacuated. At the time of this report, 2A303 had been in the water for 2 hours and 4 minutes. [Encls (25), (26)]

31. The reported submerged location was N3430.05 W07714.10, at a depth of 42 feet, 7700 meters from the splash point. At the time of submersion, the USS OAK HILL assessed the sea state to be Force 5 on the Beaufort scale. [Encls (25), (26)]

32. The Beaufort scale defines Force 5 as seas with a wind speed of 17-21 knots and a wave height of 6-8 feet. This data equates to a sea state of 4 using the Wet Well Manual and the AAV Common SOP (refs (c) and (e)). [Encls (22), (24), (42)]

33. The last AAV was "feet dry" on the USS OAK HILL at 2338Z on 11 July 2019 for a total swim time of 3 hours and 2 minutes. [Encls (25), (26)]

34. Reference (e) informs that wind speeds between 17-21 knots create a sea state of 4. Wind speeds between 21-25 knots create a sea state of 5. [Encl (36)]

35. According to Lieutenant (b)(3), (b)(6), (b)(7)(c), the wind speed at the time of commencing the splash was between 17-21 knots, which surpassed go/no-go criteria. The Commanding Officer of the USS OAK HILL assessed the sea state to be a 3, with a no-go of 4. [Encls (22), (27)]

Subj: COMMAND INVESTIGATION INTO THE FACTS AND CIRCUMSTANCES
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36. At the time the last AAV entered the water at 2055Z on 11 July 2019, the winds were reported at 21 knots. [Encl (22)]
37. For the entire duration of the swim, minus 18 minutes, the wind speed was reported between 17 and 23 knots. [Encls (22), (27)]
38. According to the Amphibious Operations Go/No-Go Criteria Table published in ref (c) and used by Navy personnel on the USS OAK HILL, wind speeds of 17-21 knots (i.e., a sea state of 4) represent a No-Go for AAV launch and recovery. [Encl (24)]
39. In accordance with ref (e), AAVs will not operate in a sea state of 4 or greater in a training environment. [Encl (36)]
40. Steep waves represent a more serious threat to capsizing vessels or damaging marine structures than broad swell. [Encl (23)]
41. For the entire duration of the swim, according to a buoy located just south of the USS OAK HILL, the wave steepness was reported as "very steep." [Encl (23)]
42. The definition of a sinking AAV is that watertight integrity is compromised to the extent that water entering the vehicle exceeds the amount of water being pumped out. [Encl (36)]
43. The definition of evacuation is the orderly process of embarked personnel and possibly the crew getting off a slow sinking AAV. [Encl (36)]
44. According to multiple crew statements, at approximately 1 hour and 25 minutes into the swim, the crew noticed "water coming from the front," and that water was at deck plate level. [Encls (2), (5), (6), (7), (8), (11-15)]
45. According to First Lieutenant ^{(b)(3), (b)(6), (b)(7)(c)} when the first call came through about the water coming in from the front, the closest safe haven was the USS OAK HILL. [Encl (2)]
46. The crew of 2A303 slowed down after the first call about water coming in from the front because of the roughness of the sea. The crew initially thought that the water was entering the vehicle due to the sea state and the speed of moving through the water. [Encls (2), (4), (6), (7), (9)]
47. Corporal ^{(b)(3), (b)(6), (b)(7)(c)} was troubleshooting with Corporal ^{(b)(3), (b)(6), (b)(7)(c)} to try to discover the origin of the water entering the vehicle. [Encls (5), (6), (7)]

Subj: COMMAND INVESTIGATION INTO THE FACTS AND CIRCUMSTANCES
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48. According to multiple crew statements, approximately 15-20 minutes after the first discovery of water coming in from the front, and still unable to determine the source, the water had risen to "boot top high" level. [Encls (2), (5), (6), (7), (8), (9)]

49. According to multiple crew statements, when the water had risen to "boot top high" level, 2A303 experienced a hydraulic system failure. This meant that the crew lost all hydraulic bilge pumps and also the ability to steer in the water using the jet deflectors. [Encls (2), (5), (6), (7), (8)]

50. With the hydraulic bilge pumps no longer functioning, the capacity for 2A303 to pump out water was reduced to a maximum of 100 gallons per minute. [Encl (34)]

51. Corporal (b)(3), (b)(6), (b)(7)(c) checked the reservoir upon hearing that they had "lost hydro" (hydraulic fluid) and discovered that it was empty. [Encls (5), (6), (7), (8), (14)]

52. Corporal (b)(3), (b)(6), (b)(7)(c) attempted to refill the hydraulic reservoir using the 2-quart container at least 3 to 4 times, with little impact, before transitioning to the 5-gallon hydraulic fluid container. Although the crew would sporadically regain steering and hydraulic bilge operation, the hydraulic system never recovered. [Encls (5), (6), (7), (8), (14)]

53. Upon hearing that water had risen to "boot top high" level, First Lieutenant (b)(3), (b)(6), (b)(7)(c) informed the USS OAK HILL to position the safety boats closer to 2A303. [Encl (2), (25), (27)]

54. At that time, First Lieutenant (b)(3), (b)(6), (b)(7)(c) also ordered the first section leader, Staff Sergeant (b)(3), (b)(6), (b)(7)(c), MOS 1833, located in 2A301 to move alongside 2A303 in order to supervise, provide additional hydraulic fluid, and possibly rig for tow and complete troop transfer. [Encls (2)-(4), (7), (9)]

55. According to multiple crew statements, when the water had risen to "boot top high" level, Sergeant (b)(3), (b)(6), (b)(7)(c) informed the crew to prepare for evacuation as they fought to get the hydraulic system back. [Encls (5)-(8), (14)]

56. According to multiple crew statements, when the water had risen to "bench seat high" level, Sergeant (b)(3), (b)(6), (b)(7)(c) informed Staff Sergeant (b)(3), (b)(6), (b)(7)(c) that the water was slowly rising and that the engine for 2A303 stopped running. Sergeant (b)(3), (b)(6), (b)(7)(c) then gave the command to evacuate the vehicle. [Encls (4)-(8), (11)-(15)]

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57. Staff Sergeant (b)(3), (b)(6), (b)(7)(c) informed First Lieutenant (b)(3), (b)(6), (b)(7)(c) that water was at "bench seat level", the engine on 2A303 had shut off, and he was going to rig the disabled vehicle for tow and conduct a troop transfer. [Encls (2), (4)]

58. The crew acted in accordance with published water level trigger considerations for evacuation of the vehicle. [Encl (36)]

59. Prior to evacuation, Corporal (b)(3), (b)(6), (b)(7)(c) left the master and front electric bilge pump switches ON prior to evacuating the vehicle. According to the engineering investigation team, once the engine shut down completely the electric bilge pump would continue to run off battery for approximately two minutes. [Encls (6), (12), (34), (38)]

60. According to multiple crew statements, Captain (b)(3), (b)(6), (b)(7)(c) was the first to exit the vehicle through the troop commander's hatch, followed by Corporal (b)(3), (b)(6), (b)(7)(c) and Corporal (b)(3), (b)(6), (b)(7)(c) Sergeant (b)(3), (b)(6), (b)(7)(c) exited the vehicle through the turret hatch. Corporal (b)(3), (b)(6), (b)(7)(c) ~~was~~ the last out of the vehicle, and exited from the driver's hatch. [Encls (5)-(8), (11)-(15)]

61. According to multiple crew statements, they closed all the hatches for 2A303 prior to towing operations with the exception of the turret hatch, left at 90 degrees in accordance with the AAV Common SOP. [Encls (5)-(7), (11), (13), (14)]

62. A successful troop transfer of the entire crew of 2A303 into 2A301 occurred without issue. [Encls (5)-(8), (11)-(15)]

63. Upon evacuating into 2A301, Sergeant (b)(3), (b)(6), (b)(7)(c) and Corporal (b)(3), (b)(6), (b)(7)(c) rigged 2A303 for tow. [Encls (4)-(7)]

64. According to multiple crew statements, 2A301 towed 2A303 "Stern-to-Stern." [Encls (4), (7), (14)]

65. The "Stern-to-Stern" method is the correct way to tow a disabled AAV when the vehicle's hydraulic system or plenum locks are in question. [Encl (36)]

66. According to Staff Sergeant (b)(3), (b)(6), (b)(7)(c) the sea tow quick release disconnected while towing 2A303. He responded by instructing the driver of 2A301 to turn back around so they could re-rig 2A303 for tow. [Encl (4)]

67. Sergeant (b)(3), (b)(6), (b)(7)(c) and Corporal (b)(3), (b)(6), (b)(7)(c) exited 2A301 to re-rig 2A303 for tow. Sergeant (b)(3), (b)(6), (b)(7)(c) jumped from 2A301 to 2A303, and with the help of Corporal (b)(3), (b)(6), (b)(7)(c) ~~re~~rigged for tow. Sergeant (b)(3), (b)(6), (b)(7)(c) then jumped back to 2A301. [Encls (4), (5), (6), (11), (13), (14), (17)]

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68. According to Staff Sergeant ^{(b)(3), (b)(6), (b)(7)(c)} while towing 2A303 for the second time, both vehicles encountered two large swells and 2A303 began to sink fast. Once 2A303 was under water and no longer visible, they pulled the sea tow quick release. [Encl (4)]

69. A dive team with 2nd Reconnaissance Battalion and 26th MEU's Maritime Raid Force dove to locate 2A303 on 16 July 2019. [Encl (28)]

70. The divers confirmed the actual location of the submerged 2A303 at N34°29'59.21 W77°14'44.93 at a depth of 45 feet, sitting upright on soft sand. [Encl (28)]

71. The divers discovered the AAV with the troop commander and turret hatches open at 90 degrees, recovered four main packs attached to the outside of the vehicle, and marked 2A303 with an orange buoy to aid in vehicle recovery the next day. [Encl (28)]

72. The divers did not enter 2A303 or manipulate any hatches per guidance from the 26th MEU leadership. [Encl (28)]

73. On 17 July 2019, the investigating officer, along with Staff Sergeant ^{(b)(3), (b)(6), (b)(7)(c)} from 26th MEU COMMSTRAT, and Gunnery Sergeant ^{(b)(3), (b)(6), (b)(7)(c)} and Master Sergeant ^{(b)(3), (b)(6), (b)(7)(c)} from 2d AA Bn, coordinated with Mobile Dive and Salvage Unit Two aboard the Hornbeck Offshore Services (HOS) MYSTIQUE for recovery operations. [Encls (29), (30), (38)]

74. The Mobile Diver and Salvage Unit Two completed four dives on 17 July 2019, resulting in a successful recovery of 2A303 aboard the HOS MYSTIQUE. All four dives and the recovery aboard the HOS MYSTIQUE have video footage documenting the entire evolution [Encls (28), (29)]

75. The Mobile Diver and Salvage Unit Two divers opened the ramp personnel hatch on 2A303 from the inside during the second dive. [Encl (30)]

76. Ropes wedged between the personnel ramp door and the ramp frame held the door open slightly, with a ratchet strap keeping the door secure to the frame. This allowed water to evacuate 2A303 as it exited the water during recovery. [Encl (30)]

77. 2A303 was towed into a service bay at 2d AA Bn and locked by the investigating officer until the engineering investigation team arrived on 22 July 2019. [Encl (34)]

78. The ramp on 2A303 was not opened at any time prior to the arrival at 2d AA Bn. The opening of the ramp occurred in the presence of the investigating officer and the engineering investigation team. [Encl (38)]

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79. Video evidence shows laminated vehicle identification cards wedged between the ramp and the frame of 2A303 while sitting on the ocean floor. [Encl (38)]

80. Video evidence shows the rear crewman communications cord ("Yo-Yo" Cord) stuck in the upper left side of the ramp and hanging outside of 2A303 while sitting on the ocean floor. [Encl (38)]

81. Video evidence shows the laminated vehicle identification cards wedged between the left corner of the ramp and the frame of 2A303 as the vehicle exited the water. [Encl (38)]

82. Video evidence shows water exiting the vehicle in the same location as the laminated vehicle identification cards. [Encl (38)]

83. The only portion of the ramp that showed water exiting, besides the intentional water from the ramp personnel hatch being propped open, was the left hand bottom corner of the ramp. [Encl (38)]

84. All serialized gear was located, recovered, and returned to Golf Company, BLT 2/8, at Mile Hammock Bay Pier, Camp Lejeune, North Carolina on 17 July 2019. [Encl (39)]

85. Documents show an AAV Limited Technical Inspection (LTI) performed for 2A303 on 20 May 2019. The LTI lists multiple discrepancies. Of note, the Bilge Pump Bypass Valve and the Plenum Solenoid Valve both needed a replacement wiring harness. [Encl (31)]

86. There were zero major discrepancies for 2A303 briefed to the Battalion Landing Team 2/8 Commanding Officer on 9 July 2019. [Encl (32)]

87. There were vehicle identification cards, a communications "yo-yo" cord, an MRE main meal pouch, and a street broom bolt stuck between the ramp and the hull. According to the engineering investigation team, these items prevented a good seal and allowed water to enter the personnel compartment. [Encls (34), (37), (38)]

88. Prior to the dunk test, the personnel compartment was emptied and drained of remaining water and fluids. The removal of deck plates aided the investigation. [Encl (34)]

89. The engineering investigation team, under the supervision of the investigating officer, performed a dunk test of 2A303 prior to opening the ramp and removing the trapped items. Water entered in the area of the trapped items (bottom left corner of the ramp seal). This was the only area where water entered the vehicle. [Encls (34), (37) (38)]

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90. The engineering investigation team opened the ramp on 2A303 and removed all trapped items. [Encls (34), (37)]

91. The engineering investigation team performed a second dunk test of 2A303 with the trapped items removed. Water entered in the bottom left corner of the ramp seal, but at a greatly diminished rate. This second test confirmed that the trapped broom screw was the main cause of the water leak. [Encls (34), (37), (38)]

92. The engineering investigation team removed the engine drive hydraulic pump from 2A303, inspected it, and found the pump to be serviceable. [Encl (34)]

93. The engineering investigation team removed the aft hydraulic bilge pump from 2A303, inspected it, and found the pump to be serviceable. [Encl (34)]

94. The engineering investigation team removed the forward hydraulic bilge pump from 2A303, inspected it, and found it to be in question. The pump rotor would not rotate easily because a piece of safety wire was wedged between the rotor and the pump casing. After removal of the wire, the rotor moved freely. [Encls (34), (38)]

95. The engineering investigation team removed the forward electric bilge pump from 2A303, inspected it, and found it to be in question. They found a large amount of debris at the pump inlet, which would have degraded pump performance. They connected the pump electrically to another vehicle and it operated normally. [Encls (34), (38)]

96. The engineering investigation team found the ventilation aspirator on 2A303 stuck in the open position. This would allow water entry for water coming over the top of the vehicle. [Encl (34)]

97. The engineering investigation team found the turret exhaust fan door on 2A303 open, which would allow water entry. [Encl (34)]

98. The engineering investigation team discovered a hydraulic leak on the bilge pump bypass valve crossover tube to the plenum solenoid valve. The fittings that connect the crossover tube to these two valves were finger loose. [Encls (34), (35), (37)]

99. The bilge pump bypass valve was missing two mounting bolts, and the plenum solenoid valve (sea mode valve) was missing all mounting hardware. [Encls (34), (35), (37)]

100. During the execution of the Pre-Water Operations checklist, the crew of 2A303 discovered a small pool of hydraulic fluid near the plenum bypass valve. [Encls (13), (14), (15)]

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101. Upon discovery of the hydraulic fluid, Corporal (b)(3), (b)(6), (b)(7)(c) and Sergeant (b)(3), (b)(6), (b)(7)(c) cleaned up the fluid, checked the components, and ran the hydraulic system of 2A303 in an attempt to recreate the leak. No further hydraulic leaks were observed. [Encls (13), (14), (15)]

102. Corporal (b)(3), (b)(6), (b)(7)(c) and Sergeant (b)(3), (b)(6), (b)(7)(c) believed the hydraulic leak discovered was residual fluid from a previous repair of the plenum bypass valve by Corporal (b)(3), (b)(6), (b)(7)(c). [Encls (13), (14), (15)]

103. The vehicle personnel compartment contained a large amount of equipment that was not secured properly. This allowed material to drift around the compartment as the water level rose. [Encl (34)]

104. The engine for 2A303 stopped operating because items adrift in the vehicle entered the engine compartment. The items adrift include a frayed line from the vehicle tarp and canvas from utility trousers. The debris wrapped around the engine vibration dampener, engine pulley, and destroyed both the water pump and generator belts. [Encls (34), (38)]

105. Corporal (b)(3), (b)(6), (b)(7)(c) removed the engine compartment panels in the process of troubleshooting the hydraulic leak and searching for the source of the incoming water. [Encls (8), (15)]

106. The engineering investigation team discovered the ramp-locking dog mechanisms did not function properly. The starboard connection was disconnected, and the port connection was broken. [Encl (34)]

107. The investigating officer met with Master Sergeant (b)(3), (b)(6), (b)(7)(c) the Alpha Company Maintenance Chief for 2nd Amphibian Assault Battalion, to discuss the Global Combat Support System (GCSS) profile for 2A303. Topics discussed included Task Note procedures, the Maintenance Production Report, Deadline criteria, and parts ordering. [Encl (41)]

108. 2A303 was not reported Non-Mission Capable (DEADLINED) on 11 July 2019 at the time of the mishap. Sergeant (b)(3), (b)(6), (b)(7)(c) removed 2A303 from Non-Mission Capable (DEADLINED) status on 2 July 2019. [Encls (10), (40), (41)]

109. Several discrepancies were found in regards to task notes and parts ordering management, effectively showing 2A303 Non-Mission Capable (DEADLINED) administratively at the time of the mishap. These discrepancies included a steering position sensor, mid-ship bearing seals, a personnel hatch seal, and a coolant temperature transducer. The vehicle had received all of the required repairs to be removed from DEADLINED status on 2 July 2019, but this was not accurately reflected in GCSS. [Encls (10), (40), (41)]

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110. Sergeant ^{(b)(3), (b)(6)}_{(b)(7)(C)} ordered the mid-ship bearing and seals as 02 (Priority) status after the vehicle was discovered to have a leak. Maintenance was performed on the vehicle, to include torquing the retaining nuts to spec, and applying Room Temperature Vulcanizing (RTV) silicone to the bearing housing. After a dunk test, the mid-ship bearings and seals were found to be no longer leaking. Task was downgraded to 05 priority (Urgent) because the parts could not be cancelled due to shipping status. [Encls (10), (40), (41)]

111. According to the engineering investigation team, the crew of 2A303 used an unauthorized procedure to repair the mid-ship bearings and seals using RTV sealant. During either dunk test, water was not observed entering 2A303 from the mid-ship bearings and seals. [Encls (34), (37)]

112. According to the engineering investigation team, the submission of two Product Quality Deficiency Reports (PQDRs) on 31 March 2015, M21810-15-0087 and M21810-15-0085 documented a "Hull Fatigue" issue on the port and starboard side mid-ships near the sponson. Water was not observed entering 2A303 at the location of either PQDR. [Encl (34)]

113. The engineering investigation team tested the ramp hinge brackets from inside the hull. The fittings did not have the required sealant. Additionally, the torque values were 200-foot pounds on the starboard side and 150-foot pounds on the port side. The correct torque values are 740-840 foot pounds. [Encl (34)]

114. 2A303 was last sent to depot-level "Inspect, Repair Only As Necessary" (IROAN) maintenance in 2012. [Encl (34)]

115. The baseline requirement for IROAN depot-level servicing is every 6 years, 600 hours, or 6,000 miles (6/6/6). [Encl (43)]

116. The known estimated cost of this mishap is approximately \$58,200. This estimate does not capture what will be the end result total cost once 2A303 is sent to depot-level maintenance, and is beyond the scope of this investigation. [Encl (39)]

Opinions

1. The definition of a sinking AAV is that watertight integrity is compromised to the extent that water entering the vehicle exceeds the amount of water being pumped out. While many factors played a role in the mishap of 2A303, the combination of two primary causal factors are responsible for the mishap. If you remove either factor, the mishap does not happen. The screw from the broom handle created a gap in the ramp seal that allowed water to enter the vehicle. This breach in watertight integrity was present at the time 2A303 entered the water,

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and remained throughout the duration of the movement. This breach in watertight integrity went unnoticed for approximately 1 hour and 25 minutes, until the crew observed water pooling at the front of the vehicle. The appearance of the water coincided and was directly related to the failure of the hydraulic system and the two hydraulic bilge pumps. Because the crew splashed with only 3 out of 4 bilge pumps operational, once the hydraulic system failed, only the front electric bilge pump was operational. Additionally, a large amount of debris obstructed the front electric bilge pump inlet degrading its performance. Effectively, the crew of 2A303 had a breach of watertight integrity that exceeded the rate the degraded front electric bilge pump could handle. As a result, the AAV continued to fill up with water until it sank. [FF (13), (14), (29), (42), (44), (49)-(52), (83), (85), (87), (89), (91), (95)]

2. The Pre-Water Operations checklist only directs the crew to check that the ramp and personnel seals are serviceable. There is no reason to believe that this did not occur. However, because of the apparent lack of general cleanliness of 2A303, evidence suggests that when the ramp closed, debris such as the broom screw, laminated vehicle identification cards, an MRE main meal pouch, and a communications cord became trapped between the seal and the frame of the vehicle. It is unlikely that the broom screw would have been seen from the inside of the vehicle once the ramp was closed. However, more attention to detail from the crew inspecting the vehicle from the inside could have led to a decision to open the ramp. [FF (12), (13), (79)-(82), (87), (84), (85), (89), (91)]

3. According to all members of the crew, Corporal ^{(b)(3), (b)(6)}_{(b)(7)(c)} was plugged into the rear communications box using the "Yo-Yo" cord. There is insufficient evidence to suggest that they are not being truthful, however the cord was found outside of the vehicle during the recovery effort. An explanation for how the cord would end up traveling from inside to outside the vehicle after the ramp was closed was not conclusively reached. The cord being trapped in the ramp would not have caused a breach in watertight integrity, but it would again speak to a general lack of attention to detail. [FF (80), (87)]

4. Gunnery Sergeant ^{(b)(3), (b)(6)}_{(b)(7)(c)} and his splash team conducted two separate splash checks on 2A303 the day of the mishap. First Lieutenant ^{(b)(3), (b)(6)}_{(b)(7)(c)} and Captain ^{(b)(3), (b)(6), (b)(7)(c) stated that they observed the splash checks occurring without issue. There is insufficient evidence to definitively say that the vehicle identification cards or the "Yo-Yo" cord was outside of the vehicle prior to the vehicle entering the water. As a result, there is also insufficient evidence to say that the rear splash team member would have seen anything to warrant further investigation. There is sufficient evidence however, that the broom screw was in the ramp at the time of the splash checks. The}

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splash check does not specifically instruct the rear splash team member to check the ramp seal, just to confirm that the ramp was properly secured. There is no reason to believe that this did not occur. A more thorough inspection of the ramp seal would have discovered the broom screw protruding from the ramp seal. [FF (22)-(24), (79)-(82), (87), (91)]

5. This was the first shore to ship movement for the Platoon as part of the 26th MEU workup cycle. First Lieutenant Valeske met with key personnel on the USS OAK HILL in an effort to synchronize the Navy and Marine Corps integration. The result of that meeting was an agreed upon underway recovery at a distance of 6350m (3.45NM). The change to this decision by the USS OAK HILL to instead perform a static recovery at a distance of 8334m (4.5NM) was not effectively relayed to First Lieutenant Valeske. All planning on the day of the mishap was based on a new distance of 7950m. Everything else being equal, if the USS OAK HILL would have been at the agreed distance and performed an underway recovery, it can reasonably be assumed the 2A303 would not have sank. However, neither the overall actual distance, nor this discrepancy in distance caused this mishap. Additionally, while an underway recovery could have allowed the USS OAK HILL to be more reactive to the situation, the fact that it was a static recovery did not cause this mishap. [FF (8), (17)-(20)]

6. The original planned recovery time for the first AAV was 1830Z. The actual recovery time for the first AAV was 2145Z, over three hours later. The weather was forecasted to be worse "later in the day." While the shift in timeline caused by the USS OAK HILL was not a causal factor, it did contribute to the AAVs entering the water in weather that was not suitable for training. [FF (8), (17)-(20), (25), (28)]

7. According to her voluntary statement, Lieutenant (b)(3), (b)(6), (b)(7)(c), the debarkation control officer on the USS OAK HILL on the day of the mishap, stated that the "Winds were less than 21 knots, but within the 17-21 knot range listed as go/no-go criteria for AAV recovery." The Commanding Officer of the USS OAK HILL, Commander (b)(3), (b)(6), (b)(7)(c), incorrectly assessed the sea state to be a 3, with a no-go of 4. According to both the Navy Wet Well Manual and the AAV Common SOP, winds within the 17-21 knot range equate to a sea state of 4. AAVs are not allowed to operate in a sea state of 4 during training. The USS OAK HILL should not have given approval for the AAVs to enter the water. [FF (32), (34)-(41)]

8. First Lieutenant (b)(3), (b)(6), (b)(7)(c) had solid communications with the USS OAK HILL for the duration of the movement. Lieutenant (b)(3), (b)(6), (b)(7)(c) should have communicated that the winds were within the 17-21 knot range prior to giving the approval for the AAVs to enter the water. There was an

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assumption made by First Lieutenant (b)(3), (b)(6), (b)(7)(c) that the Navy would ensure that the weather was within the go criteria prior to giving approval to enter the water. Because of this assumption, there was never a conversation between the two about the sea state. It can be reasonably assumed that if this conversation had occurred, the AAVs would not have entered the water. [FF (25), (32), (34)-(41)]

9. The crew of 2A303 and First Lieutenant (b)(3), (b)(6), (b)(7)(c) exercised sound judgment in the decision to continue to the USS OAK HILL once the AAV began taking on water. The ship was the closest safe haven, and turning around would have placed them at greater risk. [FF (29), (31), (45)]

10. First Lieutenant (b)(3), (b)(6), (b)(7)(c)'s overall training plan, rehearsal operations, and platoon briefs conducted on 10-11 July 2019, were well conceived and provided optimal mitigation to risk associated with the launch and recovery of AAVs onboard an amphibious ship. [FF (8), (11), (12), (17), (19)]

11. A small pool of hydraulic fluid was discovered during the execution of the Pre-Water Operations checklist near the Plenum Bypass Valve. The crew stated that they cleaned off the components, made sure all connections were tight, and ran the hydraulic system for approximately 15 minutes. The crew was not able to recreate a hydraulic leak, and attributed the leak to residual fluid from a prior repair. There is no reason to believe that these actions did not occur. As a result, no fault in judgement can be found in regards to the decision to call the hydraulic system operational. [FF (12), (100)-(102)]

12. Approximately 1 hour and 25 minutes after 2A303 entered the water, at 2220Z, the crew experienced a failure of the hydraulic system. The main impact of this hydraulic failure was the loss of both hydraulic bilge pumps. Despite several attempts over a span of approximately 20 minutes, the crew was unable to get the hydraulic system to recover. Because the crew could not find the source of the leak, the amount and rate of hydraulic fluid exiting the system was greater than the rate that the crew was able to fill the reservoir. The actions by the crew in an effort to recover the hydraulic system were sound. [FF (49)-(52), (55)]

13. The crew demonstrated courage, mental toughness, and sound judgment in the effort to keep 2A303 afloat. The sea state was extremely rough, compounded by the issue that they lost the ability to steer. Sergeant (b)(3), (b)(6), (b)(7)(c) was able to communicate the situation to his section leader while simultaneously managing the fight within the cabin. Corporal (b)(3), (b)(6), (b)(7)(c) ensured that the master power switch and the front electric bilge pump switch were both ON prior to exiting the

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vehicle. Corporal (b)(3), (b)(6), (b)(7)(c) and Corporal (b)(3), (b)(6), (b)(7)(c) did everything they could to try to get the hydraulic system back. Once the water reached "bench seat high" level, and the engine shut off, the decision to evacuate the vehicle was made at the appropriate time. [FF (44)-(56), (58)-(60)]

14. Once the engine shut off, due to the distance remaining from the USS OAK HILL, the sea state, and a degraded front electric bilge pump, the sinking of 2A303 was inevitable. [FF (56), (59), (68), (95)-(97)]

15. The decision by 2A301 to tow 2A303 stern-to-stern was in accordance with the AAV Common SOP and demonstrated sound judgment. [FF (61)-(68)]

16. Sergeant (b)(3), (b)(6), (b)(7)(c) and Corporal (b)(3), (b)(6), (b)(7)(c) demonstrated courage and a dedication to mission above self in the second attempt to tow 2A303. In a very rough sea state, after successfully completing the troop transfer and rigging for tow, 2A303 became disconnected. Sergeant (b)(3), (b)(6), (b)(7)(c) placed himself at risk by jumping back over to the sinking AAV, and with the help of Corporal (b)(3), (b)(6), (b)(7)(c) re-rigged the vehicle for tow. These actions went above and beyond what should be expected, and demonstrated the level of dedication to get 2A303 to the ship. [FF (66), (67)]

17. Sergeant (b)(3), (b)(6), (b)(7)(c) being on the vehicle as a senior crewmember mitigated Corporal (b)(3), (b)(6), (b)(7)(c) not being designated in writing as the crew chief. The fact that Corporal (b)(3), (b)(6), (b)(7)(c) was not designated is not a causal factor, but it does speak to overall "ownership" questions regarding 2A303. A crew chief should be intimately familiar with all of the issues of the vehicle he/she is responsible. Without a formal designation letter, logbook transfer, and clearly stated responsibilities, there is a risk that important actions may be missed. [FF (3), (4), (10)]

18. The housing on the front electric bilge pump was missing a plug that over time caused a large amount of debris to cover the pump inlet. Evidence suggests that this debris had built up over time, which points to a lack of attention to detail on both regular maintenance practices and the overall process of the Limited Technical Inspection performed on 20 May 2019. This is not a causal factor, but it contributes to the degraded ability of 2A303 to evacuate water once the two hydraulic bilge pumps stopped functioning. [FF (14), (50), (85), (95)]

19. The gear adrift in 2A303 contributed to the engine shutting off earlier than it would have due to just the rising water level. Multiple items, including rope from the vehicle tarp, gortex trousers, and a pair of utility trousers, all contributed to the engine shutting

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off. The crew reasonably would have still evacuated on the same timeline because the engine shutting off corresponded with the trigger of water being at "bench seat high" level. The engine continuing to operate would have increased the time that the front electric bilge pump was able to operate, but nevertheless the water intake still would have exceeded the pumps ability to evacuate the water. Therefore, while it can reasonably be assumed that an operating front electric bilge pump would have increased the amount of time before 2A303 sank, there is insufficient data to determine by how much. [FF (56), (58), (59), (103-105)]

20. The definition for evacuation of an AAV is the orderly process of embarked personnel and possibly the crew getting off a slow sinking AAV. The main difference between evacuation and egress is the rate at which the AAV is sinking. The definition does not take into account variables such as which hatches can be used for egress, sea state, crew experience, etc. Due to the sea state and size of the crew, the crew made the correct decision to evacuate 2A303 through the troop commander hatch, turret hatch, and the drivers hatch. With water at "bench seat high" level and rising, and an engine that stopped operating, all crew and passenger exercised sound judgement by not sacrificing time or safety to grab serialized gear. [FF (3-7), (42-43), (56), (58), (60), (84)]

21. The engineering investigation team discovered that the leak occurred where the crossover tube connects to the Bilge Pump Bypass valve and the Plenum Solenoid valve. The fittings were found to be "finger loose", the Bilge Pump Bypass valve was missing two mounting bolts, and the Plenum Solenoid Valve was missing all mounting hardware. The evidence suggests that because of the rough sea state and the Plenum Solenoid Valve not being secured to the vehicle, the valve would have moved and vibrated to a degree that loosened the fittings and caused the leak. While it can be assumed that human error caused the lack in mounting hardware, it cannot be definitively stated. [FF (34), (41), (98-102)]

22. Multiple discrepancies in the management of GCSS by Sergeant (b)(3), (b)(6), (b)(7)(c) as the Platoon Maintenance Chief were discovered during this investigation. 2A303 should have been Non-Mission Capable (DEADLINED) administratively at the time of the mishap. When Sergeant (b)(3), (b)(6), (b)(7)(c) removed 2A303 from Non-Mission Capable status, he should have also made the necessary task note updates to reflect the actual status of the vehicle. It should be noted that while none of these discrepancies directly contributed to this mishap, they speak to the larger issue of maintenance management, quality control, and parts ordering practices in the Platoon and 2d AA Bn overall. [FF (107)-(111)]

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23. 2A303 was last IROANed in 2012. The baseline for IROAN is that a vehicle should come back to depot level maintenance based on a 6/6/6 model (i.e., 6 years, 600 hours, 6000 miles). This vehicle was given to the 26th MEU at 7 years since it was last at depot. This fact, combined with multiple known hull cracks, PQDR's, and conversations with the engineering investigation team, brings the decision by 2d AA Bn to give this vehicle to the 26th MEU in question. While the age of the vehicle, and the known hull cracks did not directly cause this mishap, it highlights the overall poor state of a vehicle that a high tempo Platoon is being tasked to manage as part of a MEU deployment and busy workup cycle. [FF (111)-(115)]

Recommendations

1. Convene an investigation into 2d AA Bn and their maintenance practices. Points of interest should include GCSS access and training at the maintainer level, manpower and parts ordering prior to the change of operational control (CHOP), Marine Corps Integrated Maintenance Management (MIMMs) clerk requirements, and vehicle allocation considerations.
2. Implement a change to the AAV Common SOP that would require that the rear splash team member visibly inspect the ramp seal and personnel hatch seal.
3. 2nd AA Bn implement a better mechanism to formally record the quality control checks performed on maintenance.
4. Implement a change to the Wet Well Manual to better describe the go/no-go criteria for the launch and recovery of AAVs. Recommended change would be to state Winds >17 knots vice the Winds 17-21 knots it currently uses.
5. Require that winds, current sea state, and expected sea state for the duration, be given by the US Navy with the approval to enter the water. Additionally, require that winds and sea state be requested by the Platoon Commander at each waypoint along the route.
6. Continue the practice of face-to-face briefings for all shore-to-ship and ship-to-shore movements with AAVs. If the plan changes drastically like it did in this case, recommend a thorough discussion between all key players.
7. Implement additional tasks to the pre-water operations checklist to include the cleaning of ramp and hatch seals, overall cleanliness of the vehicle, and the securing of loose gear.

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8. When a Platoon is sourced to a MEU or other outside unit, they should rate an additional MIMs clerk. The current Maintenance Management model for a BLT is not sufficient to keep up with the workload. This would allow the Maintenance Chief to focus more on maintenance and quality control vice administrative GCSS duties.

9. Implement a change to the AAV Common SOP to require all 4 bilge pumps be operational prior to entering the water. At a minimum, make this be a decision point at a higher level such as the Platoon Commander.

10. Make it a requirement that all maintainers have GCSS access and proper training to facilitate more efficient maintenance records management.

11. No punitive actions be taken against First Lieutenant ^{(b)(3), (b)(6),} or _{(b)(7)(c)} any members of his Platoon for actions related to the mishap. While human error was definitely a factor in the sinking of 2A303, there is insufficient evidence to place blame on a specific person.

12. In order to prevent something like this from reoccurring, I recommend that First Lieutenant ^{(b)(3), (b)(6),} lead a safety stand down for _{(b)(7)(c)} his Platoon. Additional recommended audience would be 2nd AA Bn leadership, Golf Company leadership, key players on the USS OAK HILL, Investigating Officer, and key players from BLT 2/8 and 26th MEU Operations.

(b)(3), (b)(6), (b)(7)(c)

[The investigative interview commenced on 1100, 15 April 2021.]

[WIT: (b)(3), (b)(6), (b)(7)(c)]

[IO: Col (b)(3), (b)(6), (b)(7)(c)]

[IO: Maj (b)(3), (b)(6), (b)(7)(c)]

[CR: SSgt (b)(3), (b)(6), (b)(7)(c)]

IO (Col (b)(3), (b)(6), (b)(7)(c)): Good morning. My name is Colonel (b)(3), (b)(6), (b)(7)(c) and I'm a part of a team reviewing the facts and circumstances surrounding the formation of the 15th MEU, and actions and decisions associated with material conditioning, training, and personal readiness thereof. This investigation is associated with the assault amphibious vehicle mishap that occurred off San Clemente Island on 30 July 2020.

We are not conducting a second investigation of the incident itself, but rather investigating from an institutional perspective to determine any changes that may be required or any actions that could or should have been implemented prior to the accident.

The Assistant Commandant of the Marine Corps, General Thomas, appointed Lieutenant General Mundy on 2 April 21 to conduct this investigation, which includes, among other things, interviewing personnel from different organizations with information relevant to the investigation.

The Staff Director of the Marine Corps, Major General Olson, appointed me to the investigative team on 8 April 21. And I am talking to you in my investigatory role as a representative of Lieutenant General Mundy and General Thomas. We are required to provide General Thomas with a written report upon the completion of our investigation. Here is the appointment letters and assignments. They're in front of you as well.

I am talking with you because the investigating team believes that you might have information that may be relevant to the investigation. It is important for us to understand the -- it is important for us to understand so please inform us of anything you believe should be considered in this review.

The topics that I would like to cover with you today may include the forming and compositing of the 15th MEU, training and material readiness surrounding the formation and compositing of the 15th MEU, and the I MEF oversight of the 15th MEU. And as we discussed earlier, really from the perspective of sort of the safety climate, the safety culture from the MEF, any observations that you've had with respect to the Division or any of the units within the Division, and also any sort of trends that you may have seen in the Division and MEF specifically.

So with that, can you state your name and your current

billet?

WIT: My name is (b)(3), (b)(6), (b)(7)(c) . I am the safety director for I MEF.

IO (Col (b)(3), (b)(6), (b)(7)(c)): And what was your billet on or before 30 July 2020?

WIT: It was the same, safety director for I MEF.

IO (Col (b)(3), (b)(6), (b)(7)(c)): Excellent. So can you -- as the safety director, can you just describe your role in the MEF and the implementation of safety within the MEF?

WIT: My role as safety director in the MEF is I advise and assist the Commanding General and implementation of ground aviation safety programs, as well as mishap investigations. Carrying those out and reporting of incidents and making our folks aware of what's going on.

IO (Col (b)(3), (b)(6), (b)(7)(c)): How do you sort of implement that implement safety from your ground and your ground safety role within the MEF itself?

WIT: I'm more of a big blue arrow type of a position. So how we implement that is I'm a conduit of information as well as we hold various meetings throughout the year, a quarterly safety counsel meetings, drive safe counsel meetings. We have a quarterly force preservation review board or we talk about the

CGs, but force preservation issues as well as safety stuff and other things that nature.

We have a part of the CGI program. So we go out and we inspect particular units on an annual basis. One year it's a CGP the next year it's a site assist visit for the units we look at within the MIG up here at the MEU or the MEF. And then for the MSC, we got every year and we do a command safety assessment where we actually -- not last year because it COVID, but we will actually go down and use the CGP checklist and review their status as well and their programs. And we do that every year on an annual basis.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): So if you could please just differentiate or describe the difference between what the safety programs that you look and say, a tactical safety specialist.

WIT: The difference between myself and tactical safety specialist, there are more where the rubber hits the road. They're actually out there at a site or with a unit on the daily practices of safety and program management. So making sure that if you've got people that need to be medical surveillance programs, making sure they're in the programs. Making sure that if there's reporting to be done, that reporting is done, followed up and forwarded on.

Actually, should be there on a daily basis with the units. And so they get to know what the practice operating practices are and things of that nature. And so that they can better reflect and disseminate, make aware of any type of concerns or issues for folks so that they can mitigate hazards, things that nature so that we don't either repeat them or have an incident occurred. Whereas I'm more -- right now, I'm drafting the MEF order. So I do more policy type things, if that makes sense for you. So I'm not out there to deal. I don't see things that I do know about, but I'm more of a conduit. I see how my MSC safety officers are doing and I ask something meaning from the MEF to support their needs. Because every unit below me, when -- they have their own safety program with their own commanders making decisions on risks and things of that nature. So I just try and make their jobs easier. I'll spoon feed them with products if I can.

We're always open for questions, which we do get on a frequent basis. And so, we're there in a support mode and in a big policy. Processes and procedures capability.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Define what is encompassed within your safety portfolio. So my example would be, does that include tactical safety in terms of certainly reporting ramp safety,

motorcycle safety. Those things I understand, but how far does it extend within a unit?

WIT: Within a unit or where I'm at the MEF.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): The MEF where you're at.

WIT: Yeah. So my officers myself, I'm a GS-13 and I have one other person, GS-12, the safety manager. So we don't actually go out on a daily basis to manage motorcycle programs or to do things that a unit safety officer is expected to do. So I don't think that that's more of what a unit safety officer, you know, collateral duty safety officer does. And then some units have a tactical safety specialist with them. It depends on who's been designated to have those personnel -- and those have been in, I believe, at Camp Pendleton. It's been area commanders have a tactical safety specialist.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): But all that information gets ideally reported to the MEF and you would see -- that you would see that information?

WIT: Ideally in one way, shape, or form. Ideally, it depends on the gravity or the seriousness that ankle biter somebody twisting a leg playing basketball in boots and utes, no. We don't see those, but we are we responsible to report Class A's and B's. Yes, because that either a fatality or permanent total

disability or a permanent partial disability or the other factors for a class B with costing and in no people. So those, yes, we are concerned about it because we have a responsibility to let MARFORPAC be aware and they'll will assign a mishap control number to make sure that we do a safety investigation report on those everything. But some are really you need to be aware of serious mishaps. So we need to actually make sure we follow up and we do submit something on those. So I don't get into the nitty gritty on things, not even what the MSB per say, because they've got their own safety officer who runs. So if I was to me.

But if anybody, any uniformed person in my shop was to get hurt, they don't come to me to report it in the system. They go to the AMA's B to report because we belong to the MSP for all that. So they've got their own say, just like EOTG has their own safety officer. So I don't really I'm not really like the, you know, the ground level safety officer. I'm more the administrative guy trying to get the word out and make sure the overall program is sound.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): So what happens -- so how would you describe your role with respect to receiving information and then promulgating information from a incident that happened outside of

in II MEF? How would that you could describe the flow of that safety investigation from II MEF that would make you aware of that and then how you would promulgate that?

WIT: Yes. There is a -- I would say there's a safety chain basically from the commandant safety division and then through MARFORPAC down to us. But safety information gets forwarded via emails strings, things that nature. If I was to get something via an email string, say that AAV mishap put me if a few years back if I was to get that I would not hold onto that. I've got my own little email string for all my safety folks, the MSC and all my local MSC safety folks. And that to me is an easy just out. I'd read it, put some comments in the email, attach whatever I need to attach and say, hey, here we go, we've got an incident going on over here. Just be aware of that and act accordingly type of thing.

So that's how I get the information out. And it's an informal process. But until lately, the safety division and the safety center have been pushing out formal products which have been very good to sanitized safety reports, sanitized lessons learned. And it's been about the last year or so at least. And those are very good products that whenever we get those I forward those out whenever a safety division is out their weekly updates

that has safety stuff in there, it has stats, it has mishaps that have occurred, lessons learned. I forward those out to my safety chain. I don't wait on those. And those all get forwarded out when I get when I received those.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): How would you characterize the -- I mean, would you then report say something as significant as AAV sinking on the east coast. Would you report that to MEF CG or the MEF leadership staff as well or is this just the flow of information through the safety?

WIT: If it was enough, I would probably give it to the chief of staff at a minimum, and my boss, the CG I will let him know as well. So we don't just say I something that's appropriate, I would definitely let the commander know. There was I -- simple something as simple as, hey, we had three or four of our wing units just got awarded the safety award for this. I let the chief of staff know that. So stuff like that I do forward up.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): And just out of curiosity. So in 2019, the AAV sank off the east coast in circumstances not too different from the circumstances of the vehicle that sank with the 15th MEU. So I'm just curious if that information found its way from II MEF safety division down to you. And was there any,

just out of curiosity, was there any anything you could share with respect to how that flowed?

WIT: I cannot on this case. I cannot recollect. But I was aware -- I think you're more for your CENTCOM folks mentioned something about that, but I don't recall anything being formally forwarded out or mentioned in the safety chain on that.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): How about any general just, you know -- are there any trends that you're aware of within the Division the MEF and really specifically AAV battalion that you may not because it you're at the meth level. But just out of curiosity, any trends that you think are relevant or worth sharing with the investigative team?

WIT: Safety trends. From what I've seen, I've been here for five years now and from what I have seen, the trends are usually the same. It's Marines -- nobody wants anybody to get hurt and want to really do everything as they've been trained. But Marines being Marines the most, the time we have somebody gets hurt. They're not falling checklist, SOP, TEEPs or what have you.

So it comes down at that time, critical risk manager phase where that decision is being made and they just either don't do a convoy brief, don't put their seatbelts on, or they

age or something just happens where they're just not following what they've been told to do. Safety is inherent in all your teams and everything. It's not like safety program. Safety is inherent. What we're supposed to be doing, how we're trained and all check. So that's what keeps us safe. But when you deviate from that and that's time and time again, a lot of our motor vehicle incidents are people speeding or not wearing gunners belt or not wearing seat belts out in town after hours. It's people speeding, drinking and driving, not wearing seat belts. On ranges and things like that. People not doing rehearsals or what have. So it's just we're hurting ourselves. A blue threat no kidding is us. We're just not following things we should be doing the way we've been taught and told to do.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Is there a culture of emphasizing that within the MEF that you can see or is it was that --

WIT: Everybody say -- to a T everyone's like we need to be doing things as we're taught. We know -- we even -- I think last year and a couple of our safety messages, we put the blue thread. I know safety Divisions got a monthly or quarterly newsletter that talks about the blue threat. We've talked about the blue threat a lot here. I think even maybe the messages take the policy letter has this that I've read it and he's scientist has

the blue thread in there.

So I think people are aware of the blue threat when you get the longer the tooth and the Marine Corps, you kind of figure things out and connect dots. But the young troops that get in. I don't know. You know, I think they hear it, but I don't know if it sticks. You know, it takes a while. So is it leadership? It's always leadership, but it's just we are hurting ourselves.

IO (Col (b)(3), (b)(6), (b)(7)_(c)): Shifting gears a little bit here, we'll use the 15th MEU sinking as an example of the question. With respect to the question, when I ask. When we sort of fully vet this entire event out and we sort of really, truly understand to your point, which is many in many cases, we just didn't do everything we supposed to do. When we sort of fully vet this out. And we have a very good defined set of lessons learned given the culture, the safety culture within the MEF, how would that get in there? Is there a specified way that we'd get communicated and sort of followed up on within the MEF or is it just -- again, it's the information down to the unit safety folks. And it's kind of and I'm really looking at from a leadership perspective, not necessarily you, but sort of how would the leadership accept that? And in your flow and lessons learned down and then how would that follow up look like?

WIT: Trying to figure if I understand complete. But I think if the results of this investigation were to come out and say X, Y and Z. From what I've seen from safety, everything's been pretty much accepted. It's been globbed on to. It's been okay. We need to be doing this type of thing. We don't want to repeat what we just had happened.

So it's not like there's a resident or, you know, people don't seem to stick in the mud. No, there's none of that. So at least from what I said at my level, I see commanders that are really, truly concerned, generally concerned about the well fare of their folks, whether suicides are safe or whatever it is.

So they're going to do whatever they can to prevent something in the future. They don't want this to happen again. And I've seen openness to do whatever is said. But that's just at my level. I'm not there on the ground floor amongst the battalions or what have you there. So I've seen a lot more senior folks that have been around the block, a little bit more up at the headquarters area who all get it.

So I think they all get it. So I'm more in a comfort zone, but I don't know how my folks below received some of this, but I haven't heard of any cases where somebody just totally flat out said we're not going to do that or things when it comes to

safety. So they get it. The issue that comes is that we have a -- I say taken out of a safety program. You know, we're collateral duty safety reps. And so you've have people that are at a unit doing their full time MLS and they get this collateral duty, which could be a full time job and they may have other collateral duties. And now we are asking them to double time or what have you.

There's a lot of nuances to the safety program and especially now with this new reporting system. It can be overwhelming. So that that's a little bit tenuous if you understand me. So, yes, to get worked up and down somebody, the poor safety director is trying to do whatever three or four jobs in and depending on personalities, dependent on what basically what you get from that person. Unless the CO is really -- I've had some COs that just don't care. I want a full time guy or gal in my position. That's fine. They have put two instead of one. I've seen that too. So there are some leadership issues there that come into play.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): So I want a recap kind of what you said. I think I understand --

WIT: Hope I answered your question?

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): It did. Thank you. So what I think I'm

hearing is the majority or the -- or most units within the MEF, and I'll say down to the battalion squadron level, operate with appointed safety officers. But it's part time. It tends to be part time, whereas you said that the better units tend to offer up somebody full time and maybe in some cases even --

WIT: As I said, they're collateral duties.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): See --

WIT: Collateral duty. So it's above and beyond what they're already doing. And I just have seen cases where commanders have had a full time person or they'll have -- usually the safety bill is stuck in S-4. So they'll have the S-4 O who is a second lieutenant and the S-4 chief will double duty for safety. And so that's a good thing.

And in the old days before this new order came out and I think October, it was a one year minimum billet. But the new order doesn't put a timeframe on there. So units that keep their safety folks in there longer, you start getting more money the longer they're in because they start understanding the nuances, the small details. They start connecting dots of the safety program and you get more bang for the buck.

IO (Col ^{(b)(3), (b)(6), (b)}_{(7)(c)}): The last thing -- well, I'm going to ask, Mike, if you have any questions, Major ^{(b)(3), (b)(6), (b)(7)(c)}, if you have any

questions.

IO (Maj ^{(b)(3), (b)(6), (b)(7)(c)}): The only question I had, sir, was: You mentioned about an informal communication network between you and the other safety representatives in the different MEFs, correct?

WIT: I do talk to II MEF quite a bit via email, sometimes III MEF. But the times zone shift there. And I just got the phone before I came here with MARFORPAC safety. So we do communicate.

IO (Maj ^{(b)(3), (b)(6), (b)(7)(c)}): But all very informal and kind of -- kind of you talk to him, but there is nothing that regulates that. You have to talk to him or pass on any information he passes to you.

WIT: No, nothing like that. Like some formal things, like we do have our quarterly safety counselors meetings, things of that nature. From my folks here, if you're talking to a team like that right now, safety division is having a phone con with all the safety managers right now. So they're talking. And I would be it's me sitting in on that, too. So that's the only formalized thing per say every once so while division will have a meeting when we all get together and we can we talk. We've had a couple of those since I've been here, but nothing with all of us together and a formal periodic basis. No.

IO (Maj ^{(b)(3), (b)(6), (b)(7)(c)}): Thank you, sir.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Only one last question. That is: At the time of the incident in July of 2020 how would you describe the safety culture of the MEF and is there anything of significance that you would care to share with us with respect to safety culture of the MEF of the time?

WIT: I had at that time, I think General Osterman was CG and being a MARSOC guy, whatever, he was totally on board with doing things properly, safely -- should even say safely. Doing things professionally. I think operational excellence is the word. And I think that's totally appropriate because if you're not professional about what you do, we're going to get people cutting corners, things of that nature.

So I had never I've never been pushed back. I'd never been rebuffed I'd never -- anything like that. From my perspective at the MEF when it came to safety. And then, like I said, because we have so many senior officers, we have a lot of colonels lieutenant colonels, people have been around the block. And kind of know the drill, which is great. And so they understand what they do. They understand safety isn't just they stick in the mud. That safety is basically a Q&A for professional -- for doing your job. But make sure that we're

just doing our thing as we should be doing.

So I've never felt like I was an outsider, although once you take off the uniform you are a little bit outside and it just happens to be the way it is. So even when I went and went to Native Fury with the command staff last year as the -- I'm not as a tactical safety specialist, but as a safety guy there, the installation couldn't support it for whatever reason. So I went and did that helped me foment relationships among the staff, those that I didn't know because we always have turnover. But the point was even there, I was accepted, helped. What can we do to help you make your job better and how, well, can do to make us more safe type of thing? So I have got no ill things to say about the MEF staff. I've been nothing but accepted and welcomed whatever I've done here.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Okay, that's all I have. Thank you very much. I appreciate it. Thank you.

[The investigative interview closed at 1123, 15 April 2021.]

I, Col ^{(b)(3), (b)(6), (b)(7)}_(c), attest that the preceding transcript is a true and accurate verbatim account of the interview of ^{(b)(3), (b)(6), (b)(7)(c)} held on 15 April 2021.

(b)(3), (b)(6), (b)(7)(c)

Col, USMC

[The investigative interview was called to order at 1300,
15 April 2021.]

[WIT: Col (b)(3), (b)(6), (b)(7)(c)]

[IO: Col (b)(3), (b)(6), (b)(7)(c)]

[IO: CW05 (b)(3), (b)(6), (b)(7)(c)]

[CR: GySgt (b)(3), (b)(6), (b)(7)(c)]

IO (Col (b)(3), (b)(6), (b)(7)(c))): Good afternoon. My name is Colonel (b)(3), (b)(6), (b)(7)(c), and I am a part of a team reviewing the facts and circumstances surrounding the formation of the 15th MEU and the actions and decisions associated with the material conditioning, training, and personnel readiness thereof.

This investigation is associated with the assault amphibious vehicle mishap that occurred off San Clemente Island on 30 July 2020. We are not conducting a second investigation of the incident itself, but rather investigating from an institutional perspective to determine any changes that may be required or any actions that could or should have been implemented prior to the accident.

The Assistant Commandant of the Marine Corps, General Thomas, appointed Lieutenant General Mundy on 2 April 21, to conduct this investigation, which includes, among other things, interviewing personnel from different organizations with

information that may be relevant to the investigation.

Again, this is where I would show you the copy of the convening order.

The Staff Director of the Marine Corps, Major General Olson, appointed me to the investigating team on 8 April 21, and I am talking to you in my investigatory capacity as a representative of Lieutenant General Mundy and General Thomas.

We are required to provide General Thomas with a written report upon the completion of our investigation. And this is where I'd show you a designation letter as a member of the team.

I am talking with you because the investigating team believes that you might have information that may be relevant to the investigation. It is important for us to understand, so please inform us of anything you believe we should be considering during this review.

For the record, this is a phone interview with Colonel (b)(3), (b)(6), (b)(7)(c). This is an administrative investigation; however, due to the sensitive nature of the ongoing review, we are asking personnel we talk to as a part of the investigation not to share anything we discuss with any other person.

The topics that I would like to cover with you today may include formation and compositing of the 15th MEU, training

and material readiness surrounding the formation and the compositing of the 15th MEU, and I MEF oversight for the 15th MEU.

So before we start, do you have any questions about my role or Chief Warrant Officer 5 ^{(b)(3), (b)(6), (b)(7)(c)}'s role in this investigation?

WIT: No questions.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Okay. With that, we'll start. Can you state your name, your rank, and your current billet -- or at the time that you were here.

WIT: Okay. So first name is ^{(b)(3), (b)(6), (b)(7)(c)}, last name is ^{(b)(3), (b)(6), (b)(7)(c)}, Colonel, United States Marine Corps retired. I was last the MEF Assistant Chief of Staff and G4 from 2018 until 2021.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Thank you. So as we start this discussion, my first question is: Can you describe the material readiness culture within I MEF during your tenure?

WIT: Yeah. I would tell you that the, you know, throughout all my tours in I MEF and I've got quite a few of them material readiness, you know, with the difference between professional and amateur as far as we were concerned. And one of the things that differentiated us from the other MEFs was, you know, from the commanding general down there was a focus on material readiness

as it related to two things. One, what was the residual readiness and the ability for the MEF to source contingency crisis response or OPLAN responses. And the second piece was focused on, you know, clearly what we did our GFM responsibilities. That fell into two buckets, special purpose MAGTF generation and MEU generation. I would tell you that, you know, material readiness was something that was discussed in a general forum, general officer forum that was done at the material readiness board, which was conducted when I first came back to I MEF in 2017 it was conducted monthly. And then after about a year of being back at I MEF starting in 2018, it went to a quarterly board. And I would tell you again, during those boards there was topical discussions oriented on, again, several of the key performance indicators, problem TAM control items that we were struggling to maintain readiness against, and then any areas that we needed the commanding general to focus both his attention, his resources, or is the decision making process.

I'll tell you, from the time that I took over the as the MEF G-4 to the time that I left, you know, through the diligent efforts of all of the maintenance officers and all the commanding generals throughout the MEF, we were able to maintain your readiness, you know, at or above 90 percent for the entire

time.

The material readiness was high, it was the focus know we focused the money that we put against it. We made sure that if we had to assume risk in material readiness accounts, it was not in the accounts that directly led to force generation readiness. And again, the MEU was always the priority for MEF material readiness. The rationale behind that was pretty simple. If you follow the logic, a special purpose MAGTF Marines fell in on equipment prepositioned in theater. UDP Marines fell on III MEF equipment already in theater. And so generating MEUs was what we focused on because that was our equipment going out and it was, you know, us making sure that what we set out was the most ready, most capable.

So kind of a long answer. But I would say that material readiness was extremely important to not only myself, but both the deputy commanding general who ran the UDP -- or excuse me, the MEU generation program for the MEF CG. Was extremely important to all three of the MSC CGs, and it was very important, obviously, to them MEF CG himself.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Okay, thank you. As a follow up to that, you discussed the MRBs went from about once a month to quarterly, but then you said, you know, your readiness rate you maintain

that at about 90 percent or above. The indication would be that there was no negative impact of going from once a month to a quarterly MRB. Is that a true statement?

WIT: Right. So, again, just to clarify, the material readiness board was the general officer level conversation about material readiness. You know, all of the board, cells, work groups led by the mature readiness branch, each of those commodity managers, that when weekly and, you know, the man sitting next to you is responsible for his participation and, you know, the engineer readiness board, for example.

So the discussions never stopped. What did stop on a monthly basis was bringing the CG and his MSC CGs into a room to talk about, you know, mature readiness things. That's what stopped. There was no drop off in focus. There was no drop off in readiness going to a quarterly.

Clearly the quarterly decision was made based on a couple different factors. One, when General Osterman took command from General Kaparada in 2018, we were doing monthly MRBs. And quite honestly, every month it was a struggle for me to put information in front him that was not either redundant or was not actionable. And so the recommendation was, hey, boss, let's not sit here and rehash the same old stuff. There's only

so many times you can say division readiness is at, you know, 93 percent. And, you know, this is the areas where we're struggling. And so that was the reason we went to quarterly vice a monthly general officer discussion. But the material readiness branch and the G-4 and all the commodity managers still discussed maintenance on a weekly basis. And I would tell you that there was a full time job and it was something we took very seriously.

As a result of that, I MEF readiness was, you know, I, I can say this because I came to I MEF from III MEF. I MEF's readiness was significantly higher than III MEF's readiness. And I would say that II MEF model as they were paying people to produce their readiness through contract and maintenance. We were not doing that. We stayed focused on it and there was no quarterly drop off because we just stopped doing monthly CG level briefs.

I0 (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Okay. Thank you.

I0 (CW05 ^{(b)(3), (b)(6), (b)(7)(c)}_(c)): Sir. ^{(b)(3), (b)(6), (b)(7)(c)} here. I've got a follow up with that. Is it safe to assume that if you weren't in front of the General quarterly with concerns there were opportunities through the DRRS brief to, like, emergent material readiness problems to be addressed?

WIT: Yeah, absolutely, ^{(b)(3), (b)(6), (b)(7)(c)}. And I'm glad you asked that

question because, you know, my old brain is struggling to remember. That was the other thing, too. So, you know, the battle rhythm for the CG to discuss readiness -- now we're talking MEF readiness and again, the focus of General Kaparada and then General Osterman's was, you know, the MEF's the ability to meet its tasks. And its tasks were to generate forces in support of SPMAGTAF, MEU crisis contingency, and then training for residual. Part of the DRRS brief for scorecards. Each one of those scorecards adds information in there from a training, from a material, from fiscal, and from a personnel readiness perspective.

So when we were talking to the boss monthly via the DRRS forum what we discovered was that a lot of that information that was being discussed at the monthly MRB was becoming redundant. So again, part of the decision was, hey, boss, we're gonna talk to you monthly about these particular things. And this was the meat and potatoes where we brief General Osterman about individual unit readiness. So we went to the, you know, the individual unit up on steps to deploy next. And we briefed him on the readiness from a personnel from a fiscal, from a material, from a training perspective during the DRRS. And I would also tell you that during the O&I brief, we also discussed

readiness of those units as that directly tied into what he was reporting to the MARFORPAC O&I slides.

So the General Osterman was getting briefed when we made the recommendation to go to one MRB a quarter. He was getting briefed on the same readiness probably four times a month, same information over and over again. My perspective as the G-4 was redundancy is something that we should look to eliminate because, you know, as a three star general responsible of 55,000 Marines and sailors operating in all the combat commands on a couple different continents, the last thing we want to do is waste this time.

So, yes, ^{(b)(3), (b)(6), (b)(7)(c)}, thanks for asking that follow up question.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Thank you. My next question sort of dovetails off your first couple of questions and that -- I think you've kind of hit on it already, but maybe just a little bit more clarity. How would you describe the relationship from the MEF G-4 with the MSC G-4 and specifically the division G-4.

WIT: Well, so I don't think I'll get myself in trouble in saying this, but I will say it. I'm a 1st Marine Division Marine. I served in that Division at every rank except for one. So what that means is my relationship with those G-4s was

extremely strong. I had a vested interest, obviously, in all the MSCs being successful. But being a blue diamond guy that was the area that I was most comfortable, most knowledgeable. And I spoke frequently with the Division G-4 as much as I spoke to the MLG G-3 who was my counterpart. Because, again, it was a logistics operation.

So a very strong relationship with 1st Marine Division. Again, the year before I was the MEF G-4 I was the Division G-4, so I understood very well what the responsibilities are to generate formations for. I understood the challenges that organization, you know, was experiencing in terms of equipment that. I would say that the strain on readiness 1st Marine Division was not Echo TAM'S. It certainly was not the AAV battalion, nor was it the tank battalion before we stood it down.

You know, having been the guy who ran the LRE program for General Smith when he was the Division CG, Delta track up in 29 Palms and 3rd Amphibious Assault Battalion. We're doing tremendous things from a material readiness perspective to keep, you know, a very aged piece of equipment, you know, operationally ready.

Good and strong relationship with 1st Marine Division, a really good relationship with 1st MLG, and then there wasn't a bad relationship with 3d MAW. But the reality is that the 3d MAW

aviation readiness was not something that I dealt with. And then the ground readiness stuff, you know, there's such a small equipment set over there that, you know, again, the relationship is good. Now, I tell you that anyone and everyone MEF that was in a G-4 billet were folks that I have known for probably my entire career. So (b)(3), (b)(6), (b)(7)(c) was at the MLG and he and I were second lieutenants together, (b)(3), (b)(6), (b)(7)(c) and I was at Division and I replaced him. The guy that replaced me, (b)(3), (b)(6), (b)(7)(c), him and I have known each other for the better part of a decade. And then (b)(3), (b)(6), (b)(7)(c), who came in after (b)(3), (b)(6), (b)(7)(c). I've known (b)(3), (b)(6), (b)(7)(c) since he was a captain and I was major.

So, you know, the logisticians at I MEF had a very unique relationship. We spoke weekly. We had quarterly logistics symposium where we would get together and talk about things. And I would tell you that I spoke to those guys all the time. Again, as the MEF 4 and as, at the time, the senior logistician in the MEF. Those guys came to me quite often for, again, advice, guidance, friendship, mentorship, you name it.

IO (Col (b)(3), (b)(6), (b)(7)(c))): Okay, thank you. Next question I'm going to ask is kind of centered around FSMAO and if you could sort of describe to me in just general terms. As units went through FSMAO how that got reported up to the MEF and then what

your relationship was with the MSCs in sort of reconciling the units that may not have performed very well on FSMAO.

WIT: Yeah. So the good news is that during the three years that I finished in I MEF our FSMAO scores were all trending positive. That's the good news. It wasn't that way a couple of years ago. We did FSMAO exactly the way the Marine Corps says we're supposed to do FSMAO. So the unit would get notified that they were getting FSMAO'd. They would stand their FSMAO. And if they were, you know, in an area where they were high risk to medium risk, they had to generate a corrective action plan. That corrective action plan -- once the CG at the MSC level reviewed it and approved it, it came to my office.

I reviewed every single one of those and endorsed those for the CG to then send it to headquarters Marine Corps. I announce the kind of report of what we found and what we were doing to fix it. And we brief FSMAO scores to General Osterman at the material readiness board. We brief trends, we brief high points, low points, and we discussed at nauseum the things that units were struggling with. And then what we did was we would meet with the FSMAO west OIC and his team of experts. And if there were areas that were, you know, trends across the MEF, we would get together, form a work group and

understand what the causative factors might be, what we can do to improve or mitigate some of those things, and then we would reinvest that back into each of the MSC LRE program.

So it was a living, pretty dynamic approach. But we followed the terms of reporting and discussing less than acceptable performance, exactly the way headquarters Marine Corps told us we had to do it. Again, like I said, every one of those corrective action plans came to me. It was tracked via DON Tracker. So that's how we knew when one was due from headquarters Marine Corps, you know, from us to headquarters Marine Corps.

And again, we would track those on the weekly chief of staff maintaining. The MEF Chief of staff would make sure that we were, you know, meeting the timely requirements. And then as far as, you know, briefing results and corrective action, again, that was handled through us generating a FSMAO report for the CG and that would go to the CG and he would review those and they would be sent to headquarters Marine Corps INL to close out the reporting on those.

IO (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Okay, thank you. On that note, how would you describe accountability for those units that may not have performed well in FSMAO or may not have adhered to their

corrective action plan or didn't improve. And maybe there wasn't any units that fell into that category. But just kind of curious what was sort of the culture of accountability for FSMAO units that didn't perform well or didn't sort of adhere to their get well plan?

WIT: So I think that's not a question for MEF G-4. That's a question for commanding general. Those are the third units we just reported. The fact as they, hey, look, you were low risk, medium risk, high risk in these particular areas. These are the causative factors that led to those scores. These are the things you need to do to address those scores. These are the resources available to help remediate, mitigate, and then potentially re-inspect. But as far as the accountability piece that's a commander thing. That's not a MEF G-4 thing.

So you would have to ask Castellvi, you would have to ask Sklenka, you would have to ask Shea, you would have to ask, you know, the MAW CGs to find out what they did to hold their commanders accountable if they didn't do well. I can tell you what it was when I was a regimental commander. If you tubed your FSMAO, it went in your Fitrep, and I think that came from General Neller when he was commandant, that he was sick and tired of commanders, you know, leaving with nice little medals, having

tubed their FSMAOs.

So I know that a white letter went out at around, I think, 2016 saying, hey, if you dork up your FSMAO, that's going on your Fitrep, commander. Now, I know for a fact that General Smith did that when he was the Division CG and I was the Division G-4 because there were many conversation between he and I where he would say, "(b)(3), (b)(6), (b)(7)", give me a read on this. Was this lack of care, lack of try, or other things?" as he was preparing his, you know, remarks. But once I transitioned out of the Division into the MEF G-4 job, I couldn't tell you what commanders were doing when they got poor FSMAO results.

IO (Col (b)(3), (b)(6), (b)(7))): Okay, thank you. That's fair. With respect to AAV, in general, did do you recall any sort of frequent or routine communication you had with LOGCOM or Marine Corps Systems Command about any specific AAV concerns?

WIT: No. Like I said, we did not -- there were not -- there wasn't any real AAV concerns in the three years that I was there. It was not highlighted as a, you know, a TAM that was struggling to maintain readiness. You know, again, I know that it took herculean efforts from folks down there at the track, not only school, but also the battalion to keep the, you know, the tuna boats working as well as they were.

You know, the issues that I spoke to headquarters Marine Corps about were not necessarily related to a AAV readiness.

Who is ready, you know, focused on AAV readiness enablers. Right. So facility issues, making sure that we, you know, we were able to get the proper power laid in to the track maintenance bay, to that the dynamiter was operational. It was about, you know, 8 AAV to transition and making sure that facility plans met the space and the, you know, the maintenance requirements. You know, even when I was at the Division for, you know, I cannot remember any issues where I needed to go to LOGCOM or headquarters Marine Corps to say, hey, we need assistance with this, this is troubling us. This is preventing us from being ready or as ready as we were supposed to. So no issues that I can recall.

I0 (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Okay. Thank you. Did op tempo have any impact on -- I mean, obviously, your recollection is a steady state high rate of material readiness, but did you see op tempo of having any at least putting material readiness at risk in any way? Just out of curiosity again.

WIT: For armor. Right. I mean I think what once you moved away from OIF and OEF deployments, the steady state became force generation of MEUs, SPMAGTF, and then forces down on the border,

which didn't include any tracks. I don't think op tempo -- what was a challenge was maintenance. I think the MEF was doing a very good job balancing the requirements that were levied on us against the normal day to day requirements of maintaining readiness. I don't think there was a problem with the op tempo.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Okay. How about any budgetary constraints that you saw that may have had an impact on material readiness and certainly specifically AAVs during your tenure?

WIT: Yeah, again, so more of the same. Did we have all the money we needed? Absolutely not. Did anybody have all the money they needed in the Marine Corps? Absolutely not. Right. But again, we focused and we made sure we focused our resources on the main effort. And the new generation was the MEF's main effort. It was briefed that way from, you know -- 2017 when I joined I MEF from III MEF. So the day I left the MEU was the most important day that the MEF was doing.

Again, it was our Marines and sailors, it's our pleasure meeting with combatant commanders acquirable. So, you know, did we have all the money that we needed? Absolutely not. Did it impact our ability to generate ready formations for MEUs? I don't believe so. The money was allocated to make sure that the MEU was the most ready formation that the MEF was generating

at any given time. Because that was the CG's priority.

Yes, we did not have enough money. (b)(3), (b)(6), (b)(7)(c) might be able to get that for you. We have a great slide. (b)(3), (b)(6), (b)(7)(c), I'm talking about the thermograph slide that shows those historically underfunded for material readiness so that we can do more with training readiness, and aviation readiness, and material readiness. You know, but the good news was every time I went to General Osterman question for additional resources it was the problem. He allocated the problem. I don't recall a frame of time where I go to him and say, hey, boss, I need more funding to keep AAVs at a higher state of readiness.

IO (CW05 (b)(3), (b)(6), (b)(7)(c))): Sir, you're breaking up a little bit. We got all that. But you're just a --

WIT: Can't hear you, (b)(3), (b)(6), (b)(7)(c) -

IO (CW05 (b)(3), (b)(6), (b)(7)(c))): You're breaking up a little.

WIT: I lost you, (b)(3), (b)(6), (b)(7)(c). Say again after we got all that. And then I heard nothing.

IO (CW05 (b)(3), (b)(6), (b)(7)(c))): I was just saying. We got all that you're saying. You were breaking up a little bit. So if you could --

WIT: That's cause it's raining here in Texas.

IO (Col ^{(b)(3), (b)(6), (b)(7)(c)}): We can hear you pretty good right at this moment so I think hopefully we'll be able to push through this here shortly.

So on that note of your MEUs being the priority, if you wouldn't mind for a second, just describing the process of forming and in compositing the 15th MEU or any MEU, what that process looked like from, you know, the unit level as it flowed up to the MEF in terms of, you know, material readiness, getting briefed up to you at your level. What did that process look like over the period of forming and compositing?

WIT: Yeah. So, you know, as I said, as it's always been the, you know, the MEU composite message goes out. It lists the plan of action, the milestones about a year out, all of the actions that have to happen across each of the warfighting functions. And again, just one point clarification, MEU readiness was not briefed to WOPCASH[sic]. MEU readiness was briefed to the deputy commanding general. He owned MEU generation. And so when we did MEU updates, they went to the deputy CG, not to me. Right. So that was his program. He ran it for the CG.

So, again, it's just this as it's always been, message goes out and says, these are the capabilities that need to be

generated across this timeline. It didn't look very dissimilar to when I was lieutenant. You know, we're talking about a BLT. You're talking about a composite Marine aviation unit. You're talking a CLB, you're talking a headquarters reinforced with some, you know, MIG stuff. And then within that BLT, you know, you've got your artillery, you've got your LAV's, you've got your tracks, you've got your engineers. And then the only discussion that ever took place during the few years that I was there was whether or not they were going to take tanks or not. And if not tanks, why? Then obviously, starting with (b)(3), (b)(6), (b)(7)(c) 's MEU there was lots of discussions about, you know, should we be laying in HIMARS for these MEUs.

So, you know, to the question I think you want to get to, how is maintenance material readiness tracked for tracks. Right. So, again, at the E-270 mark and before, during my time, that was General Castellvi's or General Smith's responsibility. They had to, you know, again, make sure that the AAV det that they were sourcing to the next MEU was meeting all of its requirements, that the T&R events were being knocked out, material readiness, the Det was being identified, key leadership, you know, yada, yada, yada.

So that was owned pre chop to the MSC. So the Division

CG owned that process. Again, I can tell you my time as a Division G-4, what we simply did was we took the forming directive from the MEF. We understood with the key dates were. We backward engineered our plan of action on the MEU staff. And typically two weeks before it was due to be briefed on the MEF, we were briefing Division CG. We would go in, it was led by the chief of staff and the G-3 at the Division. We would go in, we would brief the CG. He would then, you know, come up with his approved brief to the MEF deputy CG. And then, like I said, typically two weeks after that, we would be in front of the MEF CG or the DCG saying here's data readiness for the next units up.

Again, that was discussed at the O&I brief. That was discussed during DRRS. That was discussed during the MEU forming briefs. And again, I don't have the exact dates that every time there was a brief, but I could say, you know, memory serves me correct. Probably every other month there was some kind of a formal brief where we were briefing the DCG on the next MEU's state of readiness. As far as the material readiness piece, you know, the G-4 oversight obviously came in heavy during the LTI process. And that's the truth teller, right.

So if you want to go back and look to see, you know, where those tracks for the 15th MEU were material readiness wise,

I would point you to those LTI that took place between the Division and the MEU. When that occurred, that was the true teller as to what was the true readiness for those tracks. I would tell you that the MEF G-4's responsibility was to make sure that there was additional subject matter experts from the MLG there to help facilitate that LTI. You know, the MEF was there to, you know, to referee, so to speak, because you and I both know that one person's, you know, condition Code A and the guy who's receiving a condition Code charlie. And there's always that argument. It's not as good as you say, so on, and so, forth.

So we were there to be the truth teller from that. But that was, you know, a key moment in the formation of the MEU. Again, I'm speaking directly to the track issue, and so, you know, we were responsible to make sure that the LTI were done. They were done the standard. They were done correctly. But more importantly, we were there to make sure that the equipment that went to the 15th MEU was the most capable, ready, capability available to that particular unit.

Once that MEU was actually formed, they chopped and they started training as MEU. Our responsibility was to make sure that if there were problems with either parts flow or

problems with particular individual items, that we would be tasked to get replacement items, you know, from the MSC. And that was for any TAM you name it. If they were having a problem with a particular item, it was our responsibility to go get them a better piece of equipment to replace the one that they were struggling with.

Again, that process is very well spelled out in the LOI and the MEF order on it. And again, we followed that to the letter. And again we briefed the deputy CG on that.

And once they chop then obviously, you know, our role became supervisory at that point in terms of just monitoring the readiness. We didn't -- it wasn't our challenge to keep them ready, but obviously we paid attention to them because we had a vested interest in their success. Obviously we spoke Marine better than the, you know, the ARG spoke Marine and with PHIBRON staff. So we continued to monitor and pay attention to what their readiness was.

Again, during the MEF O&I briefs, you always had an opportunity for MEU commanders to bring back the MEF CG as to where they were at and what they were up to. And then the next time we typically heard a brief about their material readiness was on their, you know, their return home. Typically, there was

a brief visit, the three star board. I forget what the MEF calls it. I think it's in the three star board, but the Navy three star and the MEF CG would get briefs from the, you know, the Navy captain and the Marine colonel as they were coming back about, again, this is what we did on our deployment, these are some of the operational highlights, these are some challenges, this was our material readiness, this is our training readiness as we're coming back, so on, and so, forth.

So that's kind of a very quick down and dirty of how we made sure that, you know, what we sent forward was supposed to be the most ready, capable unit that the MEF could generate.

I0 (Col ^{(b)(3), (b)(6), (b)(7)(c)}): Okay. Thank you.

I0 (CW05 ^{(b)(3), (b)(6), (b)(7)(c)}): Sir, ^{(b)(3), (b)(6), (b)(7)(c)} here. So during the timeframe of the chop -- the composite of 15th MEU, April 2020, units of 3rd Tracks had just returned from Native Fury. We had southwest border operations going on. There are a bunch of things happening and then COVID was really the main effort. Can you talk about concerns from logistics and the compositing informing of the MEU during that specific timeframe with all those things, especially COVID happening and ROM requirements happening and all that?

WIT: I mean, from a material readiness perspective, I'm not

sure that there was an impact, ^{(b)(3), (b)(6), (b)(7)}_(c) . Right. Because if we weren't doing a whole lot of training and we were doing some turning of wrenches. I think the question is better asked to the operations side to find out, you know, was there any impact to the Marines ability to knock out their pre deployment training because of COVID and other things. Again, I'm -- nobody came to me and nor do I remember having a conversation with somebody saying, hey, we're in jeopardy of meeting our MEU generation requirements because of, again, COVID, southwest border or, you know, you name it, Native Fury. I'm not recalling any of those issues, ^{(b)(3), (b)(6), (b)(7)}_(c) .

I0 (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): And so, my last question is simply you described the process for forming and compositing the MEU and the, you know, the activities that the MEF used to sort of monitor and provide oversight through that process. Is there anything that sticks out to you with respect to the 15th MEU specifically?

WIT: Again, the only thing that really sticks out and that made it a memorable, you know, MEU formation was, again, what I talked about before. I think the recorder went on and that was, you know, the desire to start to do proof of concept for, you know, EABO stuff. There was lots of discussions about what to

take, what not to take, to make room for additional capabilities there was discussions about, you know, spending MEF money to go after the latest and greatest communication capabilities, you know, to allow the MEU to compete in some of the other domains. And that's all I'll say about that, because this is an unclass conversation. You know, there was conversations about what did the makeup and composition of the training need to be to get after, you know, the Commandant's demand that we start to do some EABO and AMB stuff.

So that was the only thing that was really unique from my chair about the formation of this MEU. There was a lot of focus on, you know, the Marine Corps' next stuff, that long range fires piece, that persistent stare, that shortening of your kill chain capability, making the MEU, you know, start to adjust a little bit to traditional, you know, BLT capable of going and doing it. You know, it's typical MEU METS to, hey, do we need to maybe make an adjustment to some of our METS and start including some of these things that, you know, smell like EABO, AMB, you know, things like that. That was the only thing that I recall that was unique about this particular MEU formation. Training as it was being discussed and it was being executed, you know, at the MEU headquarters level seemed to be oriented on those

particular tasks.

From my perspective and again, you're going to have to talk with the Ops guys, the 37 guys, because, you know, again, they own this for the DCG. But from my perspective, as I watch the request for ammo, for chow, for fuel, for things like that, it looks like the battalion, the BLT was executing a typical MEU work up as they were executing all of those events that they needed to go through certification. Again, the folks that I would hope and I know you're going to talk to or the, you know, the G-7 guys, because they're the ones that orchestrated all of those MEU specific certification events. And, you know, actually could probably talk if there was any, you know, uniqueness with what the BLT was.

But, again, that's the only thing peculiar that I remember about that MEU generation was there was an awful lot of discussion not to be a distraction. I think it was all within the spirit and intent of where the Commandant wanted us to go with understanding, you know, what can the MEU do to start, you know, validating some of these headquarters Marine Corps level concepts.

So, you know, if you're asking me, did I think anything that they were doing took away from the normal work up and did

anything that they were doing distract them or overwhelm them or make them have to, you know, accept risk in another area. I can't speculate on that. And I wouldn't speculate on that. I could tell you that, you know, it was an exciting time in the MEF.

We were focused on a lot of things that were all, I think, important. But, you know, I would tell you that I've known a lot of CGs in my time. General Osterman was the most laser focused on being brilliant in the basics since a guy named Mattis.

I mean, that man was thinking two or three levels above all of us at all times. You know, he paid attention to, I think, what was most important. And I go back to where I started and that was making sure that the MEU was the most ready, had the best equipment it could have, the most resources, the most opportunities to train. And again, was focused on meeting its combatant command requirements. That, you know, that was that's the only thing I can tell you that I saw with the 15th MEU.

I'm sitting here trying to remember. And again, if I had access to my headquarters Marine Corps computer, I could tell you if there were topical issues that were of concern with the 15th MEU. I don't remember any of them being focused on, again, you know, track readiness, track concerns. Again, it was the typical thing that caused a MEU a challenge. No one can keep

their and MTRV record in a high state of readiness. I mean, that was an issue that we chased all the time. But, you know, again, nothing really jumped out in my mind on 15th MEU formation.

I0 (Col ^{(b)(3), (b)(6), (b)(7)}_(c)): Okay. Thank you. That's my last question. I'll ask Chief Warrant Officer 5 ^{(b)(3), (b)(6), (b)(7)(c)} if he has any additional questions.

I0 (CW05 ^{(b)(3), (b)(6), (b)(7)(c)}): Yes, sir. Just about the training. So that the next log seminars that were conducted, did the MEF G-4 kind of head those up, was that a MEF internal thing that was provided to all deploying units to include MEUs?

WIT: Yeah. So next log seminars, is something that was, you know, I would say the term we use is it was sponsored by the MEF G-4. And what we did was we went throughout the entire enterprise to get subject matter experts across as many topics that we could facilitate a discussion that they could be confronted with. So, you know, ^{(b)(3), (b)(6), (b)(7)(c)} came down we had the logistic support centers for the Navy type classes. You know, obviously we taught from classes on some particular things. We had best practices, conversations with former MEU staff members. It was a forum designed to, you know, help logisticians not only conceptualize but, you know, practically execute their roles and responsibilities and support of a MEU. You know, I've sat

through, I think, almost the day, full day of that particular seminar, because one of the things that Colonel Bronzi asked me to do was to talk to them about the Pacific theater, because it was the first time that the MEU was going into the Pacific and staying in the Pacific.

So again, what were some of the peculiarities with working with the logistics centers in the Pacific? What was it like working in an AO like that? Staying blue and haze gray and underway. You know, what it was like doing some of the exercises, things like that. What were some of the challenges?

Again, from a logistics perspective, you know, every time I poked my face in to see how it was going, you know, there was Chris Bronzi sitting there with his staff. So he was definitely focused on, you know, logistics. You know, he was paying attention. And I think we talked about the right things in those seminars. I don't think we were off, you know, too far into the theoretical in those, because at the end of the day, you know, we don't have the luxury of a lot of deep, you know, thinking. We are a results oriented, you know, commodity. And if we didn't meet the requirements per the initiating directive, you know, I was standing in front of a three star explaining why a particular capability or commodity was not ready for the MEU.

So, yeah, I mean, next log seminars were good. And it wasn't just, you know, it wasn't just the, you know, the Navy down at the Third Street participated as well. So again, pretty -- I thought to this seminar was actually a pretty good one. You might have a different perspective, ^{(b)(3), (b)(6), (b)(7)(c)}, but I thought that it was actually a pretty good one.

I0 (CW05 ^{(b)(3), (b)(6), (b)(7)(c)}): Thank you, sir. That's all I got.

I0 (Col ^{(b)(3), (b)(6), (b)(7)(c)}): That's it. I'm going to turn the microphone off now real quick.

[The Investigative Interview recessed at 1349, 15 April 2021.]

I, Col ^{(b)(3), (b)(6), (b)(7)(c)}, attest that the preceding transcript is a true and accurate verbatim account of the interview of Col ^{(b)(3), (b)(6), (b)(7)(c)} held on 15 April 2021.

(b)(3), (b)(6), (b)(7)(c)

Col, USMC

DATE: 20200414

SERVICE REQUEST: 29940556

SET SERIAL: 523519

TAMN: E08467K NSN: 235-01-458-7410

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

LAST PMCS DATE: 20200318

(b)(3), (b)(6), (b)(7)(c)

CONDITION CODE: A

LTI BY PRINT/SIGN: AL

DATE: 2020 04/14

ENCLOSURE (47)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION		
MODEL (CIRCLE ONE)		REFERENCES
<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1		TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3-11-01		MILES 1225
U.S.M.C. NO. 523519		HOURS 272
HULL NO. RAM-Y-009		
ENGINE NO. 37222121		
TRANSMISSION NO. 2004225		
SS6T (b)(3), (b)(6), (b)(7)(c) LCpl (b)(3), (b)(6), (b)(7)(c)		IE/RANK/SIGNATURE DATE INSPECTED
		20700414
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.		

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							Slight Bare Metal
2. Towing Eyes (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					Needs Paint Job
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Tracks (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Has Rust
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Has Rust
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.			✓					Needs Paint
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Foorman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.			✓					Small Crack / Needs Weldshop
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspiration. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballside cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators.								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE	✓							
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.			✓					Broken Safety Wire
30. Fuel Filler.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (all). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag ①
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓					✓		
d. Compartment.	✓							
Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.					✓			Fwd Bottom (M)
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					Driver's Station dome light inop
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.					✓			wing nut seized
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						
d. Seal	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					seized
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station.								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7.1b). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.						✓		
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							missing one screw
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					Frozen
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						No Tag
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.						✓		Ⓜ Pins
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2390
d. TACNAV Indicator. Check that system powers and display works.						✓		Connection ⊕
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Exterior Dome Lights.			✓					Drivers Station - White Light ⊕
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS), AAVP7A1
 LIMITED TECHNICAL INSPECTION

TAC No. 3-11-01 USMC No. 523519 Miles 1225 Hours 272
 (b)(3), (b)(6), (b)(7)(c)
 Date Inspected 20200414 Inspector LCpl SSC

*See Table C-1 for UGWS Deadline C.....

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.		✓						2 B/lts
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (97)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					(M) 2 Bolts / Loose
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.		✓	✓		✓			Ⓜ 1 Bolt/Loose
15. Elevation Control Assembly. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					Smoke Grenade Light (I)
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.			✓					Gunner
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.			✓					Switch (I)
4. Weapons Station System - Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test - Refer to TM 11-5820-1172-13								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCIN	NOMEN	NSN	SERIAL	QTY	Sl:3 Complete (Y/N)	S/N	Sl:3 Status	PRICE EACH	TOTAL	REMARKS
E08467X	ANTENNA ELEMENT Protective Cap Included: PN A3207487-1 CAGE 80063; c/o	5985-01-376-7934	53519	2	N	29916748	A	\$96.43	\$72.85	
E08467X	2-CAP Protective Dust And Moisture Seal: PN A3207525-1 CAGE 80063	5340-01-381-5666	53519	2	N	29916748	A	\$13.19	\$6.38	
E08467X	WIRE ROPE ASSEMBLY Single 1/8: PN A3207523-1 CAGE 80063	4010-01-351-1571	53519	2	N	29916748	A	\$9.91	\$18.62	
E08467X	STRAP Webbing: 16 in. lg; PN 8690464 CAGE 19207	5340-00-565-7579	53519	14	N	29916748	A	\$2.89	\$40.46	
E08467X	STRAP Webbing: 30 in. lg; PN 8690471 CAGE 19204	5340-00-753-3742	53519	15	N	29916748	A	\$1.51	\$22.65	
E08467X	STRAP Webbing: 36 in. lg; PN 8690475 CAGE 19207	5340-00-753-3744	53519	9	N	29916748	A	\$2.18	\$19.62	
E08467X	STRAP Webbing: 42 in. lg; PN 8690481 CAGE 19207	5340-00-339-3768	53519	1	N	29916748	A	\$16.41	\$16.41	
E08467X	STRAP Webbing: 60 in. lg; PN 8690481 CAGE 19207	5340-00-958-6917	53519	1	N	29916748	A	\$6.23	\$12.46	
E08467X	STRAP Webbing: 72 in. lg; PN 8690484 CAGE 19207	5340-00-949-6637	53519	6	N	29916748	A	\$6.96	\$41.76	
E08467X	STRAP Webbing: 76 in. lg; PN 8690485 CAGE 19207	5340-00-479-2947	53519	1	N	29916748	A	\$5.84	\$5.84	
E08467X	STRAP Webbing: 84 in. lg; PN 8690487 CAGE 19207	5340-00-884-9542	53519	2	N	29916748	A	\$6.78	\$13.56	
E08467X	STRAP Webbing: 88 in. lg; PN 8690487 CAGE 19207	5340-00-182-8631	53519	1	N	29916748	A	\$6.15	\$6.15	
E08467X	STRAP Webbing: 100 in. lg; PN 8690487 CAGE 19207	5340-01-078-3808	53519	1	N	29916748	A	\$3.09	\$3.09	
E08467X	BATT: 0.3 lb; PN 8107-410 CAGE 05047	5120-01-355-1064	53519	1	N	29916748	A	\$9.95	\$9.95	
E08467X	BATTERY Nonrechargeable: 1.5 v. "C" cell; for flashlight: PN 144 CAGE 80204	6135-00-985-7846	53519	8	N	29916748	A	\$6.31	\$50.48	
E08467X	BATTERY Nonrechargeable: 1.5 v. "D" cell; for flashlight: PN 18A CAGE 80204	6135-00-885-7210	53519	4	N	29916748	A	\$9.00	\$36.00	
E08467X	DRIFT PIN, Track: PN 2950157-1 CAGE 80064	2950-01-075-8282	53519	1	N	29916748	A	\$98.54	\$98.54	
E08467X	GOOGLES Industrial: PN 40661-00000-70 CAGE 76381	4240-01-083-5996	53519	1	N	29916748	A	\$18.37	\$18.37	
E08467X	HOIST Wire Rope: PN 4000-20 CAGE 98601	3950-01-071-1746	53519	1	N	29916748	A	\$265.46	\$265.46	
E08467X	1-LAMP Incandescent: 2C-2V filament; 28w; 166 bulb; 1.438 in. lg; PN A52463 A09 CAGE 58536	5120-00-221-1536	53519	1	N	29916748	A	\$5.11	\$5.11	
E08467X	LUBRICATING GUN, Hand: PN 1142 CAGE 1P157	6240-00-019-1093	53519	1	N	29916748	A	\$0.34	\$0.34	
E08467X	OILER Hand: PN A50477-AS-D-D CAGE 58536	4930-00-253-3478	53519	1	N	29916748	A	\$11.67	\$11.67	
E08467X	PADLOCK: PN A-A-59497-1BC CAGE 58536	4930-00-263-3868	53519	1	N	29916748	A	\$6.47	\$6.47	
E08467X	RULE, Machinist's: PN 5210-00-234-5224 CAGE 80244	5120-00-234-5224	53519	1	N	29916748	A	\$7.83	\$7.83	
E08467X	SPOTLIGHT: PN 7010268 CAGE 0MLM6; c/o	6220-01-466-3602	53519	1	N	29916748	A	\$20.36	\$20.36	
E08467X	SOCKET, Socket Wrench: 15/16 in., 3/4 dr; PN LD1802 CAGE 55719	5120-01-378-4933	53519	1	N	29916748	A	\$31.25	\$31.25	
E08467X	1-ROLL Tools And Accessories: PN 5112-567 CAGE 82141	5140-00-106-3671	53519	1	N	29916748	A	\$16.90	\$16.90	
E08467X	1-EXTENSION, Socket Wrench: 7/2 in. dr; 10.000 in. lg; PN 12-924 CAGE 85600	5120-00-227-8074	53519	1	N	29916748	A	\$10.64	\$10.64	
E08467X	1-HANDIE, Socket Wrench: 1/2 in. dr; 10.000 in. lg; PN 12-924 CAGE 85600	5120-00-227-8074	53519	1	N	29916748	A	\$4.57	\$4.57	
E08467X	1-SOCKET, Socket Wrench: 15/16 in. dr; 1.000 in. lg; PN 12-924 CAGE 85600	5120-00-227-8074	53519	1	N	29916748	A	\$13.27	\$13.27	
E08467X	WRENCH, Box: 3/8 in. dr; 7/16 in. dr; 1.000 in. lg; PN 12-924 CAGE 85600	5120-00-240-1414	53519	1	N	29916748	A	\$2.64	\$2.64	
E08467X	WRENCH, Adjustable: 18 in. lg; 2.062 in. dr; 1.000 in. lg; PN 12-924 CAGE 85600	5120-01-349-1383	53519	1	N	29916748	A	\$65.11	\$65.11	
E08467X	ANTENNA ELEMENT Protective Cap Included: PN A3207487-1 CAGE 80063; c/o	5985-01-376-7934	53519	2	N	29916748	A	\$9.50	\$9.50	
E08467X	WIRE ROPE ASSEMBLY Single 1/8: PN A3207523-1 CAGE 80063	4010-01-351-1571	53519	2	N	29916748	A	\$9.91	\$18.62	
E08467X	KEY, Socket Head Screw: 5/32; 0.156 in.; PN AW50 CAGE 55719	5120-01-428-7911	53519	1	N	29916748	A	\$1.37	\$1.37	
E08467X	KEY, Socket Head Screw: 3/8; 0.375 in.; PN AW50 CAGE 55719	5120-01-428-7911	53519	1	N	29916748	A	\$1.37	\$1.37	
E08467X	STRAP Webbing: 30 in. lg; PN 8690471 CAGE 19204	5340-00-753-3742	53519	2	N	29916748	A	\$1.51	\$3.02	
E08467X	STRAP Webbing: 36 in. lg; PN 8690475 CAGE 19207	5340-00-753-3744	53519	4	N	29916748	A	\$2.18	\$8.72	
E08467X	STRAP Webbing: 42 in. lg; PN 8690481 CAGE 19207	5340-00-339-3768	53519	2	N	29916748	A	\$1.41	\$2.82	
E08467X	STRAP Webbing: 60 in. lg; PN 8690481 CAGE 19207	5340-00-958-6917	53519	9	N	29916748	A	\$6.23	\$56.07	
E08467X	STRAP Webbing: 84 in. lg; PN 8690487 CAGE 19207	5340-00-884-9542	53519	8	N	29916748	A	\$6.78	\$54.24	
E08467X	STRAP Webbing: 114 in. lg; PN 8690494 CAGE 19207	5340-00-134-3196	53519	1	N	29916748	A	\$3.56	\$3.56	
									\$1,972.87	

ENCLOSURE (47)

DATE: 2/20/13

SERVICE REQUEST: 29916532

SET SERIAL: 523445

TAMN: E08467K NSN: 2950-01-458-7410

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20200318

COMMENTS:

CONDITION CODE: F (WATER OPS)
(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: SSGT

LTI BY PRINT/SIGN:

DATE: 20200413

ENCLOSURE (48)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <u>AAVP7A1</u> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. <u>3-11-04</u>	MILES <u>1195</u>
U.S.M.C. NO. <u>523445</u>	HOURS <u>252</u>
HULL NO. <u>RAM-Y-003</u>	
ENGINE NO. <u>37720808</u>	
TRANSMISSION NO. <u>A5082E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE	
<u>LCol</u> (b)(3), (b)(6), (b)(7)(c)	<u>SSGT</u> (b)(3), (b)(6), (b)(7)(c)
DATE INSPECTED <u>0208413</u>	
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Track (Para. 7-7) Use track wear page to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							(M) 5
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 ⑥			✓					Contaminated
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.								
1 2 3 4 5 6	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard (Para 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode (Para 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing (Para 9-18) Check for signs of leaks.	✓							
24. Drive Shaft (Para 9-17) Check for signs of damage.	✓							
25. Footman Loop (Para) Check for weld cracks.	✓							
26. Port Handrails (Para) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover (Para) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap (Para)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 ② ③ 4 5 6	✓							Slightly Cracked
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)		✓						2 steps
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille								
NOTE: Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check radiator cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓		✓					Rusty - Sealed
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.									
a. Guard.		✓							
b. Shroud.		✓							
c. Fan.		✓							
d. Bearings.		✓							
e. Belt Adjustment.		✓							
f. Seals.		✓							
g. Fan Cartridge Bearing.		✓							
h. Drain Tube.		✓							
5. Surge Tank.									
a. Tank.		✓							
b. Valve.		✓							
c. Hose and Tubes.		✓							
d. Mounting Hardware.		✓							
6. Crew Ventilation.									
a. Ducts, Clamps, and Hoses.		✓							
b. Drain Tube.		✓							
7. Control Linkages.									
a. Brake Linkage.		✓							
b. Steering Linkage.		✓							
c. Throttle Linkage.		✓							
d. Brake Flood Control Valve Linkage.		✓							
NOTE									
Make sure flood valve spindle moves freely.									
e. Engine Compartment Exhaust Fan Linkage.		✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.		✓							
9. Electrical Wiring and Connections.									
a. Bulk Head Connectors.		✓							
b. Power Plant Wiring.		✓							
c. Crew Vent Fan.		✓							
d. Electrical Bilge Pump.		✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.		✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.			✓					safety wire
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓		✓					excess oil
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.	✓							
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.	✓							
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.	✓							
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓		✓	✓				
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓		✓					Hydro leak from Pump handle
b. Mounting Hardware.	✓							
c. Oil Level.			✓					Empty
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (all). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag (M)
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector/Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.				✓				

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station.								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and look for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.					✓			
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Br/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (18)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS)								
<p align="center">NOTE</p> <p>At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						No Tag
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.			✓					Horn (I)
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check: With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine, RPM.	✓							2400
d. TACNAV Indicator. Check that system powers and display works.					✓			
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					Hydro System WOP
2. Check if hydraulic bilge pumps operation.			✓					
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.			✓					Hydro System INSP
5. Bow Plane Operation:								
a. Control Valve. Check for proper operation and leaks.			✓					Hydro System WOP
b. Bow Plane. Check that it fully extends and retracts.			✓					
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-04 USMC No. 523445 Miles 1195 Hours 252
 Date Inspected 20200413 Inspector LCpl SSgt
 (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓	✓						(M) 2 Bolts
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (48)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope.								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

ENCLOSURE (48)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.		✓						Switch is (M)
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.			✓					A lot of Rust
23. Hatch.								
a. Seal, Hatch. Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.						✓		1 Rubber Cap Bipped (U)
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (48)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCN	NOIEM	NSN	SERIAL#	QTY	SL-3 Complete (Y/N)	SR	SR Status	PRICE EACH	TOTAL
E08467K	2 - CAP, Protective, Dust And Moisture Seal: PN A3207525-1 CAGE 80063	5340-01-381-5666	523445	4	N	29916532	A	\$13.19	\$52.76
E08467K	SHACKLE: Anchor 1-3/8 in. Pin, 21T; PN 12328579 CAGE 19207	4030-01-187-0964	523445	1	N	29916532	A	\$34.37	\$34.37
E08467K	LUBRICATING GUN, Hand: PN 1142 CAGE IPL57	4930-00-253-2478	523445	1	N	29916532	A	\$11.67	\$11.67
E08467K	PADLOCK: PN A-59487-18C CAGE 58536	5340-00-682-1508	523445	1	N	29916532	A	\$7.83	\$7.83
E08467K	WRENCH, Adjustable; 18 in. lg. 2.062 wt surf.; PN B1078 CAGE 05047	5120-00-240-1414	523445	1	N	29916532	A	\$65.11	\$65.11
TOTAL:									\$171.74

DATE: 20200414

SERVICE REQUEST: 29843974

SET SERIAL: 523195

NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-5 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20200325

COMMENTS: DRIFT PIN, QTY 1, 01-075-8292, HOIST WIRE ROPE, QTY 1, 01-071-1746
 OILER HAND, QTY 1, 00-262-8868, SCREW DRIVER, FLAT TIP, QTY 1, 00-222-8852.

(b)(3), (b)(6), (b)(7)(c)
LTI BY PRINT/SIGN: SSGT


CONDITION CODE: A

(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: COL

DATE: 20200414

ENCLOSURE (49)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION		
MODEL (CIRCLE ONE)		REFERENCES
<div style="text-align: center;">  AAVP7A1 AAVC7A1 AAVR7A1 </div>		TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3-11-10	MILES 1213	
U.S.M.C. NO. 523195	HOURS 258	
HULL NO. BAM-A-003		
ENGINE NO. 37191043		
TRANSMISSION NO. A14221E		
INSPECTOR (b)(3), (b)(6), (b)(7)(c)		SIGNATURE
CPI		Sgt (b)(3), (b)(6), (b)(7)(c)
		DATE INSPECTED
		20200417
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.		

Needs MNT RUN

ENCLOSURE (49)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							Revised
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Track (Para. 7-7) Use track wear page to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.			✓					(17) inner pads
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.			✓					tension a little low
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (44)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.	✓							
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.	✓							
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.	✓							
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							does not rotate freely
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.	✓							
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

ENCLOSURE (59)

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (419)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and filter screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.			✓					Torsion Bar Cap (M)
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

ENCLOSURE (49)

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.									
a. Guard.		✓							
b. Shroud.		✓							
c. Fan.		✓							
d. Bearings.		✓							
e. Belt Adjustment.		✓							
f. Seals.		✓							
g. Fan Cartridge Bearing.		✓							
h. Drain Tube.		✓							
5. Surge Tank.									
a. Tank.		✓							
b. Valve.		✓							
c. Hose and Tubes.		✓							
d. Mounting Hardware.		✓							
6. Crew Ventilation.									
a. Ducts, Clamps, and Hoses.		✓							
b. Drain Tube.		✓							
7. Control Linkages.									
a. Brake Linkage.		✓							
b. Steering Linkage.		✓							
c. Throttle Linkage.		✓							
d. Brake Flood Control Valve Linkage.		✓							
NOTE		✓							
Make sure flood valve spindle moves freely.									
e. Engine Compartment Exhaust Fan Linkage.		✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.				✓					A Lot of Rust
9. Electrical Wiring and Connections.									
a. Bulk Head Connectors.		✓							
b. Power Plant Wiring.		✓							
c. Crew Vent Fan.		✓							
d. Electrical Bilge Pump.		✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.		✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.			✓					Paint Covering Reading
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (all). Check all flange crews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.			✓					Doesn't stop twisting
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag M
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.		✓	✓					missing securing pins
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.		✓						
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓					1		
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. APSSS Electrical Components								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			✓					Bleeder valve seized
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
52. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						
d. Seal	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					Handle seized/Broken
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓		✓					Top stack ^{hardware} uninstal
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7-lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.			✓					leaking at handle

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.								
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.			✓					water temp inop
<p align="center">NOTE</p> <p>Bar scales and warning lights will be checked during the operational portion of preinduction.</p>								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent-Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					missing pin
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓		with					needs PM
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS)								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.			✓					
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check - With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine RPM.	✓							2500 needs mnt run
d. TACNAV Indicator. Check that system powers and display works.					✓			1.00p
4. Lights - Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

idle sound bad

ENCLOSURE (49)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet-drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-10 USMC No. 523195 Miles 1213 Hour 958
 Date Inspected 20200414 Inspector SGT (b)(3), (b)(6), (b)(7)(c) CPL
 (Rank/Signature)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection	✓							
a. Seat belt secure, latch working properly, belt in good condition.						✓		
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (19)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓				✓			electrical lead corroded
4. M36P TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.			✓					moist in sight head
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							some scratches missing eye-piece
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.						✓		ground to sight cable is ripped.
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							strap (m)
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.		✓						
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		Torn/Worn
24. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

ENCLOSURE (94)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.			✓					Stays on, when when switch is off. switch magnetizes
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet								
a. Check condition and security.	✓							Needs PM
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.					✓			electrical connectors pins are in op on small plug
15. Elevation Control Assembly. Check for security and condition.	✓							Needs PM

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.		✓						1 cap
4. Entrance Window. Inspect condition and security. Look for signs of moisture.			✓					moisture
5. Sight Cover. Inspect condition and security.			✓					Doesn't go down
6. 40mm Manifold Cover. Check for security and condition. Check operation of latches.	✓	✓						Needs PM
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.		✓						Polarity doesn't change
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.		✓						Doesn't turn off

ENCLOSURE (44)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.		NA	✓					Wiring cable to inhibit switch is cut
6. DAGR Operational Test. Refer to TM 11-5820-11/2-13								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TANDEM	NOMEN	MSN	SERIAL#	QTY	U.I. Complete (Y/N)	S/N	SR Status	PRICE EACH	TOTAL	REMARKS
608467K	2 - CAP, Protective, Dust And Moisture Seal: PN A307525-1, CAGE 80063	5340-01-3815666	523195	4	N	29916452	A	\$19.19	\$52.76	
608467K	BAR, P/T: 0.3 lb; PN B107-410 CAGE 05047	5120-01-3552064	523195	1	N	29916452	A	\$9.95	\$9.95	
608467K	DRIET PIN, Trade: PN 2590157-1, CAGE 80064	2530-01-0758292	523195	1	N	29916452	A	\$98.54	\$98.54	
608467K	HAMMER, Hand: Shaper: 8 lb wgt, 32 in. Lr: PN B107-400 CAGE 05047	5120-00-2657462	523195	1	N	29916452	A	\$24.48	\$24.48	
608467K	HOIST, Wire Rope: PN A000-20 CAGE 93601	3999-01-0717146	523195	1	N	29916452	A	\$265.46	\$265.46	
608467K	KINE, Pulley: PN 5120-00-221-558 CAGE 90244	5120-00-221-558	523195	1	N	29916452	A	\$5.11	\$5.11	
608467K	LUBRICATING GUN, Hand: PN 1142 CAGE 11557	4930-00-2552478	523195	1	N	29916452	A	\$11.67	\$11.67	
608467K	MEASURE, Liquid: PN 07472 CAGE ANSU7	7240-00-2558113	523195	1	N	29916452	A	\$40.01	\$40.01	
608467K	OLIER, Hand: PN A50477 A5-D CAGE 58536	4930-00-2628868	523195	1	N	29916452	A	\$6.47	\$6.47	
608467K	SCREWDRIVER, Fla. Tip: 0.250 in. Width: PN 66-441 CAGE 63600	5120-00-2728852	523195	1	N	29916452	A	\$2.67	\$2.67	
608467K	SOCKET, Socket Wrench: 1 1/8 in. 3/4 dr: PN LD1362 CAGE 59719	5120-00-2491697	523195	1	N	29916452	A	\$15.90	\$15.90	
608467K	1 - EXTENSION, Socket Wrench: 1/2 in. dr: 2.000 in. Lr: PN 523A27 CAGE 39428	5120-00-2491697	523195	1	N	29916452	A	\$6.43	\$6.43	
608467K	1 - EXTENSION, Socket Wrench: 1/2 in. dr: 2.000 in. Lr: PN 0053401 CAGE 60484	5120-00-2491697	523195	1	N	29916452	A	\$6.72	\$6.72	
608467K	1 - EXTENSION, Socket Wrench: 1/2 in. dr: 2.000 in. Lr: PN 0053401 CAGE 60484	5120-01-3491383	523195	1	N	29916452	A	\$9.50	\$9.50	
608467K	WRENCH, Box: 5/8 in. wt surf: 3/4 in. wt surf: offset: 12 pt wt surf: PN A5954 CAGE 81343	5120-00-2243138	523195	1	N	29916452	A	\$6.59	\$6.59	
	TOTAL							\$563.26		

ENCLOSURE (47)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	CABLE ASSEMBLY, SPEC	01-449-1701	523195	1	R	29843974	SHT PART	\$457.14	
E08467K	NUT, PLAIN, HEXAGON	00-903-5966	523195	20	R	29843974	SHT PART	\$186.20	
E08467K	RING, RETAINING	01-102-3533	523195	1	R	29843974	SHT PART	\$0.43	
E08467K	COVER, ACCESS	01-341-3248	523195	1	R	29843974	SHT PART	\$3.49	
E08467K	O-RING	00-579-7918	523195	1	R	29843974	SHT PART	\$0.57	
E08467K	PIN, COTTER	00-842-3044	523195	8	R	29843974	SHT PART	\$157.92	
E08467K	WASHER, FLAT	00-809-4061	523195	4	R	29843974	SHT PART	\$23.48	
E08467K	SPRING, HELICAL	00-158-0301	523195	4	R	29843974	SHT PART	\$13.64	
E08467K	PIN, STRAIGHT, HEAD	00-165-8365	523195	4	R	29843974	SHT PART	\$8.68	
E08467K	BEARING, SLEEVE	00-981-3136	523195	16	R	29843974	SHT PART	\$20.48	

ENCLOSURE 49

DATE: 25200415

SERVICE REQUEST: 29871696

SET SERIAL: 522499

TAMN: E08467K NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: YES NO

LAST PMCS DATE: 20200214

COMMENTS:

CONDITION CODE: A

(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: CPL

DATE: 20200415

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="text-align: center;"> AAVP7A1 AAVC7A1 AAVR7A1 </div>	REFERENCES <div style="display: flex; justify-content: space-between;"> <div>TM 09674A-25&P/4</div> <div>TM 8F152B-25&P</div> </div> <div style="display: flex; justify-content: space-between;"> <div>TM 07267B-50</div> <div>TM 07268B-25&P/2</div> </div>
TAC NO. 3H607	MILES 2793
U.S.M.C. NO. 522499	HOURS 536
HULL NO. RAM-A-330	
ENGINE NO. 37196664	
TRANSMISSION NO. B0145E	
INSPECTOR'S NAME/RANK/SIGNATURE CPL (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED 20200415
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.						✓		wire cut
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)		✓						(M) 1 plate below TC hatch, 1 loose plate near driver hatch
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					loose bolt forward rear
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.			✓					
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable. ① 2 3 4 5 6			✓					Torsion bar cap missing
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.			✓					Loose support arm, no cap
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.			✓					① 1 bolt on fwd final slap guard
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.						✓		Major pitting on machined surface
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)					✓			② chain

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.					✓			Broken cap screw
b. Outlet Adapter.					✓			
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights	✓							
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.			✓					(M) snap rings
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Rust on machined surface
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock			✓					lower cap is mangled
b. No. 2 Shock	✓							
c. No. 3 Shock					✓			Failed bushing at support arm connection
d. No. 4 Shock			✓					UPPER mount loose no cap, loose lower cap mounting bolt
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)	✓							
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
30. Starboard Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)					✓			2 snapped bolts
33. Starboard Bilge Pump Outlets. (Para. 8-46)								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.						✓		could be snapped
36. Starboard Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.					✓			hook latch
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks. (Para. 8-50).	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)			✓					1 plate from below turret
b. Steps. (Para. 16-29)			✓					by 2 steps
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)	✗							
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.			✓					by 2 stop screws
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)					✓			COVER pin missing spring, washer, cotter pin.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.			✓					(V) 2 mounting bolts
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.					✓			(P) receptacle cover & chain
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	✗		✓					ground wire cut
b. Torsion Bar.	✗		✓					low torsion
c. Latches (open and closed).	✓							
d. Seals and Pads.						✓		pads destroyed
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)						✓		periscope cracked
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.						✓		damaged
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.			✓					11 bolts, 1 plate & 1 nut & washer
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.	✓							
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					4 bolts
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓	✓						(M) belt guard
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.		✓						
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.			✓					eyelet bolt loose
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE Make sure flood valve spindle moves freely.	✓							
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.		✓						@ bilge tube port
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓		✓					Oil cloudy
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.		✓						Oil bilge tube

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.			✓					Bellows tube wrap fasteners rotten off Y-collector studrd clamp cracked
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.					✓			Safety wire not installed correctly
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.						✓		Bottom right is Bent and splitting
b. Aft Center.			✓					(M) 3 bolts
c. Aft Lower.						✓		Bottom right Broken
d. Port Upper.	✓		✓					no rubber seal
e. Port Lower.			✓					rubber seal falling off
f. Smoke Generation.		✓						Door is missing from panel
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.		✓						
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.			✓					(M) 12 bolts
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.	✓							
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.					✓			stuck missing hinge pins
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.		✓						AS APT door
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port			✓					Ⓜ bolts
b. Starboard.			✓					Ⓜ bolts
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.					✓			Aft dome light swap
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.			✓					10 bolts
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓	✓						Fluorocarbon cover
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. _____	✓							
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.	✓							
a. Mounts.	✓							
b. Exhaust System and Cover.					✓			Cover snapped off
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.	✓							
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓		✓					hatch stuck
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.	✓							
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.			✓					Ramp will not raise

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.			✓					
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.				✓				need adjustment
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.	✓							
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓		✓					Vent fan is being on without track running.
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.	✓							
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.			✓					2 6/175
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.					✓			cover and chain
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.			✓					linkage binds
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					Frozen
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2500
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.			✓					Int dome light in op
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test/Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					loose
b. Electrical connector tight and in good condition.	✓							
4. M36E TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that pin or shunter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shunter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting bracket.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.			✓					inop
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.			✓					needs clamp
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.		✓						(M) cover
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security condition and leakage. Make sure that electrical connectors are tight and in good condition.			✓					Electrical traverse inop
15. Elevation Control Assembly. Check for security and condition.	✓							

ENCLOSURE (50)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.			✓					inop
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.			✓					inop
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.			✓					not mounted
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.			✓					1 cracked
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.		✓						Ⓜ
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.			✓					
b. Check for security and condition.			✓					

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mangle Cover. Check for security and condition. Check operation of latches.		✓						(M)
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Demolition Lights in both blue and white switch positions.	✓							
Utility Light. Light on turret and turret.			✓					inop
Thermal Filter. Check for correct operation. Check for correct operation.	✓							
c. Spot Light. Install and check operation.	✓							
d. Exhaust Blower. Check operation.			✓					inop

ENCLOSURE (50)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test.								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓				✓			trigger inop
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.					✓			trigger inop
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.					✓			trigger inop
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Thwart power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCN	NOMEN	NSN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	PINTLE ASSEMBLY, TOW	01-193-2117	522499	1	R	29871696	SHT PART	\$1,255.41	
E08467K	O-RING	00-580-4394	522499	1	R	29871696	SHT PART	\$0.26	
E08467K	O-RING	00-641-3407	522499	1	R	29871696	SHT PART	\$0.35	
E08467K	WASHER, KEY	00-162-0386	522499	1	R	29871696	SHT PART	\$4.22	
E08467K	NUT, PLAIN, HEXAGON	00-761-6872	522499	1	R	29871696	SHT PART	\$15.85	
E08467K	BATTERY, STORAGE	01-485-1472	522499	2	R	29871696	SHT PART	\$731.78	
E08467K	CABLE ASSEMBLY, R	01-226-2442	522499	6	R	29871696	SHT PART	\$285.00	
E08467K	CABLE ASSEMBLY, R	01-301-0834	522499	6	R	29871696	SHT PART	\$318.84	
E08467K	COLLET, SPECIAL	01-435-8079	522499	10	R	29871696	SHT PART	\$41.60	

ENCLOSURE (50)

LIMITED TECHNICAL INSPECTION

DATE: 20200413

PURPOSE OF LTI: JLT

RESPONSIBLE UNIT: 3D AABN

NOMENCLATURE: AAV P7A1

SERVICE REQUEST: 29940796

SET SERIAL: 522-768

TAMN: E08467K NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: YES/NO

LAST PMCS DATE: 20200318

COMMENTS: 116HT EXTENSION, QTY 1, 00-086-4293, FIXTURE ASSEMBLY, QTY 1,
00-7083799, SPOUT CAN FLEXIBLE, QTY 1, 00-177-6154

CONDITION CODE: A (b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

BY PRINT/SIGN

DATE: 20200413

ENCLOSURE (51)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM 8F152B-25&P
AAVC7A1	TM 07267B-50
AAVR7A1	TM 07268B-25&P/2
TAC NO. 3-11-05	MILES 360
U.S.M.C. NO. 522768	HOURS 1643
HULL NO. RAM-V-358	
ENGINE NO. 37221347	
TRANSMISSION NO. 2004233	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
<u>Cpl</u> (b)(3), (b)(6), (b)(7)(c)	<u>1 SSgt</u> (b)(3), (b)(6), (b)(7)(c)
	<u>20200314</u>
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					Ⓜ 2 bolts
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓		✓					45° rounded, 90° needs repair
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Tracks (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.								
1 2 3 4 5 6	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.				✓				rustee
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.				✓				
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop (Para.) Check for weld cracks.	✓							
26. Port Handrails (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE LOCATION								Remarks MUST be included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	2							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Stap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.			✓					45° rounded
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.		✓						(M) 7 bolts
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Exhauster. Check that valve is closing properly and that exhaust is clean and not damaged. (Para. 8-18)	✓							
5. Exhaustor Exhausting. Check that exhaust is clean and not damaged. (Para. 8-18)	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators.								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.								Pads damaged.
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan:								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.						✓		Belt luffered. @ Belt guard
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
NOTE								
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.								
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.			✓					not connected to bilge tube
10. Hydraulic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.								
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.			✓					not connected to bilge pump

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								In Engine
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
Turbocharger Drive Chain. Check for adjusters and other damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	/							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	/							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	/							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	/							
11. Generator	/							
a. Bracket and Hardware.	/							
b. Pulley and Belt.	/							
c. Adjustment.	/							
d. Voltage Regulator	/							
12. Water Pump. Check for leaks.	/							
a. Pump.	/							
b. Hoses and Tubes.	/							
c. Belt and Adjustment.			/	/				long
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	/							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	/							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	/							
16. Hydraulic Reservoir	/							
a. Oil Leaks.	/							
b. Mounting Hardware.	/							
c. Oil Level.	/							
d. Dipstick for damage.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (afts). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	/							
b. Aft Center.	/							
c. Aft Lower.	/							
d. Port Upper.	/							
e. Port Lower.	/							
f. Smoke Generation.	/							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	/							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	/							
b. Control Valve.	/							
c. Clamps.	/							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	/							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	/							
6. Air Cleaner Compartment.								
a. Access Door.	/							
b. Retaining Brackets.	/							
c. Element.	/							
d. Compartment.	/							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	/							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	/							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper fitting parts.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	/							
b. External Fuel Tank Drain.	/							
c. Fuel Lines and Fittings.	/							
d. Manual Shutoff Valve.	/							
11. Fuel Tank.								
a. Electrical Leads.	/							
b. Leaks.	/							
c. Retaining Straps.	/							
d. Breather Cap.	/							
12. Troop Seats.								
a. Hinges.	/							
b. Supports.	/							
c. Seat Pans.	/							
d. Cushions.	/							
e. Safety Belts/Straps.	/							
f. Adjusting Rods.	/							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	/							
b. Rifle Brackets.	/							
c. Water Can Supports.	/							
d. Seat Stowage Supports.	/							
e. DVE Container.	/							
f. Portable Fire Extinguisher Bracket.	/							
g. Pamphlet Stowage Rack.	/							
h. Ammo Box Bracket.	/							
i. Hand Oiler Bracket.	/							
j. Tool Box Stowage Support.	/							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	/							
b. Holddowns.	/							
c. Cables and Terminals.	/							
d. Battery and Terminal Posts.	/							
e. Battery Box Drains.	/							
f. Battery Instruction Plate.	/							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	/							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	/							Ⓜ Bolts
b. Starboard.	/							
18. Water Jet System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	/							
b. Water-Jet Deflector Servo Module (port and starboard).	/							
c. Water-Jet Deflector Solenoid Module (port and starboard).	/			/				
d. Actuator Cylinders Port and Starboard.	/							
e. Actuator Bracket Port and Starboard.	/							
19. AFSSS Electrical Components								
a. Sensors Control Box.	/							
b. Cables.	/							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	/							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	/							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	/							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	/							
b. Vision Block Cover.	/							
c. Skid Bars	/							
d. Quick-Release (Visual Only).	/							
e. Tow Pintle Release.	/							
25. Deck Plates								
a. Deck Plates (port and starboard).	/							
b. Center Deck Plate.	/							
c. Contact Cooler Bleeder Valve Access Cover.	/							
d. Bilge Pump Access Cover (port and starboard).	/							
e. Tiedown Rings.	/							
NOTE Remove troop compartment deck plates before continuing.			16					FREE Spins
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			/					FREE Spins
27. Torsion Bars. Check torsion bars for damage.	/							
28. Ramp Cylinder and Cable.	/							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	/							
b. Outlet tube.	/							
30. Electric Bilge Pump.								
a. Electric Pump.	/							
b. Outlet Tube.	/							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	/							
b. Discharge Tubs and Nozzles.	/							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	/							
b. Discharge Tub and Seal.	/							
c. Tag Date.	/							
d. Seal	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station.								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.	✓							
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	/							
b. Lamp Test/Warning Cancel Switch.	/							
c. Horn Button.	/							
d. Panel Lights Brt/Dim Switch.	/							
e. Cold Start Switch.	/							
f. Starter Button.	/							
g. Light Switch.	/							
h. TACNAV Indicator.	/							
i. Tachometer.	/							
j. Speedometer.	/							
k. Smoke Generation Indicator Light.	/							
l. Smoke Generation Switch.	/							
m. Forward Electric Bilge Pump Switch.	/							
n. Aft Electric Bilge Pump Switch.	/							
o. Aft Electric Bilge Pump Indicator Light.	/							
p. Forward Electric Bilge Pump Indicator Light.	/							
q. Aft Hydraulic Bilge Pump Indicator Light.	/							
r. Forward Hydraulic Bilge Pump Indicator Light.	/							
s. Ventilation Switch.	/							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	/							
<p style="text-align: center;">NOTE</p> <p>Bar scales and warning lights will be checked during the operational portion of preinduction.</p>								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	/							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	/							
b. Commander's Outlet.	/							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	/							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	/							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	/							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	/							
25. Searchlight Switch. Check for damage and operation.	/							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	/							
27. Data Plates. Check for damage.	/							Dirty
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	/							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	/		/					Bracket @ Rust
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	/							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	/							
32. Fire Extinguishers (MFSS and AFSSS)								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	/							
b. Discharge Tube and Seal.	/							
c. Tag Date.	/							
d. Seal.	/							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle (check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM	✓							2800
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light	✓							
f. Park	✓							
g. Searchlight	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewport Enhancer (DVE). Check that power system works.	✗		✓					Speed adapter not connected
6. Lamp Test Warning Circuit System. Check and signal with proper driver behavior.	✓							

ENCLOSURE (51)

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P:2 for LII of UGWS Unique Items.
 See TM 07267B-25&P:4 for LII of AAVR7A1 Unique Items.
 See TM 07268B-25&P:2 for LII of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS), AAVP7A1
 LIMITED TECHNICAL INSPECTION

TAC No. 3-11-05 USMC No. 927768 Miles 360 Hours 1643
 (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)
 Date Inspected 2020 04 13 Inspector CPL SSGT
 (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.	✓							
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.	✓							
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection	✓							
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.	✓							
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.	✓							
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36R TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Manillet								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch. Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		1WOP
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.	✓							
b. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior.								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers.								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests.								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.					✓			WHITE IN SP
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	/							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	/							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	/							
4. Weapons Station System: Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	/							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	/							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	/							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	/							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		/						
b. Check that DAGR is using vehicle power.		/						
c. Check that DAGR is using remote antenna.		/						
d. Check functioning of DAGR screen back lighting.		/						

522499					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
2	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
3	13784933	SOCKET,SOCKET WRENC	1	\$31.25	\$31.25
4	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
5	1776154	SPOUT,CAN,FLEXIBLE	1	\$11.65	\$11.65
6	2289503	WRENCH,BOX AND OPEN	1	\$2.15	\$2.15
7	2289505	WRENCH,BOX AND OPEN	1	\$4.26	\$4.26
8	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
9	2289516	WRENCH,BOX AND OPEN	1	\$17.43	\$17.43
10	2306385	HANDLE,SOCKET WRENC	1	\$37.69	\$37.69
11	1897924	SOCKET,SOCKET WRENC	1	\$4.29	\$4.29
12	1897985	SOCKET,SOCKET WRENC	1	\$4.55	\$4.55
13	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
14	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
15	2243154	WRENCH,BOX	1	\$13.79	\$13.79
16	2243138	WRENCH,BOX	1	\$13.75	\$13.75
17	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
18	2271406	FLAG,SIGNAL	1	\$3.21	\$3.21
19	11870964	SHACKLE	4	\$36.08	\$144.32
20	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
21	13552064	BAR,PRY	1	\$9.95	\$9.95
22	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
23	11740968	BRUSH,WIRE,SCRATCH	1	\$4.52	\$4.52
24	11955355	BRUSH,WIRE,SCRATCH	1	\$1.80	\$1.80
25	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
26	13551899	DRIVE HEAD,SOCKET W	1	\$35.24	\$35.24
27	13786054	EXTENSION,SOCKET WR	1	\$6.90	\$6.90
28	9266001	FLAG,SIGNAL	1	\$25.41	\$25.41
29	14863431	FLASHLIGHT	1	\$97.99	\$97.99
30	2648261	FLASHLIGHT	1	\$10.40	\$10.40
31	13785361	HANDLE,EXTENSION,WR	1	\$48.31	\$48.31
32	10711746	HOIST,WIRE ROPE	1	\$269.39	\$269.39
33	2211536	KNIFE,PUTTY	1	\$5.11	\$5.11
34	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
35	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
36	2432395	MATTOCK	1	\$13.71	\$13.71
37	2558113	MEASURE,LIQUID	1	\$45.40	\$45.40
38	2628868	OILER,HAND	1	\$6.96	\$6.96
39	6821508	PADLOCK	1	\$7.18	\$7.18
40	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
41	13351318	RATCHET HEAD,SOCKET	1	\$134.05	\$134.05
42	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
43	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
44	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
44					\$1,408.67

ENCLOSURE (51)

MFB 3120.9A

LIMITED TECHNICAL INSPECTION

DATE: 2020 0414

PURPOSE OF LTR: *SLT*

SERVICE REQUEST: 29747720

RESPONSIBLE UNIT: 3D AADN

SET SERIAL: 521 100

NOMENCLATURE: AAV P7A1

TAMM: E08467K NSN: 2380-01-457-1410

NOMENCLATURE	NIIN / P/N	SERIAL	QTY	DEF CODE	REMARKS
ENGINE	01-463-8066	37185166	1	U	2150 RPM
TRANSMISSION	01-472-3051	A5152E	1	S	

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-8 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20200219

COMMENTS:

CONDITION CODE: F

LT BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

(b)(3), (b)(6), (b)(7)(c)
 _____ LTI BY PRINT/SIGN:

DATE: 20200414

ENCLOSURE (54)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3HG05	MILES 516
U.S.M.C. NO. 523100	HOURS 2864
HULL NO. RAM-Y-180	
ENGINE NO. 37185166	
TRANSMISSION NO. A5152E	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
LCPL (b)(3), (b)(6), (b)(7)(c) SSGT (b)(3), (b)(6), (b)(7)(c)	20200916
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.				✓				
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.						✓		CONNECTOR BROKEN
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.			✓					TIGHTEN CASE NUT
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.		✓						
b. Retainer Chain.	✓	✓						
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.			✓					NEEDS RM
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	/							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	/							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)	/							
a. Track Shoes.	/							
b. Track Pads.	/							
c. Track Pins.	/							
d. Track Wear.	/							
e. Track Adjustment.	/							
28. Starboard Sprocket Rings. (Para. 7-16)	/							
a. Inner.	/							
b. Outer.	/							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	/							
30. Starboard Final Drive. (Para. 7-18)	/							
a. Outer Housing.	/							
b. Bolts.	/							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	/							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)	/							
33. Starboard Bilge Pump Outlets. (Para. 8-46)	/							
a. Hydraulic Pump Outlet.	/							
b. Electric Pump Outlet.	/							
34. Stowage Brackets. Check for weld cracks.	/							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	/							
36. Starboard Cargo Hatch Supports. (Para. 8-26)	/							
a. Forward Support.	/							
b. Aft Support.	/							
c. Hand Rails.	/							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)	✓							
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.			✓					(M) 3 BOLTS
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					LOOSE BOLTS
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.		✓						
b. Hydraulic Hoses.		✓						
3. Cam Roller Lock. Check condition of each latch roller.	✓							

ENCLOSURE (52)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.		✓						
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.		✓						
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
<p align="center">NOTE</p> <p>Make sure flood valve spindle moves freely.</p>								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.			✓					KNOCKING NOISE
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.			✓					QUICK DISCON LEAKING
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.			✓					KNOCKING NOISE

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	/							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	/							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	/							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	/							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	/							
30. Fuel Filter.								
a. Fuel Leaks.	/							
b. Drain Cock/Contamination.	/							
c. Electrical Leads/Transducer.	/							
d. Mounting Hardware/Air Valve.	/							
31. Power Takeoff Unit.								
a. Oil Leaks.	/							
b. Mounting Hardware.	/							
c. Electrical leads/Connections.	/							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	/							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	/							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.			✓					LEAK
b. PT Pump.	✓							
c. Exhaust Manifold (port side).			✓					LEAK
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

ENCLOSURE (52)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.			✓					INSULATION LOOSE
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator			✓					IMPROPERLY MOUNTED
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.			✓					QUICK DISCON LEAKS
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.			✓					Ⓟ STOPPER
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.			✓					AFT PUMP DOESN'T SHUT OFF
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port			✓					ON INSTALL
b. Starboard.	✓							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).			✓					
c. Water-Jet Deflector Solenoid Module (port and starboard).			✓					T STBD NOT MOUNTED
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.								
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					AFS (1) BULBS NEED REPLACE
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			✓					BLEEDER VALVE SEIZED
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.			✓					CLAMPS NEED TIGHTENING
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. _____		✓						
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					BROKEN HANDLE
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.			✓					NOT MOUNTED
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.			✓					LOOSE
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.	✓							UNREADABLE
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.			✓					DISCON TAPLES
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.			✓					DISCON CABLES
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.			✓					WATER TEMP INOP
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.			✓					(M) PANEL COVER
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.		✓						
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					CUSHION (M) NEEDS PM
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					CUSHION TURN
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.			✓					cable cut
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).			✓					END RATTLES
f. Panel Lights (brt/dim):	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.			✓					2150 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.			✓					1 NOP
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.					✓			REINDDOME (NOP BULBS) NEED REPLA
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test/Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (32)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.								DOESN'T REACH 4TH GEAR LOCKOUT
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.			✓					DOESN'T REACH 4TH GEAR LOCKOUT
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					NO HYDRO/LEAK
2. Check if hydraulic bilge pumps operation.			✓					↓
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.			✓					JET DRIVE OPERATES INLAND
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.			✓					NO HYDRO/LEAK
b. Bow Plane. Check that it fully extends and retracts.			✓					↓
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					↓

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS) AAVP7A1
 LIMITED TECHNICAL INSPECTION

LAT No 34605 USMC No 523100 Miles 516 Hours 2864
 Inspected 20200414 Inspector LCpl (b)(3), (b)(6), (b)(7)(c)
SSGT

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connector tight and in good condition.	✓							
b. Upper portion of 12 channel slip ring secure & freely.	✓							
c. Manual and electrical weapons will not operate.	✓							
3. Power Entry Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connector tight and in good condition.	✓							
4. Basket Inspection								
a. Clear left side of basket & ensure properly bolted in good condition.	✓							
b. No wires found in or overhanging basket.	✓							
c. No loose connections in all areas.	✓							
5. Weapons Electrical Inspector								
6. Torso Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
7. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					M 2 JB-5 / 1 0056
b. Electrical connector tight and in good condition.	✓							
4. M36E TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.		✓						Connector (M)
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shunter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shunter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting bars are.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓					✓		
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.			✓					Uninstalled
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.			✓					Uninstalled
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box doors and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. 50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.		✓	✓					Ⓜ 1 Bolt / Loose
15. Elevation Control Assembly. Check for security and condition.		✓						Ⓜ / Not Installed

ENCLOSURE (5)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.		✓						(M)
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.			✓					(I)
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.		✓						(M)
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch Hinges. Inspect for damage, loose hardware and proper operation.		✓						Seal (M)
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		Pad (I)
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Muzzle Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.			✓					Transverse Mech Loose
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.		✓	✓					No Elevation Mech
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					Sight Power Light ①
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓	✓						No Utility Light
d. Thermal Elbow. Check Only. Ensure the nut shows, all range and all controls work.			✓					Sight Can't Turn On
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (5)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Low Ammo System Test.								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.		✓						
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.		✓						Gunner Switch
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.		✓						(M)
4. Weapons Station System. Perform test as prescribed in Section 5.								
a. Manual Elevation. Check operation.		✓						
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.		✓						Elevation Mech (M)
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

523100					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	11870964	SHACKLE	1	\$36.08	\$36.08
2	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
3	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
4	2633873	BRUSH,PAINT	1	\$1.56	\$1.56
5	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
6	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
7	2211536	KNIFE,PUTTY	1	\$5.11	\$5.11
8	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
9	864293	LIGHT,EXTENSION	1	\$97.75	\$97.75
10	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
11	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
12	2628868	OILER,HAND	1	\$6.96	\$6.96
13	6821508	PADLOCK	1	\$7.18	\$7.18
14	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
15	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
16	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
17	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
18	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
19	14863602	SPOTLIGHT	1	\$951.69	\$951.69
20	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
21	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
22	1065071	ROLL,TOOLS AND ACCE	1	\$10.64	\$10.64
23	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
24	2289514	WRENCH,BOX AND OPEN	1	\$13.28	\$13.28
25	2217958	HANDLE,SOCKET WRENC	1	\$11.69	\$11.69
26	1897934	SOCKET,SOCKET WRENC	1	\$4.62	\$4.62
27	1897927	SOCKET,SOCKET WRENC	1	\$3.79	\$3.79
28	1897913	SOCKET,SOCKET WRENC	1	\$3.65	\$3.65
29	1897914	SOCKET,SOCKET WRENC	1	\$3.46	\$3.46
30	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
31	13491383	WRENCH,BOX	1	\$9.50	\$9.50
32	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
33	9221200	FIRST AID KIT,UTILI	1	\$51.90	\$51.90
34	2423650	FLAGSTAFF	1	\$4.29	\$4.29
35	2271511	FLAG,SIGNAL	1	\$3.09	\$3.09
	35				\$1,589.33

ENCLOSURE (52)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	VALVE ASSEMBLY, M	01-112-7625	523100	1	R	29747720	SHT PART	\$3,144.25	
E08467K	CABLE ASSEMBLY, W	01-394-1789	523100	1	R	29747720	SHT PART	\$532.09	
E08467K	CUSHION, SEAT, VEH	01-113-6579	523100	2	R	29747720	SHT PART	\$66.20	
E08467K	TRACK SHOE, VEHICLE	01-442-9686	523100	170	R	29747720	SHT PART	\$32,470.00	
E08467K	PIN, STRAIGHT, HEAD	00-159-3604	523100	1	R	29747720	SHT PART	\$5.06	
E08467K	WASHER, FLAT	00-767-9425	523100	3	R	29747720	SHT PART	\$23.76	
E08467K	PIN, COTTER	00-234-1864	523100	1	R	29747720	SHT PART	\$3.67	
E08467K	SCREW, CAP, HEXAGON	00-717-5467	523100	1	R	29747720	SHT PART	\$0.43	
E08467K	NUT, SELF-LOCKING	00-914-6028	523100	1	R	29747720	SHT PART	\$0.56	
E08467K	PIN, COTTER	00-234-1863	523100	1	R	29747720	SHT PART	\$24.37	
E08467K	WASHER, FLAT	00-625-5756	523100	1	R	29747720	SHT PART	\$4.55	
E08467K	PIN, STRAIGHT, HEAD	00-155-5344	523100	1	R	29747720	SHT PART	\$5.04	
E08467K	LOCKNUT, TUBE FITTING	00-727-8912	523100	2	R	29747720	SHT PART	\$3.28	
E08467K	WASHER, FLAT	00-068-5285	523100	1	R	29747720	SHT PART	\$9.93	
E08467K	ADAPTER, STRAIGHT	00-226-6771	523100	1	R	29747720	SHT PART	\$15.04	
E08467K	ELBOW, TUBE	00-264-6788	523100	1	R	29747720	SHT PART	\$21.61	
E08467K	BRACKET, EYE, NONR	01-238-8822	523100	1	R	29747720	SHT PART	\$116.66	
E08467K	BEARING, SLEEVE	00-153-8734	523100	1	R	29747720	SHT PART	\$3.06	
E08467K	PIN, STRAIGHT, HEAD	00-239-7637	523100	1	R	29747720	SHT PART	\$3.85	
E08467K	PIN, STRAIGHT, HEAD	01-509-6311	523100	1	R	29747720	SHT PART	\$19.18	
E08467K	BUMPER	00-598-2754	523100	1	R	29747720	SHT PART	\$0.47	
E08467K	BEARING, SLEEVE	00-153-8734	523100	1	R	29747720	SHT PART	\$3.06	
E08467K	CABLE ASSEMBLY, S	01-310-0335	523100	4	R	29921618	SHT PART	\$173.84	
E08467K	CABLE ASSEMBLY, S	01-449-1701	523100	1	R	29921618	SHT PART	\$457.14	
E08467K	BOLT, MACHINE	00-021-3912	523100	10	R	29921618	SHT PART	\$2.80	
E08467K	WASHER, FLAT	01-389-7014	523100	10	R	29921618	SHT PART	\$1.20	
E08467K	WASHER, LOCK	00-974-6623	523100	10	R	29921618	SHT PART	\$39.40	
E08467K	NUT, PLAIN, HEXAGON	00-939-2655	523100	10	R	29921618	SHT PART	\$2.30	
E08467K	CABLE ASSEMBLY, S	01-449-2169	523100	1	R	29921618	SHT PART	\$373.63	
E08467K	CABLE ASSEMBLY	01-226-2442	523100	3	R	29921618	SHT PART	\$142.50	
E08467K	CABLE ASSEMBLY, R	01-301-0834	523100	3	R	29921618	SHT PART	\$159.42	
E08467K	BRACKET, MOUNTING	01-456-7986	523100	6	R	29921618	SHT PART	\$72.54	

ENCLOSURE (52)

DATE: 20200413

SERVICE REQUEST: 29796648

SET SERIAL: 523612

TAMN: E08467K 2350
NSN: 01-458-7410

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 2019 10/6

COMMENTS: LIGHT, EXTENSION, QTY 1, 00-086-4293

CONDITION CODE: F(WATERLOO) (b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN

DATE: 20200413

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM 8F152B-25&P
AAVC7A1	TM 07267B-50
AAVR7A1	TM 07268B-25&P/2
TAC NO. 3-11-11	MILES 1424
U.S.M.C. NO. 523612	HOURS 277
HULL NO. RAM-S-0070	
ENGINE NO. 37239369	
TRANSMISSION NO. A1273E	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
<div style="display: flex; justify-content: space-between;"> <div>(b)(3), (b)(6), (b)(7)(c) CPL</div> <div>(b)(3), (b)(6), (b)(7)(c) CPL</div> <div>(b)(3), (b)(6), (b)(7)(c) SGT</div> </div>	04132020
<p>NOTE: _____ led into seven columns. The inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.</p>	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)		✓						(AN) 1 plate near Driver's station
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)		✓						M12 BOLTS
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.			✓					45° ROUNDED
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Track (Para 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports. (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							rusty

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.								
a. Outlet Cap.			✓					Expose
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.		✓						(M) 9 inner Pads
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rines.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.			✓					45° Bounded
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)			✓					FROZE
5. Fuel Filter Cover and Cap. Check ballistics cover for damage and rubber cap for proper sealing. (Para. 8-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.			✓					torsion low
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.			✓					low torsion
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.			✓					PM
15. Overhead Protection Kit (OPK).			✓					Plate uninstalled x1
a. OPK Tiles.			✓					
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
<p>NOTE Make sure intake grille is properly secured in raised position.</p>								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					6 Bats
c. TACNAV sensor.			✓					Clipped Pedest
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.		-						① clamp
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.			✓					① clamp
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.			✓					loose
NOTE								
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							PM
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.			✓					low oil
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.			✓					Safety wire (3)
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.		⊖						Safety wire
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓		✓					(M) bolt
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.			✓					need adjust
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VL Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check oil tube and dipstick for damage.			✓					need 1-2 quarts
Tachometer Drive Shaft. Check for damage and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.			✓					Need pm
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.			✓					need tighten
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.			✓					low
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.		✓						(M) tag
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

ENCLOSURE (3)

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.		✓						(M) belt
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.			✓					Plug in front disconnected
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.		✓						(M) cover
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector/Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Jet System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

ENCLOSURE (53)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pinile Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).			✓					(M) 14 bolts
b. Center Deck Plate.			✓					(M) 10 bolts
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE: Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							I check P brown
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						(M) tag
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7-lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.	✓	✓						Ⓜ tag
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.			✓					hydro problem

ENCLOSURE (53)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.			✓					Lights left out behind
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.			✓					Unserviceable
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
<p align="center">NOTE</p> <p>Bar scales and warning lights will be checked during the operational portion of preinduction.</p>								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							(M) Slave receptacle cover & chain ↓
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.		✓						
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							needs PM
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MRSS and APSSS)								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.			✓					Thump
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check: With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2650 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (53)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					Hydro Problem
2. Check if hydraulic bilge pumps operation.			✓					Hydro Problem
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.			✓					
b. Bow Plane. Check that it fully extends and retracts.			✓					
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

3rd P
Hydro

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS), AAVP7A1
 LIMITED TECHNICAL INSPECTION

TAC No. 3-11-11 USMC No. 523612 Miles 1424 Hours 277
 Date Inspected 20200413 Inspector SSGT (b)(3), (b)(6), (b)(7)(c)
 (Rank/Signature)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (53)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36B TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.			✓					needs pm
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob. check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shunter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							not secured
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.			✓					Not Secured
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. 50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.			✓					(M) rubber cover

ENCLOSURE (53)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.			✓					NOT MOUNTED
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		NEED REPLACE
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.			✓					Need spm
6. 40mm Mandrel Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests:								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.		✓						✓
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.			✓					no p

ENCLOSURE (3)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.			✓					no rubber cover
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.			✓					inhibit zones in P
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	COLLET, SPECIAL	01-435-8079	523612	10	R	29921992	SHT PART	\$41.60	
E08467K	CABLE ASSEMBLY, R	01-226-2442	523612	2	R	29921992	SHT PART	\$95.00	
E08467K	CABLE ASSEMBLY, R	01-301-0834	523612	2	R	29921992	SHT PART	\$106.28	
E08467K	BRACKET, MOUNTING	01-456-7985	523612	4	R	29921992	SHT PART	\$48.36	

ENCLOSURE (53)

LIMITED TECHNICAL INSPECTION

DATE: 20200413

PURPOSE OF LTR: SLT

RESPONSIBLE UNIT: 3D AABN

NON ENCLATURE: AA ✓ 2741

SERVICE REQUEST: 29940628

SET SERIAL: 522932

TAMN: E08467K NSN: 2350 01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-9 COMPLETE: YES / NO NO

MODS VERIFIED: YES/ NO

LAST PMCS DATE: 2019/02/1

COMMENTS: SPOUT, CAN FLEXIBLE, QTY1, 00-177-6154, WRENCH, ADJUSTABLE,
QTY1, 00-240-1414,

CONDITION CODE: A

LTI BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

LT1 BY PRINT/SIGN: [Signature]

DATE: 20200413

ENCLOSURE (51)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3-11-63	MILES 1427
U.S.M.C. NO. 522932	HOURS 204
HULL NO. RAM-Y-729	
ENGINE NO. 371877739	
TRANSMISSION NO. A0088E	
INSPECTOR'S NAME/RANK/SIGNATURE <div style="display: flex; justify-content: space-between;"> (b)(3), (b)(6), (b)(7)(c) LCpl (b)(3), (b)(6), (b)(7)(c) SSGT (b)(3), (b)(6), (b)(7)(c) </div>	DATE INSPECTED 20200413
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Pairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							Covered in sand
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.				✓				
12. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.								
1 2 3 4 5 6	✓							
14. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (5/1)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.			✓					① Loose bolt
20. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							Covered in sand
b. Track Adjuster.					✓			Rust on cylinder, no tension
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports. (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

ENCLOSURE

51

NOMENCLATURE/LOCATION								Remarks MUST be included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
7. Vision Block and Guard								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.	✓							
a. Hull	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille								
NOTE: Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

ENCLOSURE (59)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14) NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
4. Cooling Fan.								
a. Guard.	✓							
b. Stroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE	✓							
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Alt)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check oil tube and dipstick for damage.	✓							
Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag (M)
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
Starboard Longitudinal Shaft. Check shaft for damage and rounding for tight mounting screws and proper safety wire.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							4 bolts (m)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						
d. Seal.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							SFBD Dog needs adj.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.			✓					inop
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.				✓				
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.						✓		
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MRSS and AFSSS)								
<p align="center">NOTE</p> <p>At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).			✓					FW/O (1)
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check: With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine RPM.	✓							2300 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (136)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XL Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LIT of UGWS Unique Items.
 See TM 07267B-25&P/4 for LIT of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LIT of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-03 USMC No. 522932 Miles 1427 Hours 299
 Date Inspected 20700413 Inspector LCpl
 (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)
 8867 (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION								Remarks MUST be included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36E TSS Periscope.								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.		✓						Cap
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -3 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-1E3.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	SCREW, MACHINE	00-984-6211	522932	4	R	29921818	SHT PART	\$16.56	
E08467K	WASHER, FLAT	00-014-5850	522932	4	R	29921818	SHT PART	\$3.96	
E08467K	DETECTOR, POSITION	00-432-1787	522932	1	R	29921818	SHT PART	\$214.51	
E08467K	CABLE ASSEMBLY, R	01-226-2442	522932	4	R	29921818	SHT PART	\$190.00	
E08467K	CABLE ASSEMBLY, R	01-301-0834	522932	4	R	29921818	SHT PART	\$212.56	
E08467K	BRACKET, MOUNTING	01-456-7985	522932	4	R	29921818	SHT PART	\$48.36	
E08467K	COLLET, SPECIAL	01-435-8079	522932	4	R	29921818	SHT PART	\$16.64	
E08467K	ANTENNA ELEMENT	01-376-7934	522932	4	R	29921818	SHT PART	\$194.96	

ENCLOSURE (54)

LIMITED TECHNICAL INSPECTION

DATE: 20200415

PURPOSE OF LTR: SLT/

SERVICE REQUEST: 29876112

RESPONSIBLE UNIT: 3D AADW

SET SERIAL 523311

NOMENCLATURE: AAVP7A1

TAMN: E08467K NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-6 COMPLETE: YES NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 2019 1031

CCMMMENTS:

CONDITION CODE: A

(b)(3), (b)(6), (b)(7)(c)

LT1 BY PRINT/SIGN: SSGT

(b)(3), (b)(6), (b)(7)(c)

LTIBY PRINT/8

DATE: 20200418

ENCLOSURE (55)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM 8F152B-25&P
AAVC7A1	TM 07267B-50
AAVR7A1	TM 07268B-25&P/2
TAC NO. <u>3 HG 04</u>	MILES <u>1763</u>
U.S.M.C. NO. <u>523311</u>	HOURS <u>239</u>
HULL NO. <u>RAM-Y-109</u>	
ENGINE NO. <u>37188252</u>	
TRANSMISSION NO. <u>A15238E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
<u>CR</u> (b)(3), (b)(6), (b)(7)(c) <u>SSGT</u> (b)(3), (b)(6), (b)(7)(c)	<u>20200415</u>
<p>NOTE: The following inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.</p>	

ENCLOSURE (55)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Track (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	/							
b. Track Pads.	/							
c. Track Pins.	/							
d. Track Wear.	/							
e. Track Adjustment.	/							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	/							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	/							
c. Hub Oil Leaks. 1 2 3 4 5 6	/							
d. Hub Oil Level. 1 2 3 4 5 6	/							
e. Mounting Hardware. 1 2 3 4 5 6	/							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable. 1 2 3 4 5 6	/							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	/							
b. Retaining Screws. 1 2 3 4 5 6	/							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	/							
b. No. 2 Shock.	/							
c. No. 3 Shock.	/							
d. No. 4 Shock.	/							
e. Mounting Hardware.	/							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							

ENCLOSURE (55)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.	✓							
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.	✓							
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.	✓							
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.						✓		lights are cracked
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

ENCLOSURE (35)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	/							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	/							
c. Hub Oil Leaks. 1 2 3 4 5 6	/							
d. Hub Oil Level.	/							
e. Mounting Hardware. 1 2 3 4 5 6	/							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	/							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	/							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	/							
b. No. 2 Shock	/							
c. No. 3 Shock	/							
d. No. 4 Shock	/							
e. Mounting Hardware.	/							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.	/							
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	/							
b. Steps. (Para. 16-72)	/							
c. Slope Rack Kit (SRK). (Para. 16-73)	/							
d. Stowage provisions. (Para. 16-81)	/							
e. Fairings. (Para. 16-71)	/							
f. Standoff Brackets. (Para. 16-70)	/							
g. Hull Bosses. (Para. 16-80)	/							
III. Bottom of Vehicle	/							
1. Hull. Check bottom of vehicle for damage.	/							
2. Drain Plugs. Check for missing, tight, or damaged plugs.	/							
a. Hull	/							
b. Ramp.	/							
c. Contact Cooler.	/							
IV. Outside of Vehicle (Topside)	/							
1. Hand Rail (forward). Check for weld cracks or other damage.	/							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)	/							
a. Forward (port and starboard).	/							
b. Aft (port and starboard).	/							
3. Intake Grille	/							
NOTE Make sure intake grille is secured properly in raised position.	/							
a. Screen.	/							
b. Brace Rod.	/							
c. Cam Lock Handles/Stop Screws.	/							
d. Torsion Bar Assembly. (Para. 8-17)	/							
e. Mounting Hardware.	/							
f. Seal.	/							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-19)	/							
5. Radiator Cover and Cap. Check ball joint on the damper and radiator cap for proper seating. (Para. 8-15)	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	/							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	/							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	/							
c. TBAM.	/							
d. Bosses.	/							
16. Cargo Hatches.								
a. Covers and Hinges.	/							
b. Torsion Bar.	/							
c. Latches (open and closed).			/					Prx Fld handle ① ② spacers
d. Seals.	/							
17. Antenna Mounts.								
a. Receiving Mount.	/							
b. Port Sending Mount.	/							
c. Starboard Sending Mount.	/							
d. PLRS Antenna Mount.	/							
e. DACT Antenna Mount.	/							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	/							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
<p>NOTE Make sure intake grille is properly secured in raised position.</p>								
a. Bow Plane Velocity Fuse Valves.	/							
b. Bow Pod Access Cover.		/						② 2 Bat
c. TACNAV sensor.	/							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	/							
b. Hydraulic Hoses.	/							
3. Cam Roller Lock. Check condition of each latch roller.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive	✓							
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Placquin Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive	✓							
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Misalign	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	/							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	/							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	/							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	/							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	/							
30. Fuel Filter.	/							
a. Fuel Leaks.	/							
b. Drain Cock/Contamination.	/							
c. Electrical Leads/Transducer.	/							
d. Mounting Hardware/Air Valve.	/							
31. Power Takeoff Unit.	/							
a. Oil Leaks.	/							
b. Mounting Hardware.	/							
c. Electrical leads/Connections.	/							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	/							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	/							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	/				/			leak

ENCLOSURE (55)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.	/							
a. Leaks.	/							
b. Torque converter to engine mounting screw for tightness.	/							
c. Range selector valve for leaks and safety wire.	/							
d. Oil Leaks.	/							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	/							
f. Check brakes for proper adjustment.	/							
g. Check transmission drain line for leaks, damage, and loose drain plug.	/							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	/							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	/							
b. PT Pump.	/							
c. Exhaust Manifold (port side).	/							(M) Yellow wrap
d. Engine Oil Cooler.	/							
e. Engine Oil Filter.	/							
f. Intake Manifold.	/							
g. Smoke Generation Components.	/							
h. Cold Start Components.	/							
i. Crankcase Breathers.	/							
3. Transmission Oil Filter.								
a. Mounting Hardware.	/							
b. Leaks.	/							
c. Check Electrical Connections.	/							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	/							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	/							
6. Turbocharger Drive Shaft. Check for proper alignment and damage.	/							

ENCLOSURE (58)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	/							
b. Lamp Test/Warning Cancel Switch.	/							
c. Horn Button.	/							
d. Panel Lights Br/Dim Switch.	/							
e. Cold Start Switch.	/							
f. Starter Button.	/							
g. Light Switch.	/							
h. TACNAV Indicator.	/							
i. Tachometer.	/							
j. Speedometer.	/							
k. Smoke Generation Indicator Light.	/							
l. Smoke Generation Switch.	/							
m. Forward Electric Bilge Pump Switch.	/							
n. Aft Electric Bilge Pump Switch.	/							
o. Aft Electric Bilge Pump Indicator Light.	/							
p. Forward Electric Bilge Pump Indicator Light.	/							
q. Aft Hydraulic Bilge Pump Indicator Light.	/							
r. Forward Hydraulic Bilge Pump Indicator Light.	/							
s. Ventilation Switch.	/							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	/							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	/	/						
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	/							
b. Commander's Outlet.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches, sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	/							
b. Aft Center.	/							
c. Aft Lower.	/							
d. Port Upper.	/							
e. Port Lower.	/							
f. Smoke Generation.		/						
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	/							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	/							
b. Control Valve.	/							
c. Clamps.	/							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	/							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.		/						
6. Air Cleaner Compartment.								
a. Access Door.	/							
b. Retaining Brackets.	/							
c. Element.	/							
d. Compartment.	/							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	/							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	/							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	/							

ENCLOSURE (59)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

ENCLOSURE (SS)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater								
a. Mounts.	/							
b. Exhaust System and Cover.	/							
c. Electrical Wiring and Switches.	/							
d. Fuel System.	/							
e. Heater Ducts.	/							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	/							
36. Radio Mounts								
a. Check Mounting Hardware.	/							
b. Check Radio Mounts.	/							
c. Check Radio Cables.	/							
37. EPLRS Rack								
a. Check Mounting Hardware.	/							
b. Check Radio Mounts	/							
c. Check Radio Cables.	/							
VIII. Driver's and Commander's Station								
1. Access Covers								
a. Hydrostatic Steer Disconnect Lever.	/							
b. Final Drive U-Joint.	/							
c. Hydraulic Reservoir.	/							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	/							
3. Fire Extinguisher (7 lb.). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	/							
b. Tag Date.	/							
c. Wire Seal.	/							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	/							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	/							
b. Horn.	/							
c. Fuel Level Indicator.	/							
d. Battery Generator Indicator.	/							
e. Electric Bilge Pumps (forward and aft).	/							
f. Panel Lights (brt/dim).	/							
g. Display Panel Warning Lights.	/							
h. Vent Switch Low Position.	/							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	/							
b. Transmission.	/							
c. Engine, RPM.	/							2500
d. TACNAV Indicator. Check that system powers and display works.	/							
4. Lights. Check that lights work properly.								
a. Light Switch.	/							
b. Service Drive.	/							
c. Dimmer Switch.	/							
d. Blackout Markers.	/							
e. Stop Light.	/							
f. Park.	/							
g. Searchlight.	/							
h. Interior Dome Lights.	/							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	/							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper count timer.	/							

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 34604 USMC No. 523311 Miles 1763 Hours 239
 Date Inspected 2020 04 15 Inspector SSGT
 (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment									
1. Basket Weldment Clearance.									
a. Area around sides of basket weldment clear of obstructions.		/							
b. Area around 12 channel slip ring clear of obstructions.		/							
2. 12 Channel Slip Ring.									
a. Electrical connectors tight and in good condition.		/		/					(M) Fork
b. Upper portion of 12-channel slip ring rotates freely.		/							
c. Manual and electrical weapons station operation.		/							
3. Power Relay Assembly.		/							
a. Box secure to bottom of basket.		/							
b. Electrical connectors tight and in good condition.		/							
4. Basket Inspection		/							
a. Seat belt secure, latch working properly, belt in good condition.		/							
b. Stowed items do not overhang basket.		/							
c. Seat in good condition, locks in all height positions, secure in basket assembly.		/							
II. Weapons Station Interior		/							
1. Turret Power Control Assembly.		/							
a. Box cover secure. Box secure to basket weldment.		/							
b. Electrical connector tight and in good condition.		/							
2. Weapon Control Assembly.									
a. Box cover secure. Box secure to basket weldment.		/							
b. Electrical connector tight and in good condition.		/							

ENCLOSURE (95)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	/							
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.	/							
a. Check ejection-chute hose for security and condition.	/							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	/							
7. Equilibrator. Check for corrosion, security and adjustment.	/							
8. 50 Caliber Ammo Feed System.	/							
a. Check security and condition of .50 caliber ammo trays.	/							
b. Check security and condition of roller guides.	/							
9. 40mm Ammo Feed System.	/							
a. Feed Chute. Check for dents, corrosion and/or damage.	/							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	/							
c. Check anti-feedback lever for condition and security.	/							
10. 40mm Ammo Box Assembly.	/							
a. Check security and condition of box, doors, and flaps.	/							
b. Check operation of latches.	/							
c. Check that electrical connector on last-round switch is tight and in good condition.	/							
11. 40mm Charger Assembly. Check condition and security of charger tube.	/							
12. 40mm Mantlet.	/							
a. Check condition and security.	/							
b. Check operation of cover latches.	/							
13. 50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	/							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	/							
15. Elevation Control Assembly. Check for security and condition.	/							

ENCLOSURE (55)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +15 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Donelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (55)

523311

#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	11870964	SHACKLE	4	\$36.08	\$144.32
2	13552064	BAR,PRY	1	\$9.95	\$9.95
3	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
4	2363272	CHISEL,COLD,HAND	1	\$5.05	\$5.05
5	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
6	13551899	DRIVE HEAD,SOCKET W	1	\$35.24	\$35.24
7	2657462	HAMMER,HAND	1	\$24.48	\$24.48
8	13785361	HANDLE,EXTENSION,WR	1	\$48.31	\$48.31
9	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
10	2432395	MATTOCK	1	\$13.71	\$13.71
11	2628868	OILER,HAND	1	\$6.96	\$6.96
12	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
13	13351318	RATCHET HEAD,SOCKET	1	\$134.05	\$134.05
14	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
15	13784933	SOCKET,SOCKET WRENC	1	\$31.25	\$31.25
16	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
17	1776154	SPOUT,CAN,FLEXIBLE	1	\$11.65	\$11.65
18	2289503	WRENCH,BOX AND OPEN	1	\$2.15	\$2.15
19	2289507	WRENCH,BOX AND OPEN	1	\$5.15	\$5.15
20	2289509	WRENCH,BOX AND OPEN	1	\$3.76	\$3.76
21	2289516	WRENCH,BOX AND OPEN	1	\$17.43	\$17.43
22	2289513	WRENCH,BOX AND OPEN	1	\$11.25	\$11.25
23	2278074	EXTENSION,SOCKET WR	1	\$4.57	\$4.57
24	1897932	SOCKET,SOCKET WRENC	1	\$3.64	\$3.64
25	1897985	SOCKET,SOCKET WRENC	1	\$4.55	\$4.55
26	1897935	SOCKET,SOCKET WRENC	1	\$5.67	\$5.67
27	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
28	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
29	13491383	WRENCH,BOX	1	\$9.50	\$9.50
30	13375269	CAN,MILITARY	2	\$44.09	\$88.18
31	893827	CAN,MILITARY	1	\$21.00	\$21.00
32	9221200	FIRST AID KIT,UTILI	1	\$51.90	\$51.90
33	13767934	ANTENNA ELEMENT	1	\$48.74	\$48.74
34	14789090	COVER,GUN	1	\$101.36	\$101.36
35	2423650	FLAGSTAFF	3	\$4.29	\$12.87
36	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
37	3228959	ADAPTER,CONNECTOR	1	\$39.53	\$39.53
38	2881511	ADAPTER,GREASE GUN	1	\$11.53	\$11.53
39	2932336	AX,SINGLE BIT	1	\$34.57	\$34.57
40	9857846	BATTERY,NONRECHARGE	1	\$6.50	\$6.50
41	8357210	BATTERY,NONRECHARGE	1	\$9.20	\$9.20
42	11740968	BRUSH,WIRE,SCRATCH	1	\$4.52	\$4.52
43	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
44	7083799	FIXTURE ASSEMBLY,TR	1	\$119.95	\$119.95
45	2648261	FLASHLIGHT	1	\$10.40	\$10.40

ENCLOSURE (58)

46	2657462	HAMMER,HAND	1	\$24.48	\$24.48
47	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
48	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
49	2558113	MEASURE,LIQUID	1	\$45.40	\$45.40
50	6821508	PADLOCK	1	\$7.18	\$7.18
51	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
52	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
53	2933336	SHOVEL,HAND	1	\$14.90	\$14.90
54	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
55	1065671	ROLL,TOOLS AND ACCE	1	\$10.64	\$10.64
56	2289505	WRENCH,BOX AND OPEN	1	\$4.26	\$4.26
57	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
58	2289508	WRENCH,BOX AND OPEN	1	\$3.50	\$3.50
59	2289511	WRENCH,BOX AND OPEN	1	\$5.55	\$5.55
60	2289514	WRENCH,BOX AND OPEN	1	\$13.28	\$13.28
61	2431697	EXTENSION,SOCKET WR	1	\$7.70	\$7.70
62	2437326	EXTENSION,SOCKET WR	1	\$6.72	\$6.72
63	2306385	HANDLE,SOCKET WRENC	1	\$37.69	\$37.69
64	1897924	SOCKET,SOCKET WRENC	1	\$4.29	\$4.29
65	2243154	WRENCH,BOX	1	\$13.79	\$13.79
66	2370984	SOCKET,SOCKET WRENC	1	\$2.36	\$2.36
	66				\$1,718.95

ENCLOSURE (8)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	PUMP UNIT BILGE	01-111-0813	523311	1	R	29876112	SHT PART	\$7,174.24	
E08467K	WASHER, LOCK	00-579-0079	523311	1	R	29876112	SHT PART	\$1.13	
E08467K	GASKET	00-959-7197	523311	1	R	29876112	SHT PART	\$4.04	
E08467K	SHELL, ELECTRICAL	01-254-9253	523311	1	R	29876112	SHT PART	\$39.17	
E08467K	ADHESIVE	01-068-2423	523311	2	R	29876112	SHT PART	\$109.76	
E08467K	SEAL, NONMETALLIC	00-157-6585	523311	1	R	29876112	SHT PART	\$439.93	
E08467K	BATTERY, STORAGE	01-485-1472	523311	2	R	29876112	SHT PART	\$731.78	
E08467K	CABLE ASSEMBLY, S	01-449-1701	523311	1	R	29921708	SHT PART	\$457.14	
E08467K	CABLE ASSEMBLY, S	01-449-1699	523311	1	R	29921708	SHT PART	\$335.75	
E08467K	CABLE ASSEMBLY, S	01-449-3110	523311	1	R	29921708	SHT PART	\$596.20	
E08467K	WIRING HARNESS	01-258-9598	523311	1	R	29921708	SHT PART	\$553.57	

ASSAULT AMPHIBIOUS VEHICLE
AAV ☐ P ☒ 7A1 RAM/RS

PL NO.

HOISTING WT

M/RS CONVERSION MO AND YEAR

BUILD STANDARD

LOCATION

IN NO.

USMC NO.

SHIELDED

4-TTW-290

LIMITED TECHNICAL INSPECTION

DATE: 20200415

PURPOSE OF LTI: ULTI

RESPONSIBLE UNIT: 3D AABN

NOMENCLATURE: AAV P7A1

SERVICE REQUEST: 29455614

SET SERIAL: 522677

TAMN: E08467K

NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-8 COMPLETE: YES / NO

MODS VERIFIED: YES/NO

LAST PMCS DATE: 2200131

COMMENTS:

CONDITION CODE: F

(b)(3), (b)(6), (b)(7)(c)

LTJ BY PRINT/SIGN: SSGT (b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: CRL

DATE: 20200415

ENCLOSURE (SC)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <u>AAVP7A1</u> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. <u>3HNO4</u>	MILES <u>2241</u>
U.S.M.C. NO. <u>522677</u>	HOURS <u>425</u>
HULL NO. <u>RAM-Y-136</u>	
ENGINE NO. <u>37218414</u>	
TRANSMISSION NO. <u>A5155E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE <u>1 Col</u>	DATE INSPECTED <u>70200415</u>
<small>(b)(3), (b)(6), (b)(7)(c)</small> <small>(b)(3), (b)(6), (b)(7)(c)</small> <small>(b)(3), (b)(6), (b)(7)(c)</small>	
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					Ⓜ 3 Bolts
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable. (1) 2 3 4 5 6			✓					SEAL FAULTY
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. (1) 2 3 4 5 6			✓					LEAKING / LOOSE
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.		✓						(M)
c. No. 3 Shock.		✓						(M)
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
19. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock		✓						(A)
b. No. 2 Shock		✓						(B)
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.			✓					LEAK
c. Hub Oil Level.			✓					NO OIL
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
30. Starboard Final Drive. (Para. 7-18)								
a. Outer Housing.			✓					LEAK BAD SEAL
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)			✓					Ⓜ 3 BOLTS
33. Starboard Bilge Pump Outlets. (Para. 8-46)								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.		✓						
e. Vision Blocks.						✓		(M) CRASH PAD 1 BLOCK CRACKED
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)	✓							
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.		✓						MISSING BOTH COVERS
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.			✓					CENTER HATCH TORSION ASSIST BRDY
b. Torsion Bar.			✓					I
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

ENCLOSURE (S6)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.			✓					TUBE UNINSTALLED
b. Drain Tube.			✓					↓
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE	✓							
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.			✓					TUBE DISCN FROM OUTLET
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.			✓					NEEDS OIL
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.			✓					TUBE DISCON
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.			✓					NEEDS PM
b. PF Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
<p align="center">NOTE</p> <p>Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.</p>								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.			✓					1 PANE BRACKET (N)
e. Port Lower.	✓							
f. Smoke Generation.		✓						
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.			✓					TAG (N)
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.		✓						(N) AFT COVER
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.			✓					① (LAMPS)
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.		✓						
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.			✓					① 4 SCREWS

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.			✓					BENT / 1 LATCH Ⓟ
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					AFT + TURRET DOME LIGHT Ⓜ CABLE
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.	✓							
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.			✓					Ⓟ CLAMP
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. _____			✓					NOT DATED
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.			✓					(F) MOUNTING
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.			✓					(F) AFT COVER
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.			✓					DISCON
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.			✓					DOES N'T ROTATE FREELY

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.			✓					(M) CLAMPS
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.			✓					(M) 2 SCREWS
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.			✓					(M) CAP
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.			✓					HANDLE BENT (M) BALL
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					SEAT ADJ DOESN'T MOVE
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					↓
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.			✓					TRACK TURNS OVER W/ MASTER SWITCH ON
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).			✓					LIGHT DOESN'T TURN ON
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.			✓					UNABLE TO RUN FULL
b. Transmission.			✓					TEST DUE TO ELEC. ISSUES
c. Engine. RPM.			✓					
d. TACNAV Indicator. Check that system powers and display works.			✓					
4. Lights. Check that lights work properly.								
a. Light Switch.								
b. Service Drive.								
c. Dimmer Switch.								
d. Blackout Markers.								
e. Stop Light.								
f. Park.								
g. Searchlight.								
h. Interior Dome Lights.								
5. Driver's Viewer Enhancer (DVE). Check that power system works.								
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.								

ENCLOSURE (56)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.								UNABLE TO CHECK
2. Gear Ranges. Check for slippage and that lockup works properly.								DUE TO ELEC. ISSUES
3. Smoke Generation. Check for correct operation.								
4. Brakes. Check to see if brakes pull to one side or the other.								
5. Speedometer. Check for correct operation.								
6. Noises. Check for any unusual noises.								
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)								
2. Check if hydraulic bilge pumps operation.								
3. Check if electric bilge pumps operate.								
4. Check that jet drive activates at 1000 to 1200 RPM.								
5. Bow Plane Operation:								
a. Control Valve. Check for proper operation and leaks.								
b. Bow Plane. Check that it fully extends and retracts.								
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.								

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

Turret Uninstalled
From Vehicle

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS) AAVP7A1
LIMITED TECHNICAL INSPECTION

TAC No 3HN04 USMC No 522677 Miles 2241 Hours 425
 Date Inspected 20200415 Inspector LCpl (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)
 (Rank Signature) [Signature] (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NUMERICAL/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around ID channel slip ring clear of obstructions.	✓							
2. ID Channel Slip Ring.								
a. Electrical connector tight and in good condition.	✓							
b. Upper portion of ID channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connector tight and in good condition.	✓							
4. Basket Inspection.								
a. Seat belt secure fast machine properly belt in good condition.	✓							
b. Insured frame of new secondary basket.	✓							
c. Insured frame of new secondary basket.					✓			Assist For Seat Broken
II. Weapons Station Interior								
1. Turret Power Control Assembly.	✓							
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓	✓	✓					3 Bolts Loose
b. Electrical connector tight and in good condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					Ⓜ All 4 Bolts
b. Electrical connector tight and in good condition.	✓							
4. M36E TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.			✓					Condensation in Glass
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.		✓						Ⓜ 2 Boats
15. Elevation Control Assembly. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.						✓		(M) WIRES
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. Sight Cover.								
a. Seals, cover, hinges, inspect for damage, loose hardware and proper operation.	✓							
b. Sight cover handle. Check conditions and proper operation.	✓							
25. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior.								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers.								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.			✓					UNINSTALLED
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests.								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					LIGHTS INOP
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE ⁵(SB)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.			✓					LIGHTS INOP
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.			✓					L
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.			✓					
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

522677					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	433463	HANDSET	1	\$52.52	\$52.52
2	11870964	SHACKLE	2	\$36.08	\$72.16
3	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
4	2633873	BRUSH,PAINT	1	\$1.56	\$1.56
5	11740968	BRUSH,WIRE,SCRATCH	1	\$4.52	\$4.52
6	11955355	BRUSH,WIRE,SCRATCH	1	\$1.80	\$1.80
7	2363272	CHISEL,COLD,HAND	1	\$5.05	\$5.05
8	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
9	13551899	DRIVE HEAD,SOCKET W	1	\$35.24	\$35.24
10	10635996	GOGGLES,INDUSTRIAL	1	\$17.66	\$17.66
11	13785361	HANDLE,EXTENSION,WR	1	\$48.31	\$48.31
12	2630349	HANDLE,FILE	1	\$1.59	\$1.59
13	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
14	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
15	2628868	OILER,HAND	1	\$6.96	\$6.96
16	6821508	PADLOCK	1	\$7.18	\$7.18
17	13365636	PLIERS,SLIP JOINT	1	\$14.37	\$14.37
18	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
19	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
20	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
21	13784933	SOCKET,SOCKET WRENC	1	\$31.25	\$31.25
22	2289503	WRENCH,BOX AND OPEN	1	\$2.15	\$2.15
23	2289507	WRENCH,BOX AND OPEN	1	\$5.15	\$5.15
24	2289516	WRENCH,BOX AND OPEN	1	\$17.43	\$17.43
25	1897924	SOCKET,SOCKET WRENC	1	\$4.29	\$4.29
26	2355870	SOCKET,SOCKET WRENC	1	\$3.42	\$3.42
27	1897933	SOCKET,SOCKET WRENC	1	\$7.01	\$7.01
28	1897934	SOCKET,SOCKET WRENC	1	\$4.62	\$4.62
29	1897927	SOCKET,SOCKET WRENC	1	\$3.79	\$3.79
30	1897917	SOCKET,SOCKET WRENC	1	\$6.33	\$6.33
31	2697971	UNIVERSAL JOINT,SOC	1	\$5.92	\$5.92
32	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
33	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
34	2243154	WRENCH,BOX	1	\$13.79	\$13.79
35	14806390	CABLE ASSEMBLY,SPEC	1	\$343.25	\$343.25
36	14812595	CAP,ELECTRICAL	2	\$20.24	\$40.48
37	14812598	CAP,ELECTRICAL	1	\$41.40	\$41.40
38	13375269	CAN,MILITARY	1	\$44.09	\$44.09
39	893827	CAN,MILITARY	2	\$21.00	\$42.00
40	9221200	FIRST AID KIT,UTILI	1	\$51.90	\$51.90
41	13767934	ANTENNA ELEMENT	2	\$48.74	\$97.48
42	8893494	BINDER,LOOSE-LEAF	1	\$9.73	\$9.73
43	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
44	13552064	BAR,PRY	1	\$9.95	\$9.95
45	1245275	CLIP,SPRING TENSION	1	\$5.65	\$5.65

ENCLOSURE (86)

46	10758292	DRIFT PIN, TRACK	1	\$113.56	\$113.56
47	13351054	EXTENSION, SOCKET WR	1	\$12.36	\$12.36
48	14863431	FLASHLIGHT	1	\$97.99	\$97.99
49	2648261	FLASHLIGHT	2	\$10.40	\$20.80
50	618546	HAMMER, HAND	1	\$23.24	\$23.24
51	10711746	HOIST, WIRE ROPE	1	\$269.39	\$269.39
52	1558675	LAMP, INCANDESCENT	1	\$2.03	\$2.03
53	13351318	RATCHET HEAD, SOCKET	1	\$134.05	\$134.05
54	11182879	REMOVER, SHOCK ABSOR	1	\$13.23	\$13.23
55	2345224	RULE, MACHINIST'S	1	\$18.43	\$18.43
56	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
57	2289505	WRENCH, BOX AND OPEN	1	\$4.26	\$4.26
58	2289506	WRENCH, BOX AND OPEN	1	\$4.79	\$4.79
59	2289508	WRENCH, BOX AND OPEN	1	\$3.50	\$3.50
60	2289504	WRENCH, BOX AND OPEN	1	\$4.43	\$4.43
61	2289511	WRENCH, BOX AND OPEN	1	\$5.55	\$5.55
62	2289512	WRENCH, BOX AND OPEN	1	\$8.05	\$8.05
63	2289513	WRENCH, BOX AND OPEN	1	\$11.25	\$11.25
64	2431697	EXTENSION, SOCKET WR	1	\$7.70	\$7.70
65	2437326	EXTENSION, SOCKET WR	1	\$6.72	\$6.72
66	2278074	EXTENSION, SOCKET WR	1	\$4.57	\$4.57
67	2217958	HANDLE, SOCKET WRENC	1	\$11.69	\$11.69
68	2367590	HANDLE, SOCKET WRENC	1	\$13.29	\$13.29
69	2306385	HANDLE, SOCKET WRENC	1	\$37.69	\$37.69
70	2370984	SOCKET, SOCKET WRENC	1	\$2.36	\$2.36
71	1897985	SOCKET, SOCKET WRENC	1	\$4.55	\$4.55
72	1897935	SOCKET, SOCKET WRENC	1	\$5.67	\$5.67
73	1897913	SOCKET, SOCKET WRENC	1	\$3.65	\$3.65
74	13491383	WRENCH, BOX	1	\$9.50	\$9.50
75	14806389	CABLE ASSEMBLY, SPEC	1	\$591.56	\$591.56
76	14810504	SCREW, MACHINE	1	\$0.20	\$0.20
77	14789090	COVER, GUN	1	\$101.36	\$101.36
78	1788437	CASE, FLAG	1	\$11.08	\$11.08
79	2423650	FLAGSTAFF	3	\$4.29	\$12.87
80	2271405	FLAG, SIGNAL	1	\$3.49	\$3.49
81	2271406	FLAG, SIGNAL	1	\$3.21	\$3.21
82	2271511	FLAG, SIGNAL	1	\$3.09	\$3.09
	82				\$2,925.81

ENCLOSURE (36)

TAMCN	NOMEN	NSN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	CABLE ASSEMBLY, S	01-310-0335	522677	4	R	29921734	SHT PART	\$173.84	
E08467K	SCREW, CAP, HEXAGON	00-964-0634	522677	10	R	29921734	SHT PART	\$12.70	
E08467K	WASHER, FLAT	00-680-6745	522677	10	R	29921734	SHT PART	\$26.90	
E08467K	WASHER, LOCK	00-933-8118	522677	10	R	29921734	SHT PART	\$10.10	
E08467K	NUT, PLAI, HEXAGON	00-903-5966	522677	10	R	29921734	SHT PART	\$93.10	
E08467K	PARTS KIT, LINEAR	01-382-6522	522677	1	R	29734722	SHT PART	\$544.51	
E08467K	BOLT, MACHINE	00-637-9675	522677	2	R	29734722	SHT PART	\$0.74	
E08467K	WASHER, LOCK	00-974-6623	522677	1	R	29734722	SHT PART	\$3.94	
E08467K	ARM, ANCHOR, SLIP	01-418-9898	522677	1	R	29734722	SHT PART	\$35.47	
E08467K	PACKING, PREFORMED	01-317-7418	522677	6	R	29734722	SHT PART	\$3.54	
E08467K	RING, RETAINING	01-318-6908	522677	3	R	29734722	SHT PART	\$13.35	
E08467K	SEAL, NONMETALLIC	01-102-4720	522677	3	R	29734722	SHT PART	\$32.37	
E08467K	CAP, PROTECTIVE	01-102-4702	522677	3	R	29734722	SHT PART	\$24.99	
E08467K	SCREW, CAP, HEXAGON	00-724-7221	522677	6	R	29734722	SHT PART	\$2.28	
E08467K	SHOCK ABSORBER	01-312-4730	522677	3	R	29734722	SHT PART	\$2,934.48	
E08467K	SCREW, MACHINE	00-984-5674	522677	2	R	29734722	SHT PART	\$17.92	
E08467K	HUB CAP, WHEEL	01-102-4770	522677	1	R	29734722	SHT PART	\$68.46	

ENCLOSURE (56)

Enclosure (1): Limited Technical Inspection, Assault Amphibious Vehicle AAV7A1

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <u>AAVP7A1</u> RAM/RS AAVC7A1 RAM/RS AAVR7A1 RAM/RS	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267C-25&P/2 TM 07268C-25&P/2
TAC NO. <u>3B10</u>	MILES <u>345</u>
U.S.M.C. NO. <u>522681</u>	HOURS <u>67</u>
HULL NO. <u>RAM-5-0040</u>	
ENGINE NO. <u>37204294</u>	
TRANSMISSION NO. <u>A600E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE REFERENCES <u>LCPL</u> (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED <u>20200914</u>
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

Rear Starboard Hull Plug Needs welding - seized
Engine oil temp pegged out on DDM
Missing mounting bolt on water plate - planning
Deck plates missing bolts
Forward Hydro pump map
making electrical connections per DDM?
Thermal elbow studs in self check

Enclosure ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)	✓							
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)	✓							
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)	✓							
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.	✓							
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fittings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)	✓							
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)	✓							
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.	✓							
1 2 3 4 5 6								
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)	✓							
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller. (Para. 7-14)	✓							
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							Needs to be checked
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
19. Port Idler Wheel and Hub. (Para. 7-9)	✓							
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)	✓							
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)	✓							
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.	✓							
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)	✓							
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)	✓							
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Tail lights.	✓							
a. Port Tail light. (Para. 11-53)	✓							
b. Starboard Tail light. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓	✓						
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓	✓						
c. Hub Oil Leaks. 1 2 3 4 5 6	✓	✓						
d. Hub Oil Level.	✓	✓						
e. Mounting Hardware. 1 2 3 4 5 6	✓	✓						
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓	✓						
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓	✓						
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock	✓	✓						
b. No. 2 Shock	✓	✓						
c. No. 3 Shock	✓	✓						
d. No. 4 Shock	✓	✓						
e. Mounting Hardware.	✓	✓						
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓	✓						
b. Hub Oil Leaks.	✓	✓						
c. Hub Oil Level.	✓	✓						
d. Mounting Hardware.	✓	✓						
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓	✓						
b. Hub Oil Leaks.	✓	✓						
c. Hub Oil Level.	✓	✓						
d. Mounting Hardware.	✓	✓						
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓	✓						
b. Hub Oil Leaks.	✓	✓						
c. Hub Oil Level.	✓	✓						
d. Mounting Hardware.	✓	✓						

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	/							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)	/							
a. Track Shoes.	/							
b. Track Pads.	/							
c. Track Pins.	/							
d. Track Wear.	/							
e. Track Adjustment.	/							
28. Starboard Sprocket Rings. (Para. 7-16)	/							
a. Inner.	/							
b. Outer.	/							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	/							
30. Starboard Final Drive. (Para. 7-18)	/							
a. Outer Housing.	/							
b. Bolts.	/							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	/							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)	/							
33. Starboard Bilge Pump Outlets. (Para. 8-46)	/							
a. Hydraulic Pump Outlet.	/							
b. Electric Pump Outlet.	/							
34. Stowage Brackets. Check for weld cracks.	/							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	/							
36. Starboard Cargo Hatch Supports. (Para. 8-26)	/							
a. Forward Support.	/							
b. Aft Support.	/							
c. Hand Rails.	/							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Pairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							1 mounting screw missing
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)	✓							
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8P152B-25&P/C)								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.	✓							
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.	✓							
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.	✓							
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.	✓							
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
NOTE	✓							
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.	✓							
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter	✓							
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.	✓							
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.	✓							
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Hold downs.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Air Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							missing some bolts
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tie down Rings.	✓							
<p align="center">NOTE</p> <p>Remove troop compartment deck plates before continuing.</p>								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable	✓							
29. Hydraulic Bilge Pump.					✓			forward repair or replace
a. Bilge Pump.	✓							
b. Outlet tube.								
30. Electric Bilge Pump.	✓							
a. Electric Pump.	✓							
b. Outlet Tube.								
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. 1-5-19	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.								
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

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NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel: Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
NOTE Bar scales and warning lights will be checked during the operational portion of pre-induction.								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).	✓							
<p align="center">NOTE</p> <p align="center">At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine RPM.	✓							
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (57)

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NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.			✓					Forward Inop
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
See TM 07267C-25&P/4 for LTI of AAVR7A1 Unique Items.
See TM 07268C-25&P/2 for LTI of AAVC7A1 Unique Items.

Enclosure (2): Limited Technical Inspection, AAV Ungunned Weapons Station (UGWS)

TAC No. _____ USMC No. _____ Miles _____ Hours _____

Date Inspected _____ Inspector _____
(Rank/Signature)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓	✓						
b. Area around 12- channel slip ring clear of obstructions.	✓	✓						
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓	✓						
b. Upper portion of 12-channel slip ring rotates freely.	✓	✓						
c. Manual and electrical weapons station operation.	✓	✓						
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓	✓						
b. Electrical connectors tight and in good condition.	✓	✓						
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓	✓						
b. Stowed items do not overhang basket.	✓	✓						
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓	✓						
II. Weapons Station Interior								
1. Turret Power Control Assembly								
a. Box cover secure. Box secure to basket weldment.	✓	✓						
b. Electrical connector tight and in good condition.	✓	✓						
2. Weapon Control Assembly								
a. Box cover secure. Box secure to basket weldment.	✓	✓						
b. Electrical connector tight and in good condition.	✓	✓						

NOMENCLATURE/LOCATION	Satisfactor	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	✓	✓						
b. Electrical connector tight and in good condition.	✓	✓						
4. M36E-TSS Periscope.								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓	✓						
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓	✓						
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓	✓						
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓	✓						
e. Hanger Strap. Check for serviceability.	✓	✓						
f. Head Assembly. Check nuts on head assembly for tightness.	✓	✓						
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓	✓						
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓	✓						
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓	✓						
j. Check for cracks, dents, burns and chipped paint on housing.	✓	✓						
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓	✓						
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓	✓						
m. Check that lamp holder is tight and packing is installed.	✓	✓						
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓	✓						
o. Check that all boresight knobs move freely, and scales can be easily read.	✓	✓						
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓	✓						
q. Check that shutter switch will not move to ON without pushing safety button first.	✓	✓						
r. Check that valve cap strap is not damaged or missing.	✓	✓						
s. Check that all screws are tight on mounting hardware.	✓	✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. Sight Cover.								
a. Seals, cover, hinges, inspect for damage, loose hardware and proper operation.	✓							
b. Sight cover handle. Check conditions and proper operation.	✓							
25. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.						✓		None
b. Check for security and condition.						✓		None

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior:								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Dome Light. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.					✓			Stays in self check
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (57)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.								
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.								
b. Check that DAGR is using vehicle power.								
c. Check that DAGR is using remote antenna.								
d. Check functioning of DAGR screen back lighting.								

LIMITED TECHNICAL INSPECTION

DATE: 20200415

PURPOSE OF LTR: JLTR

RESPONSIBLE UNIT: 3D AASW

NOMENCLATURE: AAV P7A1

SERVICE REQUEST

SET SERIAL: 522999

TAMIN: E08467K

NSN: 2350-01-459-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES (NO)

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20191031

COMMENTS:

CONDITION CODE: A

LTI BY PRINT/SIGN: SSGT

(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200415

ENCLOSURE (58)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <u>AAVP7A1</u> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. <u>34606</u>	MILES <u>834</u>
U.S.M.C. NO. <u>522999</u>	HOURS <u>.18</u>
HULL NO. <u>9567</u>	
ENGINE NO. <u>37192742</u>	
TRANSMISSION NO. <u>80171E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE <u>1st Col</u> (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED <u>20200415</u>
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)			✓					Needs Paint
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)			✓					Needs Paint
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)			✓					Needs Paint
b. Steps. (Para. 16-29)		✓						⊗ Bottom Step
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)		✓	✓					⊗ 4 Bolts / Needs Paint
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6			✓					Needs PMCS & Paint
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.	✓							
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 ④ 5 6		✓						No Retaining Screw
14. Port Shock Absorbers. (Para. 7-11)	✓							
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)	✓							
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.						✓		Cover Prod Bent
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6			✓					Needs PMS & Paint
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.			✓					Needs Oil
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)	✓							
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
30. Starboard Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)	✓							
33. Starboard Bilge Pump Outlets. (Para. 8-46)								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.	✓							
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)			✓					Needs Paint
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓		✓					Needs Paint
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.		✓						All Mounting Bolts
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.			✓					Needs Paint
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch. (Para. 8-21)			✓					Needs Paint
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)	✓							
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.			✓					Uninstalled
7. Control Linkages.								
a. Brake Linkage.			✓					Uninstalled
b. Steering Linkage.			✓					Uninstalled
c. Throttle Linkage.			✓					Uninstalled
d. Brake Flood Control Valve Linkage.			✓					Uninstalled
<p>NOTE Make sure flood valve spindle moves freely.</p>								
e. Engine Compartment Exhaust Fan Linkage.			✓					Uninstalled
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.			✓					Uninstalled
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.			✓					Uninstalled
b. Power Plant Wiring.			✓					Uninstalled
c. Crew Vent Fan.						✓		(I)
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	⊗		✓					⊗ Yolk Retaining Bolts
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.			✓					Uninstalled
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.				✓				Leak - every 6 seconds Small one. Left Side
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.			✓					Uninstalled
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.			✓					⊗ 2 Retaining Bolts For Yolk
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.			✓					Uninstalled
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.			✓					Uninstalled
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.			✓					Tube Disconnected
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.						✓		Ⓘ
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.			✓					Uninstalled
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.			✓					Ⓜ Clamps
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.			✓					Ⓜ Clamp
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.			✓					Leaks Fuel
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.			✓					Cap Loose
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.		✓						No Seat Belts
f. Adjusting Rods.		✓						Ⓜ 3
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.			✓					Clamp Ⓜ
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.			✓					Uninstalled
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.		✓						Ⓜ 3 Screws

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.		✓	✓					No Holddowns
c. Cables and Terminals.				✓				Cables Loose
d. Battery and Terminal Posts.			✓					Needs Gel
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							Ⓜ 1 Locking Bracket
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port		✓						Ⓜ Hardware
b. Starboard.	✓							
18. Water Steer System Components.	✓							
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					Rear Dome Light Undugged
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. _____	✓							
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station	✓							
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.	✓							20190814
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check ball for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.			✓					Seized
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.			✓					Not Connected
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.		✓						Ⓜ Mounting Hardware
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.			✓					Disconnected
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.		✓	✓					Needs Tightening Ⓜ 1 Mounting Screw

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓	✓						All Screws
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.			✓					Park Not Installed
b. Transmission.			✓					⊥
c. Engine. RPM.			✓					
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.			✓					Power Switches
b. Service Drive.			✓					①
c. Dimmer Switch.			✓					⊥
d. Blackout Markers.			✓					
e. Stop Light.			✓					
f. Park.			✓					
g. Searchlight.			✓					
h. Interior Dome Lights.			✓				①	
5. Driver's Viewer Enhancer (DVE). Check that power system works.			✓					
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
X. Functional Road Test								
1. Steering. Check operation and drift.			✓					Pac 11 Not Installed
2. Gear Ranges. Check for slippage and that lockup works properly.			✓					
3. Smoke Generation. Check for correct operation.			✓					
4. Brakes. Check to see if brakes pull to one side or the other.			✓					
5. Speedometer. Check for correct operation.			✓					
6. Noises. Check for any unusual noises.			✓					
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					
2. Check if hydraulic bilge pumps operation.			✓					
3. Check if electric bilge pumps operate.			✓					
4. Check that jet drive activates at 1000 to 1200 RPM.			✓					
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.			✓					
b. Bow Plane. Check that it fully extends and retracts.			✓					
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3 H606 USMC No. 522999 Miles 834 Hours .18
 Date Inspected 20200415 Inspector LCP
Sgt

*See Table C-1 for UGWS Dequeue Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.			✓					UNINSTALLED
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓		✓					MD 2 bolts
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.			✓					latch is seized
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (58)
C-1

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope.								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							excessively
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.			✓					missing one nut
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.			✓					ground disconnected
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.			✓					No Electric Connection
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.			✓					uninstalled
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.			✓					Not secured
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.			✓					Uninstalled
b. Check security and condition of roller guides.	✓		✓					
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.		✓						
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.		✓						
b. Check operation of cover latches.		✓						
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.			✓					Seized
15. Elevation Control Assembly. Check for security and condition.			✓					Handle missing pin

ENCLOSURE (8)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.			✓					missing top nut belt & washers & nut
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.			✓					elec. connection (M)
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.			✓					elec. connectors cut
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.			✓					missing seal
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		80% or more (M)
24. Sight Cover.								
a. Seals, cover, hinges, inspect for damage, loose hardware and proper operation.			✓					Explosive
b. Sight cover handle. Check conditions and proper operation.		✓						assembly missing
25. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.			✓					elec. cable cut
b. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior.								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers.								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.			✓					Port side (M)
b. Electrical Contacts. Check that contacts are tight and free of corrosion.			✓					cables are corroded and separating
c. Rubber Caps. Check sight caps for condition.			✓					(M) 4
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.			✓					All bolts (M)
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.		✓						(M)
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests.								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.			✓					can't traverse, locked
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					No Electrical Connection
b. Domelight. Lights in both blue and white switch positions.			✓					No Electrical Connection
c. Utility Light. Lights in both red and white.			✓					wires are cut
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.			✓					No Power
e. Spot Light. Install and check operation.	✓		✓					No Power
f. Exhaust Blower. Check operation.			✓					No Power

ENCLOSURE (58)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test.								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.			✓					No Power
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.			✓					└
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.			✓					└
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓		✓					Needs Grease
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.			✓					No Power
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

522999					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	11870964	SHACKLE	4	\$36.08	\$144.32
2	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
3	13552064	BAR,PRY	1	\$9.95	\$9.95
4	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
5	2633873	BRUSH,PAINT	1	\$1.56	\$1.56
6	1245275	CLIP,SPRING TENSION	1	\$5.65	\$5.65
7	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
8	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
9	13551899	DRIVE HEAD,SOCKET W	1	\$35.24	\$35.24
10	618546	HAMMER,HAND	1	\$23.24	\$23.24
11	13785361	HANDLE,EXTENSION,WR	1	\$48.31	\$48.31
12	6821508	PADLOCK	1	\$7.18	\$7.18
13	13365636	PLIERS,SLIP JOINT	1	\$14.37	\$14.37
14	13351318	RATCHET HEAD,SOCKET	1	\$134.05	\$134.05
15	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
16	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
17	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
18	14863602	SPOTLIGHT	1	\$951.69	\$951.69
19	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
20	2289505	WRENCH,BOX AND OPEN	1	\$4.26	\$4.26
21	2289507	WRENCH,BOX AND OPEN	1	\$5.15	\$5.15
22	2289513	WRENCH,BOX AND OPEN	1	\$11.25	\$11.25
23	2289514	WRENCH,BOX AND OPEN	1	\$13.28	\$13.28
24	2431697	EXTENSION,SOCKET WR	1	\$7.70	\$7.70
25	2437326	EXTENSION,SOCKET WR	1	\$6.72	\$6.72
26	2278074	EXTENSION,SOCKET WR	1	\$4.57	\$4.57
27	2217958	HANDLE,SOCKET WRENC	1	\$11.69	\$11.69
28	1897924	SOCKET,SOCKET WRENC	1	\$4.29	\$4.29
29	2370984	SOCKET,SOCKET WRENC	1	\$2.36	\$2.36
30	1897946	SOCKET,SOCKET WRENC	1	\$4.12	\$4.12
31	2355870	SOCKET,SOCKET WRENC	1	\$3.42	\$3.42
32	1897985	SOCKET,SOCKET WRENC	1	\$4.55	\$4.55
33	1897933	SOCKET,SOCKET WRENC	1	\$7.01	\$7.01
34	1897934	SOCKET,SOCKET WRENC	1	\$4.62	\$4.62
35	1897935	SOCKET,SOCKET WRENC	1	\$5.67	\$5.67
36	1897927	SOCKET,SOCKET WRENC	1	\$3.79	\$3.79
37	1897913	SOCKET,SOCKET WRENC	1	\$3.65	\$3.65
38	1897914	SOCKET,SOCKET WRENC	1	\$3.46	\$3.46
39	1897917	SOCKET,SOCKET WRENC	1	\$6.33	\$6.33
40	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
41	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
42	2243154	WRENCH,BOX	1	\$13.79	\$13.79
43	13491383	WRENCH,BOX	1	\$9.50	\$9.50
44	2243138	WRENCH,BOX	1	\$13.75	\$13.75
45	14812595	CAP,ELECTRICAL	1	\$20.24	\$20.24

ENCLOSURE (58)

46	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
47	2423650	FLAGSTAFF	1	\$4.29	\$4.29
48	2271405	FLAG,SIGNAL	1	\$3.49	\$3.49
	48				\$1,945.72

ENCLOSURE (58)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467E	BOLT, MACHINE	00-933-1131	522999	2	R	29871926	SHT PART	\$9.22	
E08467E	WASHER, FLAT	00-081-4219	522999	6	R	29871926	SHT PART	\$12.66	
E08467E	RETAINER	00-009-4015	522999	2	R	29871926	SHT PART	\$12.46	
E08467E	NUT, SELF LOCKING	00-660-3381	522999	4	R	29871926	SHT PART	\$115.24	
E08467E	RETAINER, BATTERY	00-009-4016	522999	4	R	29871926	SHT PART	\$69.80	
E08467E	BOLT, TEE HEAD	00-920-0640	522999	4	R	29871926	SHT PART	\$24.04	
E08467E	SWITCH, TOGGLE	00-451-5377	522999	1	R	29871926	SHT PART	\$90.72	
E08467E	SCREW, DRIVE	00-253-5608	522999	4	R	29871926	SHT PART	\$5.28	
E08467E	SEAL, NONMETALLIC	00-439-2761	522999	6	R	29871926	SHT PART	\$113.58	
E08467E	PAD, CUSHION	00-402-6024	522999	8	R	29871926	SHT PART	\$269.68	
E08467E	SEAL, NONMETALLIC	00-439-2760	522999	8	R	29871926	SHT PART	\$688.56	
E08467E	RING, RETAINING	00-721-6876	522999	50	R	29871926	SHT PART	\$18.00	
E08467E	GUARD AND CRASH	01-257-7922	522999	2	R	29871926	SHT PART	\$49.86	
E08467E	SCREW, CAP, SOCKET	00-988-7845	522999	50	R	29871926	SHT PART	\$56.00	
E08467E	WASHER, LOCK	01-020-5947	522999	50	R	29871926	SHT PART	\$5.50	
E08467E	CABLE ASSEMBLY, R	01-304-2026	522999	10	R	2992290	SHT PART	\$227.40	
E08467E	BOLT, MACHINE	00-162-6056	522999	40	R	2992290	SHT PART	\$24.40	
E08467E	SCREW, CAP, HEXAGON	00-207-8253	522999	40	R	2992290	SHT PART	\$8.80	
E08467E	NUT, PLAIN HEXAGON	00-903-5966	522999	20	R	2992290	SHT PART	\$186.20	
E08467E	NUT, SELF LOCKING	00-927-3877	522999	20	R	2992290	SHT PART	\$23.00	
E08467E	BOLT, MACHINE	00-543-4405	522999	40	R	2992290	SHT PART	\$10.00	

ENCLOSURE (58)

DATE: 20200418

SERVICE REQUEST: 296 80890

SET SERIAL: 522288

TAMN: 07967K NSN: 2350-01-458-7318

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20190928

COMMENTS:

CONDITION CODE: F

(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN: SS6T

LTJ BY PRINT/SIGN: CP

DATE: 20200418

ENCLOSURE (59)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM 8F152B-25&P
<u>AAVC7A1</u>	TM 07267B-50
AAVR7A1	TM 07268B-25&P/2
TAC NO. <u>3H02</u>	MILES <u>1909</u>
U.S.M.C. NO. <u>522288</u>	HOURS <u>871</u>
HULL NO. <u>RAM-CX-006</u>	
ENGINE NO. <u>37189886</u>	
TRANSMISSION NO. <u>A5213E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
<u>CPL</u> (b)(3), (b)(6), (b)(7)(c) <u>S. S. S.</u> (b)(3), (b)(6), (b)(7)(c)	<u>20200415</u>
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

ENCLOSURE (58)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.						✓		Worn
b. Outer.	✓							

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Track (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.			✓					(17) 9 new pads
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks Damage	✓							
b. Hub Oil Leaks	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-13) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports. (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.	✓							
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.	✓							
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.	✓							
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outer Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Before disassembly to check for free movement of propeller.	✓							Doesn't free spin
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							port side bent
2. Horn. Check for loose mounting hardware, corrosion and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Point. Check for loose mounting hardware. Check point for free rotation and proper guide alignment.			✓					tow pinable lugs.
5. Entry Plug. Check for alignment.	✓							
6. Entry Plug and Towing Eye. Check for alignment.	✓							

ENCLOSURE (59)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).			✓					Outer bent
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							bent on bottom dashed freedom
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
Starboard Main Prop. Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Tension Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks Damage	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware	✓							
24. Starboard Dual Support Roller								
a. Support Wheel Cracks Damage	✓							
b. Hub Oil Leaks	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware	✓							
25. Starboard Front Single Support Roller								
a. Support Wheel Cracks Damage	✓							
b. Hub Oil Leaks	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.			✓					4 track shoes (A)
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.						✓		worn
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.			✓					(10) 1 bolt
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Head Rails.	✓							
37. Boom Loop. Check for weld cracks.	✓							

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓	✓						NO STEPS
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE: Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly (Para. 8-17).	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators.								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.			✓					Ⓢ CRP & chain
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓		✓					LOW torsion
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓		✓					crash pads Ⓢ hatch
e. Vision Blocks.	✓							buggy
f. DVE Adapter Assembly.	✓							st
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes (flange).	✓							

NOMENCLATURE-LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.		✓						(not to place)
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. FLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Brake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hose.	✓							
c. Hose Fittings.	✓							

ENCLOSURE (59)

NOMENCLATURE, LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
4. Cooling Fan.									
a. Guard.		✓							
b. Shroud.		✓							
c. Fan.		✓							
d. Bearings.		✓							
e. Belt Adjustment.		✓							
f. Seals.		✓							
g. Fan Cartridge Bearing.		✓							
h. Drain Tube.		✓							
5. Surge Tank.									
a. Tank.		✓							
b. Valve.		✓							
c. Hose and Tubes.		✓							
d. Mounting Hardware.		✓							
6. Crew Ventilation.									
a. Ducts, Clamps, and Hoses.		✓							
b. Drain Tube.				✓					not installed
7. Control Linkages.									
a. Brake Linkage.			✓						needs PM
b. Steering Linkage.		✓							
c. Throttle Linkage.		✓							
d. Brake Flood Control Valve Linkage.		✓							
NOTE									
Make sure flood valve spindle moves freely.									
e. Engine Compartment Exhaust Fan Linkage.		✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.		✓							
9. Electrical Wiring and Connections.									
a. Bulk Head Connectors.		✓							
b. Power Plant Wiring.		✓							
c. Over-Volt Fan.		✓							
d. Electrical Bidge Pump.		✓							
Make sure voltage regulator is set. Check for loose wiring or loose connections. Check for damage.		✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wiring.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wiring.	✓							
24. Starboard Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.			✓					(M) clamps
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
d. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							Needs PM
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment									
NOTE									
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.									
1. Engine Compartment Access Covers (all). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.									
a. Aft Upper.		✓							
b. Aft Center.		✓							
c. Aft Lower.		✓							
d. Port Upper.		✓							
e. Port Lower.		✓							
f. Smoke Generation.		✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.		✓							
3. Engine Compartment Fire Extinguisher.									
a. Bottle and Tag.			✓						(M) f 119
b. Control Valve.		✓							
c. Clamps.		✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.		✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.		✓							
6. Air Cleaner Compartment.									
a. Access Door.		✓							
b. Retaining Brackets.		✓							
c. Element.		✓							
d. Compartment.		✓							
High Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.		✓							
Starboard Longitudinal Hatch Cover. Check for damage. Check for correct mating and damage.		✓							
		✓							

ENCLOSURE (59)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Towage Distribution Box. Check to see if bolts are properly secured. Check all electrical connections for continuity. Check wires for tight joints. Check slave...	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port.	✓							
b. Starboard.	✓							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.						✓		Gull HC has broken
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Tripod Ventilation Outlets. Check for free movement and damaged hardware.	✓							
23. Tripod Inlet Outlets. Check for free movement and damaged hardware. Check for free movement and damaged hardware.	✓							

ENCLOSURE (59)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tube and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							Ⓜ
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag.	✓	✓						Ⓜ tag
c. Wire Seat.	✓							
d. Flapper Valve. Check for damage and tightness.	✓							
e. Flapper Valve. Check for damage and tightness.	✓							

ENCLOSURE (59)

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓		✓			✓		insp
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
<p>NOTE</p> <p>Bar scales and warning lights will be checked during the operational portion of preinduction.</p>								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (19)

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.			✓					① cover & chain Chen
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.		✓						① gear plate
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE								
At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							① cover MFSSS
b. Discharge Tube and Seal.	✓							
c. Trip Date.	✓							
d. Seal.	✓							
33. Fire Alarm System. Check system for damage and operation. Check for proper operation.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM		✓						1000 RPM
d. TACNAV Indicator. Check that system powers and display works.			✓					inop
4. Lights. Check that lights work properly.								
a. Light Switch	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Light.	✓							
i. Interior Viewport Illumination. Check that power is on both.	✓							
j. Any Test Warning Control. Check that power is on both.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE:

See TM 10004A-25&P 2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P 4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P 2 for LTI of AAVC7A1 Unique Items.

APPENDIX E
ASSAULT AMPHIBIOUS VEHICLE
AAVC7A1
LIMITED TECHNICAL INSPECTION

TAC No. 3 HNDZ USMC No. 522288 Miles 1909 Hours 341
 Date Inspected 20200415 Inspector BSGT (b)(3), (b)(6), (b)(7)(c) CPL (b)(3), (b)(6), (b)(7)(c)

NOTE

Perform inspections listed below in addition to those contained in Appendix E, TM 09674A-25&P/4.

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable
I.	Outside of Vehicle								
1.	Vehicle Commander's Hatch								
	a. Cover and Hinges	✓							
	b. Torsion Bar	✓							
	c. Latches (Open and Closed)	✓							
	d. Seals and Pads	✓							
	e. Vision Blocks	✓							
	f. M240 Machine Gun Pintle	✓							
2.	Antenna Mounts								
	a. AS-3916/VRC (5) /W/(3 GPS) (8)	✓	✓						Ⓜ 3
	b. AS-3449/VSQ-1 EPLRS (2)	✓							
	c. Model 4244-1 HF (1)	✓							
	d. 4310 UHF (1)	✓							
	e. AN0791A-1 OS-302 (1) SATCOM	✓							
	f. AT-1621-5 (2)	✓							
	g. MT-2011 (1) BFT	✓							
	h. RA-1 (1) DAGR	✓							
II.	Vehicle Commander's Station								
1.	Vehicle Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belts and cushions for damage.	✓							

ENCLOSURE (59)

E-1

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable
III. Staff Radios And Switching Unit									
1.	RT-1694 (C) Receiver-Transmitter. Check knobs and push button switches for cracks and/or breaks. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
2.	Model 4310 Ultra High Frequency Antenna. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
3.	RT-1796 (C) Receiver-Transmitter. Check knobs and push button switches for cracks and/or breaks. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.					✓			mode knob broken, requires repair/float SN 44160
4.	Model 4244 High Frequency Antenna. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
5.	1796 RT- 1796 (C) Receiver-Transmitter. Check knobs and push button switches for cracks and/or breaks. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
6.	RT-1720 (C) EPLRS Receiver-Transmitter. Check knobs and push button switches for cracks and/or breaks. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.		✓						we don't operate EPLRS
7.	AS-3449/VSQ-1 EPLRS. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation; bent or broken connector pins, and tightness of connectors.					✓			PM connector & threads. Corroded/possibly inop
8.	RT-1523/VRC Receiver-Transmitter. Check for torn key pad. Check for loose, broken or missing knobs. Check for missing screws for Hold Up Battery. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable
IV. Crew Radios And Switching Unit									
1.	RT-1523/VRC Receiver-Transmitter. Check for torn key pad. Check for loose, broken or missing knobs. Check for missing screws for Hold Up Battery. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
2.	AS-3916/VRC Antenna. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.		✓				✓		missing 3 AS 3916's. need 4 collet bolts for the 5 we have
3.	AM-7239/VRC Amplifier Adapter. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
4.	AM-7238/VRC Power Amplifier. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
5.	MT-6352/VRC Mounting Base. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
6.	TOCNET Enhanced Crew Access Unit (eCAU). Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
7.	Check Tactical Radio Interface Module (TRIM). Ensure TRIM interfaces with the EMCSU and accesses the crew radio system.	✓							
V. Alternating and Direct Current Power Distribution Units									
1.	Check unit for missing or loose mounting hardware.	✓							
2.	Check cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
VI. Work Station Module									
1.	Work Station Crew Seats (Port/Starboard). Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belts and cushions for damage.	✓							
2.	Work Station Crew Seats BFT Monitor Keyboard Support Arm Assembly. Check to see the condition and secure in place.	✓							
3.	Work Station Crew Seats eCAU Support Arm Assembly. Check to see the condition and secure in place.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable
III. Staff Radios And Switching Unit (Cont.)								
9. AS-3916/VRC Antenna. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							Missing 3 AS 3916s Missing 4 collet bolts for the 5 we
10. AM-7239/VRC Amplifier Adapter. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
11. MT-2011 Blue Force Tracking antenna. Antenna. Check for bent or broken element. Check for missing element cap. Check antenna base for cracked or broken insulators. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
12. AM-7238/VRC Power Amplifier. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.					✓			2 antenna cables frayed. Repair cable
13. MT-6352/VRC Mounting Base. Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
14. TOCNET Tactical Inter-Communication System's Enhanced Micro Central Switching Units (EMCSU). Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
15. TOCNET enhanced Crew Access Unit (eCAU). Check for loose or missing mounting hardware. Check all cables for frayed and/or broken insulation, bent or broken connector pins, and tightness of connectors.	✓							
16. TOCNET Soft Crew Access Unit (CAU). Ensure software is properly configured on Soft CAU laptop and configuration files are loaded on the EMCSU.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable
VI. Work Station Module (Cont.)								
4. Work Station Crew Seats AFATDS Support Arm Assembly. Check to see the condition and secure in place.	✓							
5. Work Station Crew Seats Port Laptop Mount Arm Assembly. Check to see the condition and secure in place.	✓							
6. Work Station Crew Seats Starboard Laptop Mount Arm Assembly. Check to see the condition and secure in place.	✓							
7. Work Station Crew Seat 1 (Port)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.	✓							
c. Soft CAU. Verify in the program directory.	✓							
d. Docking Station. Check that electrical and connections are tight and in good condition.	✓							
e. DVD Drive +/- . Check that electrical and connections are tight and in good condition.	✓							
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.	✓							
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.	✓							
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.		✓						(M) WS light
i. BFT Display. Check that electrical and connections are tight and in good condition.	✓							
8. Work Station Crew Seat 2 (Port)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.	✓							
c. Soft CAU. Verify in the program directory.	✓							
d. Docking Station. Check that electrical and connections are tight and in good condition.	✓							
e. DVD Drive +/- . Check that electrical and connections are tight and in good condition.	✓							
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.	✓							
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.	✓							
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.		✓						(M) WS light

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable
VI. Work Station Modules (Cont.)								
9. Work Station Crew Seat 3 (Port)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.		✓						NO CF in WS
c. Soft CAU. Verify in the program directory.								cant verify
d. Docking Station. Check that electrical and connections are tight and in good condition.	✓							
e. DVD Drive +/- . Check that electrical and connections are tight and in good condition.								CV
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.								CV
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.								CV
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.		✓						(M) WS light
10. Work Station Crew Seat 4 (Starboard)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.	✓							
c. Soft CAU. Verify in the program directory.	✓							
d. Docking Station. Check that electrical and connections are tight and in good condition.	✓							
e. DVD Drive +/- . Check that electrical and connections are tight and in good condition.	✓							
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.	✓							
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.	✓							
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.	✓							WS Light imp
i. AFATDS Tadpole.	✓							
11. Work Station Crew Seat 5 (Starboard)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.	✓							
c. Soft CAU. Verify in the program directory.	✓							
d. Docking Station. Check that electrical and connections are tight and in good condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable
VI. Work Station Modules (Cont.)								
e. DVD Drive +/- Check that electrical and connections are tight and in good condition.	✓							
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.	✓							
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.	✓							
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.	✓							
12. Work Station Crew Seat 6 (Starboard)								
a. eCAU. Check that electrical and connections are tight and in good condition. Complete Built-In Test (BIT).	✓							
b. CF-19. Check that electrical and connections are tight and in good condition.	✓							AO CF in WS
c. Soft CAU. Verify in the program directory.								CV
d. Docking Station. Check that electrical and connections are tight and in good condition.								CV
e. DVD Drive +/- Check that electrical and connections are tight and in good condition.								CV
f. USB Jack Box Assembly. Check that electrical and connections are tight and in good condition.	✓							
g. Convenience Outlet. Check that electrical and connections are tight and in good condition.	✓							
h. Work Light Assembly. Check that electrical and connections are tight and in good condition.	✓							
VII. DAGR Assembly								
1. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.	✓							
b. Check for security and condition.	✓							
2. DAGR Remote Antenna. Check security and condition of cover	✓							
3. DAGR Operational Test								
a. Check that DAGR passes self-test.					✓			DAGR (M) cable won't power on
b. Check that DAGR is using vehicle power.					✓			
c. Check that DAGR is using remote antenna.					✓			
d. Check functioning of DAGR screen back lighting.					✓			
VIII. Windows Server								
1. Check that electrical and connections are tight and in good condition.	✓							
2. Check for security and condition.	✓							

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable
IX.	Network Router								
	1. Check that electrical connections are tight.	✓							
	2. Check for security and condition.	✓							
X.	Network Switch								
	1. Check that electrical connections are tight.	✓							
	2. Check for security and condition.	✓							
XI.	SIXNET Hub								
	1. Check that electrical and connections are tight and in good condition.	✓							
	2. Check for security and condition.	✓							
XII.	Iridium Phone Base								
	1. Check that electrical and connections are tight and in good condition.	✓							
	2. Check for security and condition.					✓			dangling. not mounted
	3. Check mounting hardware for damage and tightness.					✓			11

522288					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	433463	HANDSET	1	\$52.52	\$52.52
2	13552064	BAR,PRY	1	\$9.95	\$9.95
3	10226004	CABLE ASSEMBLY,POWE	1	\$341.68	\$341.68
4	11348528	CURTAIN,BLACKOUT	1	\$49.40	\$49.40
5	2241390	CROWBAR	1	\$49.45	\$49.45
6	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
7	10635996	GOGGLES,INDUSTRIAL	1	\$17.66	\$17.66
8	618546	HAMMER,HAND	1	\$23.24	\$23.24
9	2657462	HAMMER,HAND	1	\$24.48	\$24.48
10	2630349	HANDLE,FILE	1	\$1.59	\$1.59
11	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
12	2432395	MATTOCK	1	\$13.71	\$13.71
13	2558113	MEASURE,LIQUID	1	\$45.40	\$45.40
14	6821508	PADLOCK	1	\$7.18	\$7.18
15	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
16	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
17	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
18	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
19	13784933	SOCKET,SOCKET WRENC	1	\$31.25	\$31.25
20	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
21	1776154	SPOUT,CAN,FLEXIBLE	1	\$11.65	\$11.65
22	2289503	WRENCH,BOX AND OPEN	1	\$2.15	\$2.15
23	2289504	WRENCH,BOX AND OPEN	1	\$4.43	\$4.43
24	2289505	WRENCH,BOX AND OPEN	1	\$4.26	\$4.26
25	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
26	2278074	EXTENSION,SOCKET WR	1	\$4.57	\$4.57
27	2217958	HANDLE,SOCKET WRENC	1	\$11.69	\$11.69
28	2306385	HANDLE,SOCKET WRENC	1	\$37.69	\$37.69
29	1897932	SOCKET,SOCKET WRENC	1	\$3.64	\$3.64
30	1897946	SOCKET,SOCKET WRENC	1	\$4.12	\$4.12
31	1897933	SOCKET,SOCKET WRENC	1	\$7.01	\$7.01
32	1897914	SOCKET,SOCKET WRENC	1	\$3.46	\$3.46
33	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
34	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
35	13491383	WRENCH,BOX	1	\$9.50	\$9.50
36	14806390	CABLE ASSEMBLY,SPEC	1	\$343.25	\$343.25
37	14812598	CAP,ELECTRICAL	1	\$41.40	\$41.40
38	14810596	GASKET	1	\$18.42	\$18.42
39	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
40	9221200	FIRST AID KIT,UTILI	1	\$51.90	\$51.90
41	11870964	SHACKLE	1	\$36.08	\$36.08
42	9857846	BATTERY,NONRECHARGE	1	\$6.50	\$6.50
43	8357210	BATTERY,NONRECHARGE	1	\$9.20	\$9.20
44	13786054	EXTENSION,SOCKET WR	1	\$6.90	\$6.90
45	7083799	FIXTURE ASSEMBLY,TR	1	\$119.95	\$119.95

46	2886574	HANDLE,MATTOCK-PICK	1	\$12.93	\$12.93
47	10711746	HOIST,WIRE ROPE	1	\$269.39	\$269.39
48	2211536	KNIFE,PUTTY	1	\$5.11	\$5.11
49	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
50	11187711	LIFTER,ROAD WHEEL	1	\$248.91	\$248.91
51	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
52	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
53	11661730	FIBER ROPE ASSEMBLY	2	\$164.67	\$329.34
54	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
55	11955355	BRUSH,WIRE,SCRATCH	1	\$1.80	\$1.80
56	2363272	CHISEL,COLD,HAND	1	\$5.05	\$5.05
57	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
58	2558113	MEASURE,LIQUID	1	\$45.40	\$45.40
59	2628868	OILER,HAND	1	\$6.96	\$6.96
60	13351318	RATCHET HEAD,SOCKET	1	\$134.05	\$134.05
61	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
62	14863602	SPOTLIGHT	1	\$951.69	\$951.69
63	2289507	WRENCH,BOX AND OPEN	1	\$5.15	\$5.15
64	2289516	WRENCH,BOX AND OPEN	1	\$17.43	\$17.43
65	2431697	EXTENSION,SOCKET WR	1	\$7.70	\$7.70
66	1897935	SOCKET,SOCKET WRENC	1	\$5.67	\$5.67
67	2243154	WRENCH,BOX	1	\$13.79	\$13.79
68	2243138	WRENCH,BOX	1	\$13.75	\$13.75
69	14789090	COVER,GUN	1	\$101.36	\$101.36
70	13375269	CAN,MILITARY	2	\$44.09	\$88.18
	70				\$4,083.01

ENCLOSURE (54)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E07967K	MANIFOLD, EXHAUST	01-497-4810	522288	1 R		29984958	RPR PRGS	\$2,763.17	

ENCLOSURE (54)