

DATE: 20200413

PURPOSE OF LTI: JLTJ

SERVICE REQUEST: 29796648

RESPONSIBLE UNIT: 30 AA BN

SET SERIAL: 523612

NOMENCLATURE: AWP7A)

TAMN: E08467K 2350  
NSN: 01-458-7410

[illegible]

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, 00-086-4293

CONDITION CODE: F(1.1) ~~AT~~ O P S)

LTI BY PRINT/SIGI

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

LTI BY PRINT/

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

DATE: 20200413

ENCLOSURE (58)

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 14224
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
(b)(3), (b)(6), (b)(7)(c)	24132020
<p>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 (5)

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 seat
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)		✓						(M) 2 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.
<b>11. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.</b>								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
<b>12. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.</b>								
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	✓							
<b>13. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.</b>								
1 2 3 4 5 6	✓							
<b>14. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.</b>								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
<b>15. Port Shock Absorbers. (Para. 7-11)</b>								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
<b>16. Port Front Single Support Roller. (Para. 7-14)</b>								
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.			✓					FA02E
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.
<b>19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.</b>								
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	✓							
<b>20. Starboard Support Arms. Circle those numbers which are unserviceable.</b> 1 2 3 4 5 6	✓							
<b>21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable.</b> 1 2 3 4 5 6	✓							
<b>22. Starboard Shock Absorbers</b>								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
<b>23. Starboard Front Single Support Roller</b>								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
<b>24. Starboard Dual Support Roller</b>								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
<b>25. Starboard Rear Single Support Roller</b>								
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 Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.			✓					45° Downward
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. Radiator Cover and Cap. Check ballistics cover for damage and radiator cap for proper sealing. (Para. 8-19)	N							

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)								
<b>NOTE</b> 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 misstalled 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.								
<b>NOTE</b> Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					6 Bolts
c. TACNAV sensor.			✓					Clipped Pedestal
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.			✓					Wose
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.
<b>11. Port Final Drive</b>								
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.	✓							
<b>21. Starboard Final Drive</b>								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.		②	✓					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.	✓							
VI. Engine Compartment (Att)								
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.			✓					need 1-2 quarts
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.			✓					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.
<b>VII. Troop Compartment</b>								
<b>NOTE</b>								
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) 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.		✓						(M) belt
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.			✓					Plugs 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.
<b>15. Batteries</b>								
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.	✓							
<b>17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.</b>								
a. Port	✓							
b. Starboard.	✓							
<b>18. Water-Ster System Components</b>								
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.	✓							
<b>19. AFSSS Electrical Components</b>								
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.
<b>24. Ramp.</b> 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.	✓							
<b>25. Deck Plates.</b>								
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.	✓							
<b>NOTE</b> 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 clamp broken
<b>29. Hydraulic Bilge Pump</b>								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
<b>30. Electric Bilge Pump</b>								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
<b>31. Bilges.</b> Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
<b>32. Fire Extinguisher (17 lb)</b>								
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.	✓	✓						(M) 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

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.	✓							
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.	✓							Ⓜ 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)								
<p align="center"><b>NOTE</b></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.
<b>IX. Equipment Operation</b>								
<b>1. Start vehicle, check operation of the following:</b>								
a. Master Switch.	✓							
b. Horn.			✓					INSP
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).								
<b>3. Vehicle Stall Check: With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:</b>								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2650 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
<b>4. Lights. Check that lights work properly:</b>								
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.
<b>X. Functional Road Test</b>								
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.	✓							
<b>XI. Water Systems Test</b>								
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.	✓							
<b>5. Bow Plane Operation</b>								
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.

100P  
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 Inspect (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.
<b>I. Basket Weldment</b>								
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.	✓							
<b>II. Weapons Station Interior</b>								
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. 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.			✓					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 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.	✓							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 covered

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.
<b>III. Weapons Station Exterior</b>								
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.	✓							
<b>3. Smoke Grenade Launchers</b>								
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 Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
<b>IV. Functional Tests:</b>								
<b>1. Manual Operation. Check for weapons station binding and backlash.</b>								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
<b>2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.</b>								
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.		✓						M
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 sp

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.	✓							
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 11-5820-11/2-13.								
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.		✓						

ITEM	DESCRIPTION	MSN	SERIAL#	QTY	SL-3 Complete (Y/N)	STK	SR Status	PRICE EACH	TOTAL	REMARKS
EOB467K	2 - CAP, Protective Dust And Moisture Seal, PN A320252-1, CAGE 80063	5340-01-381-5666	523612	2	N	29916248	A	\$13.19	\$26.38	
EOB467K	WIRE, ROPE ASSEMBLY, Single Leg, PN A320152-1, CAGE 80063	4210-01-361-1581	523612	2	N	29916248	A	\$9.31	\$18.62	
EOB467K	EXTINGUISHER, Pkg, PN 322 CAGE 54905	5340-00-566-7579	523612	1	N	29916248	A	\$117.57	\$117.57	
EOB467K	STRAP, Webbing, 18 in. lg, PN 8690471 CAGE 19207	5340-00-753-3742	523612	14	N	29916248	A	\$2.89	\$40.46	
EOB467K	STRAP, Webbing, 30 in. lg, PN 8690473 CAGE 19207	5340-00-753-3742	523612	15	N	29916248	A	\$1.51	\$22.65	
EOB467K	STRAP, Webbing, 36 in. lg, PN 8690473 CAGE 19207	5340-00-753-3744	523612	9	N	29916248	A	\$7.18	\$10.62	
EOB467K	STRAP, Webbing, 42 in. lg, PN 8690473 CAGE 19207	5340-00-958-6917	523612	1	N	29916248	A	\$16.41	\$16.41	
EOB467K	STRAP, Webbing, 60 in. lg, PN 8690481 CAGE 19207	5340-00-949-8637	523612	6	N	29916248	A	\$6.23	\$37.38	
EOB467K	STRAP, Webbing, 72 in. lg, PN 8690484 CAGE 19207	5340-00-949-8637	523612	4	N	29916248	A	\$5.84	\$23.36	
EOB467K	STRAP, Webbing, 76 in. lg, PN 8690485 CAGE 19207	5340-00-949-8637	523612	1	N	29916248	A	\$5.84	\$5.84	
EOB467K	STRAP, Webbing, 84 in. lg, PN 8690487 CAGE 19207	5340-00-949-8637	523612	2	N	29916248	A	\$6.78	\$13.56	
EOB467K	STRAP, Webbing, 88 in. lg, PN 8690536 CAGE 19207	5340-00-132-3631	523612	1	N	29916248	A	\$6.15	\$6.15	
EOB467K	STRAP, Webbing, 100 in. lg, PN 8690539 CAGE 19207	5340-01-078-3908	523612	1	N	29916248	A	\$3.09	\$3.09	
EOB467K	STRAP, Webbing, 100 in. lg, PN 8690539 CAGE 19207	2630-01-442-3966	523612	2	N	29916248	A	\$202.00	\$404.00	
EOB467K	BAR, Pry, 0.3 lb, PN B107-410 CAGE 05047	5120-01-355-2064	523612	1	N	29916248	A	\$9.95	\$9.95	
EOB467K	BATTERY, Nonrechargeable, 1.5 v, "C" cell, for Pelican light, PN 14A CAGE 80204	6135-00-985-7846	523612	8	N	29916248	A	\$6.31	\$50.48	
EOB467K	BATTERY, Nonrechargeable, 1.5 v, "D" cell, for flashlight, PN 13A CAGE 80204	6135-00-835-2710	523612	4	N	29916248	A	\$9.00	\$36.00	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 16 in. lg, PN 1122 CAGE 55719	7020-01-135-5455	523612	1	N	29916248	A	\$1.80	\$1.80	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 3 in. lg, PN 132 CAGE 55719	5120-01-335-1064	523612	1	N	29916248	A	\$12.36	\$12.36	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 3 in. lg, PN 132 CAGE 55719	5120-01-378-6054	523612	1	N	29916248	A	\$6.50	\$6.50	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 3 in. lg, PN 132 CAGE 55719	5120-01-378-6054	523612	1	N	29916248	A	\$24.48	\$24.48	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 3 in. lg, PN 132 CAGE 55719	5120-00-765-7462	523612	1	N	29916248	A	\$1.30	\$1.30	
EOB467K	EXTENSION, Socket Wrench, 3/4 in. dr, 3 in. lg, PN 132 CAGE 55719	6240-00-185-8675	523612	1	N	29916248	A	\$6.50	\$6.50	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	6240-00-019-3093	523612	1	N	29916248	A	\$5.47	\$5.47	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	4930-00-282-4868	523612	1	N	29916248	A	\$6.47	\$6.47	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-662-1508	523612	1	N	29916248	A	\$7.83	\$7.83	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-00-294-5274	523612	1	N	29916248	A	\$20.36	\$20.36	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-00-106-5671	523612	1	N	29916248	A	\$10.64	\$10.64	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-00-331-5581	523612	1	N	29916248	A	\$2.36	\$2.36	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	4010-01-381-5586	523612	2	N	29916248	A	\$13.19	\$26.38	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-01-428-7971	523612	1	N	29916248	A	\$9.31	\$9.31	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-01-428-7970	523612	1	N	29916248	A	\$1.37	\$1.37	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5120-01-428-8003	523612	1	N	29916248	A	\$2.81	\$2.81	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-753-3742	523612	4	N	29916248	A	\$2.18	\$8.72	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-339-3788	523612	2	N	29916248	A	\$1.41	\$2.82	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-864-5542	523612	9	N	29916248	A	\$6.23	\$56.07	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-864-5542	523612	8	N	29916248	A	\$6.78	\$54.24	
EOB467K	LAMP, Incandescent, C-9, 100 W, 120 V, B-3 1/2 bulb, 1.250 in. lg, PN PR-5 CAGE 21744	5340-00-134-3106	523612	1	N	29916248	A	\$3.56	\$3.56	
TOTAL									\$1,118.82	

ENCLOSURE (53)

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)

DATE: 20200413

SERVICE REQUEST: 29940628

SET SERIAL: 522932

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: 20191021

COMMENTS: SPOUT, CAN FLEXIBLE, QTY, 00-177-6154, WRENCH, ADJUSTABLE, QTY, 00-240-1414,

CONDITION CODE: A

LTI BY PRINT/SIG

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

LT: BY PRINT/SIGN

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

DATE: 2020/04/13

ENCLOSURE (5)



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  (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED 20200413

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.

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. 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.
<b>11. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.</b>								
a. Track Shoes.	✓							Lowered in sand
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.				✓				
<b>12. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.</b>								
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	✓							
<b>13. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.</b>								
1 2 3 4 5 6	✓							
<b>14. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.</b>								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
<b>15. Port Shock Absorbers. (Para. 7-11)</b>								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
<b>16. Port Front Single Support Roller. (Para. 7-14)</b>								
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 54

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
<b>7. Vision Block and Guard</b>								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
<b>8. Personnel Hatch</b>								
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.	✓							
<b>10. Trailer Receptacle</b>								
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.	✓							
<b>15. Starboard Idler Wheel and Hub</b>								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
<b>16. Starboard Track Tension Adjuster</b>								
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								
<p><b>NOTE:</b> Make sure intake grille is secured properly in raised position.</p>								
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 ballastic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

ENCLOSURE (54)

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)  <b>NOTE</b> 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.								
<b>NOTE</b> 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.
<b>11. Port Final Drive</b>								
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.	✓							
<b>21. Starboard Final Drive</b>								
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 (51)

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.	✓							
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.
<b>VII. Troop Compartment</b>								
<b>NOTE</b>								
Before inspecting troop compartment, open cargo hatch. 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.	✓							

ENCLOSURE (34)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>10. Fuel Tank Drains.</b> 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.	✓							
<b>11. Fuel Tank.</b>								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
<b>12. Troop Seats.</b>								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
<b>13. Interior Stowage.</b>								
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.	✓							
<b>14. Power Distribution Box.</b> 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)

[illegible]

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 (MFSS and AFSSS)								
<b>NOTE</b> 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.
<b>IX. Equipment Operation</b>								
<b>1. Start vehicle; check operation of the following:</b>								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).			✓					FWD (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).								
<b>3. Vehicle Stall Check: With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:</b>								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2300 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
<b>4. Lights. Check that lights work properly.</b>								
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 (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>X. Functional Road Test</b>								
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.	✓							
<b>XL Water Systems Test</b>								
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.	✓							
<b>5. Bow Plane Operation</b>								
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. 3-11-03 USMC No. 522932 Miles 1427 Hours 299  
 Date Inspected 20200413 Inspector \_\_\_\_\_

(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.
<b>I. Basket Weldment</b>								
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.	✓							
<b>II. Weapons Station Interior</b>								
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	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.	✓							
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.
<b>III. Weapons Station Exterior</b>								
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.	✓							
<b>3. Smoke Grenade Launchers</b>								
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.	✓							
<b>IV. Functional Tests</b>								
<b>1. Manual Operation. Check for weapons station binding and backlash.</b>								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
<b>2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.</b>								
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 11-5820-1172-13								
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	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 (34)

DATE: 20200415

SERVICE REQUEST: 29876112

SET SERIAL: 523311

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: 2019 1031

COMMENTS:

CONDITION CODE: A

LT1 BY PRINT/SIGN

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

LTI BY PRINT/SIG

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

DATE: 20200418

ENCLOSURE (55)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) AAVP7A1 AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4      TM 8F152B-25&P TM 07267B-50 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  (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED <u>26200415</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.
<b>11. Port Track (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.</b>								
a. Track Shoes.	/							
b. Track Pads.	/							
c. Track Pins.	/							
d. Track Wear.	/							
e. Track Adjustment.	/							
<b>12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.</b>								
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	/							
<b>13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.</b>	/							
1 2 3 4 5 6								
<b>14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.</b>								
a. Torsion Bars. 1 2 3 4 5 6	/							
b. Retaining Screws. 1 2 3 4 5 6	/							
<b>15. Port Shock Absorbers (Para. 7-11)</b>								
a. No. 1 Shock.	/							
b. No. 2 Shock.	/							
c. No. 3 Shock.	/							
d. No. 4 Shock.	/							
e. Mounting Hardware.	/							
<b>16. Port Front Single Support Roller (Para. 7-14)</b>								
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.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.</b>								
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	/							
<b>20. Starboard Support Arms. Circle those numbers which are unserviceable.</b> 1 2 3 4 5 6	/							
<b>21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable.</b> 1 2 3 4 5 6	/							
<b>22. Starboard Shock Absorbers.</b>								
a. No. 1 Shock	/							
b. No. 2 Shock	/							
c. No. 3 Shock	/							
d. No. 4 Shock	/							
e. Mounting Hardware.	/							
<b>23. Starboard Front Single Support Roller.</b>								
a. Support Wheel Cracks/Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							
<b>24. Starboard Dual Support Roller.</b>								
a. Support Wheel Cracks Damage.	/							
b. Hub Oil Leaks.	/							
c. Hub Oil Level.	/							
d. Mounting Hardware.	/							
<b>25. Starboard Rear Single Support Roller.</b>								
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								
<b>NOTE</b> 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 filter screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballene 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.
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).			/					Prt. Fig handle ① m 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><b>NOTE</b> Make sure intake grille is properly secured in raised position.</p>								
a. Bow Plane Velocity Fuse Valves.	/							
b. Bow Pod Access Cover.		/						① 2 Bdr
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.
<b>11. Port Final Drive</b>								
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.	/							
<b>21. Starboard Final Drive</b>								
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

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) Bellow 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. Tachometer Drive Shaft. Check for adapter and cable 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 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.
VII. Troop Compartment								
<b>NOTE</b> 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.	/							
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.
<b>15. Batteries</b>								
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.	✓							
<b>17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.</b>								
a. Port	✓							
b. Starboard.	✓							
<b>18. Water Slicer System Components</b>								
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.	✓							
<b>19. AFSSS Electrical Components</b>								
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.
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. EPIRS 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.
<b>IX. Equipment Operation</b>								
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 comm helmet.	/							

## APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE  
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

## LIMITED TECHNICAL INSPECTION

TAC No. 34604 USMC No. 523311 Miles 1763 Hours 9.39  
 Date Inspected 20200415 Inspector (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.	/		/					(M) for 12
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.
<b>III. Weapons Station Exterior</b>								
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.	/							
<b>3. Smoke Grenade Launchers</b>								
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.	/							
<b>IV. Functional Tests</b>								
<b>1. Manual Operation. Check for weapons station binding and backlash.</b>								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	/							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	/							
<b>2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.</b>								
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.	/							

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	

ENCLOSURE (55)



**ASSAULT AMPHIBIOUS VEHICLE**  
**AAV P 7A1 RAM/RS**

**L NO.**

**HOISTING WT**

**M/RS CONVERSION MO AND YEAR**

**BUILD STANDARD**

**LOCATION**

**IN NO.**

**USMC NO.**

CC02 4-TTW-290: 8/0



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

LTI BY PRINT/SIGN

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

LTI BY PRINT/SIGN

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

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>3HN04</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  (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED <u>70200415</u>
<p>The following inspection sheets are attached into cover column. 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.</p>	

ENCLOSURE (SE)

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.	✓							

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.	✓							

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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.								
<b>NOTE</b> 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)								
<b>NOTE</b> 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.		✓						(M) CRASH PAD
e. Vision Blocks.						✓		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.								
<b>NOTE</b> 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.	✓							

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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 (58)

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. 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 (56)



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								
<b>NOTE</b> 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.			✓					1 PANE BRACKET (M)
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.		✓						(M) 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 (LAMP)
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.	✓							
<b>NOTE</b> 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.			✓					⑦ 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.			✓					⑦ 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 (52)



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 ADJS 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).								
<b>NOTE</b> 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.
<b>IX. Equipment Operation</b>								
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 DOESNT 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 (86)

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&amp;P/2 for LTI of UGWS Unique Items.

See TM 07267B-25&amp;P/4 for LTI of AAVR7A1 Unique Items.

See TM 07268B-25&amp;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

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

\*See Table C-1 for UGWS

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. Unit working properly belt in good condition.	✓							
b. Slowed down do not overhang basket.	✓							
c. Working condition. Belts in all proper, no loose or worn assembly.			✓					Assist For Seat Broken
II. Weapons Section 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.	✓	✓	✓					② 3 Bolts Loose
b. Electrical connectors tight and in good condition.	✓							

ENCLOSURE (5B)

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 IN OP
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.	✓							



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

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)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM
RAM/RS	8F152B-25&P TM 07267C-25&P/2
AAVC7A1	TM 07268C-25&P/2
RAM/RS	
AAVR7A1	
RAM/RS	
TAC NO. 3B110	MILES 345
U.S.M.C. NO. 522681	HOURS 67
HULL NO. RAM-5-0040	
ENGINE NO. 37204294	
TRANSMISSION NO. A600E	
INSPECTOR'S NAME/RANK/SIGNATURE REFERENCES	DATE INSPECTED
(b)(3), (b)(6), (b)(7)(c)	20200914
<p>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.</p>	

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 trip  
 routing electrical connections per DADR  
 Thermal alarm stays in self check

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>I. Outside of Vehicle (Forward and Port)</b>								
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.
<b>10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.</b>								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
<b>11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.</b>								
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	✓							
<b>12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable.</b>	✓							
1 2 3 4 5 6								
<b>13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.</b>								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
<b>14. Port Shock Absorbers. (Para. 7-11)</b>								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
<b>15. Port Front Single Support Roller. (Para. 7-14)</b>								
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.	✓							<del>Needs to be checked</del>
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.	✓	✓						

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)								
<b>NOTE</b> 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.	✓							
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.								
<b>NOTE</b> 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.	✓							
<b>NOTE</b>								
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.	✓							

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.
<b>VII. Troop Compartment</b>								
<b>NOTE</b> 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.	✓							
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.
<b>15. Batteries</b>								
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.	✓							
<b>17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.</b>								
a. Port	✓							
b. Starboard.	✓							
<b>18. Water Steer System Components</b>								
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.	✓							
<b>19. AFSSS Electrical Components</b>								
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. 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).	✓							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.	✓							
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.					✓			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.	✓							

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.	✓							
<b>NOTE</b> 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.	✓							

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"><b>NOTE</b></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.
<b>IX. Equipment Operation</b>								
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.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>X. Functional Road Test</b>								
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.	✓							
<b>XI. Water Systems Test</b>								
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.	✓							
<b>5. Bow Plane Operation.</b>								
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.
<b>I. Basket Weldment</b>								
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.	✓	✓						
<b>II. Weapons Station Interior</b>								
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.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>3. Low Ammo System Test</b>								
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.	✓							
<b>4. Weapons Station System. Perform test as prescribed in Section 3</b>								
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.	✓							
<b>5. Smoke Grenade Launcher Test</b>								
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.								
<b>6. DAGR Operational Test. Refer to TM 11-5820-1172-13.</b>								
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.								

DATE: 20200415

SERVICE REQUEST: 29871926

SET SERIAL: 522999

TAMN: E08467K NSN: 2350-01-458-1460

[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

LT|BY PRINT/SIGN

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

LTI BY PRINT/SIGN

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

DATE: 2020 04 15

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>3H606</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>86171E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE  (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. 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		✓						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 Panel 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 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.	✓							
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.								
<b>NOTE</b> 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)								
<b>NOTE</b> 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.								
<b>NOTE</b> 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
<b>NOTE</b> Make sure flood valve spindle moves freely.								
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.						✓		①
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								
<b>NOTE</b> 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.			✓					Ⓜ Clamps
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.	✓							
<b>NOTE</b> 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 bail 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.	✓							
<b>NOTE</b> 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).								
<b>NOTE</b> 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.
<b>IX. Equipment Operation</b>								
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.			✓					Pack 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.			✓					Ⓡ
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								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
<b>X. Functional Road Test</b>								
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.			✓					
<b>XI. Water Systems Test</b>								
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. 3HG06 USMC No. 522999 Miles 834 Hours .18  
 Date Inspected 20200415 Inspector \_\_\_\_\_

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

\*See Table C-1 for UGWS Deamie 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.	✓		✓					(M) 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.	✓							unserviceable
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, <del>locked</del>
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 (SF)

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: 20200415

SERVICE REQUEST: 296 80890

SET SERIAL: 522288

TAMN: 07967K

NSN: 2350-01-458-7318

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20190928

COMMENTS:

CONDITION CODE: F

LTI BY PRINT/SIGN

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

\_\_\_\_\_  
BY PRINT/SIGN

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

DATE: 20200418

ENCLOSURE (59)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) AAVP7A1 <u>AAVC7A1</u> AAVR7A1	REFERENCES TM 09674A-25&P/4      TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. <u>3402</u>	MILES <u>1909</u>
U.S.M.C. NO. <u>522288</u>	HOURS <u>817</u>
HULL NO. <u>RAM-CX-006</u>	
ENGINE NO. <u>37189886</u>	
TRANSMISSION NO. <u>A5213E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE (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.	

ENCLOSURE (54)

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.			✓					(M) 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.	✓							

ENCLOSURE (59)

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 Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							Doesn't free spin
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							portside 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 bow strain and proper quick release operation.			✓					tow pinable (yes)
5. Bump Plug. Check for alignment.	✓							
6. Bump Plug and Towing Eyes. Check mounting hardware for alignment.	✓							

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 forefoot
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 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 (2)
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.			✓					(2) 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. Hand Rails	✓							
37. Foreman 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.	✓							

Spring in latch  
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.			✓					Ⓢ cap & 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.	✓							bumper
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/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.			✓					(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.								
<b>NOTE</b> 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 End Fittings.	✓							

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. Crew War Fan.		✓							
d. Electrical Bidge Pump.		✓							
Check and verify Emergency Lower Deck door lock mechanism. Check for proper operation. Check for proper operation.		✓							

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 Hydraulic 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 type of transmission oil. Check for leaks for damage.	✓							
e. Transmission Oil Level. Check for correct level and type of transmission oil. Check for leaks 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									
<b>NOTE</b>									
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 129
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 Cover. Check for damage. Check for loose mounting hardware.		✓							

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 wires for tight screws. Check slave wires 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.						✓		G-11 VC has broken
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 Curtains. Check for free movement and damaged hardware.	✓							
23. Entry Lock Linkage. Check to see that linkage is in proper position. Check for loose mounting hardware.	✓							

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 Box	✓							
d. Seal	✓							

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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	✓							(M)
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	✓	✓						(M) tag
c. Wire Seat.	✓							
d. Flapper Valve. Check handle and look for damage and proper operation.	✓							
e. Flapper Valve. Check handle and look for damage and proper operation.	✓							

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 align="center"><b>NOTE</b></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.			✓					① cover & 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.	✓							
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).								
<p><b>NOTE</b></p> <p>At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							① cover MFSSS
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Fire Extinguishers. Check gauges for damage and pressure. Check for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>IX. Equipment Operation</b>								
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 Lights.	✓							
i. Driver's View Mirror Bulb/Indicator. Check that power mirror works.	✓							
j. Lamp Test Warning Control. Check that bulb and wiring properly illuminated.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
<b>X. Functional Road Test</b>								
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.	✓							
<b>XI. Water Systems Test</b>								
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.	✓							
<b>5. Bow Plane Operation.</b>								
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 \_\_\_\_\_ (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)

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.					✓			Moale 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- <del>1694</del> (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
<b>VI. Work Station Module (Cont.)</b>								
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.	✓							
<b>7. Work Station Crew Seat 1 (Port)</b>								
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.	✓							
<b>8. Work Station Crew Seat 2 (Port)</b>								
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

ENCLOSURE (59)



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.	✓							<del>WS Light inop</del>
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
<b>VI. Work Station Modules (Cont.)</b>								
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.	✓							
<b>12. Work Station Crew Seat 6 (Starboard)</b>								
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.								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.	✓							
<b>VII. DAGR Assembly</b>								
<b>1. DAGR</b>								
a. Check that electrical and antenna connections are tight and in good condition.	✓							
b. Check for security and condition.	✓							
<b>2. DAGR Remote Antenna. Check security and condition of cover</b>								
	✓							
<b>3. DAGR Operational Test</b>								
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.					✓			
<b>VIII. Windows Server</b>								
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.					✓			41

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

ENCLOSURE (59)

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
	<b>70</b>				<b>\$4,083.01</b>

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)

## APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE  
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3 HN 01 USMC No. 522656 Miles 1929, Hours 381

Date Inspected 20200623 Inspector \_\_\_\_\_

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

\*See Table \_\_\_\_\_

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
<b>I. Basket Weldment</b>								
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.	✓							
<b>II. Weapons Station Interior</b>								
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 (6)

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.		✓						2 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.	✓							
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.			✓					Uninstalled
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.		✓						Ⓜ Box Cover
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 (60)

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 Broken
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.						✓		Pad (I)
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.		✓						1 Cap
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.			✓					Light ②
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.	✓							

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.								

## APPENDIX E LIMITED TECHNICAL INSPECTION

## E-1. AAV7A1 LIMITED TECHNICAL INSPECTION.

Table E-1. AAV7A1 Limited Technical Inspection

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1 AAVC7A1 AAVR7A1	TM 07007/07267/07268-25/1 TM 07267C-25/1 TM 07268C-25/1 TM 07007/07267/07268-25/2
TAC NO. 314N01	MILES 1929
U.S.M.C. NO. 522656	HOURS 381
HULL NO. RAMS 0142	
ENGINE NO. 37206618	
TRANSMISSION NO. A14072E	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
(b)(3), (b)(6), (b)(7)(c)	20200623
<p><b>NOTE:</b> 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.</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)	✓							

Check Ramp Seal - Dunk Test  
 All of Suspension Rusty & Has Chipped Paint  
 Covered in Sand

ENCLOSURE (60)

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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. 17-26a)	✓							
b. Steps. (Para. 17-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage Provisions. (Para. 17-37)	✓							
e. Fairings. (Para. 17-28)	✓							
f. Standoff Brackets. (Para. 17-27)	✓							
g. Hull Bosses. (Para. 17-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 17-28)		✓						Ⓜ 6 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.	✓							
10. Port Track. (Para. 7-7) Use track wear gauge to measure wear. Mark each unserviceable track shoe.	✓							
a. Track Shoes.	✓							
b. Track Pads.		✓						Ⓜ 26 Inner Pads
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers that are unserviceable.	✓							
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6						✓		Inner Wheel 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. 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 that are unserviceable. 1 2 3 4 5 6	✓							
13. Port Torsion Bars. (Para. 7-13) Circle those numbers that 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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

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.	✓							



Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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)	✓							
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 drive shaft to check for free movement of impeller.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							
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)	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.			✓					Chrome Rusty
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)	✓							
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						✓		#2 & #3 Both Inner Wheels 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	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
20. Starboard Support Arms. Circle those numbers that are unserviceable.	✓							
1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers that 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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

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 gauge to measure wear. Mark each unserviceable track shoe. (Para. 7-7)	✓							
a. Track Shoes.	✓							
b. Track Pads.		✓						Ⓜ 22 Inner 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)		✓						Ⓜ 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)	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	✓							
38. Starboard Side Hull. Check for damaged and bare metal.	✓							
a. Armor Piercing Protection Plates Kit (APK). (Para. 17-26a)	✓							
b. Steps. (Para. 17-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage Provisions. (Para. 17-37)	✓							
e. Fairings. (Para. 17-28)	✓							
f. Standoff Brackets. (Para. 17-27)	✓							
g. Hull Bosses. (Para. 17-36)	✓							
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).	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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)	✓							
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.		✓						Ⓜ All (8) 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.		✓						Ⓜ Cap & Chain
10. Driver's Hatch. (Para. 8-21)	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.			✓					DVE plug Falls Out
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.						✓		Seal (I)
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 07007/07267/07268-25/2)	✓							
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							
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.			✓					Loose Mounting Bolts/STBD Side
d. Bosses.	✓							
16. Cargo Hatches.	✓							
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							



Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							
4. Cooling Fan.	✓							
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							
11. Port Final Drive.	✓							
a. Oil/Oil Level.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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 lock 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 lock wire.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.			✓					<i>Needs Cleaning</i>
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 lock wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check lock 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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

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 lock 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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.								✓ Oil Too Full <i>pe</i>
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							
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.			✓					Belt Loose
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.	✓							
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.			✓					Belt Loose
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of lock wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							
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.		✓						Tube (M)

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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 lock wire.	✓							
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.		✓						No Seat Belts
f. Adjusting Rods.		✓						Ⓜ 1 Adjusting Rod



Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.			✓					Support @ 1 Bolt
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.		✓						Cover @ 4 Screws
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		✓						↓ Mounting Hardware
b. Starboard.		✓						Mounting Hardware
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.			✓					STBD Bucket Pivoting Mod ①
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 Not Connected
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.	✓							
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.	✓							
a. Ramp Seal. Check mating with hull in closed position.						✓		Replace Seal
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).		✓						Ⓜ All Bolts

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Center Deck Plate.		✓						Ⓜ All Bolts
c. Contact Cooler Bleeder Valve Access Cover.		✓						Ⓜ 4 Bolts
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tie-Down 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 <u>2005 0205</u>						✓		15 Years Old
d. Seal.	✓							
33. Personnel Heater.	✓							
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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 lock 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 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.	✓							
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.			✓					Not Connected
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓		✓					Throttle Staying in Reverse / Only moves to 1st while in Reverse
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 gauges 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.	✓							
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.	✓							
a. Master Switch.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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.	✓							
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.	✓							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
<b>NOTE</b>								
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 Date
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							
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 IAW TM 07007/07267/07268-25/1 (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.	✓							



Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
c. Engine RPM.	✓							2250 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.	✓							
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.								

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
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 07007/07267/07268-25/1 for LTI of UGWS-Unique Items.

See TM 07267C-25/1 for LTI of AAVR7A1-Unique Items.

See TM 07268C-25/1 for LTI of AAVC7A1-Unique Items.

Ramp Seal Leaked on Dunk Test  
 All Suspension Rusty & Chipped Paint  
 3 Roadwheels Extremely Cracked  
 A lot of Sand in Hull & on top of Track

Ⓜ 26 Port Inner Track Pads  
 Ⓜ 22 STBD Inner Track Pads  
 Ⓜ 9 Total Track Shroud Bolts  
 Ⓜ All Deck Plate Bolts

STBD Track Adjuster - Rust on Chrome

TC Hatch Seal Ⓢ

STBD TBAM Mount Loose

Fire Extinguishers Ⓜ Dates or Expired

Handle Throttle not Connected

Gear Selector Has Trouble Staying in Reverse

STBD Bucket Pivoting Rod Ⓢ

No Seat Belts

E-30 Bench Seat Ⓜ Adjusting Rod

Water/ROL Jig Rack Ⓜ Hardware

Water Belt Loose  
 Generator Belt Loose  
 Tranny Oil too Full  
 Pre-Cleaner Needs PMing  
 DVE Plug Holder Loose  
 Searchlight Rec. Ⓜ Cap & Chain

Pop LTI Comm

AAVP7A1 LTI DATED 2019 FEB 26

SF# \_\_\_\_\_ USMC# 522656 DATE 2020/1/23

TECHNICIAN

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

NOMEN	ON HAND	VERSION	SERIAL	NOMEN	ON-HAND	SERIAL
AUX 1	<input checked="" type="radio"/> IN	B   C   <input checked="" type="radio"/> F	014410	AM-7162	<input checked="" type="radio"/> IN	0403
RT 1	<input checked="" type="radio"/> IN	B   C   <input checked="" type="radio"/> F	041828	C-11133 dvr	<input checked="" type="radio"/> IN	558
MOUNT	<input checked="" type="radio"/> IN	B   <input checked="" type="radio"/> E	005864C	C-11133 TC	<input checked="" type="radio"/> IN	00460
AMP	<input checked="" type="radio"/> IN	A   <input checked="" type="radio"/> B	012871	C-11133 VC	<input checked="" type="radio"/> IN	A4101
W-4	<input checked="" type="radio"/> IN	N/A	N/A	C-11133 agnr	<input checked="" type="radio"/> IN	A0996
W-4	<input checked="" type="radio"/> IN	N/A	N/A	C-11135 aft	<input checked="" type="radio"/> IN	248
W-2	<input checked="" type="radio"/> IN	N/A	N/A	C-11291 TC	<input checked="" type="radio"/> IN	015520AA
AUX 2	<input checked="" type="radio"/> IN	B   C   <input checked="" type="radio"/> F	133562	C-11291 VC	<input checked="" type="radio"/> IN	005615AA
RT 2	<input checked="" type="radio"/> IN	B   C   <input checked="" type="radio"/> F	094866	LS-671	<input checked="" type="radio"/> IN	045394AA
MOUNT	<input checked="" type="radio"/> IN	B   C   <input checked="" type="radio"/> F	180577	AS-3916	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> collect N/A
AMP	<input checked="" type="radio"/> IN	A   <input checked="" type="radio"/> B	014700	AS-3916	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> collect N/A
W-4	<input checked="" type="radio"/> IN	N/A	N/A	AS-3916	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> collect N/A
W-4	<input checked="" type="radio"/> IN	N/A	N/A	AS-3916	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> collect N/A
W-2	<input checked="" type="radio"/> IN	N/A	N/A	H-250	<input checked="" type="radio"/> IN	N/A

VIC 2 PERFORMANCE CHECKS

POSITION	ALL	RT-1	INT	AUX-1	RT-2/AUX-2	MOUNTED	REMARKS
DRIVER	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> IN	
TROOP CMDR	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> IN	switch loose/bad
AFT	<input checked="" type="radio"/> GOOD   BAD	GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	N/A	N/A	<input checked="" type="radio"/> IN	
VEH CMDR	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> IN	
AGNR	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> GOOD   BAD	<input checked="" type="radio"/> IN	can't receive int or net

C-11291 OP CHECKS	MOUNTED	LS-671 OP CHECKS	REMARKS
TCC-11291	GOOD   BAD	PWR UP	<input checked="" type="radio"/> IN
VCC-11291	GOOD   BAD	MOUNTED	<input checked="" type="radio"/> IN

JBC-P INVENTORY AND PERFORMANCE CHECKS

ITEMS	ON-HAND	PWRS UP	SERIAL	REMARKS
DISPLAY	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN	MDIA010474	Set 011-0783
KEYBOARD	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN	MRIA010501	NO HD
PROCESSOR	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN	MPIC001616	NOTM box @ glass
DAGR	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN	516845	susceptable to water damage
SSD	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN		KGv unsecured, JBCP unsecured Need 2 locks
KGv-72	<input checked="" type="radio"/> IN	<input checked="" type="radio"/> IN	047951	LINK ESTABLISHED: <input checked="" type="radio"/> IN

RADIO CHECKS	FREQS	FREQ DEV(±.002)	HI / PA PWR OUTS (3W+/30W-)	VSWR (≤3:1)	REMARKS
AUX 1	41.000				
AUX 1	54.000				
AUX 1	75.000				
RT 1	41.000				
RT 1	54.000				
RT 1	75.000				
AUX 2	41.000				
AUX 2	54.000				
AUX 2	75.000				
RT 2	41.000				
RT 2	54.000				
RT 2	75.000				

P/C incor

rear port antenna hook Puck in atty needs weld

ENCLOSURE (GO)

bottom stack unsecured: no L side mount, no lock  
bottom stack @ thumb screws antennas no collet belts: @ 4

1 base helmet, 1 cve no mic  
@ 2117G @ video scout feed

## ROK L12 PLSCREPS

- has 1 bose helmet, 1 cuc w/ m mic
- 4 antennas missing collet bolts
- m H-250
- TC c box switch loose
- Agnr c box cannot hear but can talk
- Loud speaker inop
- JBCP doesn't have hard drive, KGV, B JBCP unsecure (need 2 locks)
- NOTM box m glass, susceptible to water/impact damage
- P/c incorrect, need to add 2 c boxes
- rear port antenna hockey pack mount snapped, needs to be welded/mounted
- m 2 117 G's for NOTM stack
- bottom stack need locking bars & lock<sup>thum</sup> scre<sup>ws</sup>
- m video scout feed (NOTM)

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

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**From:** (b)(3), (b)(6), (b)(7)(c)  
**Sent:** Monday, September 21, 2020 10:18 AM  
**To:** (b)(3), (b)(6), (b)(7)(c)  
**Subject:** FW: 15th MEU AAV Plt Gunnery  
**Attachments:** 15th MEU Gunnery.pdf

**From:** (b)(3), (b)(6), (b)(7)(c)  
**Sent:** Monday, September 21, 2020 10:11 AM  
**To:** (b)(3), (b)(6), (b)(7)(c)  
**Subject:** FW: 15th MEU AAV Plt Gunnery

**From:** (b)(3), (b)(6), (b)(7)(c)  
**Sent:** Wednesday, August 12, 2020 3:33 PM  
**To:**  
**Cc:** (b)(3), (b)(6), (b)(7)(c)  
**Subject:** 15th MEU Gunnery

Sir,

Attached is the GST tracker and Table VI rollups from the 15<sup>th</sup> MEU gunnery conducted 12-16 Feb at Range 222 (b)(3), (b)(6), (b)(7)(c)  
was the Master Gunner for this range. Seven of their crews were qualified on Table VI.  
(b)(3), (b)(6), (b)(7)(c)

The 15<sup>th</sup> MEU scheduled a range to finish their Table VI qualification and conduct Table IX from 10-14 Jun, these ranges were cancelled due to the fires aboard Camp Pendleton.

They then scheduled R-408A from 10-12 July to complete their qualifications. All of their products and confirmation brief were conducted through the BLT and there was nothing ran through 3DAABn. I received texts from the Plt Sgt asking for Master Gunner support for this range. When I arrived at the range to conduct their training, they were changing and assigning Marines to new crews on the range. The majority of the Marines I had contact with at that range did not know what vehicle or crew they were part of. I informed the Plt Commander and Plt Sgt the only way I would conduct Table VI qualifications was if the crews were the same as they were when they conducted their GST and prerequisite training, as changing crews at that point would cause all of their crews to be newly formed crews, not turbulent since they only had seven qualified crews. The reply to this was "we are chopped, so that doesn't matter." They decided that their priority was getting gunners familiarity with firing because they had a live-fire event with the BLT a few days later. I stayed and assisted in their range for 3DAABn oversight and safety purposes while the five newly formed crews conducted live-fire for practice, and trained our newly graduated master gunner (b)(3), (b)(6), (b)(7)(c) during their practice.

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

ENCLOSURE (4)

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

[illegible]

ENCLOSURE (c)

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 3 15 01	2. VEHICLE PLATFORM MVP7A1	3. UNIT 317 AABN	4. DATE 20200215
5a. VEHICLE COMMANDER RANK AND NAME	b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)
6a. SIMULATOR TYPE	d. VIRTUAL GATE-TO-LIVE-FIRE LEVEL	c. VIRTUAL GATE-TO-LIVE-FIRE DATE	d. VIRTUAL GATE-TO-LIVE SCORE

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREECH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	89		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	86		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	75		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	7	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	33		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	10	91		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 650	c.	d. POINTS/ QUALIFIED 617	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 224	c.	d. POINTS/ QUALIFIED 213	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		874		b. POINTS/ QUALIFIED 810	c.	d.	e.	f.	g.	
13. RATING (Check one ) <input type="checkbox"/> DISTINGUISHED <input checked="" type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)					15. VEH SIGNATURE (DAY)					
14. VEHICLE COMMANDER SIGNATURE (DAY)					16. VEH SIGNATURE (NIGHT)					
16. (b)(3), (b)(6), (b)(7)(c)										

ENCLOSURE (4)

DA FORM 6203-1, 10-1-10

UNS ARE OBSOLETE



# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 3 15 02		2. VEHICLE PLATFORM AAVP7A1		3. UNIT 3D AABN		4. DATE 20200215	
5a. VEHICLE COMMANDER RANK AND NAME		b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	
6a. SIMULATOR TYPE		b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL		c. VIRTUAL GATE-TO-LIVE-FIRE DATE		d. VIRTUAL GATE-TO-LIVE SCORE	

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREACH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	79		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	90		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	90		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	93		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	75		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	7	97		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	99		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	47		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	10	47		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 624	c.	d. POINTS/QUALIFIED 617	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 193	c.	d. POINTS/QUALIFIED 113	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		817		b. POINTS/QUALIFIED 7110	c.	d.	e.	f.	g.	
13. RATING (Check one)					<input type="checkbox"/> DISTINGUISHED <input type="checkbox"/> SUPERIOR <input checked="" type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)					
VEHICLE COMMANDER SIGNATURE (DAY)					ME/SIGNATURE (DAY)					
(b)(3), (b)(6), (b)(7)(c)					ME/SIGNATURE (NIGHT)					

ENCLOSURE (C)

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 3 15 03	2. VEHICLE PLATFORM ANVT 7A1	3. UNIT 3D AAGN	4. DATE 20200215
5a. VEHICLE COMMANDER RANK AND NAME	b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)
6a. SIMULATOR TYPE	b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL	c. VIRTUAL GATE-TO-LIVE-FIRE DATE	d. VIRTUAL GATE-TO-LIVE SCORE

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREECH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	90		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	92		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	92		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	91		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	7	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	52		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	10	97		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL	b. 665	c.	d. POINTS/QUALIFIED 717	e.	f.	g.	h.	i.		
11a. NIGHT RUN TOTAL	b. 249	c.	d. POINTS/QUALIFIED 213	e.	f.	g.	h.	i.		
12a. OVERALL TOTAL	914		b. POINTS/QUALIFIED 9110	c.	d.	e.	f.	g.		
13. RATING (Check one) <input checked="" type="checkbox"/> DISTINGUISHED <input type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)										
15. EVALUATOR PRINTED NAME/SIGNATURE (DAY)					16. EVALUATOR PRINTED NAME/SIGNATURE (NIGHT)					
(b)(3), (b)(6), (b)(7)(c)					(b)(3), (b)(6), (b)(7)(c)					

DITIONS ARE OBSOLETE

ENCLOSURE (4)

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 3 15 04		2. VEHICLE PLATFORM AAV7A1		3. UNIT 3D AARN		4. DATE 20070215	
5a. VEHICLE COMMANDER RANK AND NAME		6. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	
6a. SIMULATOR TYPE		b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL		c. VIRTUAL GATE-TO-LIVE-FIRE DATE		d. VIRTUAL GATE-TO-LIVE SCORE	

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREACH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	94		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	97		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	95		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	7	93		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	76		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	10	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 679	c.	d. POINTS/QUALIFIED 717	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 276	c.	d. POINTS/QUALIFIED 313	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		955		b. POINTS/QUALIFIED 1010	c.	d.	e.	f.	g.	
13. RATING (Check one) <input checked="" type="checkbox"/> DISTINGUISHED <input type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)					15. V					17. V
14. VEHICLE COMMANDER SIGNATURE (DAY)					16. V					
16. V (b)(3), (b)(6), (b)(7)(c)					17. V (b)(3), (b)(6), (b)(7)(c)					

IONS ARE OBSOLETE

ENCLOSURE (6)

DA FORM 8205-1, MAR 2000

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 3 15 05		2. VEHICLE PLATFORM AAVP-7A1		3. UNIT 3D AABN		4. DATE 20200215	
5a. VEHICLE COMMANDER RANK AND NAME		b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	
6a. SIMULATOR TYPE		VIRTUAL GATE-TO-LIVE-FIRE LEVEL		c. VIRTUAL GATE-TO-LIVE-FIRE DATE		d. VIRTUAL GATE-TO-LIVE SCORE	

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREECH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	99		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	98		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	50		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	7	70		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	0		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	9	93		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	10	0		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 617	c.	d. POINTS/QUALIFIED 617	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 93	c.	d. POINTS/QUALIFIED 113	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		710		b. POINTS/QUALIFIED 710	c.	d.	e.	f.	g.	

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

<input type="checkbox"/> DISTINGUISHED <input type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input checked="" type="checkbox"/> REFIRE (Q2)		15. VEH	AME/SIGNATURE (DAY)
		17. VEH	AME/SIGNATURE (NIGHT)

ONS ARE OBSOLETE

ENCLOSURE (6)

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 31508		2. VEHICLE PLATFORM LAVP241		3. UNIT 3D AABN		4. DATE 20200215	
5a. VEHICLE COMMANDER RANK AND NAME		b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	
6a. SIMULATOR TYPE		b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL		c. VIRTUAL GATE-TO-LIVE-FIRE DATE		d. VIRTUAL GATE-TO-LIVE SCORE	

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREACH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	90		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	86		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	50		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	50		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	7	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	95		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	10	97		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 576	c.	d. POINTS/QUALIFIED 517	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 292	c.	d. POINTS/QUALIFIED 313	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		868		b. POINTS/QUALIFIED 8110	c.	d.	e.	f.	g.	

13. RATING (Check one)		<input type="checkbox"/> DISTINGUISHED <input checked="" type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)	
14. VEHICLE SIGNATURE (DAY)		15. VEHICLE SIGNATURE (DAY)	
16. VEHICLE SIGNATURE (NIGHT)		17. VEHICLE SIGNATURE (NIGHT)	

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

PREVIOUS EDITIONS ARE OBSOLETE

ENCLOSURE (4)

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

1. BUMPER NUMBER 31509		2. VEHICLE PLATFORM 22.000		3. UNIT 30 100N		4. DATE 20200215	
5a. VEHICLE COMMANDER RANK AND NAME		b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)		d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	
6a. SIMULATOR TYPE		b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL		c. VIRTUAL GATE-TO-LIVE-FIRE DATE		d. VIRTUAL GATE-TO-LIVE SCORE	

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREECH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	77		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	94		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	5	93		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	86		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	7	99		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	89		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	50		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	10	97		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 649	c.	d. POINTS/ QUALIFIED 717	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 236	c.	d. POINTS/ QUALIFIED 213	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		b. 885	c.	d. POINTS/ QUALIFIED 9110	e.	f.	g.			
13. RATING (Check one) <input type="checkbox"/> DISTINGUISHED <input checked="" type="checkbox"/> SUPERIOR <input type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)										
14. VEHICLE COMMANDER SIGNATURE (DAY)					15. VEHICLE COMMANDER SIGNATURE (NIGHT)					
16. (b)(3), (b)(6), (b)(7)(c)					17. VEHICLE COMMANDER SIGNATURE (NIGHT)					

NS ARE OBSOLETE

ENCLOSURE (4)

DA FORM 8200-1, MAR 2011

# COMMON CREW ROLL-UP

For use of this form see TC 3-20.31; the proponent agency is TRADOC.

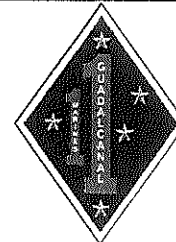
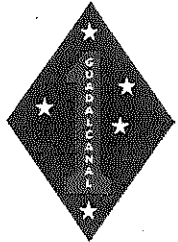
1. BUMPER NUMBER 3 15 10	2. VEHICLE PLATFORM AAVPTAI	3. UNIT 3D AABN	4. DATE 20200215
5a. VEHICLE COMMANDER RANK AND NAME	b. GUNNER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	c. DRIVER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)	d. LOADER RANK AND NAME (b)(3), (b)(6), (b)(7)(c)
6a. SIMULATOR TYPE	b. VIRTUAL GATE-TO-LIVE-FIRE LEVEL	c. VIRTUAL GATE-TO-LIVE-FIRE DATE	SCORE

7. SCORING DATA					8. MALFUNCTIONS					9. REMARKS
a. DAY/NIGHT	b. ENGAGEMENT NUMBER	c. ENGAGEMENT SCORE	d. VALUE OF 5-PT PENALTIES ALLOWED	e. QUALIFIED YES/NO	a. BREACH UP (BU)	b. CASE BASE (CB)	c. MISFIRE (MF)	d. STOPPAGE (ST)	e. THERMAL FAILURE (TF)	
D	1	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	2	73		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	3	85		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	4	0		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
D	5	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	6	91		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
D	7	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	8	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
N	9	36		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
N	10	100		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
10a. DAY RUN TOTAL		b. 549	c.	d. POINTS/QUALIFIED 617	e.	f.	g.	h.	i.	
11a. NIGHT RUN TOTAL		b. 236	c.	d. POINTS/QUALIFIED 213	e.	f.	g.	h.	i.	
12a. OVERALL TOTAL		785			b. POINTS/QUALIFIED 8110	c.	d.	e.	f.	g.
13. RATING (Check one) <input type="checkbox"/> SUPERIOR <input checked="" type="checkbox"/> QUALIFIED <input type="checkbox"/> UNQUALIFIED <input type="checkbox"/> REFIRE (Q2)										
14. VEHICLE COMMANDER SIGNATURE					15. NAME/SIGNATURE (DAY)					
16. VEHICLE COMMANDER SIGNATURE					17. NAME/SIGNATURE (NIGHT)					

CTIONS ARE OBSOLETE

DA FORM 8265-1, MAR 2015

ENCLOSURE (4)



# **1st Marine Regiment**

## **Table 3-6**

### **Confirmation Brief**

**Range 215A & 212 Complex**  
**13-14 & 16 January 2020**

ENCLOSURE (2)

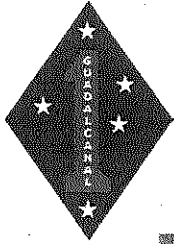


# Orientation



ENCLOSURE (2)

1/10/20



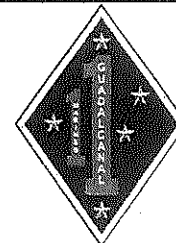
# Orientation: Weather



Weather	
13 January	
Mon	
Day	63 deg
Precipitation	10%
Night	
	40 deg
Precipitation	10%
14 January	
Tue	
Day	63 deg
Precipitation	10%
Night	
	39 deg
Precipitation	10%
16 January	
Thur	
Day	62 deg
Precipitation	10%
Night	
	40 deg
Precipitation	40%

Astronomical Data	
13 January	
Mon	
Sunset	1703
End civil twilight	1824
Moon (90% illum)	
Moon transit	0224
Moon set	0918
14 January	
Tue	
Sunset	1703
End civil twilight	1824
Moon (82% illum)	
Moon transit	0319
Moon Set	0957
15 January	
Thur	
Sunset	1703
End civil twilight	1824
Moon (61% illum)	
Moon Transit	0501
Moon Set	2309

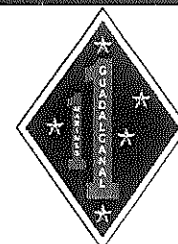
ENCLOSURE (2)



# Situation

- In preparation for Native Furry, Headquarters Company and Marines from Major Subordinate Elements conduct training in accordance with the Pre-deployment Training Plan, in order to ensure 100% completion of deployment training requirements.

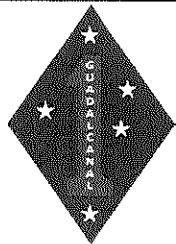
ENCLOSURE (2)



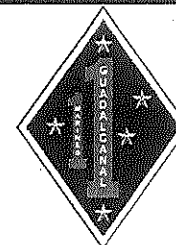
# Range 215A – HQ CO BZO & Tables 3-6

Mission	Safety Personnel	<p>UKO Target Points</p> <p>25 m CMP</p> <p>Firing Line</p> <p>Range 215A</p> <p>Ammo Distribution Point</p> <p>Bivouac Site</p> <p>PSOs Day: 1:4 Night: 1:2</p>
<p>On 13-14 Jan HQ CO and MSE's will conduct a battle sight zero (BZO) and Tables 3-6 IOT meet PTP requirements for Native Fury.</p>	<p><b>13 Jan</b> OIC (ar Reg) RS (1stMar Reg)</p> <p><b>14 Jan</b> (b)(3), (b)(6), (b)(7)(c) OIC (ia 1/11) RS (India 1/11)</p>	
Equipment	Unit Training	
<p>1 HMMWV— Safety Vehicle 1 HMMWV—TSD target pickup Chow: MREs 1 PRC-152 10 PRC-153 193,200 – A059 – 5.56mm Ball</p>	<p>HQCO will be unit training on 13 Jan 1/11 will be unit training on 14 Jan</p>	
Phase I	Phase II	Phase III
Planning & Prep (06 Jan – 10 Jan)	Execution (13-14 Jan)	Ammo Watch and Mvmnt to R212 (14-16 Jan)
<p><b>Begins:</b> Confirmation Brief (01/09) <b>Ends:</b> Range Set Up Complete and Marines arrive (NLT 0700 on 01/13)</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. Collimate/LBS at Armory on 01/10</li> <li>2. LTL/PFI complete 01/10</li> <li>3. RSO has occupied R215A: 0530 01/13</li> <li>4. Ammo drop off R215A: 0600 01/13</li> <li>5. PSO Brief: 0630 01/13</li> <li>6. Range set up by 0630 01/13</li> <li>7. Marines arrive NLT 0700 for safety brief</li> </ol>	<p><b>Begins:</b> Safety Brief ( 01/13) <b>Ends:</b> Range cold on 2359, 01/14</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. RSO Safety Brief</li> <li>2. CASEVAC Rehearsal</li> <li>3. BZO</li> <li>4. Tables 3-6</li> </ol>	<p><b>Begins:</b> Range Cold 2359, 01/14 <b>Ends:</b> Mvmnt to R212 0530, 01/16</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. Safety structure maintained</li> <li>2. Ammo watch maintained</li> <li>3. Police call. Range inspector.</li> <li>4. Personnel and gear accountability</li> </ol>

ENCLOSURE (2)



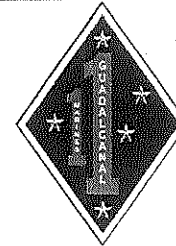
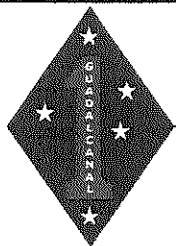
# Range 212 Complex – HQ CO BZO & Tables 3-6



Mission	Safety Personnel	
<p>On 16 Jan HQ CO and MSE's will conduct a battle sight zero (BZO) and Tables 3-6 IOT meet PTP requirements for Native Fury.</p>	<p>16 Jan: OIC: RSO (b)(3), (b)(6), (b)(7)(c) 1stMarReg)</p>	
Equipment	Unit Training	<p>PSOs Day: 1:4 Night: 1:2</p>
<p>1 HMMWV– Safety Vehicle Chow: MREs 1 PRC-152 10 PRC-153 193,200 – A059 – 5.56mm Ball</p>	<p>AAVs will be primary unit training on 16 Jan HQCO and MSEs stragglers and remediation</p>	
Phase III	Phase IV	Phase V
Ammo Watch and Mvmnt to R212 (14-16 Jan)	Execution (16 Jan)	Retrograde/Follow on Actions (16-17 Jan)
<p><b>Begins:</b> Range Cold 2359, 01/14 <b>Ends:</b> Mvmnt to R212 0530, 01/16</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. Safety structure maintained</li> <li>2. Ammo watch maintained</li> <li>3. Police call. Range inspector.</li> <li>4. Personnel and gear accountability</li> </ol>	<p><b>Begins:</b> Safety Brief (0700 on 01/16) <b>Ends:</b> Range cold on 2359, 01/16</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. RSO Safety Brief ①</li> <li>2. CASEVAC Rehearsal ②</li> <li>3. BZO ③</li> <li>4. Tables 3-6 ④</li> </ol>	<p><b>Begins:</b> Range Cold. <b>Ends:</b> Range Cleared by Longrifle</p> <p><b>Key Events:</b></p> <ol style="list-style-type: none"> <li>1. Remediation if necessary</li> <li>2. Police call. Range inspector.</li> <li>3. Personnel and gear accountability</li> <li>4. Weapons Maintenance</li> </ol>

ENCLOSURE (6)





# R215A - Timeline

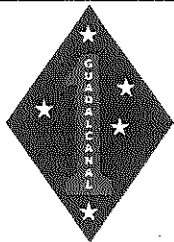
Date	Time	Event	Location	POC
10 Jan	0800-1600	LBS/ collimate	HQCO Armory	
13 Jan	0500	Trip Safety	Motor Pool	
13 Jan	0600	Ammo Pick up	ASP	
13 Jan	0700	Safety vic arrive/Ammo drop off	R215A	
13 Jan	0630	Working Party range set up	R215A	
13 Jan	0630	PSO brief	R215A	
13 Jan	NLT 0700	Marines arrive	R215A	
13 Jan	0700	Safety Brief/Rehearsal/PCC/PCI	R215A	
13 Jan	0730	Range Hot	R215A	
13 Jan	0730	Conduct Tables 3 & 5	R215A	
13 Jan	1700	Night Safety Brief/Rehearsal/PCC/PCI	R215A	
13 Jan	1730	Conduct Tables 4 & 6	R215A	
13 Jan	2359	Range Cold. Police Call. Marines depart.	R215A	(b)(3), (b)(6), (b)(7)(c)
14 Jan	0630	PSO brief	R215A	
14 Jan	NLT 0700	Marines arrive	R215A	
14 Jan	0700	Safety Brief/Rehearsal/PCC/PCI	R215A	
14 Jan	0730	Range Hot	R215A	
14 Jan	0730	Conduct Tables 3 & 5	R215A	
14 Jan	1700	Night Safety Brief/Rehearsal/PCC/PCI	R215A	
14 Jan	1730	Conduct Tables 4 & 6	R215A	
14 Jan	2359	Range Cold. Police Call. Marines depart.	R215A	
14 Jan	2359	Range Cold. Police Call. Marines depart.	R215A	
15 Jan	0000-2359	Ammo Watch Est. (Range occupied by 1st Maint Bn)	R215A	
16 Jan	0500	Movement to R212	R215A → R212	

ENCLOSURE (62)

# R212 - Timeline

Date	Time	Event	Location	POC
16 Jan	0500	Movement to R212	R212	
16 Jan	0530	Safety vic arrive/Ammo drop off	R212	
16 Jan	0630	Working Party range set up	R212	
16 Jan	0630	PSO brief	R212	
16 Jan	NLT 0700	Marines arrive	R212	
16 Jan	0700	Safety Brief/Rehearsal/PCC/PCI	R212	
16 Jan	0730	Range Hot	R212	
16 Jan	0730	Conduct Tables 3 & 5	R212	
16 Jan	1700	Night Safety Brief/Rehearsals/PCC/PCI	R212	(b)(3), (b)(6), (b)(7)(c)
16 Jan	1730	Conduct Tables 4 & 6	R212	
16 Jan	2359	Range Cold. Police Call. Marines depart.	R212	
17 Jan	0000-0700	Ammo Watch Est.	R212	
17 Jan	0700	Ammo Pickup	R212	
17 Jan	0800	Range Inspected. Depart	R212	
17 Jan				
17 Jan				

ENCLOSURE (2)



# UKD Course of Fire



TABLE 3 UNKNOWN DISTANCE DAY (TRAINING)

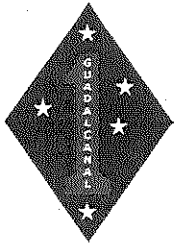
STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
MID RANGE	40-60	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED STANDING	1	4
MID RANGE	90-110	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	140-160	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	180-200	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
LONG RANGE	200-300	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	300-400	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	400-500	ENGAGE UNTIL DOWN	6	30 SEC	SUPPORTED PRONE	1	6
TOTAL							45

TABLE 3 UNKNOWN DISTANCE DAY (PRE-EVALUATION AND EVALUATION)

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
MID RANGE	40-60	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED STANDING	1	4
MID RANGE	90-110	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	140-160	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	180-200	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
LONG RANGE	200-300	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	300-400	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	400-500	ENGAGE UNTIL DOWN	6	30 SEC	SUPPORTED PRONE	1	6
TOTAL							30

ENCLOSURE (A)





# UKD Night Course of Fire

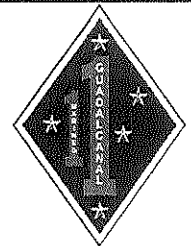


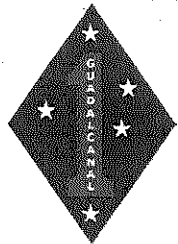
TABLE 4 NIGHT UKD (TRAINING)

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	N/A	PRONE	3	15
UKD	40-60	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED STANDING	1	20
	90-110	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED KNEELING		
	140-160	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED PRONE		
	180-200	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED PRONE		
TOTAL							20

TABLE 4 NIGHT UKD (PRE-EVALUATION AND EVALUATION)

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
UKD	40-60	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED STANDING	1	20
	90-110	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED KNEELING		
	140-160	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED PRONE		
	180-200	ENGAGE UNTIL DOWN	5	5 SEC	SUPPORTED PRONE		
TOTAL							20

ENCLOSURE (6)



# Short Range (Practice)

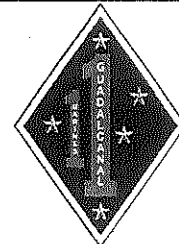


TABLE 5 SHORT RANGE DAY (TRAINING)

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
SHORT RANGE STAGE 1	5	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		FAILURE TO STOP	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 2	10	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 3	15	PELVIC	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 4	25	PELVIC	1	5 SEC	STANDING	3	3
		CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 5 FWD MOVMT	25-15	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
	15-10	FAILURE TO STOP PELVIC	3	N/A	FWD MOVEMENT	1	3
	10-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
TOTAL							85



# Short Range (Qual)

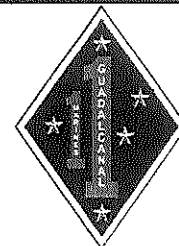


TABLE 5 SHORT RANGE DAY (PRE-EVALUATION AND EVALUATION)

TABLE 5 SHORT RANGE DAY (PRE-EVALUATION AND EVALUATION)							
STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
STAGE 1	25	CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	25-35	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
STAGE 2	25	HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	25-30	FAILURE TO STOP	3	N/A	FWD MOVEMENT	1	3
STAGE 3	30	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
	30-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
STAGE 4	5	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
TOTAL							50

ENCLOSURE (2)

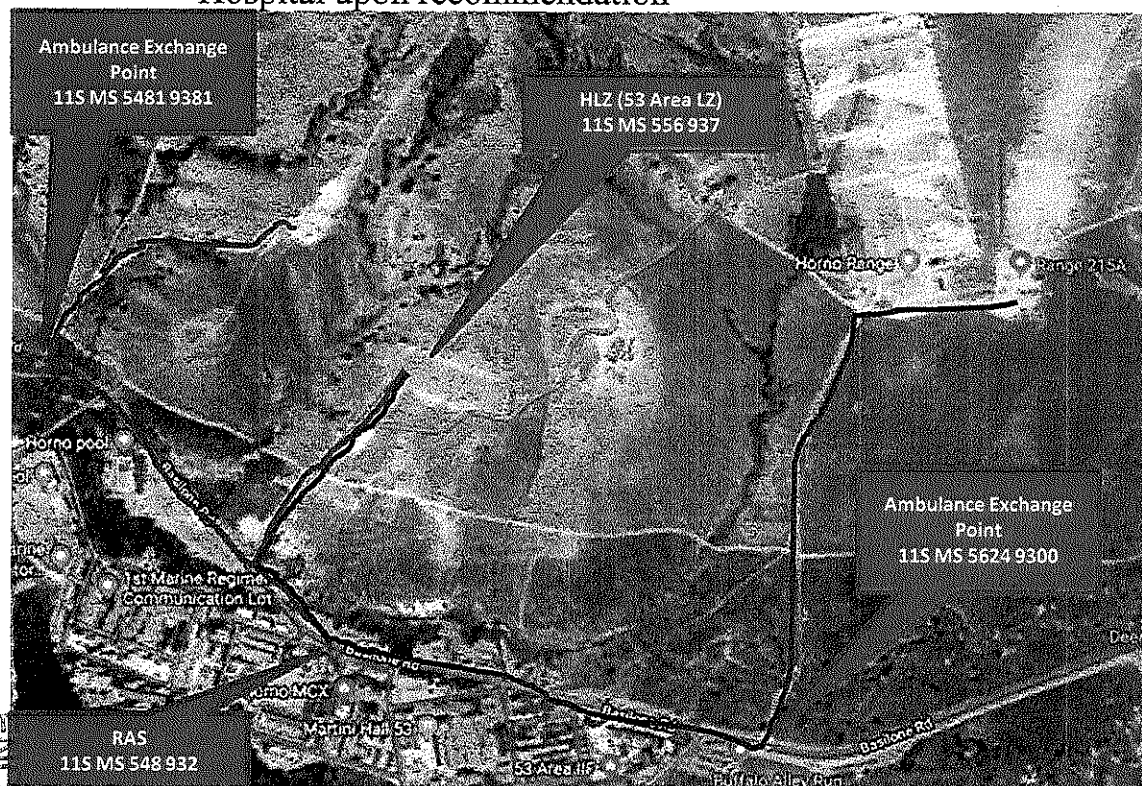
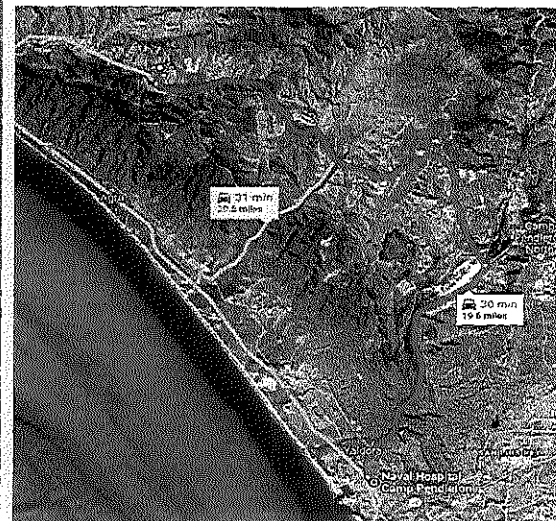
# CASEVAC

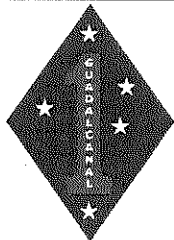
- Priority/Urgent
  - Handled through Long Rifle
- Routine
  - Triaged by Corpsman and transported to RAS or Camp Pendleton Naval Hospital upon recommendation
- Rehearsals
  - Day/Night
- Strip Map w/ Safety vic

33.3849032, -117.4804586

- ↑ Head southwest on Airfield Rd toward Basilone Rd  
Restricted Usage Road  
0.2 mi
- ↩ Turn left onto Basilone Rd  
Restricted Usage Road  
11.9 mi
- ↩ Turn right onto Vandegrift Blvd  
Restricted Usage Road  
7.2 mi
- ↩ Turn left onto Comfort Way  
Restricted Usage Road  
0.1 mi
- ↩ Turn right onto Mercy Cir  
Restricted Usage Road  
Destination will be on the left  
427 ft

Naval Hospital Camp Pendleton  
Camp Pendleton South, CA 92058





# Command & Signal /Admin & Logistics



## Personnel

- Event OIC: (b)(3), (b)(6), (b)(7)(c)
- Event RSO:
- Safety Corpsman: Provided by V11
- Driver/A-Driver
  - 13 Jan: S3 provided
  - 14 Jan: S3 Provided
  - 15 Jan: S3 Provided
- CMT: (b)(3), (b)(6), (b)(7)(c) (MTU)
- CMC: MTU)
- PSO: NCO or above, 1:4 day, 1:2 at night

## Logistics/Comm Required

- 1x Highback – safety vehicle
- 1 x PRC-152's, 10 x PRC-153
- 8 x 5 gallon water jugs
- Range Supplies: 30 target stands with 800 refaces, 400 BZO targets, 100 sand bags, 50 blue, 50 red, 50 green, 50 yellow, 50 IR chemlights, TSD contractor support
- MREs– 1 DOS

## Ammunition

- 193,200 - A059 - 5.56MM BALL

## T&R Events

- Tables 3-6 per MARADMIN 132/15

## Range/Safety Marking

- RSO/PSO Day: E-Tape; Night: Grn Chem
- Corpsman/Safety Vic Night: Blu Chem
- Obstacle/Hazard: Day: E-Tape; Night: Red Chem
- Range "M" Day: E-Tape; Night: Yel chem
- Targets: Night: IR Chem

# RANGE SPECIAL INSTRUCTIONS

Date Revised: 15 October, 2019

**FACE TO FACE IS REQUIRED FOR MILITARY TRAINING EXCEPT EMP/CMP & STATIC FIRING LINE  
FACE TO FACE IS REQUIRED FOR NFE RECREATIONAL USE PRIOR TO GOING INTO A HOT STATUS**

<b>Range:</b> R-215A	<b>Location:</b> 56779 93956	<b>Military Training</b>	<b>Vehicles:</b>
<b>Elevation:</b> 530 AMSL	<b>Impact Area:</b> Whiskey	Rifles - .50cal and below AA11 Authorized (No A606) Machine Guns - 7.62 and below Pistols - .45 cal. and below Service Shotguns - All Shoulder Fired Grenade Launchers - Pyro and TP Only Infantry Rockets - SMAW, LAW, & AT-4 Trainers/Practice Only Infantry Mortars -60mm Illum Only <b>SESAMS</b> Lasers - Class 3B & 4 Lasers are not Authorized	1. Road & River Report Dependent. 2. Maximum of five (5) POVs are Authorized to park in parking lot area with or without a POV pass. 3. POV (Trucks) are authorized for target emplacement during NFE use. Must remain on established Roads.
<b>Troop Penetration: Line: 1,200 meters</b>		<b>NFE Recreational Use (Factory Loads Only)</b>	
<b>Type:</b> Offensive Field BZO, EMP	<b>Engagement Distance:</b> Min - 3 Meters Max - 1,000 meters	Rifles - 50 cal. and below	

## THIS IS A CONTRACTOR SUPPORTED RANGE

**Range Facilities:** Assembly area, control tower, operations office/storage building, classroom, ammunition distribution building, vaulted head facility, 30 Stationary Infantry Targets, 17 Moving Infantry Targets



## Scheduling

1. All scheduling requests for R-215A must be submitted via their battalion.
2. Unit must utilize RFMSS to schedule range
3. (b)(2)

## Contractor Support

1. Contractor support is at **NO COST** to the unit.
2. Contractor support is **REQUIRED** to be scheduled if the unit intends to use the automated targets.
3. The contractor times **MUST** be scheduled in RFMSS, utilizing the "USER FIELDS" tab, for the duration of live-fire training.
4. If unit fails to schedule contractor times, use of the automated targets will **NOT** be authorized.
5. If the unit is a "no-show" one hour after the scheduled start time, the contractor can depart the range and is not required to return.
6. Contact (b)(2) for further information.

Closed To Any Use

Facility May Still Be Used With Restrictions

Facility Must Check Fire ALL Weapons

<b>Facility Occupied, or in Training/Live Fire Status</b>	<b>Effects to R215A</b>
<b>EMP Windage</b>	<b>Check Fire</b>

Special Instructions Continued on Next page

ENCLOSURE (FL)





## RANGE SPECIAL INSTRUCTIONS

### OIC/RSO Requirements

1. A safety Brief must be conducted prior to each live fire event to all participants.
2. All personnel must wear required PPE during all training events.
3. Live Fire and Maneuver, Steel target, Rockets, & SESAMS
  - a. OIC Requirement – GySgt or Above
  - b. RSO Requirement – SSgt or Above
4. Static Fire & Blanks
  - a. OIC Requirement – SSgt or Above
  - b. RSO Requirement – Sgt or Above
5. No Munitions
  - a. OIC Requirement – None
  - b. RSO Requirement – Cpl or Above
6. LASER (If Used) LRSO Requirement – Sgt or Above
7. NFE Recreational Use
  - a. OICs/RSOs MUST have organizations assignment later on hand during training.
  - b. Only OICs/RSOs listed on this letter will be allowed to OIC/RSO NFE ranges.

### Lateral Limits Markers

1. Unit must emplace lateral limit markers for any direct fire position used. Markers must consist of the following:
2. Left Lateral Limit – White Triangle Pointing to the Right 
3. Right Lateral Limit – Red Triangle Pointing to the Left 
4. Signs must be placed at the furthest distance viewable by all shooters and at the firing positions.
5. Markers must be laid in by compass from the firing position utilizing the data contained below.
6. **NOTE:** During night live, all lateral limits must be illuminated. The lateral limits must be visible by all participating and safety personnel.
7. Wooded protective structure must not be directly/purposefully targeted by any weapon other than 40mm TP.



### 5.56mm and Below EMP/CMP Box

1. For all EMP/CMP Training:
  - a. Steel Targets are not authorized for EMP/CMP.
  - b. For multiple target engagements, RSO must verify by compass from firing points to targets that all trajectories remain within the designated LLL/RLL of range.
  - c. All EMP/CMP Training must be conducted utilizing the depicted firing line.
  - d. All EMP/CMP Targets must be made of softwood uprights with cardboard backing.
  - e. Sandbags must be used on any metal bases. Bases must be made of soft metal.
  - f. Pallets and engineer stakes can be used.
  - g. Engineer stakes must be placed on the outside edges of the pallets.
  - h. No engagement on pallets closer than 7 yards.
  - i. OIC and RSO must ensure no-one is down range before the EMP/CMP goes into a hot status.
2. Firing Data:
 

Start Firing Line  
56784 94010 to 56833 93991

Lateral Limits:  
LLL: 10° mag  
RLL: 016° mag  
CFL/LOA: 56827 94101 to 56875 94081

### .50 Cal and Below Static Firing Line

1. Steel Targets are not authorized.
2. All Training must be conducted utilizing the depicted firing line.
3. All Targets must be made of softwood uprights with cardboard backing, PITS or SITS targets.
4. OIC and RSO must ensure no-one is down range before the going into a hot status.
5. Firing Data:
 

Firing Line – 56710 94038 to 57028 93912

Lateral Limits:  
LLL: 003° mag  
RLL: 009° mag

Special Instructions Continued on Next page

ENCLOSURE (b2)

## RANGE SPECIAL INSTRUCTIONS

### Live Fire & Movement/Maneuver 5.56mm Only

1. Steel Targets authorized for 5.56mm Static Shoot ONLY from SFL.
2. Maneuver elements must conduct attacks inside their respective movement boxes as depicted on the attached graphics.
3. If the Support by Fire or Mortar Position Blue is utilized then the Marines in the movement box must not engage any targets until they are a breast of the SBF/MP Blue Position
4. MP Red can be occupied then entire time the LFAM is occupied/hot.
5. M203 pyrotechnics, smoke and TP (DODIC B519) must be employed at the identified targets provided by the unit for this weapon system. Unit must not shoot RETS Tgts with any 40mm ammunition.
6. This range is a COMTS range. All units must coordinate with the contractor at least 48 hours prior to training event.
7. When target emplacement is required beyond limit of advance of the movement box, **the RSO from R215A must conduct a face-to-face with the RSO from R218A** to coordinate a mutually agreed time for emplacement. Target emplacement must not take more than 30 minutes from the start of agree time.
8. RSO must maintain communication with the OIC, and control the exposure of any targets.
9. All targets within the movement box must be knock-down stay-down type targets.
10. All targets must be laid in by compass from the firing position.
11. Targets must not be exposed for a period longer than 30 seconds.

**Firing Data:**

SFL: 56737 94198 to 57038 94144

**Lateral Limits**

LLL: 003° mag

RLL: 013° mag

CFL/LOA: 56828 94744 to 57299 94677

### Support By Fire Position 7.62 Only

1. Steel Targets are not authorized.
2. 15° or 100m rule in effect, positive stops must be used to prevent crossfire.
3. Tripods must be left in place once MGs are registered.
4. Min Safe Line must be identified to all personnel.
5. SBF element must make movement to SBP position in Condition 4.

**Firing Data:**

Firing Point - 57144 94296

**Lateral Limits**

LLL: 346° mag

RLL: 003° mag

SBF must Cease-Firing prior to anyone crossing the SBF MSL at 331° mag

### Infantry Rockets (TP Only) (NO Carl Gustaf)

1. Rockets:
  - a. SMAWs/AT-4/LAW must be employed at the identified targets for these weapon systems only.
  - b. Prior to firing any Rockets, RSO and OIC must ensure that Back Blast Area is all clear.
  - c. No personnel must be forward of the rocket Firing Position.
  - d. Any misfires, the unit must attempt to replace safety devises and notify LONGRIFLE for EOD support.
  - e. **EOD must determine if the rocket can be transported back to ASP.**
2. Firing Limitations:
  - a. **SMAW Trainer Practice**
    - i. During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.
  - b. **AT-4 Trainer Practice**
    - i. Prone or foxhole firing of AT-4 Trainer is not authorized.
    - ii. In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.
  - c. **LAW Trainer Practice**
    - i. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.

**Firing Data:**

Firing Point - 57002 94647

PDF: 032°mag

Rocket Target: Bunker 57139 94782

Special Instructions Continued on Next page

ENCLOSURE (62)



## RANGE SPECIAL INSTRUCTIONS

### Mortar Firing Data

1. **Mortars:**
  - a. No POV's must enter R-215A even if they have a range pass when utilizing mortars.
  - b. OIC must report to Longrifle the Max Ord and charge to be fired.
  - c. Max Ord must remain within the scheduled Airspace and must be at least 1000 Feet below any FW Aircraft transitioning over the Impact Area.
  - d. RSO must ensure that the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards.
  - e. RSO is required to check the FDC/Gun line Safety-T's. Safety-T must be on hand with each gun.
  - f. Mortar Position must engage targets utilizing the data contained in this brief.
  - g. All mortars must fire registration fires that must be verified by the RSO prior to the exercise.
  - h. Base Plates must be marked at 11 o'clock and aiming stakes must be left in place after registration.
2. **Increment Burning:**
  - a. Increment Burning must be IAW BO 3500.1A
  - b. Units must contact Longrifle for permission prior to burning increments.
  - c. Powder must be burned in areas cleared to mineral earth, and located no closer than 200 feet from vegetation.
  - d. Unit must not exceed 100 increments at any one time while burning.
  - e. Units must have fire extinguishers, water, and shovels at the burn site.
  - f. Units must remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation.
  - g. Units must contact Longrifle after last increment has burned and 30 minutes has passed.

### MP Blue 60mm Mortar

FP 57144 94296  
DOF 0080 mils grid  
Charge 1 Illum Only

Mortar **must cease fire** prior to anyone crossing MSL Blue at Dir 280°mag  
Range to Target  
550 meters  
Target Grid  
57180 94830

### SESAMS

1. A **"SESAMS Training in Progress"** Sign must be posted at the entrance to R215A by the unit.
2. When conducting Force-on-Force no shooting member must have conducted live fire within 24 hours of this event.
3. All participating Marines must be required to wear flak, Kevlar, throat/groin protector, contact gloves, utilities, hearing protection, and approved masks.
4. All personnel must wear the specified gear when inside the safety perimeter.
5. You must have a minimum of two NCOs or higher to act as PSO's.
6. **PSO's must ensure that there are no intentional headshots.**
7. No engagements closer than **7 feet for the 9mm.**
8. No engagements closer than **14 feet for the 5.56mm.**
9. All Marines must be lined out before any SESAMS rounds are distributed.
10. All SESAMS magazines must be clearly marked, as must the barrels.
11. Following the completion of the training, all Marines must be lined out again.
12. **Ensure all training is conducted IAW MCO 3570.1C/DPAM 385-63.**

### Steel Reactive Targets (SRT)

1. Only SRTs with a certified Brinell hardness rating (BHN) of AR (BHN) 500 to AR (BHN) 550 will be used for training.
2. Homemade or unit-constructed targets must meet a minimum of an AR (BHN) 500 rating.
  - a. Manufacturers (commercial or organizational) of SRT must provide a certificate of hardness to ensure the steel targets meet the minimum hardness rating of AR 500.
  - b. Before firing, the RSO must ensure that all SRT have the correct Brinell hardness rating.
  - c. The certificate must remain on file as long as the targets are being utilized by the installation.
  - d. Steel with an abrasion resistant coating coupled with AR (BHN) 550 steel is considered optimum for safety and longevity of use.
3. SRT that is not flat and smooth, will cause unpredictable splatter effects.
  - a. SRTs that are warped, cracked, or have holes burrowed through them, are considered unserviceable and must be replaced.
  - b. Targets with dimples (slight surface depressions) that are 1/32" deep into the steel are considered unserviceable.
4. Mounting bolts on the target face will have a rounded head. The rounded head end of the mounting bolt must be oriented to the shooter. Mounting bolts that are damaged must be replaced.
5. If more than one portable target is to be used, the targets will be set in a fashion so that the splatter from one target will not ricochet off the next shooter.
6. Each target must be placed with the direction of fire and the angle of deflection taken into consideration.
7. Ensure the SRT remain adjusted to operate properly upon impact.
8. Targets that are intended to flip, swing, or rotate must move freely and operate as intended.
  - a. Ensure all targets are adjusted to fall with minimal bullet impact.

**Special Instructions Continued on Next page**

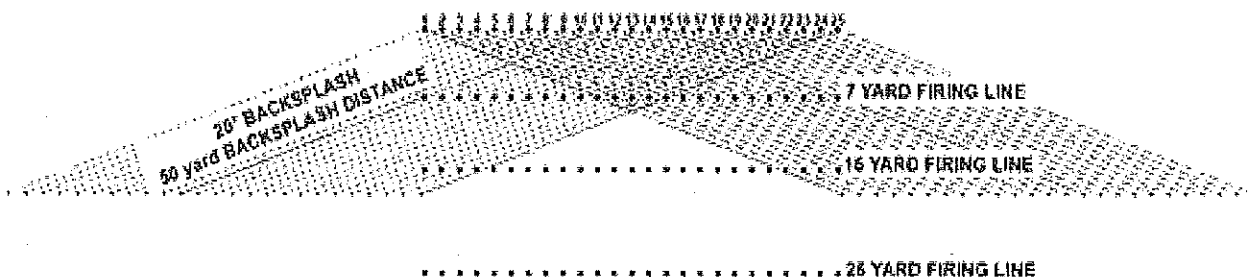
ENCLOSURE (4)

## RANGE SPECIAL INSTRUCTIONS

PPE Requirements	Prohibitions
1. PPE Level 0 and OSHA-approved wrap-around impact-resistant eyeglasses are mandatory for all personnel on the range within 50 meters of the firing line.	1. Automatic fire is not authorized on SRT. 2. Applying grease or oil ("slicking") to the target face is not authorized.

### 20-degree Dispersion Area

1. The RSO will observe and maintain control of the firing line to ensure shooters do not inadvertently move into the 20 degree dispersion area.
2. Angle of deflection is the angle of travel of bullet fragments relative to the plane of the target surface towards the shooter.
  - a. When a shooter is shooting directly at a target, the bullet splatter will angle off the target up to 20-degrees in all directions from the point of impact and travel up to 45m.
  - b. The majority of all bullet fragments will exit the target within the 20-degree Dispersion Area.
  - c. A stationary target with a 20-degree forward cant (head forward of the body) produces the best angle of deflection with the most fragment consistency.
  - d. Careful consideration of the 20-degree Dispersion Area must be taken into account when multiple stationary SRT are in a line.
  - e. The number of shooters on the firing line have to be limited at closer distances to keep all personnel out of the 20-degree Dispersion Area.
3. Ensure portable SRT are prevented from moving (laterally, rotationally, or downrange) from set-up position during training which would change the 20-degree Dispersion Area(s) of the targets.



### Ammunition and Minimum Engagement Distances

1. Armor piercing ammunition will not be used to engage SRT.
2. Frangible and M1037 Short Range Training Ammunition (SRTA) when used on SRT will pit, gouge, and buildup residue on steel. Making the target unserviceable.
3. Enhanced Performance Round (EPR) ammunition will damage steel targets faster than other service ammunition.

#### Marine Corps

Service Pistol – 7 meters

00 Buck Shotgun – 10 meters.

12 Gauge Slug - 46 meters.

5.56mm (w/penetrators) – 69 meters

5.56mm (Soft Core or Solid copper Alloy) 23 meters

7.62mm – 140 meters

.50 and .338 caliber – 375 meters.

#### Army

Service Pistol - 7 meters

5.56mm - 25 meters

7.62mm - 100 meters

.50 and .338 caliber – 375 meters.

**Note:** SRTs that are unserviceable maybe used for engagements exceeding 150m for 5.56mm and 140m for 7.62mm.

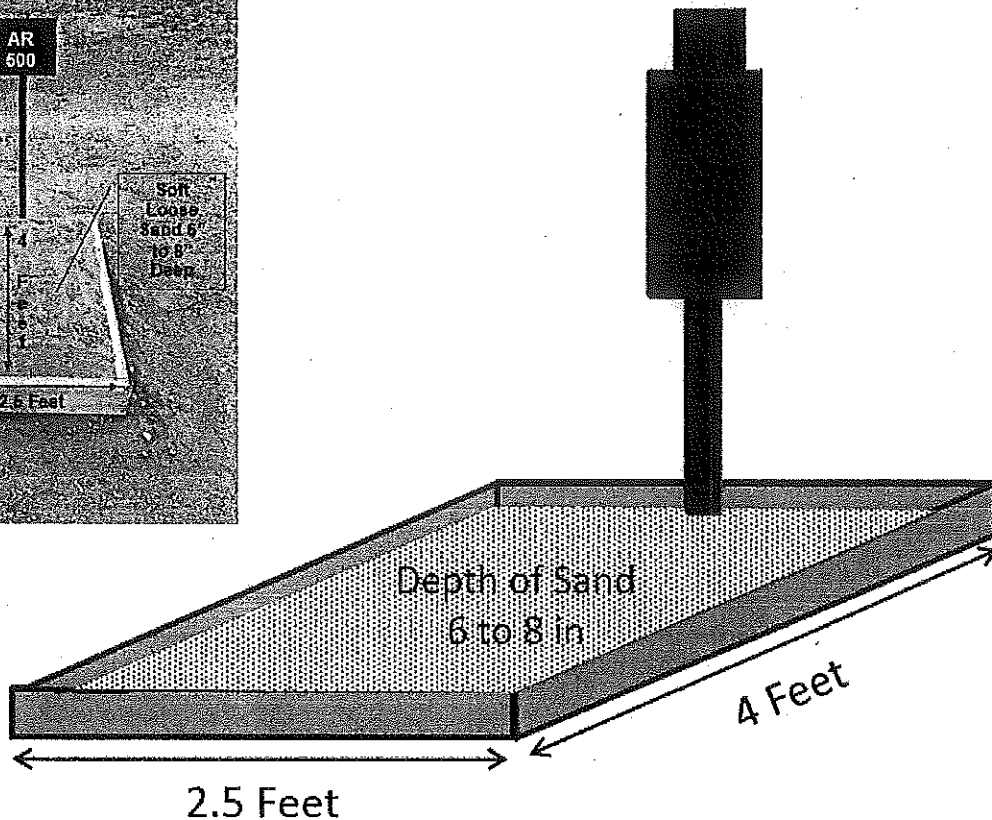
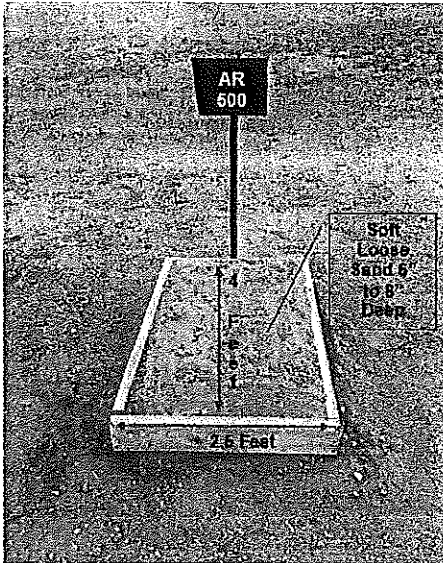
Special Instructions Continued on Next page

ENCLOSURE (12)

## RANGE SPECIAL INSTRUCTIONS

### Target Placement

1. Place targets on soft sandy-type soil or place an absorbing material such as a sand box (minimum 2.5' x 4 feet with 6 to 8 inches of sand) in front of the target to absorb the splatter and prevent projectiles from ricocheting off the ground.



Note: SRTs that are unserviceable maybe used for engagements exceeding 150m for 5.56mm and 140m for 7.62mm.

### Civilian Static Firing Data

#### Factory Loads ONLY

#### FACE-TO-FACE WITH RANGE SAFETY IS REQUIRED PRIOR TO GOING HOT

1. **Steel Targets MUST** be place directly behind and centered on the survey marker.
2. **Survey marker MUST** be visible from the firing line
3. **Once Face-to-Face with Range Safety is completed**, targets shall **NOT** be moved without a new face-to-Face being conducted.
4. Target shall be placed with a 20 degree head tilt forward or free hanging.
5. Gimmick targets are not authorized because of the inability to control angle of the target, and the angel of the splatter.
  - a. Examples Rotating Christmas trees.
  - b. Examples Targets that flip back and forth.
6. **Cross firing is prohibited.**
7. Shooters **SHALL** be laid in with a compass by OIC.
8. Each shooter **MUST** have their lateral limits and allowable targets verified by the RSO.

FL: 56737 94198 to 57038 94144

#### Lateral Limits

LLL: 008° mag

RLL: 010° mag

LOA: 56828 94744 to 57299 94677

Target Number	Range to Target	UTM Grid	
1	273m	456924	3694437
2	473m	457101	3694609
3	414m	457110	3694543
4	430m	457141	3694549

Special Instructions Continued on Next page

ENCLOSURE (12)

## RANGE SPECIAL INSTRUCTIONS

Target Number	Range to Target	UTM Grid
5	498m	457147 3694619
6	551m	457224 3694644
7	565m	457205 3694669

### ACTIVE DUTY PERSONNEL PARTAKING IN NFE OR MCCS RECREATIONAL SHOOTING

1. Definition of NFE vs MCCS.
  - a. Non-Federal Entity (NFE) means a state, local government, Indian tribe, institution of higher education (IHE), or nonprofit organization that carries out a Federal award as a recipient or sub-recipient.
  - b. Marine Corps Community Services (MCCS) is a comprehensive set of programs that support and enhance the operational readiness, war fighting capabilities, and life quality of Marines, their families, retirees and civilians.
2. Participating in NFE Recreational Shoots.
  - a. Service members who participate in NFE recreational shoots must be members of that NFE club.
  - b. As members, they are covered by that NFE's liability insurance.
3. Wearing Utility Uniforms at NFE or MCCS Recreational Shooting Events.
  - a. Minimum PPE level requirements remain the same, PPE Level 0.
  - b. Military PPE Level 0 is full utility uniform with eye and ear protection.
  - c. Civilian PPE Level 0 is long trousers, closed toed shoes, at least 1/4 length sleeve shirt with eye and ear protection.
  - d. It is entirely up to the active duty participant's chain of command if they require their service member to wear the utility uniform or civilian attire to meet that requirement.
4. Utilizing Military Issued Weapons at NFE or MCCS Recreational Shooting Events.
  - a. In order to utilize their issued weapon, the service member must have a letter from their Battalion Commander authorizing use and transportation (if in a POV) of that weapon.
  - b. In the case of a POV, transportation of that weapon needs to meet the requirements that SES Battalion has set forth for transportation of assault weapons on board MCB Camp Pendleton.
5. Utilizing Military Issued Ammunition at NFE or MCCS Recreational Shooting Events.
  - a. Military issued ammunition cannot be utilized with personally owned weapons. Conversely, civilian ammunition cannot be utilized in service issued weapons.
  - b. In order to utilize issued military ammunition, with issued service weapon, authorization must be included in the same letter from their Battalion Commander authorizing use of weapons or in a separate letter.
  - c. Ammunition needs to be drawn from ASP and transported to range in approved military vehicle by an authorized Ammunition Technician.
  - d. Ammunition is normally received by the OIC of the range and is included on the OIC's NAVMC 11381.
  - e. In the case of recreational shooting when utilizing military ammunition, the senior service member from the unit that the ammunition is coming from will receive all the military ammunition from that unit, inventory it against the 1348, and record it on a separate NAVMC 11381.
  - f. Senior service member will check in with Range OIC to ensure range is certified and authorized for that ammunition for a NFE or MCCS recreational shooting event, and to ensure Range OIC, whether NFE or MCCS, includes it their count for ammunition utilized on range.
  - g. Military ammunition is not recorded in the NFE or MCCS NAVMC 11381.
  - h. If there is any military ammunition remaining at the end of the recreational shoot, the senior service member who signed for the ammunition from that unit, will inventory it and transfer the ammunition to an authorized Ammunition Technician and transported back to the ASP for turn in.
  - i. The military chain of custody for ammunition shall not be broken at any time.
6. Military Waiver/Deviations.
  - a. Military waivers/deviations **DO NOT APPLY** to active service members utilizing military ammunition at NFE or MCCS recreational shooting events.
7. Documentation.
  - a. All documents, Letters of authorization, NAVMC 11381, etc., will be inspected by the Range OIC.
  - b. All documents, Letters of authorization, NAVMC 11381, etc., must be available for inspection by the RCO or his direct representation at all times.

Special Instructions Continued on Next page

ENCLOSURE (GL)

# R215A

57



ENCLOSURE (4)

457000m E



**R215A  
NFE  
Steel Target Box**

Whiskey

**Tgt #1**

**LOA**

**LOA**

**Tgt #2**

**Tgt #5**

**Tgt #6**

**Tgt #7**

**Tgt #3**

**Tgt #4**

**NFE Static Firing Line**

**OPERATIONAL RISK MANAGEMENT MATRIX**  
**MCB, CAMP PENDLETON**

Training Evolution: Range 212, 215A Tables 3-6		Organization: 1stMar Reg	Assigned OIC: (b)(3), (b)(6), (b)(7)(c)	Assigned RSO: (b)(3), (b)(6), (b)(7)(c)	Weapons Systems: M4, M27, M16	Date: 13-16 January 2020	
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
Execution	Discharge of weapon resulting in injury.	Inexperienced Marines, poor situational awareness, not following proper loading and unloading procedures, lack of position safety officers.	I/C=2	Restate all associated weapons conditions and weapons safety rules during safety brief. Ensure Marines are properly trained on weapons. Marines must understand where they will be in relation to one another. Ensure RSO/PSO's are in a location to observe and control the safety of the range. Marines wear all required PPE.	I/D=3	PSOs will be tasked to ensure that all shooters remain in their assigned lanes and all the weapons safety rules are followed at all times. Shooters will be briefed course of fire with demonstration before executing.	RSO and PSOs will be present for each stick conducting the course of fire on the range.
Execution	Injury due to terrain/obstacle.	Marine unable to identify hazards due to night.	I/C=3	Marines receive safety brief from the RSO on hazardous terrain and will be instructed to watch their footing while moving. RSO ensures all unnecessary obstacles are removed for the safe execution of training.	I/D=4	RSO will give safety brief. PSOs implement controls.	RSO/OIC supervise PSOs. PSOs supervise marines.
Execution	Death or injury due to night live-fire training, negligence	Lack of experience utilizing night vision devices and PEQ-15/16	I/C=2	Marines will be briefed on the course of fire to be conducted at night before the night firing. Marines will receive whitespace training to further enhance understanding and use of equipment prior to execution. Prior to execution, marines will conduct night rehearsal supervised by PSOs. PSOs will ensure marines have mastered the techniques required for night live-fire prior to conducting live-fire. Marines will be briefed that if their NVGs or their PEQ-15/16 turns off, that they are not to fire until they have it back on. Additionally marines will be briefed that if they cannot properly see out of their NVGs, they will not fire. All optics functions checked prior to executing night live-fire.	I/D=3	PSOs ensure marines can properly use NVGs & PEQ-15/16s before advancing in training. RSO/OIC conducts safety brief.	RSO/OIC supervise the overall conduct of execution. PSOs supervise marines on the firing line.
Execution	Marines keeping unfired rounds	Marines do not fire all rounds due to time constraints or weapons malfunctions.	II/C=2	Proper shakedown, magazine inspection, and line outs will be conducted at the conclusion of firing and before any Marines leave the range.	II/D=3	RSO will ensure that the ammo storage point is supervised at all times. Each Marine will be lined out at the completion of each live run.	PSOs will clear out all weapons and magazines following each course of fire. RSO will conduct a line out of all gear prior to the conduct of live fire training.

ENCLOSURE (2)

Execution	Skeletal Injuries	Uneven Terrain	II/B=2	PSOs will walk the terrain. RSO will give a safety brief covering all hazardous terrain encompassed in the range. Each Marine will use proper movement techniques when moving while firing.	II/D=4	Range Safety Brief giving an orientation to R206 terrain. Any hazardous terrain will be identified and marked or removed.	RSO will ensure all hazardous terrain is marked and briefed to the Marines.
Execution	Hearing Loss	Weapons firing in close proximity to unprotected Marines.	IV/B=4	Safety brief covers safe use of ammunition with hearing protection. Corpsman provides hearing protection at safety brief if needed.	IV/C=5	PSOs will inspect that all Marines utilize the necessary PPE when conducting the range.	PSOs will inspect all shooters prior to conducting live-fire.
Execution	Heat Injuries	Dehydration as a result of minimal water consumption or excessive exposure to sunlight.	IV/B=4	Marines will bring a full camelback to R206 and will be given ample opportunities to consume water, apply sunscreen and eat during the time spent at the range.	IV/D=5	NCOs will ensure their Marines are consistently hydrating and applying sunscreen as needed.	RSO will ensure that PSOs are engaged with the Marines and preventing heat injuries.



HAZARD SEVERITY	RAC ASSESSMENT CODE MATRIX					COMMAND REVIEW/APPROVAL	
	HAZARD SEVERITY	MISHAP PROBABILITY				OIC:	
		A	B	C	D		
I - CATASTROPHIC- Death, permanent disability, major property damage II - CRITICAL - Permanent partial disability, major system or minor property damage III - MARGINAL - Minor injury, minor system or property damage IV - NEGLIGABLE - 1 <sup>st</sup> aid, minor system repair <u>MISHAP PROBABILITY</u> A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY <u>RISK ASSESSMENT CODE (RAC)</u> 1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL	I	1	1	2	3		
II	1	2	3	4	RSO:		
III	2	3	4	5			
IV	3	4	5	5	Company CO :		
					Reg OPSO :		

ENCLOSURE (4)

WORK DESCRIPTION (CIRCLE ONE): \_\_\_\_\_

(LTI / PFI) / SEM-ANN / ANNUAL / QUARTERLY / OTHER: RIFLE LTI / PFI \_\_\_\_\_

INSPECTOR (S): (b)(3), (b)(6), (b)(7)(c) \_\_\_\_\_

WEAPON TYPE: M4 QTY: 81 SERVICE REQUEST #: \_\_\_\_\_

QTY	SERIAL NO.	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS
1	W021933	X												CODE "A"
2	W034605	X												CODE "A"
3	W076031	X												CODE "A"
4	W076063	X												CODE "A"
5	W076080	X												CODE "A"
6	W076217	X												CODE "A"
7	W076232	X												CODE "A"
8	W076234	X												CODE "A"
9	W147376	X												CODE "A"
10	W149585	X												CODE "A"
11	W149840	X												CODE "A"
12	W150046	X												CODE "A"
13	W150078	X												CODE "A"
14	W150092	X												CODE "A"
15	W120290	X												CODE "A"
16	W150542	X												CODE "A"
17	W191845	X												CODE "A"
18	W198409	X												CODE "A"
19	W198520	X												CODE "A"
20	W198637	X												CODE "A"
21	W198720	X												CODE "A"
22	W198794	X												CODE "A"
23	W198796	X												CODE "A"
24	W198858	X												CODE "A"
25	W198864	X												CODE "A"
26	W198867	X												CODE "A"
27	W198887	X												CODE "A"
28	W198910	X												CODE "A"
29	W199150	X												CODE "A"
30	W199554	X												CODE "A"

1 CODE "A" \_\_\_\_\_

2 \_\_\_\_\_

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ENCLOSURE (2)

WORK DESCRIPTION (CIRCLE ONE):

(LTI / PFI) / SEM-ANN / ANNUAL / QUARTERLY / OTHER: RIFLE LTI / PFI

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

WEAPON TYPE: M4 QTY: 81 SERVICE REQUEST #:

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4	W205105	X												CODE "A"
5	W205736	X												CODE "A"
6	W205213	X												CODE "A"
7	W205478	X												CODE "A"
8	W205532	X												CODE "A"
9	W205690	X												CODE "A"
10	W205888	X												CODE "A"
11	W208855	X												CODE "A"
12	W209043	X												CODE "A"
13	W237873	X												CODE "A"
14	W237949	X												CODE "A"
15	W259824	X												CODE "A"
16	W259938	X												CODE "A"
17	W260006	X												CODE "A"
18	W264638	X												CODE "A"
19	W264687	X												CODE "A"
20	W264742	X												CODE "A"
21	W265309	X												CODE "A"
22	W265578	X												CODE "A"
23	W265909	X												CODE "A"
24	W265921	X												CODE "A"
25	W265945	X												CODE "A"
26	W270329	X												CODE "A"
27	W270344	X												CODE "A"
28	W270403	X												CODE "A"
29	W270561	X												CODE "A"
30	W270901	X												CODE "A"

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ENCLOSURE (2)

[illegible]



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

IN REPLY REFER TO  
3500  
Co H&S  
14 Jan 19

From: Platoon Commander, 15th MEU Platoon  
To: Operations Officer, 3d Assault Amphibian Battalion  
Via: Company Commander, Company H&S

Subj: RIFLE COMBAT MARKSMANSHIP TABLES III-VI

Ref: (a) BN ORDER 3500.1D MCB RANGE REGULATION  
(b) MCO 3570.1C RANGE SAFETY  
(c) MARADMIN 132/15

Encl: (1) Concept of Operations  
(2) Timeline  
(3) Gear list  
(4) Weather report  
(5) Courses of fire  
(6) ORM

1. Situation: 15th MEU platoon is preparing to conduct Rifle Combat Marksmanship Tables III-VI at Range 212 in Camp Pendleton on 16 January 2020. Due to the operational commitments and pre-deployment training plan (PTP) requirements for Native Fury 2020, it is required that the 15th MEU Platoon is 100% qualified on Rifle Combat Marksmanship Tables III-VI.

2. Mission: On 16 January 15th MEU Platoon will conduct a battle sight zero (BZO) and Tables III-VI in order to (IOT) meet PTP requirements for Native Fury.

3. Execution:

a. Commanders Intent:

(1) Purpose: Accomplish prescribed PTP training requirements in preparation for Native Fury.

(2) Method: This training will be accomplished through a period of instruction, rehearsals, and evaluation by the Marksmanship Training Unit (MTU). Instruction and evaluation will focus on combat marksmanship. The Platoon will accomplish this by conducting Rifle Combat Marksmanship Tables III-VI per MARADMIN 132/15.

(3) End State: All Marines successfully qualify on Rifle Combat Marksmanship Tables III-VI.

ENCLOSURE (AL)

b. Concept of Operations: This will be accomplished in four phases (Phase I-IV).

(1) Phase I: (PREPARATION) This phase begins with identifying the Marines needed to complete Rifle Combat Marksmanship Tables III-IV. During this Phase the Armorer will conduct pre firing inspections (PFI) and limited technical inspection (LTI) on all weapons, as well conduct operational checks on all optics and lasers. A warning order will be given and a range walkthrough will be conducted. This phase ends on 15 January after the completion of the LTIs and PFIs.

(2) Phase II: (MOVEMENT) This phase begins with all Marines and equipment accounted prepared to conduct movement. During this phase Section Leaders will ensure all Marines and equipment are accounted for. The platoon will conduct its movement via 7 tons from the 21 Area to R212. This phase ends with the 15th MEU Platoon occupying R212 on 16 January.

(3) Phase III: (RIFLE COMBAT MARKSMANSHIP TABLES III-VI) This phase begins with the 15th MEU Platoon occupying R212 on 16 January. During this phase the platoon will conduct Rifle Combat Marksmanship Tables III-VI. This consist of both day and night live fire training. This phase ends once all Marines have completed and qualified on Rifle Combat Marksmanship Tables III-VI and the OIC calls the range cold into Longrifle.

(4) Phase IV: (RANGE RETROGRADE) This phase will be in two parts.

(a) Stage I: (MAIN BODY RETROGRADE) This stage begins when the range is called in cold to Longrifle. During this part a majority of the platoon will retrograde back to the 21 area. The OIC will stay at the range with a established ammo watch. This stage ends with the accountability of all 31 Marines and equipment in the 21 Area and at R212.

(b) Stage II: (RBE RETROGRADE) This stage begins once Marines from 1st Marines conduct ammo and range turnover on 17 January. During this phase the remaining 9 Marines will travel back to the 21 Area. This stage ends with the accountability of all remaining Marines and equipment in the 21 Area.

c. Tasks:

(1) Platoon Sergeant:

T1: Consolidate roster of Marines and serialized gear for equipment density list (EDL).

P1: IOT maintain accountability of all Marines and serialized gear for the duration of the training evolution.

T2: Ensure all logistical support requests have been successfully routed to 1st Marines.

P2: IOT ensure all logistical requirements for effective conduct of R212.

T3: Anticipate and send rapid requests as necessary.

P3: IOT allow for continuous operations at R212.

(2) Range Safety Officer:

T1: Ensure strict adherence to all safety rules and regulations while conducting Tables III-IV.

P1: IOT accomplish safe and effective training

T2: Establish an Ambulance Exchange Point (AXP).

P2: IOT ensure an efficient casualty exchange.

T3: Determine road guard positions.

P3: IOT safely conduct the range and ensure adjacent units do not interfere with range SDZs.

(2) Armorer:

T1: LTI/PFI all weapons in our armory and conduct PVS-14 and PEQ 15 checks.

P1: IOT verify all weapons and equipment is operational.

(2) Corpsman:

T1 Be prepared to establish the ambulance exchange point during the movement and training at R212.

P1: IOT facilitate efficient assessment, treatment, and transfer of any casualties.

d. Coordinating Instructions:

(1) No communication plan:

(a) 15th MEU Platoon will complete a minimum of three communications to Company headquarters or Battalion OOD. Near side communications will be established with battalion as per SOP (Mission card, EDL, departing friendly lines report).

(b) Communication with Battalion: All communication will be conducted per Battalion SOP via HF/VHF.

(c) Range control: If at any time the Platoon loses communication with Longrifle, training will cease until communication is re-established.

(d) Road Guards: Communications checks will be conducted once every hour at the bottom of the hour (:30) If a radio check is missed by one road guard training will continue until the second radio check is missed. All training will cease if two radio checks are missed.

(2) Lost Marine plan:

(a) All Marines will travel in pairs and inform their chain of command when they leave the immediate area. All Marines will carry a water source when departing the immediate area. In the event that a Marine has been identified as missing, all movement and training will cease. The platoon will gain accountability of all present personnel and equipment. Then a team of Marines will be sent to search the last known location of the lost Marine.

(b) Accountability will be conducted before and after any major movement. Once a Marine has been identified lost, Range control will be notified in order to prepare aerial search and rescue teams to assist in search.

(c) Lost Marine will remain in place until found. At all cost every attempt should be made to remain in place until absolutely required to displace from last known position. If Marine must displace a large marker will be made pointing in the direction of movement. That Marine will be looking for hardball road and follow it until they find another units command post and check in with the OOD. The lost Marine will contact the 3d AABn OOD, Platoon Commander, or Platoon Sergeant via the OOD.

(3) Uniform and gear: (See encl 3.)

(4) Go/No GO criteria:

(a) If transportation cannot be provided to the range or if more than 25% of our weapons and optics are deadlined the platoon will reschedule the range.

#### 4. Admin and Logistics:

##### a. Administration:

(1) Personnel count (MO/ME/NO/NE):1/38/0/1

(2) Casualty Evacuation (CASEVAC) plan:

(a) Routine: If a routine casualty occurs, the corpsman present will evaluate the Marine and provide initial treatment. If additional treatment is needed, the Marine will be transported to the 21 Area Battalion Aid Station (BAS) or 1st Marines Regimental Aid Station (RAS) and their chain of command will be notified.

(b) Priority/Urgent: In the event of a priority or urgent casualty, all training will cease and Range Control will immediately be notified while the casualty is assessed by a corpsman and platoon staff. The casualty will be reported by either the OIC, RSO, or Corpsman. If the casualty is going to be transported by air an LZ will be established IVO of R212 or in the 53 Area IVO 11S MS 556 937. Daytime landing zone (LZ) for air casualty evacuation will be marked by an air panel. Nighttime LZ for air CASEVAC will be marked by a chemstick buzz saw. If the casualty is to be transported via ground the casualty will be loaded to the safety vehicle and



brought to the AXP which will be established at 11S MS 5481 9381.

b. Logistics: Provided by 1st Marines.

5. Command and signal:

a. Command:

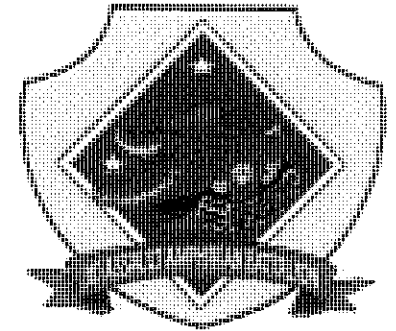
- (1) Platoon Commander, first in command, will be located at R212.
- (2) Platoon Sergeant, second in command, will be located at R212.
- (3) 1st Section Leader, third in command, will be located at R212.
- (4) Event OIC(b)(3), (b)(6), (b)(7)(c) will be located at R212.
- (5) Event RSO (b)(3), (b)(6), (b)(7)(c) will be located at R212.
- (6) CMT(b)(3), (b)(6), (b)(7)(c) will be located at R212.

b. Signal:

- (1) BATTALION: PRIMARY/ALTERNATE 942/943
- (2) FIRST PLATOON: 991/992
- (3) RANGE CONTROL: 40.35

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

UNCLASSIFIED//FOUO



Range 212 Rifle Combat Marksmanship Tables III-VI  
15th MEU Platoon  
Confirmation Brief

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Prepared by: (b)(3), (b)(6), (b)(7)(c)  
20200114

UNCLASSIFIED//FOUO

ENCLOSURE (2)



UNCLASSIFIED//FOUO



## CONOPS Overview

**Mission:** On 16 Jan 15th MEU Platoon will conduct a battle sight zero (BZO) and Tables III-IV IOT meet PTP requirements for Native Fury.

**Commander's Intent:**

- **Purpose:** Accomplish prescribed PTP training requirements in preparation for Native Fury.
- **Method:** This training will be accomplished through a period of instruction, rehearsals, and evaluation by the Marksmanship Training Unit (MTU). Instruction and evaluation will focus on combat marksmanship. The Platoon will accomplish this by conducting Rifle Combat Marksmanship Tables III-VI per MARADMIN 132/15.
- **Endstate:** All Marines successfully qualify on Rifle Combat Marksmanship Tables III-VI.

**T&R Standards:**

- MARADMIN 132/15

T/O	Equipment	Class I	Class III	Class V	Class IX
1/38/0/1	40 M4s 40 PEQ15/16s 40 PVS 14s 40 RCOs	Chow: 2 DOS Water: 2 DOS	20200116 Transportation 20200117 Transportation	193,200 - A059 - 5.56MM BALL	N/A

UNCLASSIFIED//FOUO

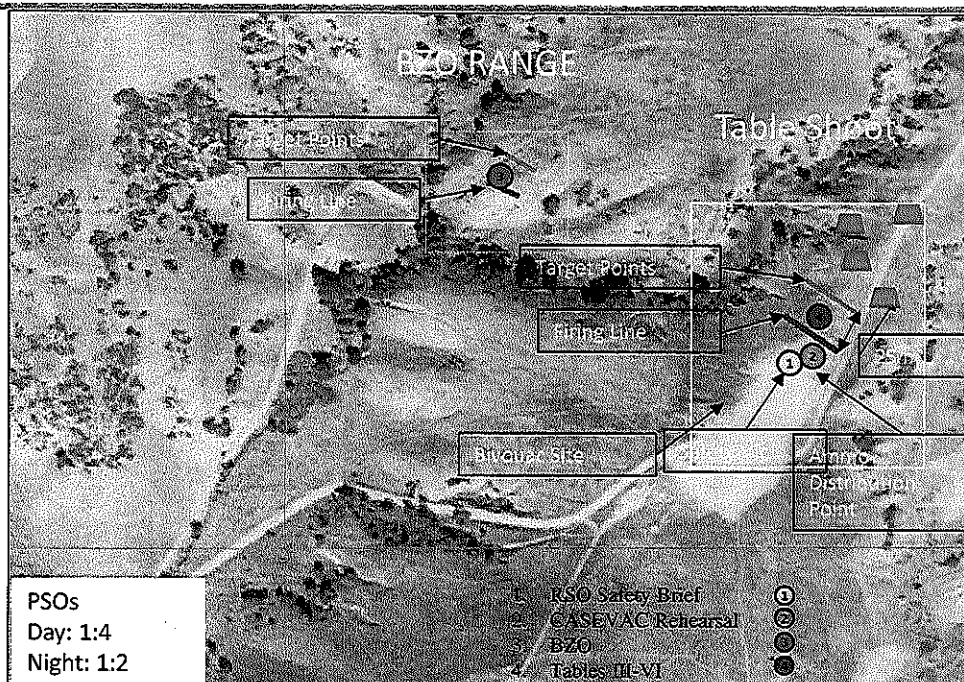
ENCLOSURE (42)



UNCLASSIFIED//FOUO



## COA Graphic/Narrative



PSOs  
Day: 1:4  
Night: 1:2

### Timeline:

**20200118**

0500- Movement R212  
0530- Safety vic/Ammo  
0600- Occupy R212  
0630- Range setup  
0630- PSO Brief  
0700- Safety Brief  
0730-Range Hot/BZO  
0900- Tables III&V  
1700- Night Safety  
Brief/Rehearsals/PCCs/ PCIs  
1730- Tables IV&VI  
2359- Range Cold/Police  
Call/Retrograde  
0000-Ammo Watch Est.

**20200119**

0700- Ammo Pickup  
0800- Range insp/Depart  
0900-Arrive to 21 Area

**COA Narrative:** Phase 1 (PREPARATION): PF/ILT will be conducted on all weapons. All Marines and other equipment will be inspected before departure to R212. The platoon will conduct a range walkthrough. Phase 2 (MOVEMENT): Marines and equipment will depart the 3d AABN RAMP to R212 in Horno. Phase 3 (RIFLE COMBAT MARKSMANSHIP TABLES III-VI): Marines will execute Tables III-VI at R212. Phase 4 (RETROGRADE): All Marines, weapons, and equipment will be accounted for back at the 3d AABN RAMP.

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ENCLOSURE (X)



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## Contingencies

### Coordinating Instructions:

- **No Comm Plan**
  - If at any time the Platoon loses communication with Longrifle, training will cease until communication is re-established.
- **Lost Marine Plan**
  - In the event that a Marine has been identified as missing, all movement and training will cease. The platoon will gain accountability of all present personnel and equipment. Then a team of Marines will be sent to search the last known location of the lost Marine.
  - Lost Marine will remain in place until found. At all cost every attempt should be made to remain in place until absolutely required to displace from last known position. If Marine must displace a large marker will be made pointing in the direction of movement.
- **Go/No Go Criteria**
  - If transportation cannot be provided to the range or if more than 25% of our weapons/optics are deadlined the platoon will reschedule the range.

### CASEVAC Plan:

- **Urgent/Priority-** In the event of a priority or urgent casualty, all training will cease and Range Control will immediately be notified while the casualty is assessed by a corpsman and platoon staff. The casualty will be reported by either the OIC, RSO, or Corpsman. If the casualty is going to be transported by air an LZ will be established IVO of R212 or in the 53 Area IVO 11S MS 556 937. Daytime landing zone (LZ) for air casualty evacuation will be marked by an air panel. Nighttime LZ for air CASEVAC will be marked by a chemstick buzz saw. If the casualty is to be transported via ground the casualty will be loaded to the safety vehicle and brought to the AXP which will be established at 11S MS 5481 9381.
- **Routine-** All routine casualties will be evaluated and treated by a corpsman. If additional treatment is needed the Marine will be pushed to 21 Area BAS or 1st Marines RAS.

#### Command

- **OIC**
- **RSC** (b)(3), (b)(6), (b)(7)(c)

#### Signal

- **Primary:** VHF
- **Alternate:** HF
- **Tertiary:** Cellphone
- **Frequencies:** Platoon 991/992, Battalion 942/943

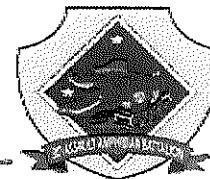
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ENCLOSURE (2)



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# ORM



## RAC ASSESSMENT CODE MATRIX

H A Z A R D  S E V E R I T Y	MISHAP PROBABILITY				
		A	B	C	D
	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
	IV	3	4	5	5

- **Most Dangerous Hazard 1: Death or injury due to night live-fire training, negligence**

- Cause: Lack of experience utilizing night vision devices and PEQ-15/16
- Mitigation: Marines will receive whitespace training to further enhance understanding and use of equipment prior to execution. Prior to execution, marines will conduct night rehearsal supervised by PSOs. Marines will be briefed that if their NVGs or their PEQ-15/16 turns off, that they are not to fire until they have it back on. Additionally marines will be briefed that if they cannot properly see out of their NVGs, they will not fire.
- Supervise: RSO/OIC supervise the overall conduct of execution. PSOs supervise marines on the firing line.

- **Most Dangerous Hazard 2: Discharge of weapon resulting in injury.**

- Cause: Inexperienced Marines, poor situational awareness, not following proper loading and unloading procedures, lack of position safety officers.
- Mitigation: Restate all associated weapons conditions and weapons safety rules during safety brief. Ensure Marines are properly trained on weapons. Marines must understand where they will be in relation to one another. Ensure RSO/PSO's are in a location to observe and control the safety of the range. Marines wear all required PPE.
- Supervise: RSO and PSOs will be present for each stick conducting the course of fire on the range.

- **Most Likely Hazard 1: Skeletal Injuries**

- Cause: Uneven Terrain
- Mitigation: PSOs will walk the terrain. RSO will give a safety brief covering all hazardous terrain encompassed in the range. Each Marine will use proper movement techniques when moving while firing.
- Supervise: RSO will ensure all hazardous terrain is marked and briefed to the Marines.

- **Most Likely Hazard 2: Hearing Loss**

- Cause: Weapons firing in close proximity to unprotected Marines.
- Mitigation: Safety brief covers safe use of ammunition with hearing protection. Corpsman provides hearing protection at safety brief if needed.
- Supervise: PSOs will inspect all shooters prior to conducting live-fire.

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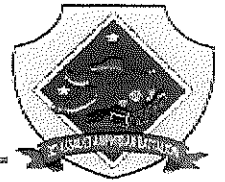
ENCLOSURE (2)

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# Questions

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ENCLOSURE (12)

# TIMELINE-Rifle Combat Marksmanship Tables III-VI

0500	Movement to R212	R212
0530	Safety vic arrive/Ammo drop off	R212
0630	Working Party range set up	R212
0630	PSO brief	R212
NLT 0700	Marines arrive	R212
0700	Safety Brief/Rehearsal/PCC/PCI	R212
0730	Range Hot	R212
0730	BZO	R212
0900	Conduct Tables 3 & 5	R212
1700	Night Safety Brief/Rehearsals/PCC/PCI	R212
1730	Conduct Tables 4 & 6	R212
2359	Range Cold. Police Call. Marines depart.	R212
0000-0700	Ammo Watch Est.	R212
0700	Ammo Pickup	R212
0800	Range Inspected. Depart	R212

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

ENCLOSURE (42)

Enclosure (2)



## GEAR LIST - Rifle Combat Marksmanship Tables III-VI (MINIMUM)

### ON PERSON:

- (1) SET MARPAT WOODLAND UTILITIES
- (1) WOODLAND BOONIE COVER
- (1) PAIR SOCKS
- (1) SKIVVY SHIRT
- (1) APPROPRIATE COLOR MARTIAL ARTS BELT
- (1) MARINE CORPS-APPROVED BOOTS
- (1) T/O WEAPON(S) W/VICKERS SLING (DUMMY CORDED)
- (1) WATCH
- (1) PLATE CARRIER
- (2) FRONT AND BACK SAPIES
- (3) DOUBLE MAGAZINE POUCHES WITH (6) MAGAZINES (8 FOR IAR GUNNERS)
- (2) GRENADE POUCHES
- (1) DROP POUCH
- (1) IFAK
- (1) CAC
- (1) ROOM KEY
- (1) PVS-14 (DUMMY CORDED)
- (1) PEQ-15/16 (DUMMY CORDED)
- (1) RCO (DUMMY CORDED)
- (1) ALL ISSUED SL3 NEEDED FOR PEQ AND PVS-14

### ASLT PACK:

- (1) EAR PRO
- (1) HEADLAMP (WHITE AND RED LENS)
- (1) TACTICAL GLOVES
- (1) CAMELBACK BLADDER
- (1) SET OF NOTE TAKING GEAR
- (1) MULTI PURPOSE TOOL/GERBER \*\*OPTIONAL\*\*
- (1) CLEAR & DARK EYE PRO
- (1) TARP
- (1) GLOW BELT (TO GO AROUND ASSAULT BACK FOR WALK BACK TO HORNO)
- (1) WEAPONS CLEANING GEAR
- (2) CANTEENS IN CANTEEN POUCHES W/ CANTEEN CUP & STAND
- (1) PONCHO LINER
- (3) MRE
- (1) GORTEX TOP AND BOTTOM

### MAIN PACK (OVERNIGHT MARINES ONLY):

- (1) SLEEP SYSTEM
- (2) DOS CHOW
- (1) PAIR SOCKS
- (1) SKIVVY SHIRT
- (1) SET OF WARMING LAYERS

ENCLOSURE (2)

Enclosure (3)

Weather Report-Rifle Combat Marksmanship Tables III-VI

**Weather**

**16 January**

**Thur**

Day 62 deg

Precipitation 10%

Night 40 deg

Precipitation 40%

**Astronomical Data**

**16 January**

**Thur**

Sunset 1703

End civil twilight 1824

Moon (61% illum)

Moon Transit 0501

Moon Set 2309

ENCLOSURE (12)

Enclosure (4)

**OPERATIONAL RISK MANAGEMENT MATRIX**  
**MCB, CAMP PENDLETON**

Training Evolution: Range 212, 215A Tables 3-6		Organization: 1stMar Reg	Assigned OIC: (b)(3), (b)(6), (b)(7)(c)	Assigned RSO: (b)(3), (b)(6), (b)(7)(c)	Weapons Systems: M4, M27, M16	Date: 13-16 January 2020	
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
Execution	Discharge of weapon resulting in injury.	Inexperienced Marines, poor situational awareness, not following proper loading and unloading procedures, lack of position safety officers.	I/C=2	Restate all associated weapons conditions and weapons safety rules during safety brief. Ensure Marines are properly trained on weapons. Marines must understand where they will be in relation to one another. Ensure RSO/PSO's are in a location to observe and control the safety of the range. Marines wear all required PPE.	I/D=3	PSOs will be tasked to ensure that all shooters remain in their assigned lanes and all the weapons safety rules are followed at all times. Shooters will be briefed course of fire with demonstration before executing.	RSO and PSOs will be present for each stick conducting the course of fire on the range.
Execution	Injury due to terrain/ obstacle.	Marine unable to identify hazards due to night.	I/C=3	Marines receive safety brief from the RSO on hazardous terrain and will be instructed to watch their footing while moving. RSO ensures all unnecessary obstacles are removed for the safe execution of training.	I/D=4	RSO will give safety brief. PSOs implement controls.	RSO/OIC supervise PSOs. PSOs supervise marines.
Execution	Death or injury due to night live-fire training, negligence	Lack of experience utilizing night vision devices and PEQ-15/16	I/C=2	Marines will be briefed on the course of fire to be conducted at night before the night firing. Marines will receive whitespace training to further enhance understanding and use of equipment prior to execution. Prior to execution, marines will conduct night rehearsal supervised by PSOs. PSOs will ensure marines have mastered the techniques required for night live-fire prior to conducting live-fire. Marines will be briefed that if their NVGs or their PEQ-15/16 turns off, that they are not to fire until they have it back on. Additionally marines will be briefed that if they cannot properly see out of their NVGs, they will not fire. All optics functions checked prior to executing night live-fire.	I/D=3	PSOs ensure marines can properly use NVGs & PEQ-15/16s before advancing in training. RSO/OIC conducts safety brief.	RSO/OIC supervise the overall conduct of execution. PSOs supervise marines on the firing line.
Execution	Marines keeping unfired rounds	Marines do not fire all rounds due to time constraints or weapons malfunctions.	II/C=2	Proper shakedowns, magazine inspection, and line outs will be conducted at the conclusion of firing and before any Marines leave the range.	II/D=3	RSO will ensure that the ammo storage point is supervised at all times. Each Marine will be lined out at the completion of each live run.	PSOs will clear out all weapons and magazines following each course of fire. RSO will conduct a line out of all gear prior to the conduct of live fire training.

ENCLOSURE (3)

Execution	Skeletal Injuries	Uneven Terrain	II/B=2	PSOs will walk the terrain. RSO will give a safety brief covering all hazardous terrain encompassed in the range. Each Marine will use proper movement techniques when moving while firing.	II/D=4	Range Safety Brief giving an orientation to R206 terrain. Any hazardous terrain will be identified and marked or removed.	RSO will ensure all hazardous terrain is marked and briefed to the Marines.
Execution	Hearing Loss	Weapons firing in close proximity to unprotected Marines.	IV/B=4	Safety brief covers safe use of ammunition with hearing protection. Corpsman provides hearing protection at safety brief if needed.	IV/C=5	PSOs will inspect that all Marines utilize the necessary PPE when conducting the range.	PSOs will inspect all shooters prior to conducting live-fire.
Execution	Heat Injuries	Dehydration as a result of minimal water consumption or excessive exposure to sunlight.	IV/B=4	Marines will bring a full camelback to R212 and will be given ample opportunities to consume water, apply sunscreen and eat during the time spent at the range.	IV/D=5	NCOs will ensure their Marines are consistently hydrating and applying sunscreen as needed.	RSO will ensure that PSOs are engaged with the Marines and preventing heat injuries.

ENCLOSURE (2)

**HAZARD SEVERITY**

I - CATASTROPHIC- Death, permanent disability, major property damage  
II - CRITICAL - Permanent partial disability, major system or minor property damage  
III - MARGINAL - Minor injury, minor system or property damage  
IV - NEGLIGABLE - 1<sup>st</sup> aid, minor system repair

**MISHAP PROBABILITY**

A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY

**RISK ASSESSMENT CODE (RAC)**

1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL

**RAC ASSESSMENT CODE MATRIX**

H A Z A R D  S E V E R I T Y	MISHAP PROBABILITY				
		A	B	C	D
	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
IV	3	4	5	5	

**COMMAND REVIEW/APPROVAL**

OIC: : \_\_\_\_\_

: \_\_\_\_\_

: \_\_\_\_\_

: \_\_\_\_\_

RSO: : \_\_\_\_\_

: \_\_\_\_\_

: \_\_\_\_\_

: \_\_\_\_\_

Company CO : \_\_\_\_\_

Reg OPSO : \_\_\_\_\_

ENCLOSURE (2)

**TABLE 3 UNKNOWN DISTANCE DAY (TRAINING)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
MID RANGE	40-60	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED STANDING	1	4
MID RANGE	90-110	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	140-160	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	180-200	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
LONG RANGE	200-300	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	300-400	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	400-500	ENGAGE UNTIL DOWN	6	30 SEC	SUPPORTED PRONE	1	6
TOTAL							45

**TABLE 3 UNKNOWN DISTANCE DAY (PRE-EVALUATION AND EVALUATION)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
MID RANGE	40-60	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED STANDING	1	4
MID RANGE	90-110	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	140-160	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
MID RANGE	180-200	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED KNEELING	1	4
LONG RANGE	200-300	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	300-400	ENGAGE UNTIL DOWN	4	20 SEC	SUPPORTED PRONE	1	4
LONG RANGE	400-500	ENGAGE UNTIL DOWN	6	30 SEC	SUPPORTED PRONE	1	6
TOTAL							30

ENCLOSURE (62)

**TABLE 3 UNKNOWN DISTANCE DAY (TRAINING)**

Stage	Meter line	Engagement	Rounds per exposure	Exposure Time	Position(s)	Iteration(s)	Total rounds
Zero/hold confirmation	100	Zero confirmation	5	1 min	Prone	3	15
"TOWER NCO"-riflemen, make a condition one weapon. It is your responsibility to keep your weapon in the best firing condition possible. This is your 100m zero confirmation. You will have 1 minute to fire a 5 round group from the prone position. You will repeat this engagement 3 times in order to achieve the best possible group. You may engage when your threat appears. "TOWER NCO"-same engagement, engage "TOWER NCO"-same engagement, engage "TOWER NCO"-riflemen record those last groups and prepare to move. Stay online with me and move.							
Mid-Range	40-60	Engage until down	4	20 sec	Supported Standing	1	4
"TOWER NCO"-riflemen you are now in an engagement area that requires you to engage threats at unknown distances. Your next drill will be fired from a supported standing position; you are required to engage until your target is down. Engage threats in your sector as they appear. (pause) cease fire!							
Mid-Range	90-110	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	140-160	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	180-200	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Long Range	200-300	Engage until down	4	20 sec	Supported Prone	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire.							
Long Range	300-400	Engage until down	4	20 sec	Supported Prone	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire.							
Long Range	400-500	Engage until down	6	30 sec	Supported Prone	1	6
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire., cease fire, all stationary threats have been eliminated (pause) unload show clear.							
Total							45

ENCLOSURE (62)

**TABLE 3 UNKNOWN DISTANCE DAY (PRE-EVALUATION/EVALUATION)**

Stage	Meter line	Engagement	Rounds per exposure	Exposure Time	Position(s)	Iteration(s)	Total rounds
Mid-Range	40-60	Engage until down	4	20 sec	Supported Standing	1	4
"TOWER NCO"-riflemen you are now in an engagement area that requires you to engage threats at unknown distances. Your next drill will be fired from a supported standing position; you are required to engage until your target is down. Engage threats in your sector as they appear. (pause) cease fire!							
Mid-Range	90-110	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	140-160	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	180-200	Engage until down	4	20 sec	Supported Kneeling	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Long Range	200-300	Engage until down	4	20 sec	Supported Prone	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. "TOWER NCO"- same drill, engage, cease fire							
Long Range	300-400	Engage until down	4	20 sec	Supported Prone	1	4
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire.							
Long Range	400-500	Engage until down	6	20 sec	Supported Prone	1	6
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire., cease fire, all stationary threats have been eliminated (pause) unload show clear.							
Total							30

ENCLOSURE (62)



**TABLE 4 UNKNOWN DISTANCE NIGHT (TRAINING)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
MID RANGE	40-60	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED STANDING	1	5
MID RANGE	90-110	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED KNEELING	1	5
MID RANGE	140-160	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED PRONE	1	5
MID RANGE	180-200	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED PRONE	1	5
TOTAL							35

**TABLE 4 UNKNOWN DISTANCE NIGHT (PRE-EVALUATION AND EVALUATION)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	EXPOSURE TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
MID RANGE	40-60	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED STANDING	1	5
MID RANGE	90-110	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED KNEELING	1	5
MID RANGE	140-160	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED PRONE	1	5
MID RANGE	180-200	ENGAGE UNTIL DOWN	5	20 SEC	SUPPORTED PRONE	1	5
TOTAL							20

ENCLOSURE (62)

**TABLE 4 UNKNOWN DISTANCE NIGHT (TRAINING)**

Stage	Meter line	Engagement	Rounds per exposure	Exposure Time	Position(s)	Iteration(s)	Total rounds
Zero/hold confirmation	100	Zero confirmation	5	1 min	Prone	3	15
"TOWER NCO"-riflemen, make a condition one weapon. It is your responsibility to keep your weapon in the best firing condition possible. This is your 100m zero confirmation. You will have 1 minute to fire a 5 round group from the prone position. You will repeat this engagement 3 times in order to achieve the best possible group. You may engage when your threat appears. "TOWER NCO"-same engagement, engage "TOWER NCO"-same engagement, engage "TOWER NCO"-riflemen record those last groups and prepare to move. Stay online with me and move.							
Mid-Range	40-60	Engage until down	5	20 sec	Supported Standing	1	5
"TOWER NCO"-riflemen you are now in an engagement area that requires you to engage threats at unknown distances. your next drill will be fired from a supported standing position; you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	90-110	Engage until down	5	20 sec	Supported Kneeling	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	140-160	Engage until down	5	20 sec	Supported Prone	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	180-200	Engage until down	5	20 sec	Supported Standing	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire, cease fire, all stationary threats have been eliminated (pause) unload show clear							
Total							35

**TABLE 4 UNKNOWN DISTANCE NIGHT (PRE-EVALUATION/EVALUATION)**

Stage	Meter line	Engagement	Rounds per exposure	Time	Position(s)	Iteration(s)	Total rounds
Mid-Range	40-60	Engage until down	5	20 sec	Supported Standing	1	5
"TOWER NCO"-riflemen you are now in an engagement area that requires you to engage threats at unknown distances. your next drill will be fired from a supported standing position; you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	90-110	Engage until down	5	20 sec	Supported Kneeling	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported kneeling position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	140-160	Engage until down	5	20 sec	Supported Prone	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire.							
Mid-Range	180-200	Engage until down	5	20 sec	Supported Standing	1	5
"TOWER NCO"-riflemen your next drill will be fired from a supported prone position, you are required to engage until your target is down. (pause) cease fire, cease fire, all stationary threats have been eliminated (pause) unload show clear							
Total							20

ENCLOSURE (62)

**TABLE 5 SHORT RANGE DAY (TRAINING)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
SHORT RANGE STAGE 1	5	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		FAILURE TO STOP	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 2	10	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 3	15	PELVIC	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 4	25	PELVIC	1	5 SEC	STANDING	3	3
		CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
SHORT RANGE STAGE 5 FWD MVMNT	25-15	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
	15-10	FAILURE TO STOP PELVIC	3	N/A	FWD MOVEMENT	1	3
	10-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
TOTAL							85

ENCLOSURE (62)

**TABLE 5 SHORT RANGE DAY (PRE-EVALUATION AND EVALUATION)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
STAGE 1	25	CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	25-15	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
STAGE 2	15	HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	15-10	FAILURE TO STOP	3	N/A	FWD MOVEMENT	1	3
STAGE 3	10	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
	10-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
STAGE 4	5	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
TOTAL							60

ENCLOSURE (82)

TABLE 5 SHORT RANGE DAY (TRAINING)

Stage	Meter line	Engagement	Rounds per exposure	Time	Position(s)	Iteration(s)	Total rounds
Zero/hold confirmation	100	Zero confirmation	5	1 min	Prone	3	15
"TOWER NCO"-riflemen, make a condition one weapon. It is your responsibility to keep your weapon in the best firing condition possible. This is your 100m zero confirmation. You will have 1 minute to fire a 5 round group from the prone position. You will repeat this engagement 3 times in order to achieve the best possible group. You may engage when your threat appears. "TOWER NCO"-same engagement, engage "TOWER NCO"-same engagement, engage "TOWER NCO"-riflemen record those last groups and prepare to move. Stay online with me and move.							
Short range engagement	5	Precision Shot (head)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. YOU WILL CONDUCT THIS DRILL 3TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range engagement	10	Precision Shot (Head)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range engagement	15	Precision Shot (Pelvic)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE PELVIC SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	15	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range	25	Precision Shot (Pelvic)	1	5 sec	Standing	3	3

ENCLOSURE (62)

engagement							
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE PELVIC SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE.							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Controlled pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A CONTROLLED PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE.							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	25	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	25-15	Box Drill	6	N/A	Forward movement	1	6
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A BOX DRILL WHILE CONDUCTING FORWARD MOVEMENT FROM THE 25M TO THE 15M LINE. STAND BY. "MOVE" CEASE FIRE.							
Short range engagement	15-10	Failure to stop (Pelvic)	3	N/A	Forward movement	1	3
"TOWER NCO"- YOUR NEXT DRILL WILL BE A FAILURE TO STOP DRILL TO THE PELVIC REGION WHILE MOVING FROM THE 15M TO 10M LINE. STAND BY. "MOVE" CEASE FIRE.							
Short range engagement	10-5	Failure to stop (Head)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP TO THE HEAD WHILE MOVING FROM THE 10M TO 5M LINE. STAND BY "MOVE" CEASE FIRE, ALL STATIONARY THREATS HAVE BEEN ELIMINATED (PAUSE) UNLOAD SHOW CLEAR.							
						Total	85

ENCLOSURE (62)

**TABLE 5 SHORT RANGE DAY (PRE-EVALUATION/EVALUATION)**

Stage	Meter line	Engagement	Rounds per exposure	Time	Position(s)	Iteration(s)	Total rounds
Short range engagement	25	Controlled pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A PELVIC SHOT. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-YOUR NEXT DRILL WILL CONTROLLED PAIR.YOU WILL FIRE THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	25	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	25-15	Box Drill	6	N/A	Forward movement	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL WHILE CONDUCTING FORWARD MOVEMENT FROM THE 25M TO THE 15M LINE. "MOVE" CEASE FIRE.							
Short range engagement	15	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	15	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	15-10	Failure to stop (Pelvic)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC REGION WHILE CONDUCTING FORWARD MOVEMENT FROM THE 15M TO THE 10M LINE. "MOVE" CEASE FIRE.							
Short range engagement	10	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR. YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Precision Shot (Head)	1	5 sec	Standing	1	1
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	10-5	Failure to stop (Head)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD WHILE CONDUCTING FORWARD MOVEMENT FROM THE 10M TO THE 5M LINE. "MOVE" CEASE FIRE.							
Short range engagement	5	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR. YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Precision Shot (head)	1	5 sec	Standing	1	1
"TOWER NCO"-YOUR NEXT DRILL WILL BE SINGLE HEAD SHOT. STAND BY "CONTACT" CEASE FIRE.							

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Short range engagement	5	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO" - YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. ALL STATIONARY THREATS HAVE BEEN ELIMINATED <u>(PAUSE)</u> UNLOAD SHOW CLEAR.							
Total							60

ENCLOSURE (62)



**TABLE 6 SHORT RANGE NIGHT (TRAINING)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
ZEROING	100	ZEROING EXERCISE	5	1 MIN	PRONE	3	15
STAGE 1	5	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		FAILURE TO STOP	3	5 SEC	STANDING	1	3
STAGE 2	10	HEAD SHOT	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
STAGE 3	15	PELVIC	1	5 SEC	STANDING	3	3
		HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
STAGE 4	25	PELVIC	1	5 SEC	STANDING	3	3
		CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
STAGE 5 FWD MVMNT	25-15	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
	15-10	FAILURE TO STOP PELVIC	3	N/A	FWD MOVEMENT	1	3
	10-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
TOTAL							85

**TABLE 6 SHORT RANGE NIGHT (PRE-EVALUATION AND EVALUATION)**

STAGE	METER LINE	DRILL	ROUNDS PER ITERATION	TIME	POSITION(S)	ITERATION(S)	TOTAL ROUNDS
STAGE 1	25	CONTROLLED PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	25-15	BOX DRILL	6	N/A	FWD MOVEMENT	1	6
STAGE 2	15	HAMMER PAIR	2	5 SEC	STANDING	2	4
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP PELVIC	3	5 SEC	STANDING	1	3
	15-10	FAILURE TO STOP	3	N/A	FWD MOVEMENT	1	3
STAGE 3	10	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		BOX DRILL	6	5 SEC	STANDING	1	6
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
	10-5	FAILURE TO STOP HEAD	3	N/A	FWD MOVEMENT	1	3
STAGE 4	5	HAMMER PAIR	2	5 SEC	STANDING	2	4
		HEAD SHOT	1	5 SEC	STANDING	1	1
		FAILURE TO STOP HEAD	3	5 SEC	STANDING	1	3
TOTAL							60

ENCLOSURE (62)

TABLE 6 SHORT RANGE NIGHT (TRAINING)

Stage	Meter line	Engagement	Rounds per exposure	Time	Position(s)	Iteration(s)	Total rounds
Zero/hold confirmation	100	Zero confirmation	5	1 min	Prone	3	15
"TOWER NCO"-riflemen, make a condition one weapon. It is your responsibility to keep your weapon in the best firing condition possible. This is your 100m zero confirmation. You will have 1 minute to fire a 5 round group from the prone position. You will repeat this engagement 3 times in order to achieve the best possible group. You may engage when your threat appears. "TOWER NCO"-same engagement, engage "TOWER NCO"-same engagement, engage "TOWER NCO"-riflemen record those last groups and prepare to move. Stay online with me and move.							
Short range engagement	5	Precision Shot (head)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. YOU WILL CONDUCT THIS DRILL 3TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range engagement	10	Precision Shot (Head)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range engagement	15	Precision Shot (Pelvic)	1	5 sec	Standing	3	3
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE PELVIC SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A HAMMER PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	15	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE. "TOWER NCO"-CEASE FIRE! CEASE FIRE! (PAUSE) CONSOLIDATE AND PREPARE TO MOVE. STAY ONLINE WITH ME AND MOVE!							
Short range	25	Precision Shot (Pelvic)	1	5 sec	Standing	3	3

ENCLOSURE (42)

engagement							
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE PELVIC SHOT. YOU WILL CONDUCT THIS DRILL 3 TIMES. STAND BY. "CONTACT" CEASE FIRE.							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Controlled pair	2	5 sec	Standing	2	4
"TOWER NCO"- YOUR NEXT DRILL WILL BE A CONTROLLED PAIR YOUR WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE.							
"TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	25	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	25-15	Box Drill	6	N/A	Forward movement	1	6
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A BOX DRILL WHILE CONDUCTING FORWARD MOVEMENT FROM THE 25M TO THE 15M LINE. STAND BY. "MOVE" CEASE FIRE.							
Short range engagement	15-10	Failure to stop (Pelvic)	3	N/A	Forward movement	1	3
"TOWER NCO"- YOUR NEXT DRILL WILL BE A FAILURE TO STOP DRILL TO THE PELVIC REGION WHILE MOVING FROM THE 15M TO 10M LINE. STAND BY. "MOVE" CEASE FIRE.							
Short range engagement	10-5	Failure to stop (Head)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP TO THE HEAD WHILE MOVING FROM THE 10M TO 5M LINE. STAND BY "MOVE" CEASE FIRE, ALL STATIONARY THREATS HAVE BEEN ELIMINATED (PAUSE) UNLOAD SHOW CLEAR.							
						Total	85

**TABLE 6 RANGE NIGHT (PRE-EVALUATION/EVALUATION)**

Stage	Meter line	Engagement	Rounds per exposure	Time	Position(s)	Iteration(s)	Total rounds
Short range engagement	25	Controlled pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A PELVIC SHOT. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-YOUR NEXT DRILL WILL CONTROLLED PAIR.YOU WILL FIRE THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	25	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	25	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	25-15	Box Drill	6	N/A	Forward movement	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL WHILE CONDUCTING FORWARD MOVEMENT FROM THE 25M TO THE 15M LINE. "MOVE" CEASE FIRE.							
Short range engagement	15	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	15	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	15	Failure to Stop (Pelvic)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	15-10	Failure to stop (Pelvic)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP PELVIC REGION WHILE CONDUCTING FORWARD MOVEMENT FROM THE 15M TO THE 10M LINE. "MOVE" CEASE FIRE.							
Short range engagement	10	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR. YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	10	Precision Shot (Head)	1	5 sec	Standing	1	1
"TOWER NCO"-RIFLEMEN YOUR FIRST DRILL WILL BE A SINGLE HEAD SHOT. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Box Drill	6	5 sec	Standing	1	6
"TOWER NCO"-YOUR NEXT DRILL WILL BE A BOX DRILL. STAND BY. "CONTACT" CEASE FIRE.							
Short range engagement	10	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE.							
Short range engagement	10-5	Failure to stop (Head)	3	N/A	Forward movement	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD WHILE CONDUCTING FORWARD MOVEMENT FROM THE 10M TO THE 5M LINE. "MOVE" CEASE FIRE.							
Short range engagement	5	Hammer Pair	2	5 sec	Standing	2	4
"TOWER NCO"-RIFLEMEN YOUR NEXT DRILL WILL BE A HAMMER PAIR. YOU WILL CONDUCT THIS DRILL 2 TIMES. STAND BY. "CONTACT" CEASE FIRE. "TOWER NCO"-SAME DRILL, ENGAGE, CEASE FIRE							
Short range engagement	5	Precision Shot (head)	1	5 sec	Standing	1	1
"TOWER NCO"-YOUR NEXT DRILL WILL BE SINGLE HEAD SHOT. STAND BY "CONTACT" CEASE FIRE.							

ENCLOSURE (62)

Short range engagement	5	Failure to Stop (Head)	3	5 sec	Standing	1	3
"TOWER NCO"-YOUR NEXT DRILL WILL BE FAILURE TO STOP HEAD. STAND BY "CONTACT" CEASE FIRE. ALL STATIONARY THREATS HAVE BEEN ELIMINATED (PAUSE) UNLOAD SHOW CLEAR.							
Total							60

ENCLOSURE (62)

# RANGE SPECIAL INSTRUCTIONS

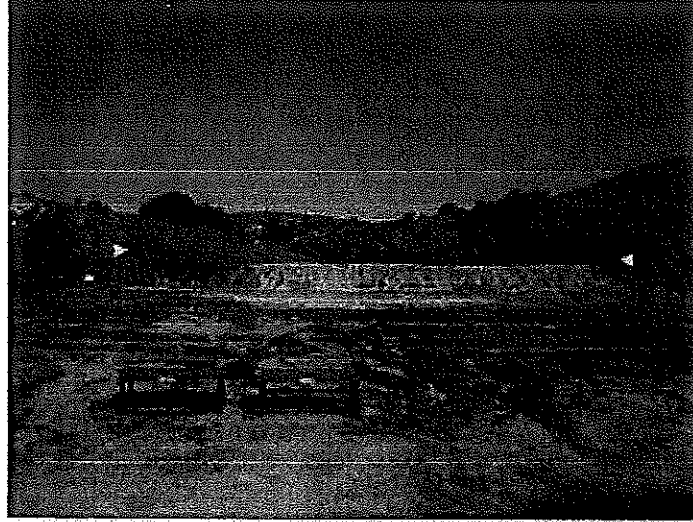
Date Revised - 19 March, 2019

## FACE-TO-FACE REQUIRED FOR ALL TRAINING

Range: <b>R-212 Complex</b>	Location: 54904 93962	Allowable Wpns:	Vehicles:
Elevation: <b>600 AMSL</b>	Impact Area: <b>Whiskey</b>	Rifles - 5.56mm and below Pistols - .45 cal and below Service Shotgun - (All)	1. Road & River Report Dependent. 2. Maximum of five (5) POVs (Truck like) are authorized to park in the parking area with or without a POV pass.
Troop Penetration: Not beyond Movement Box			
Type: BZO/CMP/EMP Unknown Distance	Engagement Distance: <b>R212A - BZO</b> Min 36 yards, Max 36 yards <b>R212 - CMP/EMP/Unknown</b> Min 3 meters, Max 400 meters		

## THIS NOT A CONTRACTOR SUPPORTED RANGE

Range Facilities: Bleachers, Ammo tables, Ammo shelter



## Scheduling

1. If a unit wishes to utilize PITS targets on this range, contact Training Resources Management Division at (760) 725-4444.
2. Scheduling of this range must be submitted to Range Scheduling via RFMSS.

Closed To Any Use

Facility May Still Be Used With Restrictions

Facility Occupied, or in Training/Live Fire Status	Effects to R212 Complex
1-IMP Whiskey	Check Fire All Weapons Except Pistol and Shotgun
R-210F (DOWN Rng past 300m)	Check Fire 3 50mm on R212 for Down Range Mvt on R210F Past 300m (R212A OK)

## OIC/RSO Requirements

1. A safety Brief must be conducted prior to each live fire event to all participants.
2. All personnel must wear required appropriate PPE during all training events.
3. OIC & RSO Requirements -
  - a. Small Arms
    - i. OIC Requirement - SSgt or Above
    - ii. RSO Requirement - Sgt or Above
  - b. No Munitions
    - i. OIC Requirement - None
    - ii. RSO Requirement - Cpl or Above
  - c. When utilizing R212 or R212A, unit can utilize (1) OIC and (2) RSOs for both ranges.

Special Instructions Continued on Next page

ENCLOSURE (62)

## RANGE SPECIAL INSTRUCTIONS

### R212A 36 yard BZO Range

1. Steel Targets, of any type, are not authorized on this range.
2. When conducting 36 yard BZO Training the RSO Must Ensure:
  - a. Prone position is the ONLY authorized firing position.
  - b. BZO is conducted on the depicted 36 yard firing line.
  - c. All targets emplaced by the unit are laid in with compass and no higher than 3 feet.
3. BZO targets are placed on the depicted 36 yard target line.
4. All BZO Targets are made of softwood uprights with cardboard backing.
5. Sandbags are used on any metal bases. Bases must be made of soft metal.
6. If pallets and engineer stakes are used, engineer stakes must be placed on the outside edges of the pallets.
7. Firing Data:
  - 36 Yard Firing Line
  - 55043 94238 to 55069 94227
  - Lateral Limits:
  - LLL: 012° mag
  - RLL: 012° mag

### R212 5.56mm and Below Movement Box

1. When conducting EMP/CMP or Unknown distance Training the RSO Must Ensure:
  - a. Steel (Plate Type) Targets are not authorized on range.
  - b. All EMP/CMP or Unknown distance Training is conducted in the depicted movement box.
  - c. All Unknown distance targets are emplaced in the movement box.
  - d. All Unknown distance targets are laid in with compass.
  - e. All Unknown distance shooters are laid in with a compass prior to firing multiple target engagement and to stay within the range lateral limits.
  - f. All EMP/CMP Targets are made of softwood uprights with cardboard backing.
  - g. Sandbags are used on any metal bases. Bases must be made of soft metal.
  - h. If pallets and engineer stakes are used, engineer stakes must be placed on the outside edges of the pallets.
  - i. No engagement on pallets closer than 7 yards.
2. Firing Data:
  - Start Firing Line
  - 55304 94120 to 55373 94075
  - Cease Firing Line
  - 55515 94456 to 55656 94356
  - Lateral Limits:
  - LLL: 020° mag
  - RLL: 033° mag



R212  
Complex

Cease Firing Line

Movement Box

Whiskey

Target Line

36 Yard Firing Line

Parking  
Area

R212 A  
BZO

R212  
Movement Box

Start Firing Line

Parking  
Area

FINCH

SULT 53

ENCLOSURE (62)

36 94 000m N

94

455 000m E



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

IN REPLY REFER TO  
3500  
H&S Co  
29 Jan 20

From: Platoon Commander, 15th MEU Platoon  
To: Operations Officer, 3d Assault Amphibian Battalion  
Via: Company Commander, H&S Company

Subj: DIRECT FIRE GUNNERY TABLES III-VI

Ref: (a) MCTP 3-10C EMPLOYMENT  
(b) NAVMC 3500.2C (T&R MANUAL)  
(c) NAVMC 3500.2 AAV COMMON SOP  
(d) BN ORDER 3500.1D MCB RANGE REGULATION  
(e) MCO 3570.1C RANGE SAFETY

Encl: (1) Concept of Operations  
(2) Route  
(3) Timeline  
(4) Weather report  
(5) Gear list  
(6) ORM  
(7) Range Regulations

1. Situation: 15th MEU platoon is preparing to conduct direct fire gunnery tables (DFGT) III through VI live-fire evaluation at range 222 Camp Pendleton from 12-16 February. Due to the pre deployment training plan (PTP) requirements for Native Fury 2020, it is essential that 15th MEU platoon is 100% qualified up to Gunnery Skills Table (GST) VI.

2. Mission: From 12-16 February 15th MEU Platoon will conduct DFGT III-VI in order to (IOT) meet PTP requirements for Native Fury.

3. Execution:

a. Commanders Intent:

(1) Purpose: Accomplish prescribed PTP training requirements in preparation for Native Fury.

(2) Method: This training will be accomplished through instruction, rehearsals, and evaluation through the Marksmanship Training Unit (MTU) prior to the conduct of fire. Instruction and evaluation will focus on weapons handling and firing capabilities. Vehicle crews will execute rehearsals at the armory, ramp, and MTU prior to the platoon conducting live-fire. DFGT III-VI is conducted at Range 222.

(3) End State: All crews successfully qualify on DFGT III-VI.

b. Concept of Operations: This will be accomplished in four phases (Phase I-IV).

ENCLOSURE (62)

(1) Phase I: (PREPARATION) Phase one begins with the identified crews conducting the gateway to live-fire and prerequisite range GST qualifications. During this phase an operations order will be given and a range walkthrough will be conducted. Pre fire inspections (PFIs) and limited technical inspections (LTIs) will be conducted on all weapons. This phase ends once the necessary crews are pre live-fire qualified.

(2) Phase II: (MOVEMENT) This phase begins with all Marines and equipment accounted for and prepared to conduct movement. During this phase, Section Leaders will ensure all Marines and equipment are accounted for by conducting count before and after all movements. The platoon will conduct its movement from the 21 Area to R222. This phase ends with the 15th MEU Platoon occupying R222 on 12 February.

(3) Phase III: (DFGT III-VI) This phase begins with the 15th MEU Platoon occupying R222 on 12 February. During this phase the platoon will conduct DFGT III-VI. This consist of both day and night live fire training. This phase ends once all crews have completed and qualified on DFGT III-VI and the range is put into a cold status by Longrifle.

(4) Phase IV: (RANGE RETROGRADE) This stage begins when the range is called in cold to Longrifle. During this phase any leftover ammo will be turned in to the ammunition supply point (ASP). The range will be inspected and the platoon will depart back to the 21 area. Upon arrival the platoon will conduct post ops and wash-downs. This stage ends with the accountability of all remaining Marines and equipment in the 21 Area.

c. Tasks:

(1) Range Safety Officer/Platoon Sergeant:

T1: Ensure strict adherence to all safety rules and regulations for operating the AAV.

P1: IOT accomplish safe, effective training

T2: Determine the ambulance exchange points (AXP).

P2: IOT ensure an efficient casualty exchange.

T3: Determine road guard positions.

P3: IOT safely conduct the range and ensure adjacent units do not interfere with range SDZs.

T4: Provide rosters for Marines and EDL.

P4: IOT maintain accountability of personnel and equipment.

T5: Anticipate and send rapid requests as necessary.

P5: IOT allow for continuous operations at R222.

(2) Armorer:

T1: LTI/PFI all weapons in our armory and conduct PVS-14 checks.

P1: IOT verify all weapons and equipment is operational.

(2) Corpsman:

T1: Be prepared to establish the ambulance exchange point during the movement and training at R222.

P1: IOT facilitate efficient assessment, treatment, and transfer of any casualties.

d. Coordinating Instructions:

(1) No communication plan:

(a) 15th MEU Platoon will complete a minimum of four communications per day to Company headquarters or Battalion OOD. Near side communications will be established with battalion as per SOP (Mission card, EDL, departing friendly lines report).

(b) Communication with Battalion: All communication will be conducted per Battalion SOP via JBCP.

(c) Range control: If at any time the Platoon loses communication with Longrifles, training will cease until communication is re-established.

(d) Road Guards: Communications checks will be conducted once every hour at the bottom of the hour (:30). If a radio check is missed by one road guard training will continue until the second radio check is missed. All training will cease if two radio checks are missed.

(2) Lost Marine plan:

(a) All Marines will travel in pairs and inform their chain of command when they leave the immediate area. All Marines will carry a water source when departing the immediate area. In the event that a Marine has been identified as missing, all movement and training will cease. The platoon will gain accountability of all present personnel and equipment. Then a team of Marines will be sent to search the last known location of the lost Marine.

(b) Accountability will be conducted before and after any major movement. Once a Marine has been identified lost, Range control will be notified in order to prepare aerial search and rescue teams to assist in search.

(c) Lost Marine will remain in place until found. At all cost every attempt should be made to remain in place until absolutely required to displace from last known position. If Marine must displace a large marker will be made pointing in the direction of movement. That Marine will be looking for hardball road and follow it until they find another unit's command post and check in with the OOD. The lost Marine will contact the 3d AABN OOD, Platoon Commander, or Platoon Sergeant via the OOD.

(3) Vehicle Recovery Plan:

(a) Vehicle recovery plan: 5 minutes to identify, 10 minutes to fix, 15 minutes to rig for tow. The assistant section leader's vehicle is the primary recovery vehicle. The Platoon Sergeant's vehicle is the alternate.

If a vehicle breaks down and is unable to depart the ramp, the vehicles weapons will be stored in the Platoon Sergeant's vehicle. All attempted vehicle repairs after departing the ramp will be done in the field.

(b) Bump plan: Primary is the assistant section leaders vehicle. Alternate bump vehicle is the Platoon Sergeant's vehicle.

(4) Route: (See encl 2.)

(5) Timeline: (See encl 3.)

(6) Uniform and gear: (see encl 5.)

(7) Go/No GO criteria:

(a) Less than 6 operational AAVP7s

(b) If more than 50% of our weapons and optics are deadlined the platoon will reschedule the range.

4. Admin and Logistics:

a. Administration:

(1) Personnel count (MO/ME/NO/NE): 1/51/0/1

(2) Casualty Evacuation (CASEVAC) plan:

(a) Routine: If a routine casualty occurs, the corpsman present will evaluate the Marine and provide initial treatment. If additional treatment is needed, the Marine will be transported to the 21 Area Battalion Aid Station (BAS).

(b) Priority/Urgent: In the event of a priority or urgent casualty, all training will cease and Range Control will immediately be notified while the casualty is assessed by a corpsman and platoon staff. The casualty will be reported by either the OIC, RSO, or Corpsman. If the casualty is going to be transported by air a landing zone (LZ) will be established IVO of R222 or LZ Starling. Daytime LZ for air casualty evacuation will be marked by an air panel. Nighttime LZ for air CASEVAC will be marked by a chemstick buzz saw. If the casualty is to be transported via ground the casualty will be loaded to the safety vehicle and brought to the AXP which will be established at 11S MS 60374 92000.

b. Logistics:

(1) Water: 400gal Water bull

(2) Chow: 67 boxes of MREs

(3) Ammo: A576 25,400/B5412 2,232

(4) Port-a-johns: 5

5. Command and signal:

a. Command:

- (1) Platoon Commander, first in command, will be located at R222.
- (2) Platoon Sergeant, second in command, will be located at R222.
- (3) 1st Section Leader, third in command, will be located at R222.

b. Signal:

- (1) BATTALION: PRIMARY/ALTERN
- (2) 15th MEU PLATOON: PRIMARY
- (3) RANGE CONTROL: PRIMARY/AL

(b)(2)

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

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Range 222 DFGT III-VI  
15th MEU Platoon  
Confirmation Brief



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Prepared by: (b)(3), (b)(6), (b)(7)(c)  
20200129

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ENCLOSURE (2)



## CONOPS Overview

**Mission:** From 12-16 February 15th MEU Platoon will conduct DFGT III-VI in order to (IOT) meet PTP requirements for Native Fury.

**Commander's Intent:**

- **Purpose:** Accomplish prescribed PTP training requirements in preparation for Native Fury.
- **Method:** This training will be accomplished through instruction, rehearsals, and evaluation through the Marksmanship Training Unit (MTU) prior to the conduct of fire. Instruction and evaluation will focus on weapons handling and firing capabilities. Vehicle crews will execute rehearsals at the armory, ramp, and MTU prior to the platoon conducting live-fire. DFGT III-VI is conducted at Range 222.
- **Endstate:** All crews successfully qualify on DFGT Tables III-VI.

**T&R Standards:**

**3000 Level:**  
AAV-GNRY-3156

**2000 Level:**  
1833-GNRY-2106  
1833-GNRY-2107  
1833-GNRY-2108

**1000 Level:**  
1803-GNRY-1131/1833-GNRY-1131  
1803-GNRY-1132/1833-GNRY-1132  
1803-GNRY-1133  
1803-GNRY-1134  
1803-GNRY-1135

T/O	Equipment	Class I	Class III	Class V	Class IX
1/51/0/1	E TAMCN: E08467K- AAVP7 E08927M- MK19 E09807M- 50	Chow: 67 Boxes MREs Water: 400 gal	Port-a-johns: 5	DODIC A576- 25,400 B5412-2,232 Draw 20200212 Turn-In 20200116	N/A



# COA Graphic/Narrative



## Timeline:

12 Feb 0700 Movement to R222  
 12 Feb 0800 Occupy R222  
 12 Feb 0900 DFGT III, V  
 12 Feb 1700 DFGT IV, VI  
 12 Feb 2359 Range Cold  
 13 Feb 0900 DFGT III, V  
 13 Feb 1700 DFGT IV, VI  
 13 Feb 2359 Range Cold  
 14 Feb 0900 DFGT III, V  
 14 Feb 1700 DFGT IV, VI  
 14 Feb 2359 Range Cold  
 15 Feb 0900 DFGT III, V  
 15 Feb 1700 DFGT IV, VI  
 15 Feb 2359 Range Cold  
 16 Feb 0730 Movement to RAMP  
 16 Feb 0900 Post Ops

**COA Narrative: Phase 1 (PREPARATION):** PFI/LTI will be conducted on all weapons. All Marines will conduct the gateway to live-fire and prerequisite range GST qualifications. The platoon will conduct a range walkthrough. **Phase 2 (MOVEMENT):** Marines and equipment will depart the 3d AABN RAMP to R222. **Phase 3 (DFGT TABLES III-VI):** Marines will execute Tables III-VI at R222. **Phase 4 (RETROGRADE):** The range will be inspected and the platoon will depart back to the 3d AABN RAMP. Upon arrival the platoon will conduct post ops and wash-downs.



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# Contingencies

## Coordinating Instructions:

- No Comm Plan
  - If at any time the Platoon loses communication with Longrifle, training will cease until communication is re-established
- Lost Marine Plan
  - In the event that a Marine has been identified as missing, all movement and training will cease. The platoon will gain accountability of all present personnel and equipment. Then a team of Marines will be sent to search the last known location of the lost Marine.
  - Lost Marine will remain in place until found. At all cost every attempt should be made to remain in place until absolutely required to displace from last known position. If Marine must displace a large marker will be made pointing in the direction of movement.
- Go/No Go Criteria
  - Less than 6 operational AAVP7A1s.
  - 50% of our weapons/optics are deadlined.

## CASEVAC Plan:

**Urgent/Priority-** In the event of a priority or urgent casualty, all training will cease and Range Control will immediately be notified while the casualty is assessed by a corpsman and platoon staff. The casualty will be reported by either the OIC, RSO, or Corpsman. If the casualty is going to be transported by air a landing zone (LZ) will be established IVO of R222 or LZ Starling. Daytime LZ for air casualty evacuation will be marked by an air panel. Nighttime LZ for air CASEVAC will be marked by a chemstick buzz saw. If the casualty is to be transported via ground the casualty will be loaded to the safety vehicle and brought to the AXP which will be established at 11S MS 60374 92000.

**Routine-** If a routine casualty occurs, the corpsman present will evaluate the Marine and provide initial treatment. If additional treatment is needed, the Marine will be transported to the 21 Area Battalion Aid Station (BAS).

## Command

- OIC
- RSO (b)(3), (b)(6), (b)(7)(c)

## Signal

- Primary
- Alternat (b)(2)
- Tertiary
- Frequen

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ENCLOSURE (62)



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# ORM



## RAC ASSESSMENT CODE MATRIX

H A Z A R D  S E V E R I T Y	MISHAP PROBABILITY				
		A	B	C	D
	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
	IV	3	4	5	5

- **Most Dangerous Hazard 1: Marine wounded/killed by Up-Gunned Weapon System or ordnance.**
  - Cause: Weapons Malfunction caused by improper headspace and timing.
  - Mitigation: Armorer checks the headspace and timing of each .50 cal. Classes given on headspace and timing and Marines perform function week prior to going to the field, as well as redundancy checks for each firing vehicle. Ensure weapons have PFIs and LTIs, as necessary prior to live fire training.
  - Supervise: RSO/OIC verifies headspace and timing prior to live fire.
- **Most Dangerous Hazard 2: AAV/wheeled vehicle accident collision/ roll-over.**
  - Cause: Speeding, driver fatigue, passing of other units on roads, or lack of visibility.
  - Mitigation: Marines obey all posted speed limits. Marines are given adequate rest time prior to operating AAV. AAVs remain on right side of road and mind a safe distance from other vehicles while passing. AAVs decrease speed to less than 15mph when passing through dust clouds.
  - Supervise: Section leaders ensure section maintains proper speed limit. Vehicle commanders back-brief section leaders on rest plan for crew. Vehicle commanders verbally command drivers if they do not follow briefed techniques.
- **Most Likely Hazard 1: Injuries on AAVs.**
  - Cause: Marines injured by unsecured hatches, improperly stowed gear, burns, improper wearing of PPE.
  - Mitigation: All hatches and gear are strapped down according to SOP. All internal gear will be strapped down. Hands avoid the rim of the hatch when opening/closing or unsecured. FROG gear worn at all times.
  - Supervise: Section leaders inspect vehicles prior to conducting rehearsals for properly strapped hatches and equipment. Section Leaders ensure proper PPE is worn at all times. RSO ensures vehicle hatches secured, proper PPE utilized before AAV movement conducted.
- **Most Likely Hazard 2: Weather exposure casualties.**
  - Cause: Marines not eating/drinking properly. Excessive heat of vehicle when wearing PPE. Failing to put on or take off warming layers
  - Mitigation: Marines briefed on importance of nutrition/hydration in the field. Section leaders ensure adequate water on each vehicle prior to rehearsals. Section leaders ensure Marines are wearing appropriate warming layers.
  - Platoon sergeant ensures Marines are provided with food and water. Corpsman observes Marines to ensure they are not becoming weather casualties. Platoon commander monitors training to ensure AAV crewmen are given adequate rest time.

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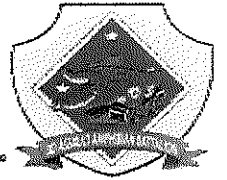
ENCLOSURE (2)

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# Questions

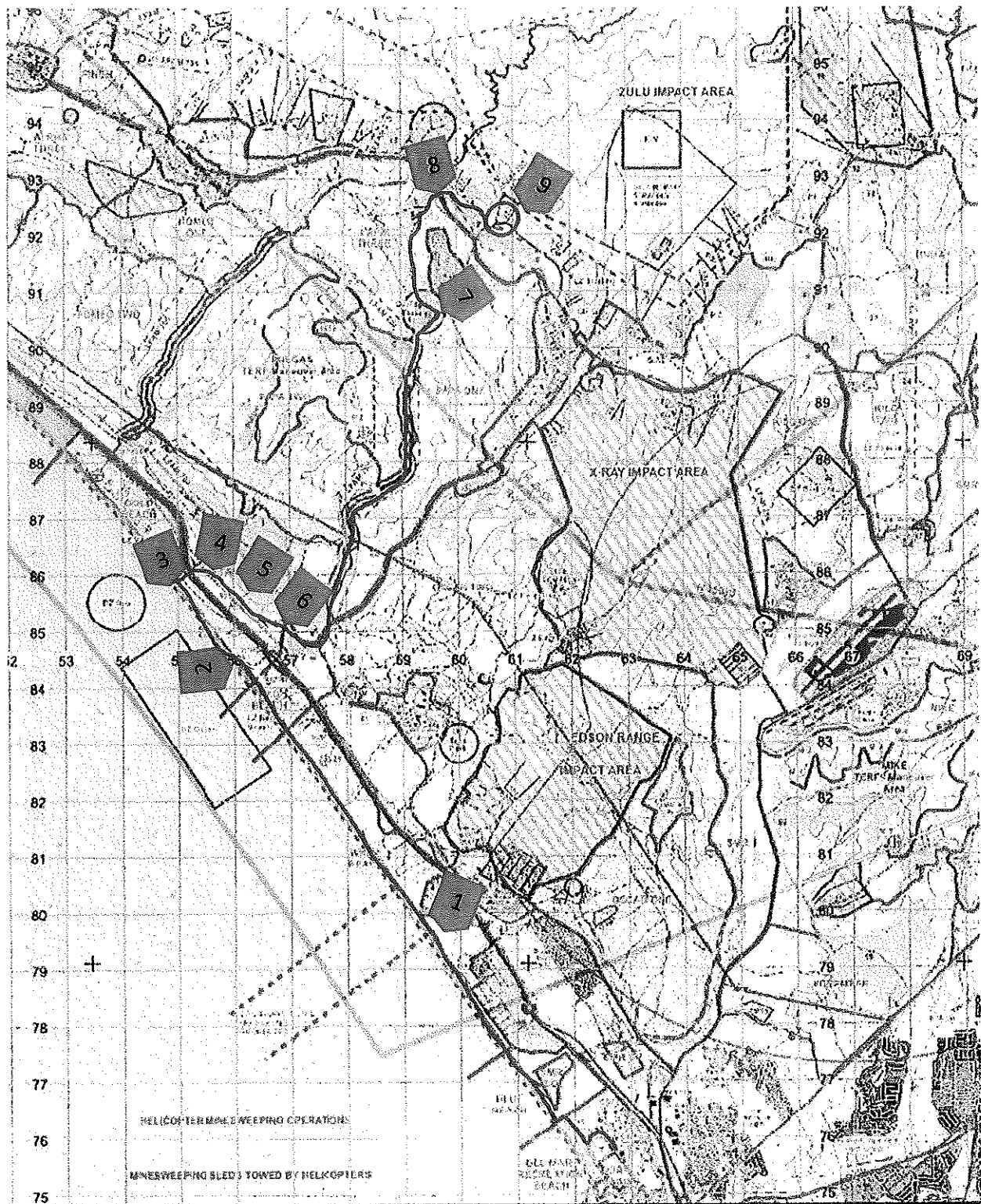
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ENCLOSURE (6)

ROUTE-R222 DFGT III-VI



Check Points:

- 1: 11S MS 5922 7995 (LCAC TOWER)
- 2: 11S MS 5586 8496 (WARRIORS COVE)
- 3: 11S MS 5509 8632 (HOLE IN THE WALL)
- 4: 11S MS 5593 8672 (EL CAMINO REAL)

- 5: 11S MS 5658 8596 (EL CAMINO REAL)
- 6: 11S MS 5765 8553 (PDL)
- 7: 11S MS 5927 9009 (MOUT TOWN)
- 8: 11S MS 5970 9274 (BASILONE ROAD CROSSING)
- 9: 11S MS 6085 9221 (R222)

Enclosure (2)

ENCLOSURE (2)

**TIMELINE R222 DFGT III-VI**

<b>Date</b>	<b>Time</b>	<b>Event</b>	<b>Location</b>	<b>POC</b>
12 Feb	0700	Movement to R222	3d AABn RAMP	
12 Feb	0730	Safety vic arrive/ammo drop off	R222	
12 Feb	0800	Occupy R222	R222	
12 Feb	0830	Safety/PSO Brief	R222	
12 Feb	0900	Conduct DFGT III,V	R222	
12 Feb	1630	Night safety/PSO brief	R222	
12 Feb	1700	Conduct DFGT IV,VI	R222	
12 Feb	2359	Range cold/Bivoac	R222	
13 Feb	0530	Reveille	R222	
13 Feb	0530	Hygiene/Chow	R222	
13 Feb	0630	Safety/PSO Brief	R222	
13 Feb	0700	Conduct DFGT III,V	R222	
13 Feb	1630	Night safety/PSO brief	R222	
13 Feb	1700	Conduct DFGT IV,VI	R222	
13 Feb	2359	Range cold/Bivoac	R222	
14 Feb	0530	Reveille	R222	
14 Feb	0530	Hygiene/Chow	R222	
14 Feb	0630	Safety/PSO Brief	R222	
14 Feb	0700	Conduct DFGT III,V	R222	
14 Feb	1630	Night safety/PSO brief	R222	
14 Feb	1700	Conduct DFGT IV,VI	R222	
14 Feb	2359	Range cold/Bivoac	R222	
15 Feb	0530	Reveille	R222	
15 Feb	0530	Hygiene/Chow	R222	
15 Feb	0630	Safety/PSO Brief	R222	
15 Feb	0700	Conduct DFGT III,V	R222	
15 Feb	1630	Night safety/PSO brief	R222	
15 Feb	1700	Conduct DFGT IV,VI	R222	
15 Feb	2359	Range cold/Bivoac	R222	
16 Feb	0530	Reveille	R222	
16 Feb	0530	Hygiene/Chow	R222	
16 Feb	0700	Range inspection	R222	
16 Feb	0700	Ammo turn in	R222	
16 Feb	0730	Movement from R222 to 3d AABn RAMP	R222	
16 Feb	0900	Post Ops/Wash Downs/EDL turn in	3d AABn RAMP	
16 Feb	1500	Platoon secured	3d AABn RAMP	

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

Enclosure (3)

ENCLOSURE (62)

**WEATHER REPORT R222 DFGT III-VI**

Weather		Astronomical Data	
12 February		12 February	
Day of week		Day of week	
Day	66°	Sunset	1731
Precipitation	65%	End Civil Twilight	1756
		Moon 86% Illumination	
Night	48°	Moon Rise	2142
Precipitation	10%	Moon Set	0908
Weather		Astronomical Data	
13 February		13 February	
Wednesday		Wednesday	
Day	68°	Sunset	1732
Precipitation	20%	End Civil Twilight	1757
		Moon 76.5% Illumination	
Night	46°	Moon Rise	2249
Precipitation	10%	Moon Set	0944
Weather		Astronomical Data	
14 February		14 February	
Thursday		Thursday	
Day	68°	Sunset	1733
Precipitation	10%	End Civil Twilight	1758
		Moon 65.6% Illumination	
Night	45°	Moon Rise	2355
Precipitation	10%	Moon Set	1058

Enclosure (4)

ENCLOSURE (2)

Weather		Astronomical Data	
15 February		15 February	
Friday		Friday	
Day	67°	Sunset	1734
Precipitation	10%	End Civil Twilight	1759
		Moon 54.2% Illumination	
Night	45°	Moon Rise	N/A
Precipitation	25%	Moon Set	1058
Weather		Astronomical Data	
16 February		16 February	
Saturday		Saturday	
Day	68°	Sunset	1735
Precipitation	25%	End Civil Twilight	1800
		Moon 42.8% Illumination	
Night	47°	Moon Rise	0100
Precipitation	25%	Moon Set	1140

Enclosure (4)

ENCLOSURE (62)



GEAR LIST R222 DFGT III-VI (MINIMUM)

ON PERSON:

- (1) SET DESERT FROGS
- (1) DESERT BOONIE COVER
- (1) PAIR SOCKS
- (1) SKIVVY SHIRT
- (1) APPROPRIATE COLOR MARTIAL ARTS BELT
- (1) MARINE CORPS-APPROVED STEEL TOE BOOTS
- (1) T/O WEAPON(S) W/VICKERS SLING (DUMMY CORDED)
- (1) WATCH
- (1) PLATE CARRIER
- (2) FRONT AND BACK SAPIES
- (1) WAR BELT (OPTIONAL)
- (3) DOUBLE MAGAZINE POUCHES WITH (6) MAGAZINES
- (1) DROP POUCH
- (1) IFAK
- (1) CAC
- (1) ROOM KEY
- (1) PVS-14 (DUMMY CORDED)
- (1) PEQ-15/16 (DUMMY CORDED)
- (1) RCO (DUMMY CORDED)
- (1) ALL ISSUED SL3 NEEDED FOR PEQ AND PVS-14

ASLT PACK:

- (1) EAR PRO
- (1) HEADLAMP (WHITE AND RED LENS)
- (1) TACTICAL GLOVES
- (1) CAMELBACK BLADDER
- (1) SET OF NOTE TAKING GEAR
- (1) MULTI PURPOSE TOOL/GERBER \*\*OPTIONAL\*\*
- (1) CLEAR & DARK EYE PRO
- (1) GLOW BELT
- (1) WEAPONS CLEANING GEAR
- (2) CANTEENS IN CANTEEN POUCHES W/ CANTEEN CUP & STAND
- (1) PONCHO LINER
- (1) MRE
- (1) GORTEX TOP AND BOTTOM

MAIN PACK:

- (1) SLEEP SYSTEM
- (4) DOS CHOW
- (1) SET DESERT FROGS
- (4) SKIVVY SHIRT
- (4) PAIRS OF SOCKS
- (1) SET OF WARMING LAYERS
- (1) TARP

Enclosure (5)

ENCLOSURE (62)

TRAINING EVOLUTION:  Range 222 Gun Tables III-VI		ORGANIZATION:  AAV Platoon, 15TH MEU	Assigned OIC:  (b)(3), (b)(6), (b)(7)(c)	Assigned RSO:	Weapons Systems:  M2 .50 cal Mk19 40mm	Date:  20200212-20200216	
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
Phase III	Marine wounded/ killed by Up-Gunned Weapon System or ordnance	-Weapons Malfunction caused by improper headspace and timing. -Negligent Discharge. -Firing outside of designated limits. -Weapons leaving the range not condition 4.	I/C=2	- Marines perform headspace and timing on the .50 cal prior to live fire. - Weapons are kept in condition 4 until on the firing line with turrets oriented down range. - Marines go condition 4 after firing is complete. - Range lateral limits briefed each day prior to training. - RSO inspect weapons leaving the firing line to ensure clear condition 4. -PPE will be worn at all times.	I/D=3	-Armorer checks the headspace and timing of each .50 cal. -Classes given on headspace and timing and Marines perform function checks a week prior to going to the field, as well as redundancy checks for each firing vehicle. -Ensure weapons have PFIs and LTIs, prior to live fire training. -Marines instructed on when to go condition 3 and condition 1 during safety briefs. - PSOs verify condition 4 prior to movement off the firing line. -RSO/OIC give safety brief outlining left and right lateral limits of the range prior to execution each day.	- RSO/OIC verifies headspace and timing prior to live fire. - Master Gunner or OIC inform gun crews when to change the condition of weapons. -RSO clears each weapon prior to leaving range. -Master Gunner and OIC observe effects of fires with relation to range boundaries. -RSO ensures PSO is briefed on their responsibilities during live fire. -RSO coordinate with armory and platoon maintenance chief IOT ensure all weapons have had a LTI and PFI.
Phase III	Marine injured while handling ammunition	-Marines attempting to relink 40mm ammunition. ("buffalo rounds") -Lack of situational awareness. -Marines improperly handling ammunition.	I/C=2	-Ensure no one handles buffalo rounds except for the RSO, OIC, or designated personnel. -Ensure Marines are paying attention to their surroundings and handling ammunition with care.	I/D=3	-Platoon leadership briefs the platoon on handling buffalo rounds and that only the RSO, OIC, or designated personnel will handle buffalo rounds. -Safety brief is conducted and an emphasis is made on handling ammunition with care.	-Platoon commander, platoon sergeant, OIC, and RSO ensure no one is handling buffalo rounds except those designated to do so. -RSO conducts safety brief with an emphasis on handling buffalo rounds and ammunition in general. -Section leaders supervise Marines IOT ensure they are safely handling ammunition.
Phase III	Marine injured by UXO	-Lack of situational awareness. -Marines attempting to handle UXO. -Marines navigating off of tank trails already laid out in the SOM.	I/C=2	-Ensure Marines are paying attention to their surroundings and that they know to inform their chain of command if they come across any UXO. -Ensure Marines understand not to touch or handle UXO.	I/D=3	-Safety brief conducted to ensure Marines maintain situational awareness so they don't disturb any UXO. -Marines briefed that they are not to handle UXO and that if they come across it, to inform their chain of command. -Marines briefed on SOM during operation order.	-RSO/OIC conduct a safety brief to remind Marines to maintain situational awareness and to never handle UXO themselves. -Section leaders supervise their section to ensure IOT ensure Marines don't disturb any UXO. -Crew chiefs supervise crews IOT ensure crews don't disturb any UXO.

ENCLOSURE (2)

				-Marines will not smoke within 50 m of the refueler.		-Fuel not given to vehicles until crew chief conducts inspection. -All Marines in the platoon briefed of the limitations on smoking.	-Section leaders and platoon leadership monitor refueling to ensure no Marines are smoking within 50 m. -Platoon sergeant will ensure all fire extinguishers are serviceable and located on the AAV per SOP.
All Phases	Loss of personnel or equipment	-Marines not maintaining their prescribed hourly comm checks. -Marines not properly briefed on their respective routes and road guard positions. -Lack of situational awareness.	I/C=2	-Enforce comm checks with all roadguard positions. -Each road guard position will redundant communications -Marines back brief RSO/OIC on locations of road guard positions before leaving.	I/D=3	-Route brief and ROC walks with all vehicles prior to leaving RAMP. -Conduct of proper accountability for personnel and gear before and after every movement, twice daily (morning and evening) with one of those checks being conducted by serial number. -Proper PCC/PCI conducted.	-OIC/RSO conduct daily serialized gear checks before and after each day of training. -Platoon sergeant will gain full accountability of all personnel before any platoon movement. -Section leaders inspect all gear and Marines within their section are accounted for at all times.
All phases	AAV/wheeled vehicle accident collision/ roll-over	-Speeding. -Driver Fatigue. -Passing of other units on roads. -Lack of visibility due to dust.	I/C=2	-Marines obey all posted speed limits. -Marines are given adequate rest time prior to operating AAV. -AAVs remain on right side of road and mind a safe distance from other vehicles while passing. -AAVs decrease speed to less than 15mph when passing through dust clouds.	I/D=3	-Vehicle commanders monitor driver speeds of no more than 25mph. -Vehicle commanders monitor rest period of drivers and remove overly fatigued drivers. -Drivers are briefed prior to leaving RAMP on procedures for passing other units on the road. -Drivers maintain distances of 100m or greater dispersion to avoid creating dust clouds. -Drivers are briefed on slowing down when driving through dust.	-Section leaders ensure section maintains proper speed limit. -Vehicle commanders back-brief section leaders on rest plan for crew. -Vehicle commanders verbally command drivers if they do not follow briefed techniques. -Vehicle commanders verbally command drivers if they do not decrease speed during brown out, and all vehicles will stop until dust settles and visibility is restored.
All Phases	Vehicle fire resulting in injuries	-Mechanical malfunctions which cause fire. -Fire bottles inoperable. -Smoking inside AAV.	I/C=2	-Vehicle commanders report any potentially dangerous problems to maintenance personnel. -Vehicle not utilized until mechanical issue is resolved. -Manual fire bottles on every AAV inspected and weighed by maintainers then annotated on fire bottle tags. -MFSS tested by maintainers. -Properly complete the pre-operational checklist. -Brief safety and evacuation SOPs.	I/D=3	-Vehicle commanders constantly monitor status of vehicles -Other vehicles utilized if vehicle becomes fire hazard. -Vehicle commanders check fire bottle tags prior to operation to ensure date is current. -Vehicle commanders verify MFSS is unobstructed by SL-3.	-Section leaders monitor maintenance issues and report to platoon sergeant -Platoon sergeant ensures all vehicles operating have no mechanical issues -Marines back brief section leaders on proper use and status of manual fire bottles. -Section leaders inspect sections to verify MFSS is unobstructed in all vehicles and fire bottles have current tags.
All phases	Injuries on AAVs	-Marines injured by unsecured hatches, improperly stowed gear. -Burns. -Improper wearing of PPE.	II/C=3	-All hatches and gear are strapped down according to SOP. -All internal gear will be strapped down. -Hands avoid the rim of the hatch when opening/closing or unsecured. -FROG gear worn at all times. -Marines aware of burn treatment.	II/D=4	-Vehicle commanders supervise and inspect crew men properly strapping down hatches and equipment. -Vehicle commanders ensure proper PPE is worn at all times. -Corpsman briefs platoon on burn treatment.	-Section leaders inspect vehicles prior to conducting rehearsals for properly strapped hatches and equipment. -Section Leaders ensure proper PPE is worn at all times. -RSO ensures vehicle hatches secured, proper PPE utilized before AAV movement conducted.

ENCLOSURE (2)

All Phases	Weather exposure casualties	<ul style="list-style-type: none"> <li>-Marines not eating/drinking properly.</li> <li>-Excessive heat of vehicle when wearing PPE.</li> <li>-Failing to put on or take off warming layers</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all crew members to ensure they are eating and drinking enough water.</li> <li>-Warming layers will be removed by 0800.</li> <li>-Gear inspections before leaving will ensure Marines bring warming layers.</li> <li>-Each vehicle has (1) full 5 gallon water cooler and (2) designated water jugs.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-Marines briefed on importance of nutrition/hydration in the field.</li> <li>-Section leaders ensure adequate water on each vehicle prior to rehearsals.</li> <li>-Section leaders ensure Marines are wearing appropriate warming layers.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the platoon as a whole and ensures time is allotted during training for Marines to get chow and water.</li> <li>-Platoon sergeant ensures Marines are provided with food and water.</li> <li>-Corpsman observes Marines to ensure they are not becoming weather casualties.</li> <li>-Platoon commander monitors training to ensure AAV crewmen are given adequate rest time.</li> </ul>
All Phases	Wildlife Hazards	<ul style="list-style-type: none"> <li>-Marines harassing animals.</li> <li>-Lack of situational awareness</li> <li>-Not alerting the chain of command about wild life on range.</li> <li>-Not alerting corpsman to bug/wildlife allergies.</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Brief animal considerations and their likely locations within the area.</li> <li>-Have a corpsman on hand.</li> <li>-Ensure Marines' allergies are known and prepared for.</li> <li>-Ensure proper medication is on hand.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-During safety brief, brief not to touch, harass, or play with any wildlife and to keep your distance.</li> <li>-Ensure corpsman is aware of any existing allergies.</li> </ul>	<ul style="list-style-type: none"> <li>-RSO briefs wildlife concerns and safe practices.</li> <li>-Section leaders supervise to ensure any dangerous or endangered wildlife are reported.</li> <li>-Crew chiefs supervise to ensure any dangerous or endangered wildlife is reported.</li> </ul>
All phases	-Marines leaving the range with ammunition	<ul style="list-style-type: none"> <li>-Lack of situational awareness.</li> <li>-Marines/Vehicles not being inspected prior to departure from range.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Ensure Marines vehicles are inspected prior to departing the range via a line-out inspection.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Platoon leadership inspects vehicles and equipment via line-out inspection.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the conduct of a line-out inspection.</li> <li>-Platoon commander and platoon sergeant inspect one another's vehicles and gear.</li> <li>-Section Leaders inspect all vehicles and crews within their section.</li> </ul>
All Phases	Hazmat/Fuel Spill	<ul style="list-style-type: none"> <li>-Vehicle malfunction or while doing maintenance repairs.</li> <li>-Improper refueling technique.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Once hazmat spill or potential is discovered, Marines properly clean, report, and control the spill.</li> <li>-Adequate control materials are brought to field.</li> <li>-Marines utilize service station method of refueling.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all hazmat spills to ensure they are handled properly.</li> <li>-Hazmat procedures are briefed to the Marines prior to leaving the RAMP.</li> <li>-Hazmat rep ensures adequate materials are present on each vehicle prior to leaving field.</li> <li>-Vehicle commanders are briefed on refueling using the service station method prior to leaving RAMP.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon sergeant draws spill kit and disseminates to sections.</li> <li>-Platoon sergeant ensures Hazmat rep has provided adequate materials before leaving RAMP.</li> <li>-Section leaders inspect and supervise vehicle maintenance within section to ensure hazmat spills are properly contained and reported.</li> <li>-Section leaders supervise refueling to ensure proper techniques are utilized.</li> <li>-Crew chiefs inspect and supervise maintenance on assigned vehicle ensuring hazmat spills are properly contained and reported.</li> </ul>

ENCLOSURE (2)

HAZARD SEVERITY		RAC ASSESSMENT CODE MATRIX					COMMAND REVIEW/APPROVAL	
<b>I - CATASTROPHIC</b> - Death, permanent disability, major property damage <b>II - CRITICAL</b> - Permanent partial disability, major system or minor property damage <b>III - MARGINAL</b> - Minor injury, minor system or property damage <b>IV - NEGLIGABLE</b> - 1 <sup>st</sup> aid, minor system repair <b>MISHAP PROBABILITY</b> A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY <b>RISK ASSESSMENT CODE (RAC)</b> 1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL		HAZARD SEVERITY	MISHAP PROBABILITY				OIC	(b)(3), (b)(6), (b)(7)(c)  H&S CO: _____ (as required)
	A		B	C	D	RSC		
I	1		1	2	3	RSC		
II	1		2	3	4	XO/		
III	2		3	4	5	S-3:		
IV	3	4	5	5				

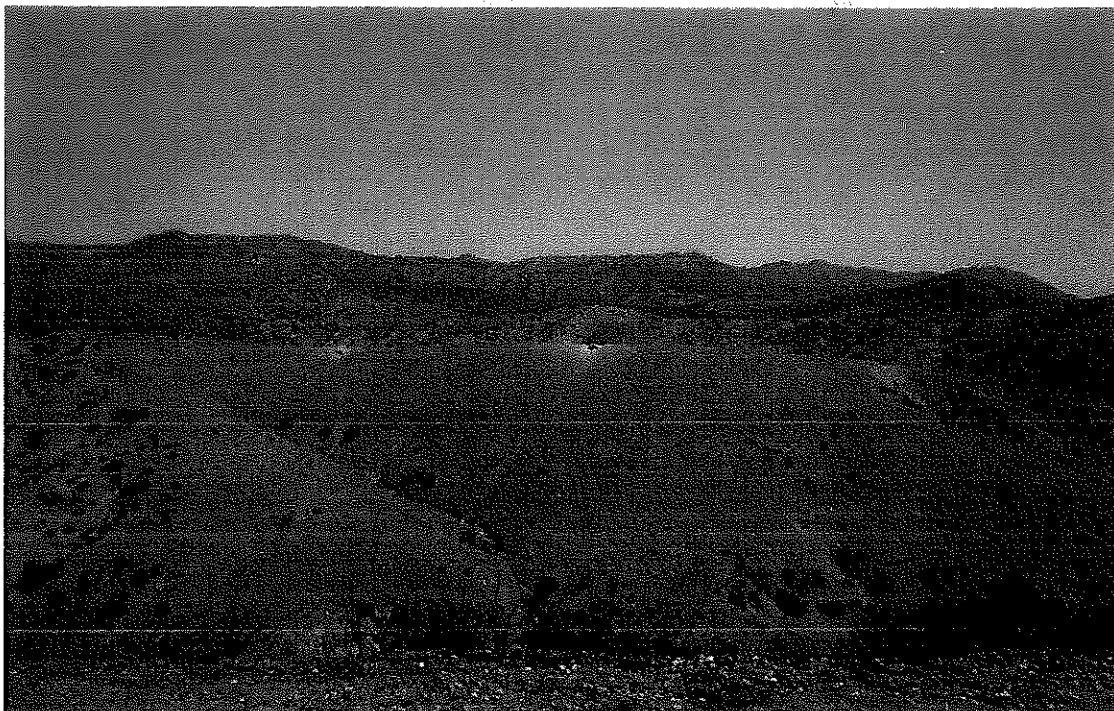
ENCLOSURE (62)

## RANGE AND TRAINING REGULATIONS

Maximum of 5 POVs (Truck Like) are authorized to park in parking lot area with or without a POV pass  
Road & River Report and Weapons Dependent

POVs ARE NOT AUTHORIZED ON THIS RANGE WHEN MORTARS OR ROCKETS/MISSILES ARE PRESENT

<b>Range:</b> R-222	<b>Lateral Limits:</b> See Special Instructions:	<b>Allowable Wpns:</b> Javelin Grenade Launchers (ALL) Infantry Rockets (ALL) Infantry Mortars – 81mm & 60mm 25mm – HEI-T, TP-T & TPDST (Only) MGs & Rifles - 50 Caliber & below Weapons Mounted Lasers	<b>Assigned to:</b> CG, MCB <b>Date Revised:</b> 05 June, 2018
<b>Location:</b> 60716 92205	<b>Engagement Distance:</b> <b>Min</b> 400 meters <b>Max</b> 1500 meters		
<b>Elevation:</b> 690' AMSL			
<b>Type:</b> Field Firing			
<b>Troop Penetration:</b> None	<b>Impact Area:</b> Whiskey an Zulu	<b>Range Facilities:</b> Ammo table; Port-a-johns	



### Scheduling

1. All scheduling requests for R-222 shall be submitted via their battalion.
2. Unit shall utilize RFMSS to schedule range.

Scheduling Conflicts	Conflict Notes
I-IMP WHISKY	LIVE FIRE @R-222 CLOSES GROUND ACCESS IMP WHISKY
I-IMP ZULU	ALL INFANTRY RKTS, TOW & 25MM L/F@R-222 CLOSES GROUND ACCESS IMP ZULU
A-R220	NONE
A-R440 (Z)	C/F R-222 DURING R-440 (Z)(A/GUNNERY) TACP AND URBAN TACP (SHOULDER FIRED 40MM OK)
A-409A TACP	C/F R-222 DURING R409A TACP (SHOULDER FIRED 40MM OK)
R-221	USE OF MK-19 HEDP @R-222 CLOSES R-221
R-AFA 10	LIVE FIRE @R-222 CLOSES AFA 10
R-HORNO RIDGE	LIVE FIRE @R-222 CLOSES HORNO RIDGE
R-LFAM 223B	LIVE FIRE @R-222 CLOSES LFAM 223B
R-LFAM 703	USE OF R-222 CLOSES LFAM 703
R-MFA 14	LIVE FIRE @R-222 CLOSES MFA 14
TA- OP NOAH	LIVE FIRE @R-222 CLOSES OP NOAH

ENCLOSURE (62)

## RANGE AND TRAINING REGULATIONS

### OIC/RSO Requirements

1. A safety Brief shall be conducted prior to each live fire event to all participants.
2. All personnel shall wear required PPE during all training events.
3. OIC & RSO Requirements –
  - a. LAVs/Javelin/40mm HEDP/HE Rockets
    - i. OIC Requirement – GySgt or Above
    - ii. RSO Requirement – SSgt or Above
  - b. Small Arms-40mm TP/TP Rockets .50 Caliber & below/Mortars
    - i. OIC Requirement – SSgt or Above
    - ii. RSO Requirement – Sgt or Above
  - c. No Munitions
    - i. OIC Requirement – None
    - ii. RSO Requirement – Cpl or Above
    - iii. LASER (If Used) LRSO Requirement – Sgt or Above

### Special Instructions

1. NO POVs on range when firing rockets or Mortars.
2. Infantry Rockets.
  - a. Maximum of Five (5) launchers will only be allowed on the Firing Line.
  - b. No Max Limit for Sub-Caliber Trainers.
  - c. M72AS rockets may only be fired from left side of firing line.
4. Firing Limitations:
  - a. SMAW - During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.
  - b. HE AT-4 - Prone or foxhole firing of HE AT-4 (M136) is not authorized. In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.
  - c. HE LAW - Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.
  - d. Any miss fires, the unit shall attempt to replace safety devises and notify Longrifle for EOD support. EOD shall determine if the rocket can be transported back to ASP.
5. Infantry Mortars
  - a. Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
  - b. RSO will ensure that the FDC has plotted target box on both primary and secondary boards.
  - c. All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
  - d. Safety "T" will be with each gun.
  - e. Base Plates and Aiming Stakes Shall be left in place after registration fire.
  - f. Unit shall contact Longrifle for permission prior to burning increments.
  - g. Mortar Increments are to be burned IAW CAMPENO 3500.1 and MCRP 3-15.2A and FM 23-90
  - h. Unit shall have firefighting equipment at the burn site, and remain on site for 30 minutes after the last burn to ensure no fires start.
  - i. No more than 100 increments total per burn.
  - j. Handheld on this range is not authorized.

TOW's and Javelin's with Infantry Rockets	.50 Caliber and Below and Mk 19	Infantry Mortars (81mm and 60mm)
<b>Lateral Limits:</b> LLL- 60727 92225 at 013° mag RLL- 60745 92213 at 022° mag	<b>Lateral Limits:</b> LLL- 60716 92225 at 359° mag RLL- 60888 92221 at 015° mag When firing MK 19 The unit shall lock the gate at R221 (Units shall supply their own locks) or range guards shall be posted at 59750 92845.	<b>Firing Point:</b> 60713 92218 <b>FP elevation:</b> 670 feet AMSL <b>81mm Max Charge:</b> Charge 1 <b>60mm Max Charge:</b> Charge 2 <b>Max Range:</b> 1,775m <b>Min Range:</b> 950 meters LLL- 0200 mils grid RLL- 0700 mils grid

ENCLOSURE (62)

## RANGE AND TRAINING REGULATIONS

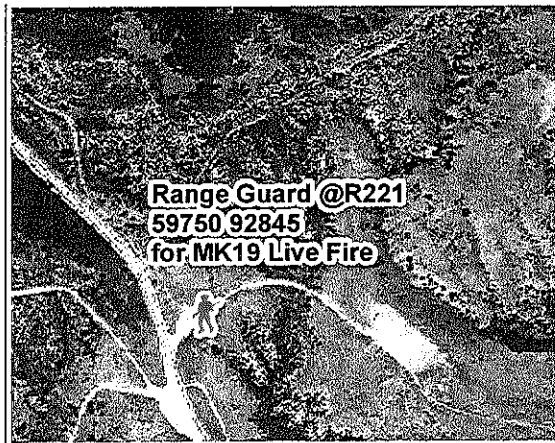
### LAV-25 (25mm)

1. **Lateral Limits:**  
LLL- 60716 92225 at 359° mag  
RLL- 60888 92221 at 015° mag
2. R221 Personnel must stay within the depicted boundaries of R221.
3. **LAV Stab Runs are authorized along the depicted firing line.**
4. **During Armored Vehicles Live Fire, the following flag display system will be used:**
  - a. **Red** – Weapons are loaded, on target, weapon arm switch is on fire, and manual safety is off
  - b. **Green** – All weapons are cleared and elevated, weapon arm switch is on safe and manual safety is off. No ammunition on vehicle.
  - c. **Yellow & Red** – Malfunction or misfire, weapon arm switch is on safe and manual safety is on or ammunition on vehicle.
  - d. **Yellow & Green** – Malfunction, weapons are clear, weapon arm switch is on safe and manual safety is on, no ammunition on vehicle.
  - e. **Red & Green** – Crew preparing to fire or crew is conducting non-firing exercise, ammunition may be loaded to the feeder but the feeder may not be loaded, bolt is in the sear position and weapon arm switch is on safe and manual safety is on. Ammunition may be to the Coax machinegun but in the coax, bolt to the rear and manual safety is on. Ammunition is either stowed or loaded in ready boxes.
5. **RSO will verify all weapons are clear on each vehicle regardless of flags displayed prior to notifying Longrifle.**

Special Instructions Continued on Next page

ENCLOSURE (62)





# R222 Static Firing Line

Zulu

LFAM 703

Parking Area

R222  
JAVELIN & ROCKET FIRING LINE

LFAM703

Zulu

222



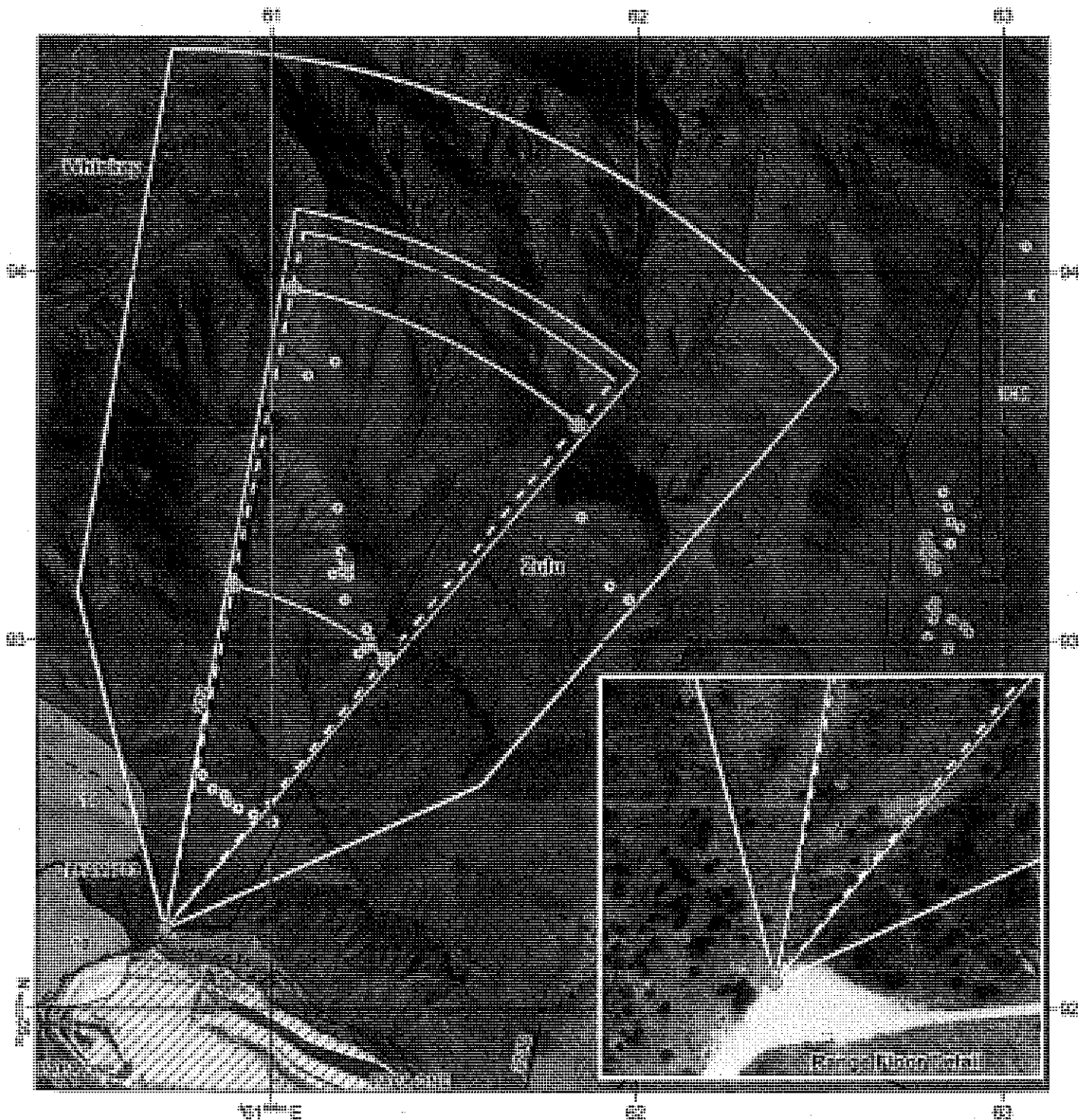
ENCLOSURE (2)



# Weapon Type: MORTARS

## Conflicts with Zulu Air

Map Scale = 1:15,000



Weapon: 81mm/ 60mm  
 Firing Point: 60713 92218  
 FP elevation: 670 feet AMSL  
 Impact Area: Zulu  
 81 mm Max Range: 1,775 meters  
 Max Charge: 1  
 Min Range: 950 meters  
 60 mm Max Range: 1,775 meters  
 Max Charge: 2  
 Min Range: 950 meters  
 Left Lateral Limit: 0200 mils grid  
 Right Lateral Limit 0700 mils grid

-No POV's shall enter MP 222 even if they have a range pass.  
 -OIC shall report to longifle Max Ord & charge to be fired  
 -Max Ord shall remain within scheduled Airspace and shall be at least 1000 Ft below any FW Aircraft transitioning over the Impact Area.

### MP-222 Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO will ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.

Created E  
 Approving

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

ENCLOSURE (62)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

UNIT: BLT 1/4, B CO, AAV PLT	OPORD: Crew/Sec/Plt DFGT	DTG: 20200601	LOCATION: R408A, R600, R800
SUBJ: AAV PLATOON DIRECT FIRE GUNNERY TABLES I-IX			
REF:	(A) MAP: CAMP PENDLETON 1:50,000 AMES SERIES V795S, SHEET IV (B) MCTP 3-10C (EMPLOYMENT OF AMPHIBIOUS ASSAULT VEHICLES) (C) NAVMC 3500.2 (AAV TRAINING AND READINESS MANUAL) (D) MARINE CORPS ORDER 3570.1C RANGE SAFETY (E) DA PAM 385-63 (F) USMC RANGE SAFETY POCKET GUIDE VERSION 2.3 (G) MCIWEST- MARINE CORPS BASE CAMP PENDLETON ENVIRONMENTAL OPERATIONS MAP		
TASK ORGANIZATION: B CO AAV PLATOON; FIRST SECTION, SECOND SECTION, THIRD SECTION, AND COMMAND SECTION.			
<p>1. <b>SITUATION:</b> AAV PLATOON IS PREPARING TO CONDUCT DIRECT FIRE GUNNERY TABLES (DFGT) I THROUGH IX LIVE-FIRE EVALUATION AT RANGE 408A, 600, AND 800 AT CAMP PENDLETON FROM 10-14 JUNE. DUE TO THE PRE DEPLOYMENT TRAINING PLAN (PTP) REQUIREMENTS FOR THE 15TH MEU, IT IS ESSENTIAL THAT AAV PLATOON IS 100% QUALIFIED UP TO DFGT VI.</p>			
<p>2. <b>MISSION:</b> FROM 10-14 JUNE AAV PLATOON BRAVO COMPANY EXECUTES DFGT I-IX AT R408A, 600, AND 800 IOT ENHANCE PROFICIENCY OF CREW, SECTION, AND PLATOON LEVEL GUNNERY TO SUPPORT FUTURE EXERCISES AS PART OF BATTALION LANDING TEAM (BLT) 1/4.</p>			
<p>3. <b>EXECUTION:</b></p> <p>A. <b>COMMANDER'S INTENT.</b></p> <p>(1) <b>PURPOSE.</b> THE PURPOSE OF THIS EXERCISE IS TO EVALUATE AND ENHANCE GUNNERY TRAINING AT THE CREW, AND SECTION LEVEL THROUGH DFGT IX.</p> <p>(2) <b>METHOD.</b> THIS TRAINING WILL BE ACCOMPLISHED THROUGH INSTRUCTION, PRACTICAL APPLICATION, AND EVALUATION VIA THE 3D AABN MARKSMANSHIP TRAINING UNIT (MTU) PRIOR TO THE PLATOON CONDUCTING DFGT I-IX. EACH CREW WILL HAVE BEEN QUALIFIED THROUGH TABLE VI BEFORE MOVING TO SECTION GUNNERY. THE MTU WILL BE EVALUATING WITH THE 3D AABN BATTALION MASTER GUNNER.</p> <p>(3) <b>END STATE.</b> ALL AAV CREWS, AND SECTIONS ARE QUALIFIED ON DFGT I-IX. AAV PLATOON IS PREPARED FOR FUTURE GUNNERY OPERATIONS AS PART OF BLT 1/4.</p> <p>B. <b>CONCEPT OF OPERATIONS.</b> THIS IS A FOUR PHASE OPERATION (PHASE I-IV). <b>PHASE I</b> WILL BE THE PREPARATION PHASE AND WILL CONSIST OF ALL NECESSARY VEHICLE, GEAR, AND PERSONNEL PREPARATIONS PRIOR TO DEPARTURE FOR THE RANGE. <b>PHASE IIA</b> WILL CONSIST OF A MOVEMENT TO R227 ON 6 JUNE. <b>PHASE IIB</b> WILL CONSIST OF A MOVEMENT TO R408A ON 10 JUNE. <b>PHASE IIIA</b> WILL BE THE EXECUTION PHASE ON 10 AND 11 JUNE, CONSISTING OF RANGE SETUP, DFGT'S III-VI, AND RANGE BREAKDOWN. <b>PHASE IIIB</b> WILL BE THE EXECUTION PHASE ON 12 AND 13 JUNE, CONSISTING OF MOVEMENT TO R600/800, RANGE SETUP, DFGT'S VII-IX, AND RANGE BREAKDOWN. <b>PHASE IV</b> WILL CONSIST OF THE RETROGRADE TO 3D AABN RAMP.</p> <p>(1) <b>PHASE I: PREPARATION PHASE.</b> 18 MAY-05 JUNE. PHASE I HAS ALREADY BEGAN WITH</p>			

SIGNATURE/DATE	Oil
CO	S-2

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

R
S

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


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

ENCLOSURE (2)

LETTER OF INSTRUCTION  
R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

FIELD AND ADMINISTRATION PREPARATIONS TO CONDUCT TABLES I-IX. ADMINISTRATIVE PREPARATION CONSISTS OF CLASSROOM INSTRUCTION ON OFFENSIVE AND DEFENSIVE TACTICS, CREW/SECTION LEVEL GUNNERY REHEARSALS, AND THE CONDUCT OF A TACTICAL DECISION GAME AT THE SECTION LEVEL. FIELD PREPARATION WILL INCLUDE PRE-OPERATIONS CHECKS COMPLETED, WEAPONS HANDLING, GEAR INSPECTION, COMMUNICATIONS PREPARATION, AND BORE SIGHTING. ONCE BOTH ADMINISTRATION AND FIELD PREPARATIONS ARE COMPLETE, THE PLATOON WILL BE GIVEN AN OPERATIONS ORDER ON 05 JUNE FOR A MOVEMENT TO CONTACT TO R227/R408A FOLLOWED BY BACK-BRIEFS AND REHEARSAL OF CONCEPT (ROC) WALKS. THIS PHASE ENDS ONCE THE NECESSARY CREWS ARE PRE LIVE-FIRE QUALIFIED.

(2) PHASE II: STAGING AND MOVEMENT PHASE. THIS PHASE IS BROKEN DOWN INTO TWO STAGES. STAGE A IS THE MOVEMENT TO R227. STAGE B IS THE MOVEMENT TO R408A.

(A) STAGE A. 06 JUNE. THIS STAGE BEGINS WITH ALL MARINES AND EQUIPMENT ACCOUNTED FOR AND PREPARED TO CONDUCT MOVEMENT. DURING THIS PHASE, SECTION LEADERS WILL ENSURE ALL MARINES AND EQUIPMENT ARE ACCOUNTED FOR BY CONDUCTING COUNTS BEFORE AND AFTER ALL MOVEMENTS. THE PLATOON WILL CONDUCT ITS MOVEMENT FROM THE 3D AABN RAMP TO R227. THIS PHASE ENDS WITH THE AAV PLATOON OCCUPYING R227 ON 06 JUNE AND IS PREPARED TO CONDUCT THE BRAVO COMPANY FEX.

(B) STAGE B. 10 JUNE. THIS STAGE BEGINS WITH ALL MARINES AND EQUIPMENT ACCOUNTED FOR AND PREPARED TO CONDUCT MOVEMENT. DURING THIS PHASE, SECTION LEADERS WILL ENSURE ALL MARINES AND EQUIPMENT ARE ACCOUNTED FOR BY CONDUCTING COUNTS BEFORE AND AFTER ALL MOVEMENTS. THE PLATOON WILL CONDUCT ITS MOVEMENT FROM THE R227 TO R408A. THIS PHASE ENDS WITH THE AAV PLATOON OCCUPYING R408A NO EARLIER THAN 1000 ON 10 JUNE AND IS PREPARED TO CONDUCT TABLES III-VI.

(3) PHASE III: EXECUTION PHASE. THIS PHASE IS BROKEN DOWN INTO TWO STAGES. STAGE A IS AT R408A CONDUCTING DFGT III-VI DAY AND NIGHT. STAGE B IS AT R600/800 CONDUCTING DFGT VII AND IX DAY AND NIGHT.

(A) STAGE A. 10-12 JUNE. THIS STAGE BEGINS WITH THE PLATOON IMMEDIATELY BEGINNING RANGE SET-UP AND PREPARATIONS FOR THE CONDUCT OF DFGT III-VI. PREPARATIONS WILL INCLUDE MINOR BORESIGHTING ADJUSTMENTS, VERIFICATION OF HEADSPACE AND TIMING, COMMUNICATION CHECKS, ZEROING THE UP GUNNED WEAPONS STATION (UGWS), AND WEAPONS PREPARED FOR LIVE FIRING. RANGE SET UP WILL INCLUDE VERIFICATION OF ENGAGEMENT AREAS, LEFT AND RIGHT LATERAL LIMITS IDENTIFIED BY OIC/RSO, TARGET LOCATIONS, VERIFYING CONDITION STAKES, AND AMMUNITION ISSUE POINT ESTABLISHED. WHILE THE RANGE IS BEING SET UP, A TERRAIN MODEL WILL BE PREPARED FOR ADDITIONAL BRIEFS AND REHEARSALS. ONCE SET UP IS COMPLETE, ALL MARINES INVOLVED WILL RECEIVE A SAFETY BRIEF AND OPERATIONAL RISK MANAGEMENT REVIEW PRIOR TO THE START OF THE TABLES. AFTER THE SAFETY BRIEF ONE CREW AT A TIME WILL CONDUCT THEIR DFGT III-VI. NO MORE THAN 6 AAV P7s WILL BE LOCATED ON THE STATIC FIRING LINE. WHILE ONE CREW IS SHOOTING THE OTHER 5 CREWS WILL BE STANDING BY IN THEIR VEHICLES WITH WEAPONS IN CONDITION 4 WAITING TO CONDUCT THEIR TABLES. THIS STAGE ENDS ONCE LONG RIFLE HAS COME AND INSPECTED THE RANGE.

(B) STAGE B. 12-14 JUNE. THIS STAGE BEGINS AFTER LONG RIFLE HAS INSPECTED R408A. THEN THE PLATOON WILL CONDUCT MOVEMENT FROM R408A to R600/800. THE PLATOON WILL THEN START PREPARATIONS. PREPARATIONS WILL INCLUDE MINOR BORESIGHTING ADJUSTMENTS, VERIFICATION OF HEADSPACE AND TIMING, COMMUNICATION CHECKS, AND WEAPONS PREPARED FOR LIVE FIRING. RANGE SET UP WILL INCLUDE VERIFICATION OF ENGAGEMENT AREAS, LEFT AND RIGHT LATERAL LIMITS IDENTIFIED BY OIC/RSO, TARGET LOCATIONS, VERIFYING CONDITION STAKES, AND

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ENCLOSURE (43)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

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AMMUNITION ISSUE POINT ESTABLISHED. FOLLOWING RANGE PREPARATIONS EACH SECTION LEADER WILL GIVE A WARNING ORDER, PRODUCE AN OVERLAY, AND BRIEF THEIR SCHEME OF MANEUVER OVER A TERRAIN MODEL TO THE PLATOON COMMANDER AND PLATOON SERGEANT. AFTER THE BRIEFS FIRST SECTION CONDUCTS THEIR DRY RUN WHILE SECOND AND THIRD SECTION WILL BE CONDUCTING THEIR PRE-OPERATION CHECKS FOR THEIR DRY RUN. THE PLATOON COMMANDER AND MASTER GUNNER WILL TRAVEL WITH THE AAV'S WITH THE SECTION TO EVALUATE THE GUNNERY TABLE VIII. FOLLOWING THE DRY RUN, THE SECTION WILL CONDUCT A HOT WASH WHILE THE NEXT SECTION CONDUCTS THEIR DRY FIRE RUN. DRY RUNS WILL BE RAN UNTIL THE OIC AND MASTER GUNNER FEEL THE SECTION CAN SAFELY MANEUVER THE COURSE OF FIRE. ONCE ALL DRY FIRE RUNS ARE COMPLETE THE SECTIONS WILL START THEIR LIVE FIRE DAY PORTION. UPON COMPLETION OF TABLE IX THE SECTION WILL CLEAR ALL WEAPONS WITH THE PSO, RSO, AND OIC VERIFYING CONDITION FOUR. THE SECTION WILL THEN RECEIVE A FINAL DEBRIEF BY THE PLATOON COMMANDER. ONCE THE DEBRIEF IS COMPLETE THE NEXT SECTION WILL COMPLETE THEIR LIVE FIRE. AT 1830 THE PLATOON WILL PREPARE FOR THE NIGHT FIRE PORTION. THIS WILL INCLUDE VEHICLE MARKINGS, LFAM ROUTE MARKED, CONDITION STAKES MARKED, NIGHT VISION DEVICE STATUS PCC/PCI RECONFIRMATION, AND PLATOON GIVEN A SAFETY BRIEF ON NIGHT MANEUVER CONSIDERATIONS. SIMULTANEOUSLY THE SECTION LEADERS WILL BE GIVEN A FRAG-O FOR A NIGHT PATROL ON THE SAME ROUTE. EACH SECTION LEADER WILL GIVE A WARNING ORDER, PRODUCE AN OVERLAY, AND BRIEF THEIR SCHEME OF MANEUVER OVER A TERRAIN MODEL TO THE PLATOON COMMANDER AND PLATOON SERGEANT. ONCE ALL PRE-OPERATION CHECKS ARE COMPLETE THE SECTION LEADER WILL REQUEST TO DFL AND CONDUCT TABLE VIII DRY FIRE AT NIGHT. AFTER EACH RUN THE SECTION WILL RECONSOLIDATE AND A HOT WASH WILL TAKE PLACE WITH THE PLATOON COMMANDER. THE SECTIONS WILL THEN CONDUCT THEIR TABLE IX NIGHT PORTION UNTIL 2359.

(4) PHASE IV: RETROGRADE PHASE. 14 JUNE. THIS PHASE BEGINS WITH CLEARANCE FROM RANGE CONTROL TO BEGIN RETROGRADE FROM R800 TO 3D AABN RAMP. THE PLATOON WILL TRAVEL IN A TACTICAL COLUMN ALONG THE SAME ROUTE BACK TO 3D AABN. ROAD CROSSING WILL BE CONDUCTED IN THE SAME MANNER AS THE TRANSIT OUT AND THE PLATOON WILL CONDUCT A MAINTENANCE HALT ARMOR COIL IN THE TANGO TRAINING AREA. ALL WEAPONS AND EDL WILL BE CLEANED AND TURNED IN, AFTER ACTIONS CONDUCTED, AND ALL AAV'S WASHED DOWN AND RETURNED TO THE LINE. THIS PHASE ENDS ONCE THE FINAL SIGHT COUNT IS COMPLETED.

## C. TASKS

OIC	<p>T1: ENSURE YOU HAVE PRIOR APPROVAL OF ALL TRAINING ON THE RANGE.</p> <p>P2: IOT MAINTAIN POSITIVE CONTROL OF ALL TRAINING, AS YOU ARE DIRECTLY RESPONSIBLE FOR EVERYTHING THAT TAKES PLACE.</p> <p>T2: CONDUCT A RANGE WALK WITH ALL SECTION LEADERS AND VEHICLE COMMANDERS.</p> <p>P2: IOT ENSURE THAT ALL KEY PERSONNEL UNDERSTAND THE ROUTE, FIRING LINES, AND TARGETS TO BE ENGAGED BOTH DURING THE DAY AND NIGHT PORTION OF DFGT'S.</p> <p>T3: CONDUCT LINK-UP AND COORDINATION WITH RANGE CONTROL PRIOR TO CONDUCT OF RANGE.</p> <p>P3: IOT TO ENSURE THAT ALL RANGE RULES AND REGULATIONS ARE ADHERED TO.</p>
RSO	<p>T1: ENSURE SAFE CONDUCT OF DFGT THROUGH DILIGENT AND INTRUSIVE OVER-WATCH OF ANYTHING RELATED TO RANGE SAFETY.</p> <p>P1: IOT TO PREVENT ANY UNSAFE ACTIONS FROM TAKING PLACE.</p> <p>T2: WHEN PERFORMING DUTIES AS RSO FOCUS SOLELY ON RANGE SAFETY AND RSO-RELATED TASKS.</p> <p>P2: TO ENSURE A SAFE RANGE.</p> <p>T1: ENSURE ALL WEAPONS ARE PROPERLY HEADSPACED AND TIMED.</p>

SIGNATURE/DATE	OIC	RSO	GUNNER
(b)(3), (b)(6), (b)(7)(c)	(b)(3), (b)(6), (b)(7)(c)		
	S-3/A	S-3	BN CMDR

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

ENCLOSURE (23)

# LETTER OF INSTRUCTION

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	<p>P2: TO PREVENT ANY INJURIES TO GUNNER'S OR DAMAGE TO WEAPONS.</p> <p>T1: ENSURE ALL GATES ARE LOCKED ACCORDING TO RANGE REGULATIONS.</p> <p>P2: IOT PREVENT ANY NON-AUTHORIZED PESONNEL FROM ENTERING THE TRAINING AREA DURING THE CONDUCT OF GUNNERY TABLES.</p>
PSOS	<p>T1: ENSURE SAFE OPERATION OF BOTH WEAPON SYSTEMS THROUGHOUT THE CONDUCT OF TABLES IX.</p> <p>P1: IOT PREVENT ANY UNSAFE WEAPONS OPERATION FROM TAKING PLACE BEFORE, DURING, AND AFTER DFGT IX.</p> <p>T2: ENSURE YOUR VEHICLE COMMANDER IS ENGAGING TARGETS WITHIN THE LEFT AND RIGHT LATERAL LIMITS.</p> <p>P2: IOT PREVENT ANY INJURIES FROM FIRING OUTSIDE THE LIMITS.</p> <p>T3: ONCE FIRING IS COMPLETE ENSURE BOTH WEAPONS ARE CONDITION FOUR.</p> <p>T4: TO PREVENT INJURY OR DAMAGE FROM A NEGLIGENT DISCHARGE WHILE IN TRANSIT BACK TO THE AA.</p>
PLATOON SERGEANT	<p>T1: COORDINATE WITH ALL LOGISTICAL AND OPERATIONS SOURCES</p> <p>P1: IOT ENSURE ALL REQUIREMENTS TO CONDUCT THIS RANGE ARE IN PLACE TO INCLUDE BUT NOT LIMITED TO, CHOW, WATER, FUEL, COMMUNICATION ASSETS, AMMO, SAFETY VEHICLES AND RE-SUPPLY, AND MAINTENANCE CONTACT TEAM.</p> <p>T2: ENSURE ALL PRE AND POST-OP CHECKS ARE CONDUCTED ACCORDING TO SOP.</p> <p>P2: IOT SET CONDITIONS FOR SAFE LAND OPERATIONS.</p> <p>T3: CREATE AN EQUIPMENT DENSITY LIST OF ALL THE PLATOON SERIALIZED GEAR.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF ALL SERIALIZED GEAR FOR THE DURATION OF THE EXERCISE.</p> <p>T4: SUPERVISE ALL MAINTENANCE, RECOVERY, AND CASUALTY EVACUATION.</p> <p>P4: IOT ENSURE COMPLIANCE WITH APPROPRIATE PROCEDURES.</p> <p>T5: COMMUNICATE WITH RANGE CONTROL.</p> <p>P5: IOT TO ENSURE TRAINING IS CONDUCTED SAFELY IN ACCORDANCE WITH SOPS.</p> <p>T6: SUPERVISE ALL PARTS OF THE EXERCISE.</p> <p>T7: IOT ENSURE SAFE AND EFFECTIVE TRAINING, BPT TO SERVE AS OIC, CONDUCT AN RSO CHANGEOVER, OR SERVE AS A TACTICAL EVALUATOR FOR DFGT'S.</p>
SECTION LEADERS	<p>T1: CONDUCT GEAR INSPECTION NLT 05 JUNE.</p> <p>P1: IOT CONFIRM GEAR ACCOUNTABILITY AND UNIFORMITY.</p> <p>T2: ENSURE DFGT PREREQUISTES ARE COMPLETE PRIOR TO THE RANGE BEING CONDUCTED PROPERLY AND ALL MARINES HAVE A CLEAR UNDERSTANDING OF WHAT IS BEING TAUGHT.</p> <p>P2: IOT ENSURE SAFETY AND EFFICIENCY WHILE CONDUCTING DFGT I-IX.</p> <p>T3: INFORM PLATOON SERGEANT OF ALL MAINTENANCE AND READINESS ISSUES.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF VEHICLES AND PERSONNEL.</p>
CORPSMAN	<p>T1: INVENTORY MEDICAL SUPPLIES THAT ARE BEING BROUGHT TO THE FIELD.</p> <p>P1: IOT ENSURE THAT THE EQUIPMENT ALLOWS PROPER AID FOR ALL POTENTIAL INJURIES AT R408A, R600/800.</p> <p>T2: COORDINATE WITH RANGE CONTROL IN THE EVENT OF CASUALTY.</p> <p>P2: IOT ALLOW PLATOON STAFF TO APPROPRIATELY TRACK, REPORT, AND FOLLOW UP ON CASUALTY.</p> <p>T3: PLAN GROUND MEDEVAC ROUTES FROM TO HIGHER ECHELON OF MEDICAL CARE.</p> <p>P3: IOT ELIMINATE WASTED TIME IN TRANSPORTING CASUALTY TO MEDICAL CARE.</p>
COMM CHIEF	<p>T1: NLT 05 JUNE ENSURE ALL VEHICLE'S COMMUNICATION EQUIPMENT HAS BEEN INSPECTED, EVALUATED, AND ARE OPERATIONAL.</p> <p>P1: IOT FACILITATE COMMUNICATIONS DURING TRAINING THROUGHOUT TRAINING EXERCISE.</p>

SIGNATURE/DATE	OIC (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
CC (b)(3), (b)(6), (b)(7)(c)	S-3/A	S-3	BN CMDR

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# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

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	<p>T2: NLT 05 JUNE SUPERVISE PREPARATION AND OPERATION OF PLATOON COMMUNICATION ASSETS.</p> <p>P2: IOT ENSURE PROPER LOADING OF CRYPTOGRAPHIC INFORMATION ENSURING ALL COMMUNICATION SECURITY PROCEDURES ARE BEING FOLLOWED.</p> <p>T3: ENSURE EACH AAV CAN ESTABLISH COMMUNICATIONS WITH THE MASTER GUNNER FROM THE TURRET.</p> <p>P3: IOT ENSURE THE SAFE CONDUCT AND EXECUTION OF COMMANDS.</p> <p>T4: ESTABLISH COMMUNICATIONS WITH BATTALION.</p> <p>P4: IOT TO SEND SITUATIONAL REPORTS AND LOGISTICAL REQUESTS AS REQUIRED.</p>
MAIN CHIEF	<p>T1: ENSURE ALL VEHICLES ARE PROPERLY PREPARED FOR FIELD TRAINING TO INCLUDE ANNOTATION AND RECONCILIATION OF ALL DISCREPANCIES.</p> <p>P1: IOT ENSURE VEHICLES ARE READY FOR CONDUCT OF DFGT IX.</p> <p>T2: ASSEMBLE AND MAINTAIN A DSI FOR THE EXERCISE.</p> <p>P2: IOT ENSURE MAINTENANCE CAN BE CONDUCTED IN THE FIELD TO COMPLETE DFGT.</p>

## D. COORDINATING INSTRUCTIONS

(1) REQUIRED FACILITIES. R408A/600/800

(2) OIC

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

(3) RSC

(4) PSO. EACH UGWS WILL HAVE AN ASSIGNED POSITION SAFETY OFFICER IN THE VEHICLE TROOP COMMANDER HATCH DURING THE CONDUCT OF LIVE FIRE AND MANEUVER. THE PLATOON WILL HAVE 5 VEHICLE CREW EVALUATORS (VCE) CERTIFIED BY THE BATTALION MASTER GUNNER. AS NECESSARY, PSO'S MAY BE EXPERIENCED SNCO'S OR VEHICLE COMMANDERS.

(5) TIMELINE. 10 JUNE 2020 - 14 JUNE 2020.

### 10 JUNE

0600 REVILLE  
 0700 PRE OPS  
 0800 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED  
 0900 MOVEMENT FROM 227 TO R408A  
 1000 PLATOON OCCUPIES R408A  
 1030 SAFETY BRIEF IS GIVEN  
 1100 ZERO  
 1200 CREW DAY GUNNERY  
 1900 NIGHT SAFETY BRIEF  
 2000 NIGHT CREW GUNNERY  
 2359 RANGE COLD

### 11 JUNE

0600 REVEILLE  
 0700 SAFETY BRIEF  
 0800 DAY CREW GUNNERY  
 1900 NIGHT SAFETY BRIEF  
 2000 NIGHT CREW GUNNERY  
 2359 RANGE COLD

### 12 JUNE

0600 REVEILLE

SIGNATURE/DATE	OIC (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
(b)(3), (b)(6), (b)(7)(c)	S-3/	S-3	BN CMDR

ENCLOSURE (2)



# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

0700 MOVEMENT TO R600/800  
0900 OCCUPY R600/800  
0930 SAFETY BRIEF  
1000 SECTION LEADERS BRIEF  
1100 DRY RUNS  
1200 LIVE RUNS  
1800 NIGHT SAFETY BRIEF  
1900 SECTION LEADERS BRIEF  
2000 DRY NIGHT RUNS  
2100 LIVE NIGHT RUNS  
2359 RANGE COLD

## 13 JUNE

0600 REVEILLE  
0700 SAFETY BRIEF  
0800 SECTION LEADERS BREIF  
0900 DRY RUNS  
1000 LIVE RUNS  
1800 NIGHT SAFETY BRIEF  
1900 SECTION LEADERS BRIEF  
2000 DRY NIGHT RUNS  
2100 LIVE NIGHT RUNS  
2359 RANGE COLD

## 14 JUNE

0600 REVEILLE  
0700 RANGE CLEANUP  
0800 RANGE INSPECTION  
0900 RETROGRADE TO 3D AABN  
1100 CONDUCT WASHDOWNS AND POST OPS  
1700 PLATOON SECURE

## (6) TACTICAL CONTROL MEASURES (TCMS)/ POINTS OF INTEREST

TCM (PRIMARY NUMBERED, ALTERNATE LETTER)	LOCATION
LOD (3D AABN RAMP)	11S MS 6280 7560
CP-1 (LCAC TOWER)	11S MS 5922 7995
CP-2 (WARRIORS COVE)	11S MS 5570 8488
CP-3 (HOLE IN THE WALL)	11S MS 5509 8632
CP-4 (LAS PULGAS CROSSING)	11S MS 5763 8501
CP-5 (BASILONE ROAD CROSSING)	11S MS 6246 8987
R227	11S MS 6325 9050
CP-7	11S MS 6433 9049
R408A	11S MS 6654 9188
CP-9	11S MS 6342 9182
CP-10	11S MS 6709 9332
CP-11	11S MS 6645 9604
CP-12	11S MS 5413 9853
R600	11S MT 5530 0325
R800	11S MT 6099 0073
POINTS OF INTEREST	LOCATION

SIGNATURE/DATE	OI (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
CO CMDR	S-	S-3	BN CMDR

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

ENCLOSURE (43)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

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AXP-1	11S MS 5763 8501
AXP-2	11S MS 6246 8989
21 AREA BAS	11S MS 6300 7600
53 AREA BAS	11S MS 5533 9320
43 AREA BAS	11S MS 6190 8980
LZ BUZZARD	11S MT 6150 0070
LZ CANARY	11S MT 6270 0045
LZ BLUEBIRD	11S MS 6290 9965
LZ STARLING	11S MS 6210 9120
NAVAL HOSPITAL	11S MS 6360 7610

(7) RATE(S) OF MARCH AND DISPERSION. 20 MPH IN TRAINING AREAS WITH 50-75 METER DISPERSION. IN LOW LIGHT CONDITIONS, 15 MPH AND 50-75 METER DISPERSION. WHITE LIGHT WILL BE UTILIZED IN LOW LIGHT CONDITIONS AT ROAD CROSSINGS. 5 MPH IN CONGESTED AREAS WHILE UTILIZING GROUND GUIDES.

## (8) NO COMMUNICATION PLAN

### A. PHASE I. NOT APPLICABLE

B. PHASE II/IV MOVEMENT TO AND FROM RANGE. IF COMMUNICATION IS LOST DURING THE PLATOON MOVEMENT THEY WILL UTILIZE HAND AND ARM SIGNALS OR A MESSENGER. THE VEHICLE WILL CONTINUE TO TRY TO RE-ESTABLISH COMMUNICATION DURING THE MOVEMENT. WHILE IN A PLATOON COLUMN, THE PLATOON WILL CONTINUE TO MOVE AS LONG AS THE FRIST AND LAST VEHICLE HAVE COMMUNICATIONS WITH THE PLATOON COMMANDER OR PLATOON SERGEANT. IF COMMUNICATION LOST BETWEEN THESE THREE VEHICLES THE PLATOON WILL HALT FOR NO LONGER THAN 10 MINUTES AND RE-ESTABLISH COMM. IF IT CANNOT BE RE-ESTABLISHED THEN THE PLATOON WILL CONTINUE THEIR MOVEMENT WITH THE 1ST SECTION LEADER TAKING TACTICAL CONTROL WHILE THE PLATOON COMMANDER TRIES TO RE-ESTABLISH COMM WHILE MOVING. RANGE FLAGS WILL BE UTILIZED TO PASS THE COMMUNICATION STATUS OF THE VEHICLE TO THOSE AROUND IT. GREEN WILL MEAN "HEAR BUT CANNOT SPEAK", YELLOW WILL MEAN "CANNOT HEAR OR SPEAK" AND RED MEANS EMERGENCY IN THE VEHICLE AND NEED ASSISTANCE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE, TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

C. PHASE III CONDUCT OF RANGE. WHILE CONDUCTING LIVE FIRE THE VEHICLE COMMANDER WILL HAVE POSITIVE COMMUNICATION WITH THE BATTALION MASTER GUNNER AND THE VEHICLES FIRING VIA PLATOON TAC BY USING THEIR VEHICLE RADIO SETS. IF COMMUNICATION GOES DOWN TRAINING WILL CEASE UNTIL IT IS REESTABLISHED. IF AT ANYTIME COMMUNICATION IS LOST BETWEEN THE VEHICLE COMMANDER, DRIVER, AND PSO IN THE TROOP COMMANDER'S HATCH TRAINING WILL CEASE AND INTERCOM WILL BE ESTABLISHED INTERNAL TO THE VEHICLE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

(9) LOST MARINE PLAN. IF A MARINE HAS BEEN IDENTIFIED AS MISSING, ALL MOVEMENT AND TRAINING WILL CEASE AND THE PLATOON WILL GAIN ACCOUNTABILITY OF ALL PERSONNEL AND EQUIPMENT BEFORE BACKTRACKING THE PREVIOUS ROUTE UNTIL THE MARINE IS FOUND. ACCOUNTABILITY WILL BE MAINTAINED BY CONDUCTING CHECKS BEFORE AND AFTER ANY MOVEMENT. ALL MARINES WILL INFORM THEIR CHAIN OF COMMAND WHEN THEY LEAVE THE IMMEDIATE

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ENCLOSURE (23)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

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AREA OF THE PLATOON. THEY WILL TRAVEL IN PAIRS AND NEVER MOVE MORE THAN 50M AWAY FROM THE PLATOON. ALL MARINES WILL CARRY A WATER SOURCE WHEN STEPPING AWAY FROM THE VEHICLE. WHILE MOVING TO AND FROM THE RANGE. DURING PHASE II AND IV, IF A MARINE BECOMES LOST THEY WILL REMAIN IN PLACE FOR 2 HOURS AND THEN BACKTRACK TO THE NEAREST MAIN SUPPLY ROUTE (MSR) WITHIN 1KM. THE MARINES WILL BE BRIEFED ALONG THE ROUTE THEIR POSITION IN RELATION TO LAS PULGAS ROAD AS WELL AS BASILONE DRIVE. ONCE THEY ARRIVE AT ONE OF THESE ROADS IF ABLE TO FLAG DOWN A PASSING VEHICLE WILL ENSURE CONTACT WITH PLATOON. DURING THE CONDUCT OF TABLE IX IF THEY BECOME LOST THEY WILL HOLD IN PLACE AND NOT TRAVEL INTO THE ENGAGEMENT AREA.

## (10) GO/NO GO CRITERIA

- A. CORPSMAN PRESENT AND PREPARED FOR CONDUCT OF EXERCISE.
- B. MAINTAIN POSITIVE COMMUNICATIONS WITH LONG RIFLE.
- C. IMPROPER DODIC'S DELIVERED TO TRAINING AREA.
- D. LESS THAN SIX AAVP7'S OPERATIONAL TO CONDUCT DFGT I-IX.

(11) ORDER OF MARCH. VEHICLES WILL MOVE SECTION ORDER NUMERICALLY 1ST SECTION, 2ND SECTION, 3RD SECTION.

(12) ROAD CROSSING. AT A ROAD CROSSING, THE PLATOON WILL HALT IN A HERRINGBONE FORMATION WHEN TERRAIN ALLOWS MAINTAINING A DEFENSIVE POSTURE. WHILE THE PLATOON SERGEANT MOVES TO THE FRONT OF THE FORMATION. HE WILL THEN DROP OFF TWO ROAD GUARDS WITH REFLECTIVE VESTS AND BROOMS. ROAD GUARDS WILL HAVE FLASHLIGHTS FOR NIGHT CROSSINGS. ROAD GUARDS WILL BE BRIEFED TO MOVE OUT OF THE WAY IF ONCOMING TRAFFIC APPEARS TO NOT BE STOPPING. ONCE THE ROAD GUARDS ARE SET, THE PLATOON WILL CROSS THE ROAD. WHEN ALL VEHICLES HAVE CROSSED, THE ROAD GUARDS WILL SWEEP DEBRIS OFF THE ROAD, AND THEN GET BACK IN THE PLATOON SERGEANT'S VEHICLE.

(13) VEHICLE RECOVERY PLAN. 10 MINUTES TO TROUBLESHOOT AND 20 MINUTES TO FIX. PLATOON SERGEANT IS THE PRIMARY RECOVERY TEAM. 3RD SECTION, OR LEAST ENGAGED SECTION IS THE ALTERNATE RECOVERY TEAM. DURING **PHASE II** IF A VEHICLE IS UNABLE TO LEAVE THE RAMP IT WILL BE SECURED WITH ALL WEAPONS AND EDL TRANSFERRED TO THE PLATOON SERGEANTS VEHICLE. ON THE MOVEMENT IF A VEHICLE NEEDS TO BE TOWED THE PLATOON SERGEANT WILL REMAIN PRIMARY TOW VEHICLE WHILE THE REMAINDER OF THE PLATOON FORMS A DEFENSIVE POSTURE TO RECOVER THE DOWNED VEHICLE. IF THE VEHICLE HAS A CATASTROPHIC FAILURE PRIOR TO THE GOLD BEACH HOLE IN THE WALL THE PLATOON SERGEANT WILL TOW THE VEHICLE BACK TO THE RAMP WHILE THE SECTION MAINTAINS A DEFENSIVE POSTURE. ONCE THE PLATOON SERGEANT RETURNS THE DOWN SECTION WILL CONTINUE TO R227. THE SECTION WILL STAY IN PLACE AND BUMP ACCORDINGLY ONCE THE VEHICLE HAS BEEN RETRIEVED BY THE CONTACT TEAM. IF THE PLATOON SERGEANT VEHICLE NEEDS TO BE RECOVERED, A DEFENSIVE POSTURE WILL BE FORMED TO RECOVER DOWNED VEHICLE BY 3RD SECTION. ALL EFFORTS WILL BE MADE TO REPAIR VEHICLES IN THE FIELD AND MOVE THEM TO THE RANGE. DURING THIS PHASE, THE PLATOON WILL HAVE A MAINTENANCE CONTACT TEAM ON STANDBY. IF A VEHICLE IS DETERMINED TO BE DEADLINED AND NOT REPAIRABLE IN A TIMELY MANNER, THE DOWNED VEHICLE PLUS TWO OTHER VEHICLES WILL REMAIN IN PLACE UNTIL THE CONTACT TEAM ARRIVES. ONCE THE DOWNED VEHICLE HAS BEEN RECOVERED, THE CREW FROM THE DOWNED VEHICLE WILL EXECUTE THE BUMP PLAN AND CONTINUE TO THE RANGE. ALL EDL WILL BE TRANSFERRED AS WELL. DURING **PHASE III** SHOULD A VEHICLE NEED TO BE RECOVERED THE PLATOON SERGEANTS VEHICLE WILL RECOVERY THE VEHICLE AND BRING IT BACK TO R408A/600/800

SIGNATURE/DATE	Ort (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
Ort	S-3/A	S-3	BN CMDR

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

ENCLOSURE (43)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

WHERE MAINTENANCE WILL BE CONDUCTED TO FIX THE VEHICLE. A VEHICLE FROM ANOTHER SECTION WILL BE USED TO COMPLETE THE GUNNERY TABLE, DURING **PHASE IV** THE VEHICLE WILL BE RECOVERED AND TOWED BACK TO 3D AABN RAMP.

(14) **BUMP PLAN**. VEHICLE CREW AND EMBARKED PERSONNEL FROM THE DISABLED VEHICLE WILL BUMP TO THE SECTION LEADER'S VEHICLE. IF PLATOON SERGEANT'S VEHICLE IS THE DOWNED VEHICLE, CREW AND EMBARKED PERSONNEL WILL BUMP TO VEHICLE 3-15-11, 3-15-7, 3-15-3.

(15) **UNIFORM AND GEAR**. ALL MARINES WILL WEAR FIRE RESISTANT ORGANIZATION GEAR (FROG) AND APPROPRIATE PPE.

(16) **PPE**. PPE WILL BE WORN AT ALL TIMES WHILE CONDUCTING TRAINING. PPE CONSISTS OF KEVLAR/ FROG, EYE PRO, EAR PRO, GLOVES, PLATE CARRIERS. IFAK'S WILL BE WORN OR IN THE MARINES STATION AT ALL TIMES. GAS MASK WILL BE ACCESSIBLE TO BE DONNED AT ANY POINT BY THE MARINE DURING THE EXERCISE. FIELD DISCIPLINE WILL BE MAINTAINED THROUGHOUT THE ENTIRETY OF THE TRAINING.

(17) **ADDITIONAL TRAINING GOALS**. WHEN MARINES ARE NOT FIRING, PREPARING TO FIRE, OR SUPPORTING THE RANGE THEY WILL BE CONDUCTING SECTION LEVEL REHEARSALS FOR LIVE FIRE AND MANEUVER. IF THE SECTION HAS ALREADY COMPLETED THEIR TABLE THE ASSISTANT SECTION LEADER OR VEHICLE COMMANDERS WILL PREPARE AND BRIEF THEIR SECTION LEADERS ON OFFENSIVE MANEUVER USING THE TERRAIN MODEL. IF ALL DAY FIRE IS COMPLETE AND THE PLATOON NEEDS TO WAIT TO CONDUCT NIGHT FIRE ASSISTANT SECTION LEADERS OR VEHICLE COMMANDERS WILL CONDUCT DRY RUNS TO COMMAND AND CONTROL A SECTION.

(18) **WEAPON SYSTEMS**. ALL CREW SERVED WEAPONS WILL HAVE LIMITED TECHNICAL INSPECTIONS (LTI)/PRE-FIRE INSPECTIONS (PFI) COMPLETE PRIOR TO CONDUCTING THE RANGE. THE PLATOON SERGEANT WILL HAVE A COPY OF THE LTI/PFI PAPERWORK AND VERIFY ACCURACY BEFORE DEPARTING FOR THE RANGE. BEFORE FIRING BEGINS, HEADSPACE AND TIMING WILL BE RE-INSPECTED BY THE VEHICLE COMMANDER (VC), POSITIONAL SAFETY OFFICER (PSO), AND ARMORER WITH RSO AND OIC OVERSIGHT.

(19) **CLEARING PROCEDURES**. ONCE CREWS ARE FINISHED FIRING, THEIR WEAPONS WILL BE CLEARED OUT BY THE VC, PSO, THEN RSO ONCE THE MANEUVER IS COMPLETE. ONCE THE WEAPONS ARE CLEAR AND CONDITION FOUR AS PHYSICALLY AND VISUALLY VERIFIED BY ALL THREE INDIVIDUALS, EACH AND EVERY VEHICLE WILL RETURN TO THE PLATOON'S AMMUNITION ISSUE POINT (AIP) AND REMOVE ALL REMAINING LIVE AMMUNITION FROM THE VEHICLE. THE VEHICLE AND PERSONNEL WILL BE LINED OUT BY BOTH THE OIC AND RSO. WEAPONS WILL THEN BE ELEVATED TO 45 DEGREES ONCE LIVE FIRE HAS SEIZED FOR THE TRANSIT BACK TO THE AA.

(20) **AMMUNITION HANDLING AND DUNNAGE**. AMMUNITION WILL BE STAGED NO CLOSER THAN 100M FROM ANY OTHER STRUCTURE OR ENCAMPMENT ON PALLETS UNDERNEATH CAMOUFLAGE NETTING. SMOKING IS NOT AUTHORIZED WITHIN 100M OF THE AMMUNITION SUPPLY POINT. AN ARMED WATCH WILL BE POSTED WITH SECURITY AMMUNITION AT ALL TIMES. IN ADDITION TO THE AMMUNITION NCO IN CHARGE OF DISTRIBUTING AMMUNITION. AMMUNITION WILL BE TRACKED BY THE POSTED NCO USING A LOGBOOK AND EXCESSIVE BREAK-OUT WILL BE AVOIDED BY UTILIZING SMALLER QUANTITY LOTS FIRST. ALL SPENT CASINGS WILL BE SORTED THREE TIMES TO ENSURE NO LIVE AMMUNITION IS TURNED IN WITH DUNNAGE. UPON COMPLETION OF THE RANGE, ALL AMMUNITION WILL HAVE BEEN SORTED AND TURNED-IN ALONG WITH THE EXPENDITURE REPORT.

SIGNATURE/DATE	OIC	RSO	GUNNER
CO	(b)(3), (b)(6), (b)(7)(c) S-3/i	S-3	BN CMDR

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

ENCLOSURE (43)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

## (21) MARKING PLAN

(A) RANGE MARKING PLAN. DURING THE CONDUCT OF PHASE III EACH ENGAGEMENT AREA WILL BE MARKED FOR BOTH DAY AND NIGHT FIRE TRAINING. DURING THE DAY THERE WILL BE MARKING STAKES IN PLACE TO ANNOTATE THE BEGINNING AND END OF EACH ENGAGEMENT AREA. A RED FLAG WILL BE NEXT TO THE STAKE INDICATING THE START OF AN ENGAGEMENT AREA AND A GREEN RANGE FLAG WILL INDICATE A THE END OF AN ENGAGEMENT AREA. FOR NIGHT A RED CHEMSTICK WILL INDICATE THE START OF AN ENGAGEMENT AREA AND GREEN CHEMSTICK WILL INDICATE THE END OF AN ENGAGEMENT AREA. BLUE CHEMSTICKS WILL BE USED TO MARK THE ROUTE FOR IN AREAS WHERE THERE IS A STEEP DROP OFF ALONGSIDE THE ROAD. ALL VEHICLE COMMANDERS AND PSOS WILL HAVE A WHITE LIGHT SOURCE TO ENSURE WEAPONS CONDITIONS. CHEMSTICKS WILL BE USED FOR GROUND GUIDING ON AND OFF THE FIRING LINE AT NIGHT. NIGHT CONSIDERATIONS FOR A POTENTIAL AIR CASEVAC WILL INCLUDE CHEMSTICK BUZZ SAW AND NATO-Y.

(B) PERSONNEL MARKING PLAN. THE OIC, RSO, PSO, AND CORPSMAN WILL BE MARKED WITH A WHITE CHEMSTICK DURING ALL NIGHT TRAINING EVOLUTIONS.

(C) VEHICLE MARKING PLAN. VEHICLES WILL BE MARKED SECTION INTERNAL. THE SECTION LEADER WILL HAVE ONE YELLOW CHEMSTICK STARBOARD ANTENNA. THE SECOND VEHICLE IN THE SECTION WILL HAVE TWO YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA. THE THIRD VEHICLE WILL HAVE THREE YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA.

(D) RANGE FLAGS. DURING LIVE FIRE RANGE FLAGS WILL BE UTILIZED TO SHOW THE OIC AND RSO THE STATUS OF THE WEAPONS. ONCE A VEHICLE ENTERS AN ENGAGEMENT AREA THE VEHICLE COMMANDER WILL GO CONDITION ONE. UPON THE END OF AN ENGAGEMENT AREA THE VEHICLE COMMANDER WILL POST A GREEN FLAG SHOWING THE RSO THE WEAPONS ARE CONDITION FOUR. IF THERE IS A MALFUNCTION THAT CANNOT BE CLEARED OR A MISFIRE A YELLOW RANGE FLAG WILL BE POSTED ON THE TURRET. NO VEHICLES WILL DISPLACE FROM THE ENGAGEMENT AREAS UNTIL ALL VEHICLES ARE CONDITION FOUR AND RANGE FLAGS ARE POSTED ON ALL TURRETS.

(22) GATES. TO PREVENT ENTRY INTO THE TRAINING AREA IN ACCORDANCE WITH RANGE REGULATIONS THE PLATOON SERGEANT WILL ENSURE THE PLATOONS LOCKS ARE USED TO SECURE THE GATES. IF GATES ARE NOT LOCKED ROAD GUARDS WILL BE POSTED AND TWO- WAY RADIO COMMUNICATION WILL BE MAINTAINED.

(23) SAFETY DRIVERS AND CORPSMAN. THE SAFETY DRIVER AND CORPSMAN WILL BE LOCATED IN TRACK 3-15-12 AND A JLTV. SAFETY DRIVERS FOR THE AAV AND JLTV WILL BE REQUIRED TO BACK-BRIEF THE RSO THE ROUTE TO THE AMBULANCE EXCHANGE POINT IN CASE OF AN EMERGENCY. IN ADDITION TO A BACK-BRIEF, THE RSO WILL PASS SPECIFIC GUIDANCE THAT THE SAFETY DRIVER IS NO MORE THAN AN ARMS-REACH AWAY FROM THE VEHICLE, THE BACK OF THEIR VEHICLE IS KEPT CLEAR OF EQUIPMENT AND DEBRIS, AND THAT THEY KEEP THEIR PPE STAGED ON THE VEHICLE.

## 4. ADMINISTRATION AND LOGISTICS

### A. ADMINISTRATION

(1) PERSONNEL COUNT (MO/ME/NO/NE). 1/57/0/1 TOTAL 59

SIGNATURE/DATE	OIC	RSO	GUNNER
(b)(3), (b)(6), (b)(7)(c)	(b)(3), (b)(6), (b)(7)(c)	S-3	BN CMDR

ENCLOSURE (63)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

(2) VEHICLE COUNT (BY TYPE AND QTY). (12) AAVP7S, (1) AAVC7

(3) SITUATION REPORTING (SITREP). THE PLATOON WILL SEND SITUATION REPORTS TO THE OOD AT THE BATTALION VIA SATCOM JBC-P AT 0600, 1200, 1800, AND 0000 DAILY.

(4) ASTRONOMICAL DATA

DATE	SUNRISE	SUNSET	ILLUMINATION
10 JUNE	05:42	19:50	88%
11 JUNE	05:42	19:52	79%
12 JUNE	05:42	19:55	70%
13 JUNE	05:42	19:56	60%
14 JUNE	05:42	19:57	50%

(5) CASUALTY EVACUATION (CASEVAC) PLAN. IN THE EVENT OF A CASUALTY ALL TRAINING WILL CEASE AND LONGRIFLE WILL IMMEDIATELY BE NOTIFIED WHILE THE CASUALTY IS EVALUATED BY THE CORPSMAN. COMMUNICATION WILL TAKE PLACE USING A NATO 9-LINE AND WILL BE MADE BY THE OIC, RSO, OR PLATOON SERGEANT. DAYTIME LZ'S FOR AIR CASEVAC WILL BE MARKED BY A TACTICAL VEHICLE WITH AIR PANELS AND NIGHT TIME WILL BE USING A CHEMLITE BUZZ SAW. UPON ARRIVAL AT THE RANGE LZ'S WILL BE CLEARED OF ANY FOD. UPON ARRIVAL AT THE RANGE THE LZ'S WILL BE MARKED PRIOR DURING RANGE SET UP. PRIMARY LZ AT R408A WILL BE LZ STARLING. PRIMARY LZ AT R600/800 BUZZARD, ALTERNATE LZ CANARY, AND CONTINGENCY LZ BLUE BIRD.

(A) URGENT AND PRIORITY CASUALTIES. IN THE EVENT OF AN URGENT OR PRIORITY CASUALTY THE CORPSMAN WILL PROVIDE INITIAL EVALUATION AND TREATMENT OF THE INJURED MARINE. LONGRIFLE WILL BE CONTACTED IMMEDIATELY. IN THE CASE OF A GROUND MEDEVAC THE INJURED MARINE WILL BE TRANSPORTED VIA SAFETY VEHICLE TO A HIGHER ECHELON OF MEDICAL CARE. IF EMS IS NOT AVAILABLE THROUGH COORDINATION WITH LONGRIFLE THEY WILL BE TRANSPORTED TO 53, 43 OR 21 AREA BAS VIA THE SAFETY VEHICLE. IF A HIGHER ECHELON OF CARE IS NEEDED THEY WILL BE THE TRANSPORTED DIRECTLY TO THE NAVAL HOSPITAL. IF IT IS DETERMINED AIR CASEVAC IS NECESSARY IT WILL BE COORDINATED THROUGH LONGRIFLE USING ONE OF THE FOUR LZ'S.

(B) ROUTINE CASUALTIES. IF A ROUTINE CASUALTY OCCURS IN ANY OF THE TRAINING AREAS TRAINING WILL CEASE AND LONGRIFLE WILL BE NOTIFIED. THE CORPSMAN WILL PROVIDE INITIAL ASSESSMENT AND TREATMENT. BASED ON THE RECOMMENDATION OF THE CORPSMAN AND THE SEVERITY OF THE INJURY THE OIC/ RSO WILL DETERMINE IF THE MARINE WILL REMAIN IN THE FIELD OR NEEDS TO BE TRANSPORTED BACK TO THE 53/21 AREA BAS.

(5) TRAINING AND READINESS EVENTS SEE ATTACHED T&R EVENTS.

B. LOGISTICS SEE ATATCHED TSR

(1) RECOVERY ASSETS. THE PLATOON WILL HAVE FOUR TOW BARS. THE PLATOON SERGEANT'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE PLATOON. THE ASSISTANT SECTION LEADER'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE SECTION.

SIGNATURE/DATE	OIC (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
(b)(3), (b)(6), (b)(7)(c)	S-3/A	S-3	BN CMDR

ENCLOSURE (63)

# LETTER OF INSTRUCTION

R408A/R600/R800 - COMPANY B

DATE(S): 20200610-20200614

TIME(S):

TRACKING #:

## 5. COMMAND AND SIGNAL:

### A. COMMAND

(1) POINTS OF CONTACT. PLATOON COMMANDER 1STLT T.J. MACALEESE (339)235-0974.  
PLATOON SERGEANT GYSGT H. LACEA (417)425-3483

(2) LOCATION OF KEY LEADERS. OIC WILL BE LOCATED IN VEHICLE 3-15-04. PLATOON SERGEANT WILL BE IN VEHICLE 3-15-12 WITH THE CORPSMAN DURING MOVEMENTS. DURING THE CONDUCT OF THE RANGE THE PLATOON COMMANDER WILL BE WITH THE SECTION LEADER. EACH TROOP COMMANDER HATCH WILL HAVE A PSO PRESENT.

B. SIGNAL. EACH DAY, ONCE RANGE PREPARATIONS ARE COMPLETE, THE OIC WILL CONDUCT A RADIO CHECK WITH ALL INVOLVED PARTIES: ROAD GUARDS, PSOS, AMMUNITION ISSUE POINT (AIP), RSO, AND THE BATTALION MASTER GUNNER.

	PRIMARY	ALTERNATE	CONTINGENCY	EMERGENCY
RANGE CONTROL - "LONGRIFLE"			KEY LEADER CELL PHONE	
INTERNAL RANGE COORDINATION			BLACK GEAR	PLT TAC 2 NET ID. (546) VHF
PLATOON		(b)(2)	BLACK GEAR	
BATTALION			JBC-P	KEY LEADER CELL PHONE

OFFICIAL

COMMANDING

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

SIGNATURE/DATE	OK (b)(3), (b)(6), (b)(7)(c)	RSO	GUNNER
	S-3	S-3	BN CMDR

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

ENCLOSURE (63)

<b>DATE</b> 20200610-20200612	<b>UNIT</b> 1/4 B CO AAV PLT	<b>RANGE/TA</b> R408A	<b>TRAINING TO BE CONDUCTED</b> AAV Direct Fire Gunnery Tables III-VI
<b>OIC</b> (b)(3), (b)(6), (b)(7)(c)		<b>RSO</b> (b)(3), (b)(6), (b)(7)(c)	<b>PERSONNEL</b> 1 MO 57 ME 1 NE

**MISSION:** From 10-16 June B CO AAV Plt will conduct DFGT I-IX in order to (IOT) meet PTP requirements for the 15th MEU.

	<p align="center"><b><u>TIMELINE</u></b></p> <p><b>10 JUNE</b> 0600 REVILLE 0700 PRE OPS 0800 COMM LOADED, PRE- OPERATIONAL CHECKS VERIFIED 0900 MOVEMENT FROM 227 TO R408A 1000 PLATOON OCCUPIES R408A 1030 SAFETY BRIEF IS GIVEN 1100 ZERO 1200 CREW DAY GUNNERY 1900 NIGHT SAFETY BRIEF 2000 NIGHT CREW GUNNERY 2359 RANGE COLD</p> <p><b>11 JUNE</b> 0600 REVEILLE 0700 SAFETY BRIEF 0800 DAY CREW GUNNERY 1900 NIGHT SAFETY BRIEF 2000 NIGHT CREW GUNNERY 2359 RANGE COLD</p>
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**Evaluator/ A.I. Requirements**

AAV Master Gunners from 3d AABn will be present to evaluate the crew on direct fire gunnery tables III-VI, consisting of day and night static shooting.

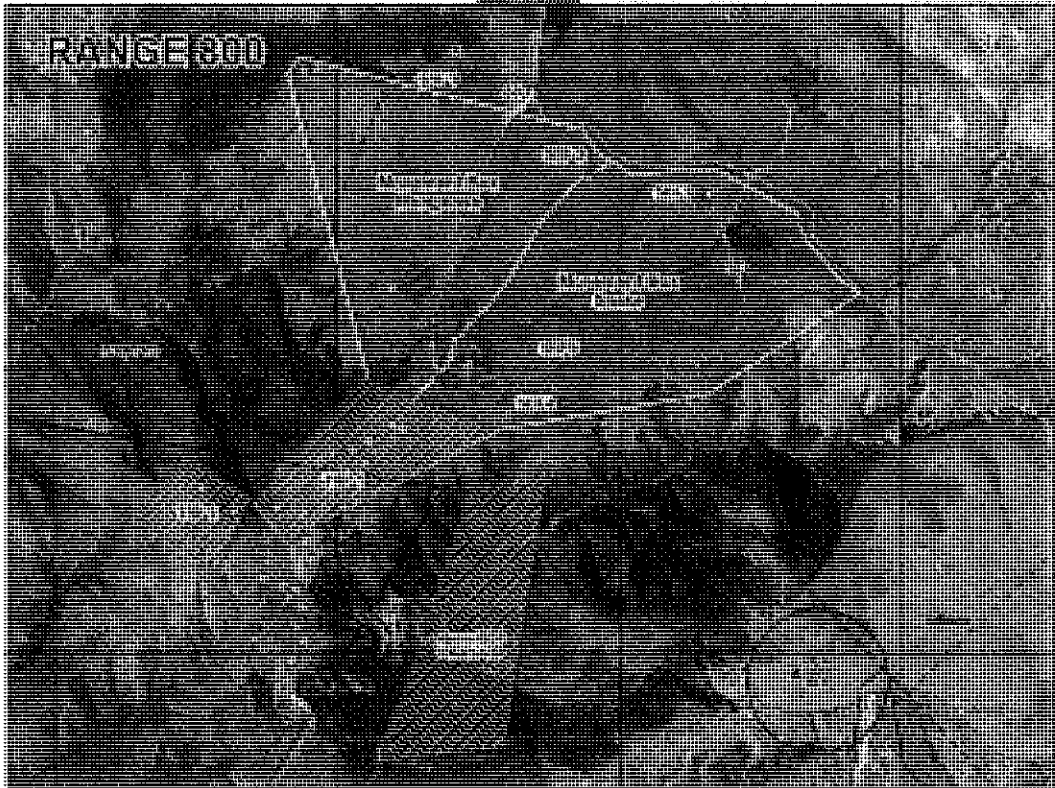
<b><u>TRANSPORT</u></b> Platoon will self-lift to and from range utilizing 12 AAV P7s, 1 AAV C7, and 1 AAV R7	<b><u>LOGISTICS</u></b> Marines will be issued (5) DOS chow/water prior to transport, water jugs will be brought for sustainment.	<b><u>UNIFORM</u></b> Frogs with boonie cover, PPE Level 1 (plate carrier w/ front/rear SAPIs, Kevlar, eyepro/earpro)
<b><u>COMMUNICATION PLAN</u></b> AAVs will be used as primary, with PRC-117/150s as secondary once the range has been occupied. Comms w/ Longrifle via AAV/PRC-117(SC/PT). Platoon internal safety structure maintained on Mk-153 black gear.		<b><u>MEDICAL REQ.</u></b> (1) Corpsman will be located with safety vehicle 3-15-12. A JLTV with Driver and A driver will also be in support.

ENCLOSURE (C3)





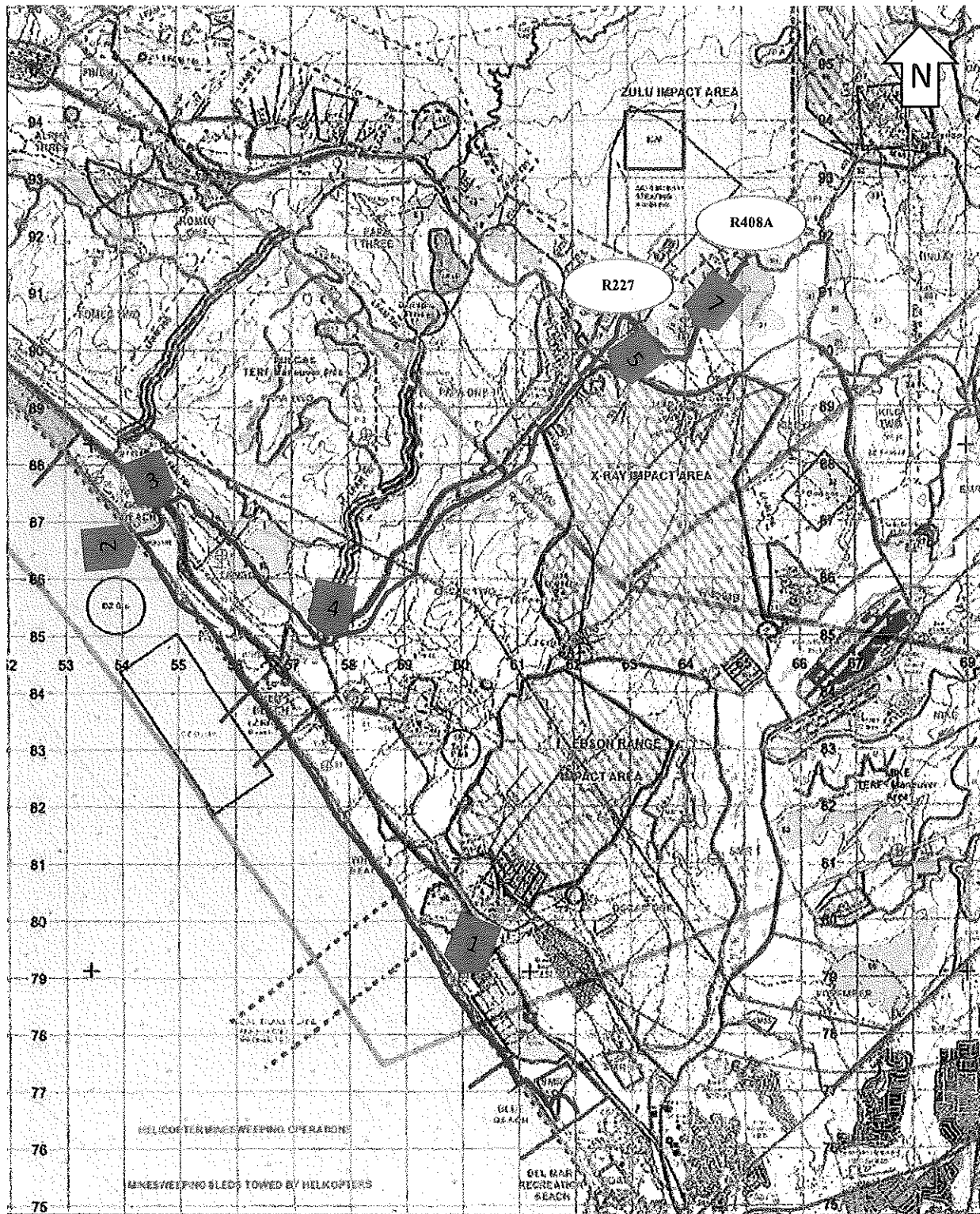
<b>DATE</b> 20200612-20200614	<b>UNIT</b> 1/4 B CO AAV PLT	<b>RANGE/TA</b> R800	<b>TRAINING TO BE CONDUCTED</b> AAV Direct Fire Gunnery Tables VII-IX
<b>OIC</b>  (b)(3), (b)(6), (b)(7)(c)	<b>RSO</b>  (b)(3), (b)(6), (b)(7)(c)	<b>PERSONNEL</b> 1 MO 57 ME 1 NE	
<b>MISSION:</b> From 10-16 June B CO AAV Plt will conduct DFGT I-IX in order to (IOT) meet PTP requirements for the 15th MEU.			

	<b>TIMELINE</b>  <b>12 JUNE</b> 0600 REVEILLE 0700 MOVEMENT TO R600/800 0900 OCCUPY R600/800 0930 SAFETY BRIEF 1000 SECTION LEADERS BRIEF 1100 DRY RUNS 1200 LIVE RUNS 1800 NIGHT SAFETY BRIEF 1900 SECTION LEADERS BRIEF 2000 DRY NIGHT RUNS 2100 LIVE NIGHT RUNS 2359 RANGE COLD <b>13 JUNE</b> 0600 REVEILLE 0700 SAFETY BRIEF 0800 SECTION LEADERS BRIEF 0900 DRY RUNS 1000 LIVE RUNS 1800 NIGHT SAFETY BRIEF 1900 SECTION LEADERS BRIEF 2000 DRY NIGHT RUNS 2100 LIVE NIGHT RUNS 2359 RANGE COLD <b>14 JUNE</b> 0600 REVEILLE 0700 RANGE CLEANUP 0800 RANGE INSPECTION 0900 RETROGRADE TO 3D AABN 1000 CONDUCT WASHDOWNS AND POST OPS 1500 PLATOON SECURE
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<b>Evaluator/ A.I. Requirements</b> AAV Master Gunners from 3d AABN will be present to evaluate the sections and platoon on direct fire gunnery tables VII-IX, consisting of day and night shooting.	<b>TRANSPORT</b> Platoon will self-lift to and from range utilizing 12 AAV P7s, 1 AAV C7, and 1 AAV R7	<b>LOGISTICS</b> Marines will be issued (5) DOS chow/water prior to transport, water jugs will be brought for sustainment.	<b>UNIFORM</b> Frogs with boonie cover, PPE Level 1 (plate carrier w/ front/rear SAPIs, Kevlar, eyepro/earpro)
	<b>COMMUNICATION PLAN</b> AAVs will be used as primary, with PRC-117/150s as secondary once the range has been occupied. Comms w/ Longrifle via AAV/PRC-117(SC/PT). Platoon internal safety structure maintained on Mk-153 black gear.		<b>MEDICAL REQ.</b> (1) Corpsman will be located with safety vehicle 3-15-12. A JLTV with Driver and A driver will also be in support.

ENCLOSURE (3)

# ROUTE-R222 DFGT III-VI



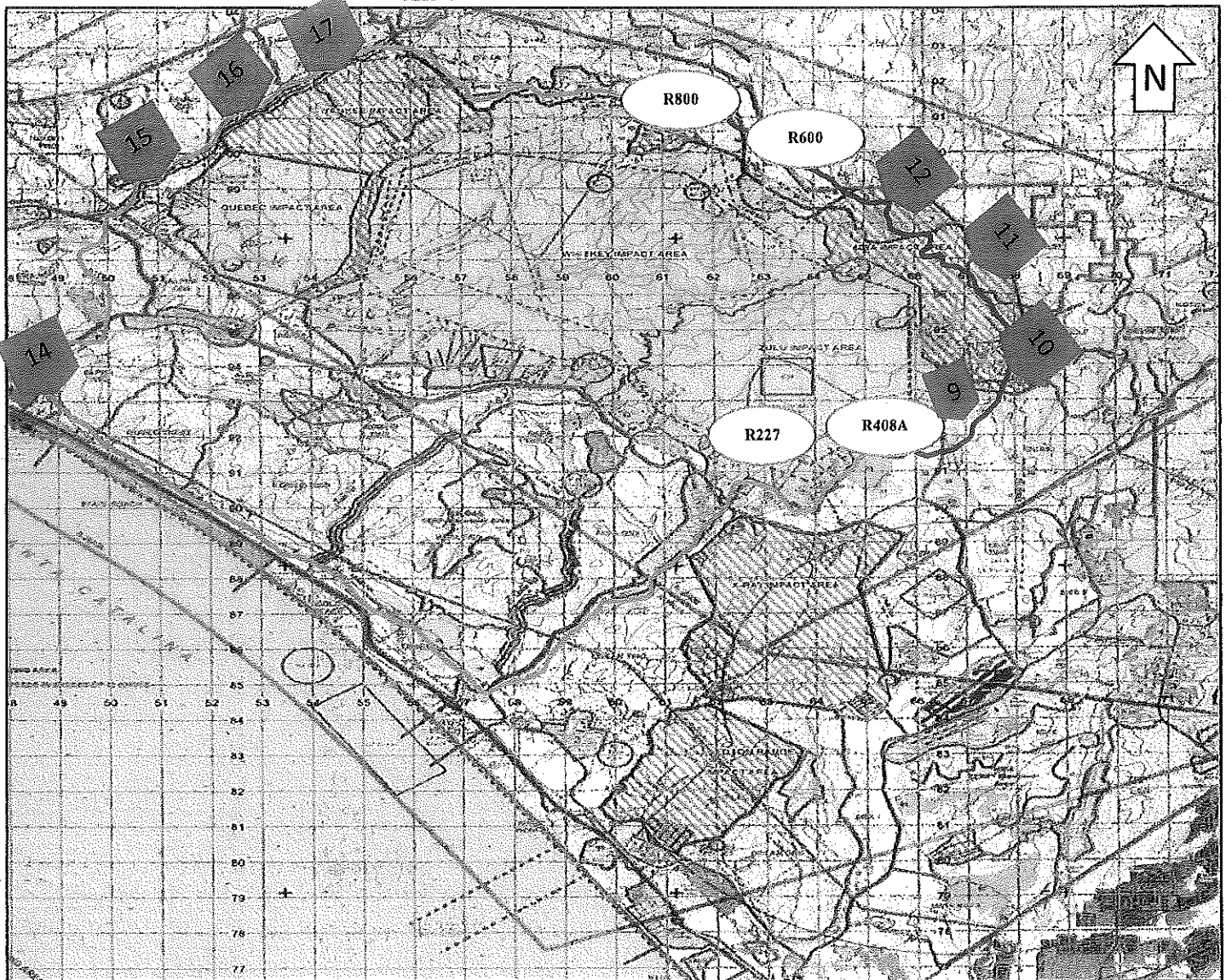
## **Check Points:**

- 1: 11S MS 5922 7995 (LCAC TOWER)
- 2: 11S MS 5570 8488 (WARRIORS COVE)
- 3: 11S MS 5509 8632 (HOLE IN THE WALL)
- 4: 11S MS 5763 8501 (LAS PULGAS CROSS)

- 5: 11S MS 6246 8987 (BASILONE CROSS)
- 6: 11S MS 6325 9050 (R227)
- 7: 11S MS 6433 9049
- 8: 11S MS 6654 9188 (R408A)

ENCLOSURE (63)

# ROUTE-R600/800 DFGT VII-IX



## Check Points:

- 9: 11S MS 6342 9182
- 10: 11S MS 6709 9332
- 11: 11S MS 6645 9604
- 12: 11S MS 5413 9853
- 13: 11S MS 5530 0325 (R600)
- 13: 11S MT 6099 0073 (R800)

## Alternate:

- 14: 11S MS 4935 9280 (101)
- 15: 11S MS 5062 9907 (HOLF)
- 16: 11S MT 5300 0121 (CREEK CROSSING)
- 17: 11S MT 5565 0325 (R700 CROSSING)



# RANGE SPECIAL INSTRUCTIONS

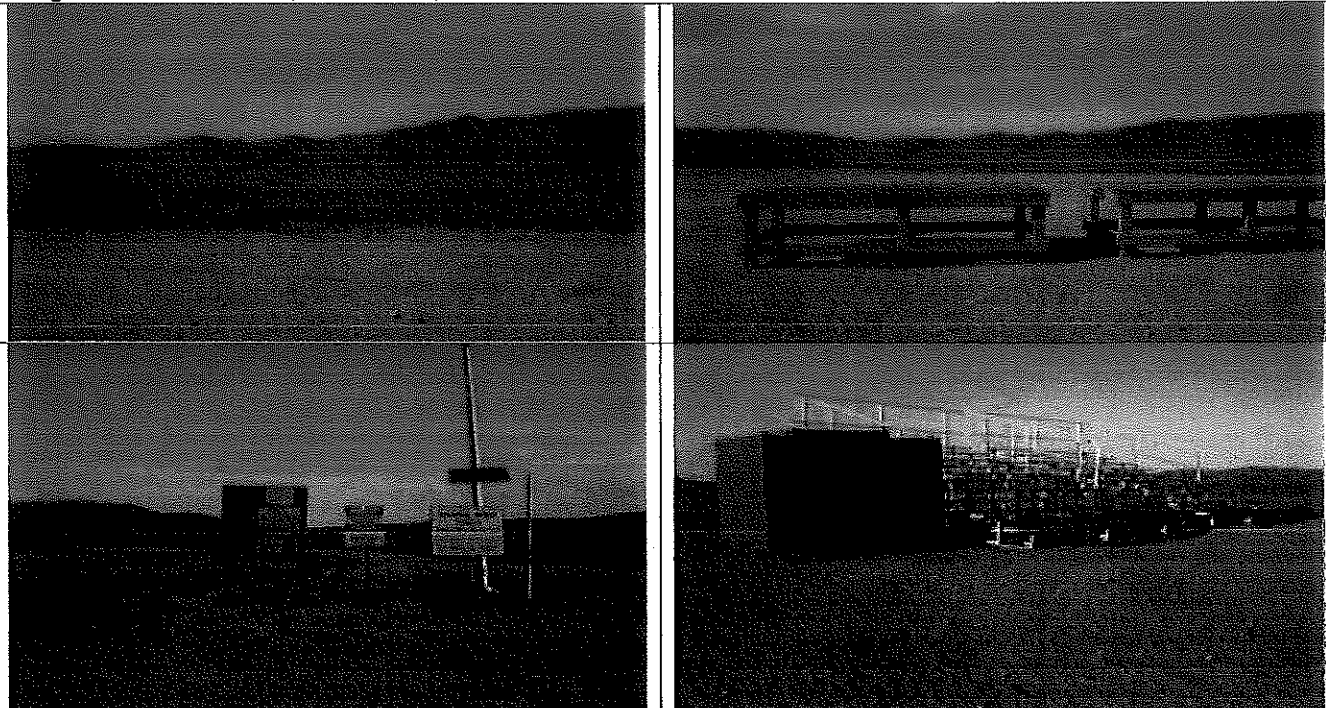
Date Revised – 11 February, 2020

**Face to Face is NOT Require Prior to Going Into a Hot Status**

Face to Face is NOT Require Prior to Going Into a Hot Status			
<b>Range:</b> R-408A	<b>Location:</b> 65229 91667	<b>Allowable Weapons</b> 155mm - Arty Direct Fire 120mm Main Tank - (TP-T Only) 25mm (TP-T/TPCSDS-T Only) Infantry Rockets - All Carl Gustaf (HE & HEDP Only) TOW – HEAT & Inert Javelin GM Rifles - .50 caliber and below Machineguns - .50 caliber and below No SLAP/SLAP-T Service Shotguns & Service Pistols - (See Scheduling) MK19 – 40mm All 40mm Shoulder Fired Weapons – (See Scheduling) M257 Smoke Grenade Launcher Infantry Mortars - All	<b>Vehicles:</b>  1. Road & River Report Dependent.  2. Maximum of five (5) POVs are Authorized to park in parking lot area with or without a POV pass.  3. POVs are not authorized when Artillery, Mortars, Rockets/Missiles are present.
<b>Elevation:</b> 575' AMSL	<b>Impact Area:</b> Zulu/ Whiskey		
<b>Troop Penetration:</b> Prohibited			
<b>Type:</b> Tank & Fighting Vehicles	<b>Engagement Distance:</b> Min – 10 Meters Max – 4,000 meters		

**THIS IS NOT CONTRACTOR SUPPORTED RANGE**

**Range Facilities:** Bleachers, Ammo tables, Ammo shelters



## Scheduling

- Unit shall utilize RFMSS to schedule range.
- Scheduling of this range for the firing of shoulder fired 40mm, Infantry Rockets, Service Shotguns or Service Pistols must be done concurrently with heavy weapons.**
- Final scheduling of this facility must be approved by MCB Camp Pendleton Range Scheduling.

Closed To Any Use	Facility May Still Be Used With Restrictions	Facility Must Check Fire ALL Weapons
<b>Facility Occupied, or in Training/Live Fire Status</b>		
<b>Effects to R-408A</b>		
A-R220 (W)	C/F 155MM DIRECT FIRE & .50 CAL (A606)	
A-R220 TACP OP JACOB	C/F 155MM DIRECT FIRE & .50 CAL (A606)	
A-R220 TACP OP M	C/F 155MM DIRECT FIRE & .50 CAL (A606)	
A-409A TACP	L/F TOW @R408A CLOSSES 409A TACP	
A-R440 (Z)	CHECK FIRE	
A-R440 TACP	CHECK FIRE	
A-R440 URBAN TACP	CHECK FIRE	
IMP WHISKEY	C/F 155MM DIRECT FIRE & .50 CAL (A606)	

Special Instructions Continued on Next page

ENCLOSURE (43)

## RANGE AND TRAINING REGULATIONS

Facility Occupied, or in Training/Live Fire Status	Effects to R-408A
IMP ZULU	CHECK FIRE
R- 223B	CHECK FIRE TOW
R-408B	CHECK FIRE RKTS, MK19, TOW FOR DWN RNG MVT @R408B
R-409A RFA	CHECK FIRE TOW & CARL GUSTAV
R-800	CHECK FIRE 155MM DIRECT FIRE
AFA 21 DPICM	CLOSED
AFA 30 HIMARS	CLOSED
AFA 31 DPICM	CLOSED

### OIC/RSO Requirements

1. A safety Brief shall be conducted prior to each live fire event to all participants.
2. All personnel shall wear required PPE during all training events.
3. Tanks/LAVs/TOW/Artillery/40mm HEDP/Rockets
  - a. OIC Requirement – GySgt or Above
  - b. RSO Requirement –SSgt or Above
4. Small Arms-.50 Caliber & below/40mm TP
  - a. OIC Requirement – SSgt or Above
  - b. RSO Requirement – Sgt or Above
5. No Munitions
  - a. OIC Requirement – None
  - b. RSO Requirement – Cpl or Above
6. LASER (If Used) LRSO Requirement –Sgt or Above
7. Weapons Qualified PSOs
  - a. **Daylight** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **FOUR** Marines.
  - b. **Night** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **TWO** Marines.

### Range Guards, Signs and Gates

1. **Range Guards and Gates:**  
Range 409A RFA Gate/RG at 66118 95703
  - a. Range 409A RFA Gate/RG is required when firing TOW/Javelin Missiles.
  - b. Range 409A RFA Gate/RG can be locked with a Unit provided lock. If using Unit does not have a lock, Range 409A RFA Gate/RG must be posted.
  - c. **Range Guards shall be posted in pairs of two with two-way radio communication with the RSO**
  - d. No traffic or personnel shall enter R408A without the OIC's or RSO's permission.
  - e. Range Guards are required when firing weapon systems with a back blast at the entrance at 65229 91677

### .50 Caliber and below Rifles / Machine Guns (No SLAP/SLAP-T)

.50 Caliber Below Static Fire	10 Meter BZO/Qualification
<ol style="list-style-type: none"> <li>1. Cross firing is not being conducted.</li> <li>2. All setting of T&amp;E's and Tripods are conducted and report to the OIC.</li> <li>3. Guns are laid in with a compass and verified by the RSO.</li> <li>4. Positive stops are used to prevent firing out of the approved SDZ.</li> <li>5. All tripods are sandbagged.</li> <li>6. The use of Tracers are FDR Dependent.</li> <li>7. <b>Firing Line</b> 65128 91781 to 65201 91917 <b>Lateral Limits:</b> LLL: 300° mag RLL: 311° mag</li> </ol>	<ol style="list-style-type: none"> <li>1. All setting of T&amp;E's and Tripods are conducted and report to the OIC.</li> <li>2. Guns are laid in with a compass and verified by the RSO.</li> <li>3. Positive stops are used to prevent firing out of the approved SDZ.</li> <li>4. All tripods are sandbagged.</li> <li>5. All M249/M240G BZO and 10 meter qualification can use pallets set on the firing line.</li> <li>6. Any engineer stakes used for pallets must be placed on the outside edges of the pallets.</li> <li>7. The firing line is backed off the target line IAW TM's for BZO and 10 meter 7.62mm qualifications.</li> <li>8. The use of Tracers must be FDR Dependent.</li> </ol>
.50 Caliber and Below Defllade	Target Line
<ol style="list-style-type: none"> <li>1. <b>Firing Box</b> 65233 91808 to 65271 91973 to 65163 91845 to 65201 91917</li> <li>2. <b>Lateral Limits:</b> LLL: 300° mag RLL: 311° mag</li> </ol>	<p>65128 91781 to 65201 91917</p> <p><b>Firing Line</b> 65137 91776 to 65210 91912</p> <p><b>Lateral Limits:</b> LLL: 300°mag RLL: 311°mag</p>

Special Instructions Continued on Next page

ENCLOSURE (C3)

## RANGE AND TRAINING REGULATIONS

### Shoulder Fired 40mm

1. **When conducting Shoulder Fired 40mm Training the RSO Must Ensure:**
  - a. Personnel are instructed in the proper use of grenade launchers and applicable safety precautions before firing with live ammunition.
  - b. Protective helmet and body armor or PPE Level 1 (Marine Corps) is worn when firing HE ammunition. Requirement for eye protection must be determined by the commander as part of the risk management process.
  - c. Single hearing protection is worn within 2 meters of firing these grenade launchers.
  - d. That the minimum target engagement for MK32, M79, M203, and M320 grenade launchers firing HE ammunition is 130m or 165 m, depending on type of ammunition.
  - e. All duds are reported to LONGRIFLE.
  - f. Targets are engaged only at ranges greater than 75m with training practice (TP) ammunition.
2. **Firing Data:**  
**Firing Line**  
 65128 91781 to 65201 91917  
**Lateral Limits:**  
**LLL: 296° mag**  
**RLL: 311° mag**

### MK-19

Static	Defilade
<ol style="list-style-type: none"> <li>1. Targets are engaged only at ranges greater than 75 meters with training practice (TP) ammunition.</li> <li>2. Targets are engaged only at ranges greater than 310 meters with High Explosive (HE) ammunition.</li> <li>3. Gunners, crew members, and other personnel at the firing position are wearing protective helmet, eye/ear protection, and body armor (PPE Level 1) at all times when firing HE ammunition.</li> <li>4. <b>Firing Data:</b>  <b>Firing Line</b>                      65140 91803 to 65201 91917  <b>Lateral Limits:</b>  <b>LLL: 296° mag</b>  <b>RLL: 311° mag</b> </li> </ol>	<ol style="list-style-type: none"> <li>1. Targets are engaged only at ranges greater than 75 meters with training practice (TP) ammunition.</li> <li>2. Targets are engaged only at ranges greater than 310 meters with High Explosive (HE) ammunition.</li> <li>3. Gunners, crew members, and other personnel at the firing position are wearing protective helmet, eye/ear protection, and body armor (PPE Level 1) at all times when firing HE ammunition.</li> <li>4. <b>Firing Data:</b>  <b>Start Firing Line</b>                      65181 91799 to 65233 91899  <b>Cease Firing Line</b>                      65153 91825 to 65201 91917  <b>Lateral Limits:</b>  <b>LLL: 300° mag</b>  <b>RLL: 311° mag</b> </li> </ol>

### Rockets

#### Carl Gustaf- NO HEAT Rounds

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <b>MAAWS (Carl Gustaf)</b> <ol style="list-style-type: none"> <li>a. Prone firing of MAAWS HE or TP ammunition is not authorized.</li> <li>b. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>c. All personnel within a <b>100 meters</b> radius of the MAAWS must wear double hearing protection.</li> <li>d. All personnel within <b>101-500 meter</b> radius of the MAAWS must wear single hearing protection.</li> <li>e. All personnel within a <b>20 meters</b> radius of the MAAWS must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> <li>3. <b>AT-4 HE</b> <ol style="list-style-type: none"> <li>a. Prone or foxhole firing of AT-4 HE (M136) is not authorized.</li> <li>b. In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.</li> <li>c. All personnel within a <b>20 meters</b> radius of the <b>AT4</b> must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>2. <b>SMAW HE</b> <ol style="list-style-type: none"> <li>a. During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.</li> <li>b. All personnel within a <b>100 meters</b> radius of the <b>SMAW firing HE</b> type rounds must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> <li>c. All personnel within <b>390 meter</b> radius of the <b>SMAW</b> must wear single hearing protection.</li> </ol> </li> <li>4. <b>LAW HE</b> <ol style="list-style-type: none"> <li>a. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>b. All personnel within a <b>20 meters</b> radius of the <b>LAW</b> must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> |
|---|--|

#### Firing Data

1. **Firing Line**  
 65128 91781 to 65201 91917  
**Lateral Limits:**  
**LLL: 296° mag**  
**RLL: 311° mag**

Special Instructions Continued on Next page

ENCLOSURE (GP)

# RANGE AND TRAINING REGULATIONS

## TOW - HEAT & Inert / JAVELIN GM

1. **When conducting TOW/JAVELIN:**
2. **For all TOW/JAVELIN:**
  - a. All TOW/JAVELIN firing must be conducted from the far right side of the firing line.
  - b. OIC/RSO must ensure that TOW/JAVELIN Gunners only engage authorized TOW/JAVELINE targets.
  - c. Maximum of two vehicles/launchers must be allowed on the line at one time.
  - d. TOW wire must be cut and recovered after firing is secured.
3. **Firing Data:**

**Firing Line**  
65191 91900 to 65201 91917

**Lateral Limits:**  
**LLL:** 307°mag  
**RLL:** 314°mag

## Mortar and Artillery Firing Data

1. **When conducting Mortar or Artillery Training the RSO must ensure:**
  - a. POV's do not enter MP- R408A even if they have a range pass.
  - b. To report, to LONGRIFLE the Max Ord and charge to be fired.
  - c. The Max Ord remains within the scheduled Airspace and must be at least 1000 Feet below any FW Aircraft transitioning over the Impact Area.
  - d. That the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards for Mortars.
  - e. To check the FDC/Gun line Safety-T's. Safety-T shall be on hand with each gun.
  - f. Mortar and Artillery Position engage targets utilizing the data contained in this brief.
  - g. Mortars fire registration fires that shall be verified by the RSO prior to the exercise.
  - h. Base Plates shall be marked at 11 o'clock and aiming stakes shall be left in place after registration.
2. **During all powder burning activities:**
  - a. Increment Burning shall be IAW CAMPENO 3500.1A
  - b. Units must contact LONGRIFLE for permission prior to burning increments.
  - c. Powder shall be burned in areas cleared to mineral earth, and located no closer than 200 feet from vegetation.
  - d. Unit must not exceed 100 increments or 40 bags at any one time while burning.
  - e. Units must have fire extinguishers, water, and shovels at the burn site.
  - f. Units must remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation.
  - g. Units must contact LONGRIFLE after last increment or bag has burned and 30 minutes has passed.

60mm Mortars Handheld	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 450 meters Max Range- 1,300 meters Max Charge- 1 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64826 92125 to 64909 92207 to 64396 92885 to 64156 92648
60mm Mortars	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 1,000 meters Max Range- 3,300 meters Max Charge- 4 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64392 92464 to 64577 92646 to 63189 94479 to 62579 93879
81mm Mortars	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 1,000 meters Max Range- 3,300 meters Max Charge- 2 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## 155mm- Arty Direct Fire

155mm Artillery	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 1645 mils grid RLL: 1790 mils grid Min Range- 800 meters Max Range- 1,600 meters Max Charge- 3 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64550 92341 to 64682 92474 to 64184 93100 to 63919 92833

Special Instructions Continued on Next page

ENCLOSURE (63)



## RANGE AND TRAINING REGULATIONS

### LAV System

1. **DO NOT GO PAST THE ESTABLISHED FIRING LINE.**
2. **Cross-lane firing is prohibited.**
3. RSO must assign left & right lateral limits to each individual and/or weapons system/platform.
4. Personnel must NOT be within the 25mm SDZ or forward of the 2<sup>nd</sup> road wheel of LAV-25.
5. **Firing Data:** 25 mm TP-T & TPDS-T only  
**Firing Line –**  
65128 91781 to 65201 91917  
**Lateral Limits:**  
LLL: 300°mag  
RLL: 311°mag

### Main Tank System

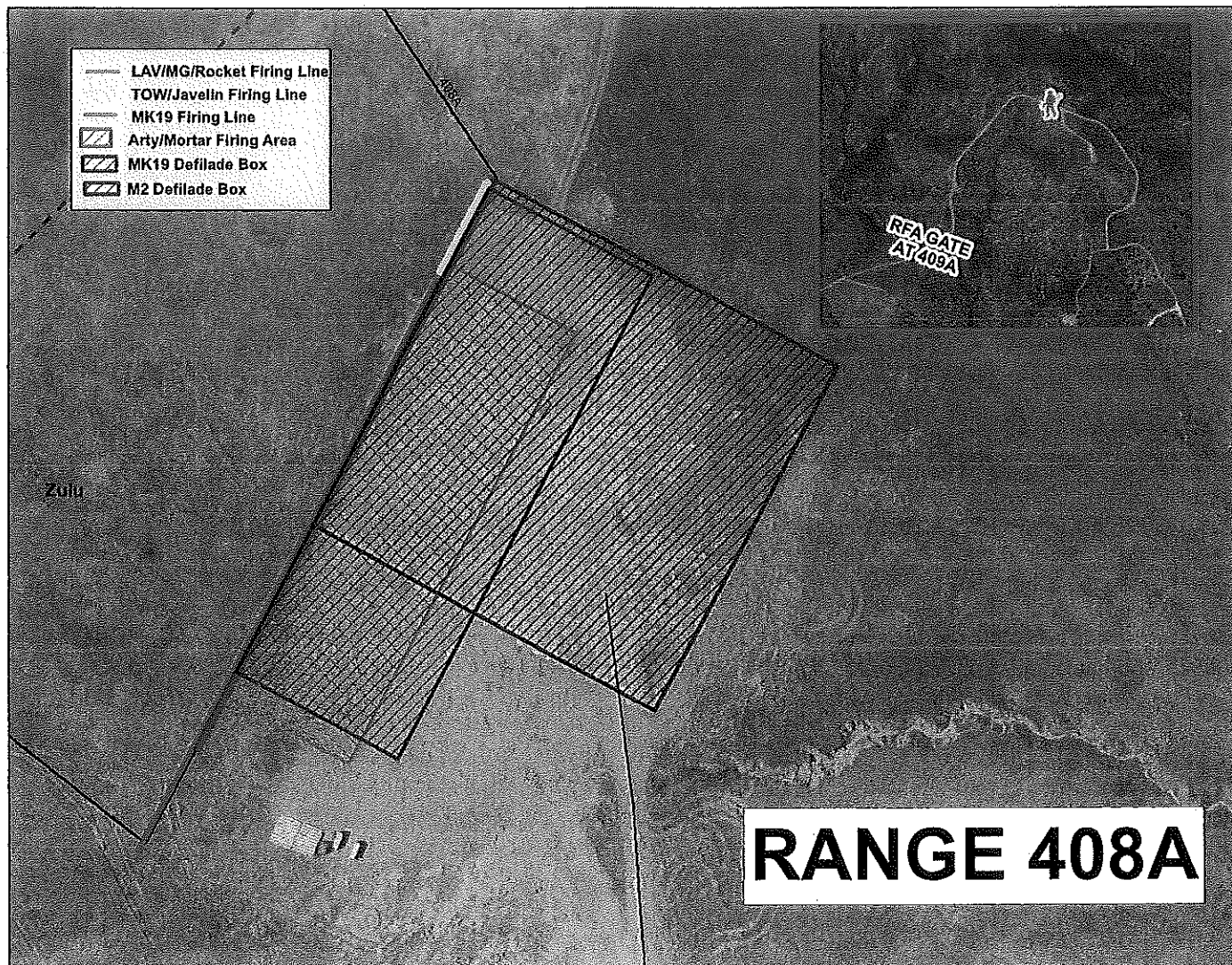
**Firing Data:** TP-T Only  
**Firing Line –**  
65128 91781 to 65201 91917  
**Lateral Limits:**  
LLL: 300°mag  
RLL: 311°mag  
**Elevation for 120mm will not exceed 5 degrees.**

### During Armored Vehicles Live Fire, The Following Flag Display System Must Be Used

1. **Red** – Weapons are loaded, on target, weapon arm switch is on fire, and manual safety is off.
2. **Green** – All weapons are cleared and elevated, weapon arm switch is on safe and manual safety is off. No ammunition on vehicle.
3. **Yellow & Red** – Malfunction or misfire, weapon arm switch is on safe and manual safety is on or Ammunition on vehicle
4. **Yellow & Green** – Malfunction, weapons are clear, weapon arm switch is on safe and manual safety is on, no ammunition on vehicle.
5. **Red & Green** – Crew preparing to fire or crew is conducting non-firing exercise, ammunition is either stowed or loaded in ready boxes.
6. Regardless of displayed flags, the RSO must physically verify all weapons are clear prior to any movement of vehicles or reporting to LONGRIFLE that Weapons are clear.

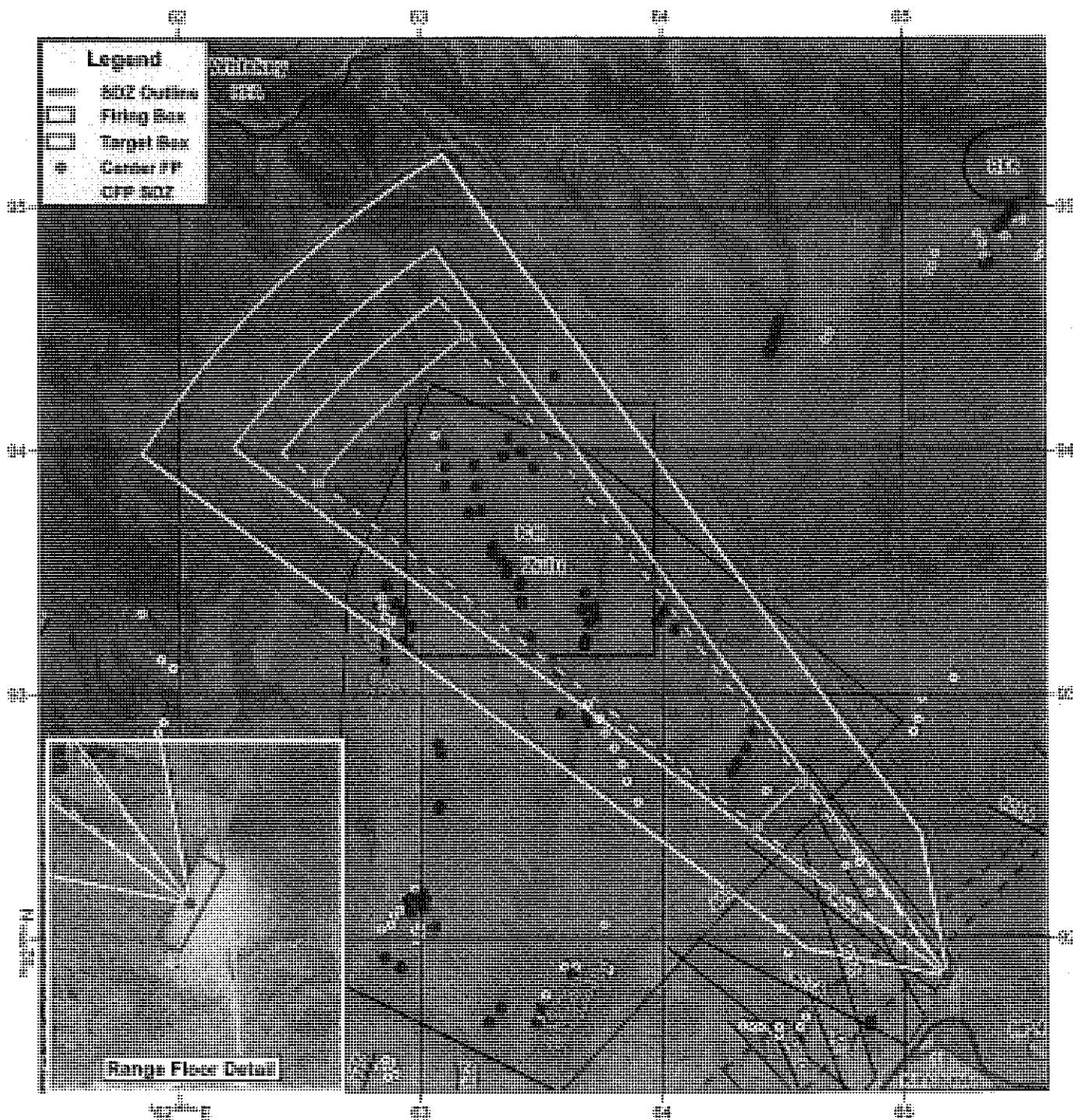
Special Instructions Continued on Next page

ENCLOSURE (63)



# Weapon Type: 60mm MORTARS

Map Scale = 1:22,662



Weapon: 60mm Mortars  
 Ammo: HE M720/M734 MOF  
 DODIC: B642  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 60mm Min Range: 1,000 meters  
 60mm Max Range: 3,300 meters  
 Max Charge: 4  
 Charge 4 Distance X: 3,489 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

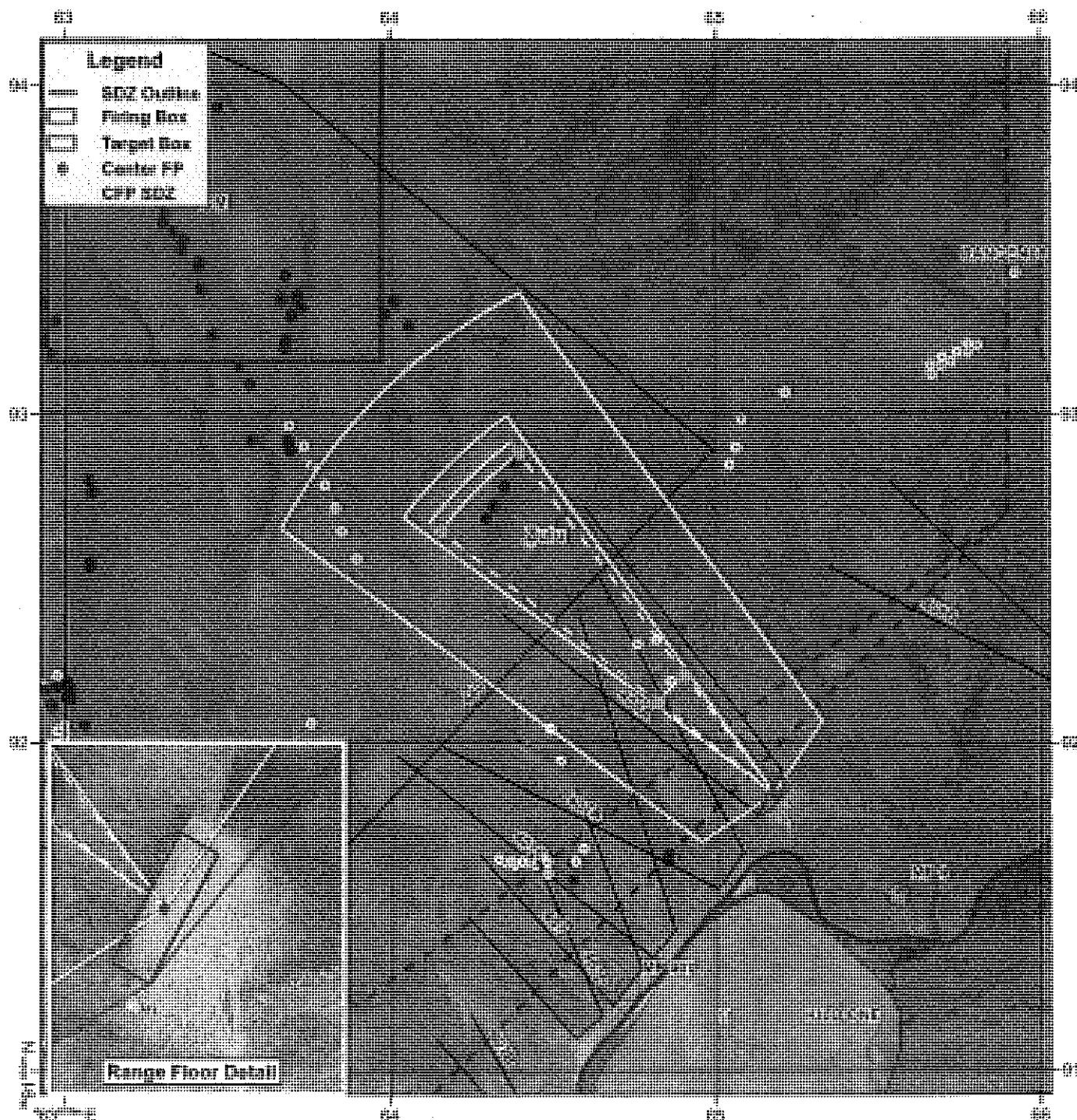
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ENCLOSURE (68)

# Weapon Type: 60mm Handheld MORTARS

Map Scale = 1:16,864



Weapon: 60mm Handheld Mortars  
 Ammo: HE M720/M734 MOF  
 DODIC: B642  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 60mm Min Range: 450 meters  
 60mm Max Range: 1,300 meters  
 Max Charge: 1  
 Charge 1 Distance X: 1,342 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64826 92125 to 64909 92207 to 64396 92885 to 64156 92648

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

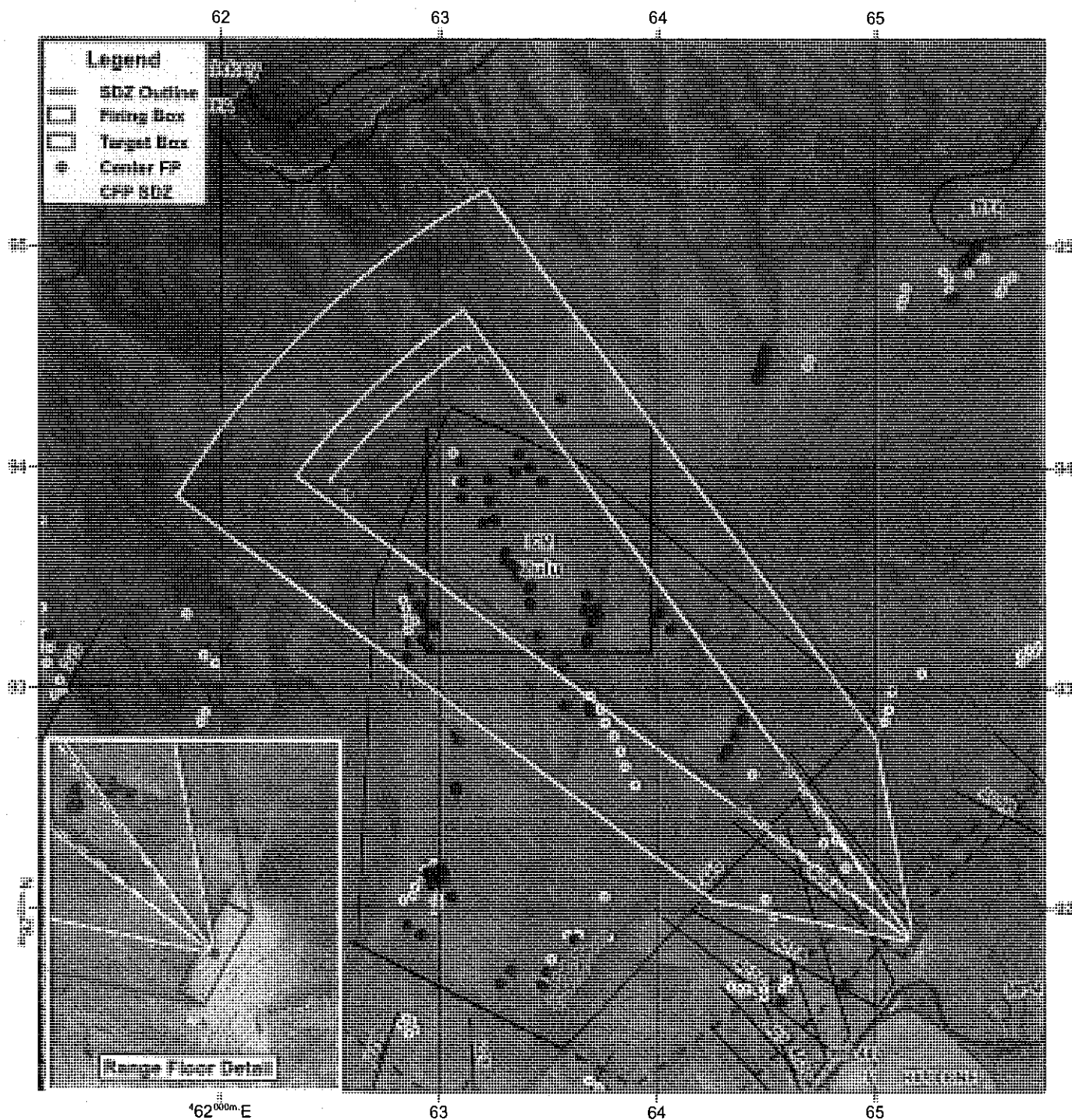
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ENCLOSURE (61)



# Weapon Type: 81mm MORTARS Map Scale = 1:25,000



Weapon: 81mm Mortars  
 Ammo: HE M821 w/M734 MO Fuze  
 DODIC: C868  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 81mm Min Range: 1,000 meters  
 81mm Max Range: 3,300 meters  
 Max Charge: 2  
 Charge 2 Distance X: 3,400 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## MP-408A Zulu

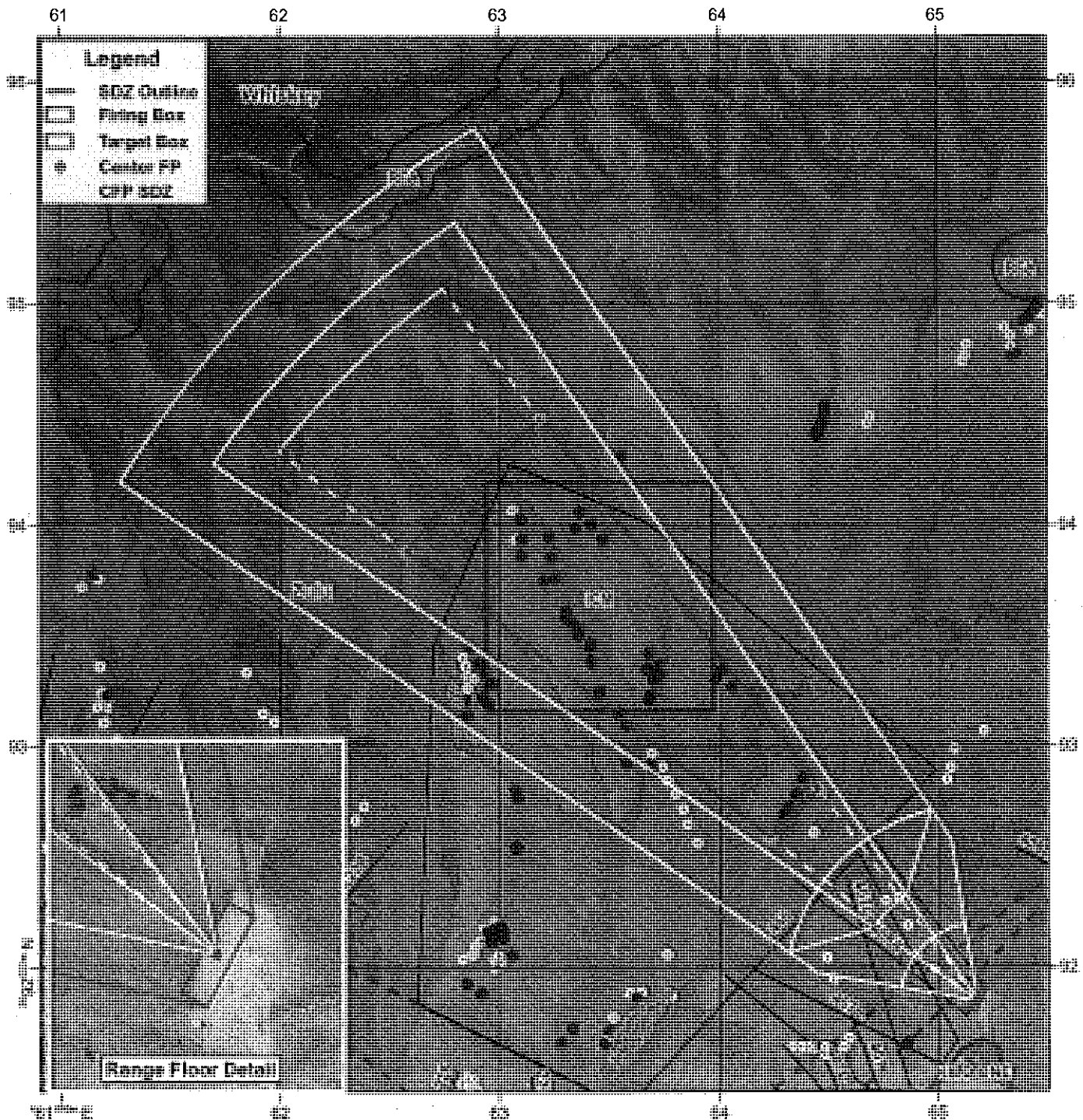
- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

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 Approving /

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ENCLOSURE (43)

# Weapon Type: 120mm RIFLED MORTARS Map Scale = 1:25,000



Weapon: 120mm Mortars  
 Ammo: M1101 HE  
 DODIC: CA45  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 81mm Min Range: 1,200 meters  
 81mm Max Range: 3,300 meters  
 Max Charge: 2  
 Charge 2 Distance X: 4,037 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64235 92587 to 64456 92805 to 63189 94479 to 62579 93879

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

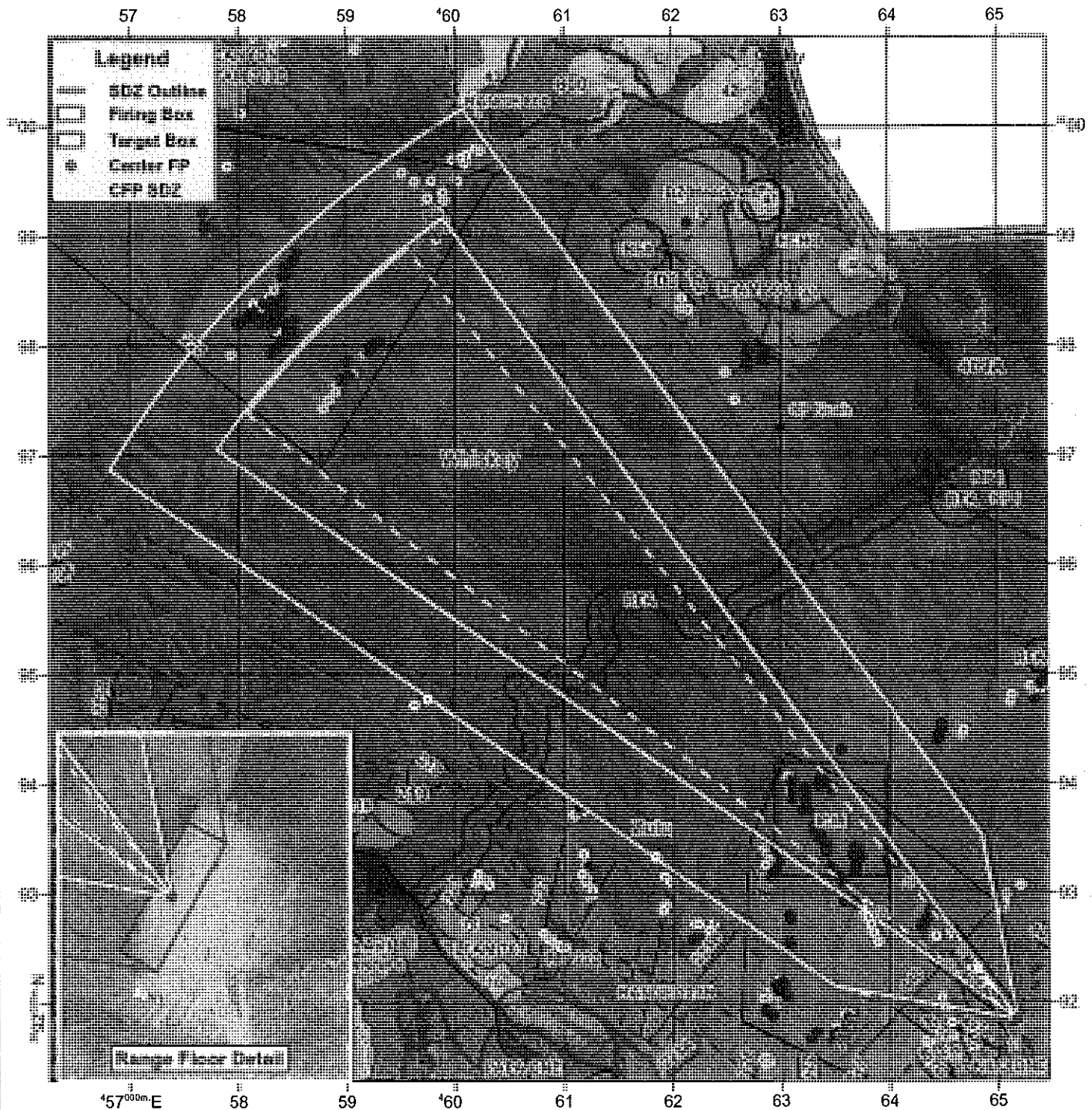
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ENCLOSURE (23)

# Weapon Type: ARTILLERY

Map Scale = 1:50,000



Weapon: 155 mm  
Center Firing Point: 65181 91848  
Left Lateral Limit: 1645 mils Grid  
Right Lateral Limit: 1790 mils Grid  
Max Range: 1,600 Meters  
Min Range: 800 Meters  
Max Charge: 3  
Charge 3 Distance X: 9,000  
FP Elevation: 570 Feet AMSL  
Impact Area: Zulu/Whiskey

OIC shall report to LONGRIFLE:  
Max Ord & Charge to be fired, any HE/WP/Smoke rounds falling short into RFA  
Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
Firing Gun Line Must Remain Within Firing Box Boundaries  
Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
Target Box Boundaries  
Target Box Boundaries: 64550 92341 to 64682 92474 to 64184 93100 to 63919 92833

## MP-408A Zulu

Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.

When shooting High Angle Fires above 15,000 Ft, R2503C restricted airspace must be requested and approved.

Range Guards must be posted to prevent entry into Area E. #1 - 65234 91677

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Approving /

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ENCLOSURE (63)

# RANGE SPECIAL INSTRUCTIONS

Date Revised: 03 March, 2020

## FACE TO FACE IS REQUIRED WITH RANGE SAFETY

TESTING OF ANY FIRING DEVICE MUST ONLY BE DONE AT THE DESIGNATED FL

ALLSHOTS GREATER THAN 5 LBS. NEW MUST CANNOT BE FIRED WITHOUT HEAVY EQUIPMENT ON HAND

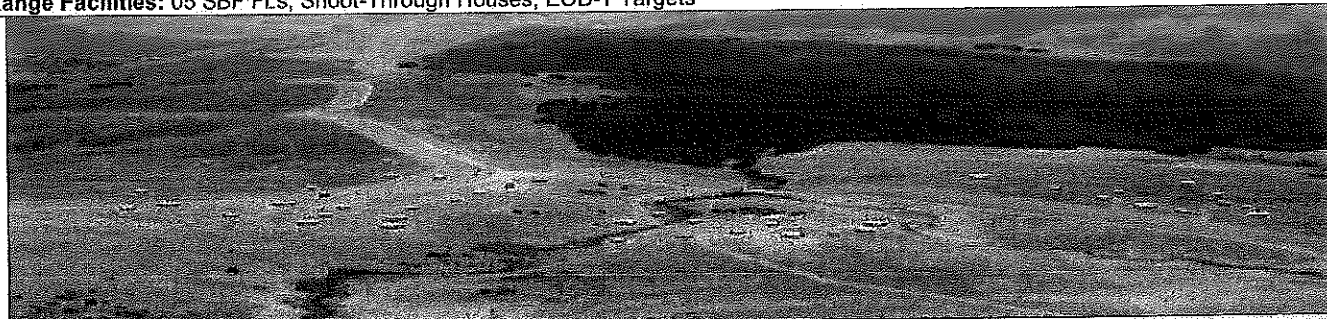
If Training Unit Will Be Utilizing TRP #1 to Fire 60mm & 81mm Mortars, HE Rockets, or APOBS

NLT 14 days from start of training event, unit must contact MCB EOD IOT Schedule a Post Training Clearance Inspection

<b>Range:</b> R800	<b>Location:</b> 60994 00730	<b>Allowable Weapons</b>	<b>Vehicles:</b>
<b>Elevation:</b> 2,340' AMSL	<b>Impact Area:</b> Whiskey & Yankee	25mm - (TP only) Shotguns - (All) 40mm - (All) Infantry Rockets - (All) Mortars - (All) MG's - .50 caliber and below (No Slap-T) Rifles - .50 caliber and below (No A606 RAFUS) Pistols - .45 cal. and below (All) Grenades - (All) Demo - 20lbs. NEW, Bangalore's, Claymores, APOBS TOW - (MOIC Only) Javelin - (IGM NOT AUTHORIZE)	1. Road & River Report Dependent.  2. POVs (Trucks) with passes are authorized to park in the Assembly Area ONLY.
<b>Troop Penetration:</b> Not Beyond Footprint of Range			
<b>Type:</b> Offensive Combat Range (platoon)	<b>Engagement Distance:</b> Min - 3 Meters Max - Weapons Dependent		

## CONTRACTOR SUPPORT IS REQUIRED FOR PITS AND ARTS

Range Facilities: 05 SBF FLs, Shoot-Through Houses, EOD-T Targets



### Scheduling

- All scheduling requests for R800 must be submitted via their battalion.
- IOT fire TOW HEAT from SBF #1, unit must schedule R800 TOW in conjunction with R800.
- IOT utilize Aerial Sniper Platform, unit must submit Aerial Sniper Brief Sheet 14 days from event.
- An over-head-fire letter signed by the Battalion Commander (By-Direction NOT authorized) to the RCO MUST be on hand and followed in order to conduct the over-head-fire portion of R800.
- When utilizing TRP #1 to Fire 60mm & 81mm Mortars, HE Rockets, or APOBS, NLT 14 days from start date of training event, unit must contact MCB EOD IOT schedule a post training clearance inspection.
- Inspection MUST occur between 0800 -1600
- MCB EOD contact information is:
  - EOD Duty Team Leader Cell Phone (b)(2)
  - EOD Duty Team Leader Cell Phone
  - EOD Shop - (b)(2)
  - MCB\_CamF
- Units must schedule separately a non-training day on the back end to conduct the required post training clearance inspection.
- The scheduling unit must include the email from MCB EOD in the communications tab of the request.
- Requests not meeting this requirement or stating that they will not be utilizing TRP #1 to Fire 60mm & 81mm Mortars, HE Rockets, or APOBS will be disapproved.
- Unit must utilize RFMSS to schedule range.

### Contractor Support

- Contractor support is at NO COST to the unit.
- Contractor support is REQUIRED to be scheduled if the unit intends to use PITS, LaRue or ARTS.
- The PITS, LaRue and ARTS Target support times MUST be scheduled in RFMSS, utilizing the "USER FIELDS" tab.
- If unit fails to schedule contractor times, use of PITS, LaRue and ARTS will NOT be authorized.
- Once the range is requested and approved:
  - Request ARTS via [MCB\\_CAMPEN\\_AUTONOMOUS\\_ROBOTIC\\_TARGETS@usmc.mil](mailto:MCB_CAMPEN_AUTONOMOUS_ROBOTIC_TARGETS@usmc.mil)
  - Request PITS or LaRue targets via the <https://qtss.katmai.com/secured/request.php> (website cannot be accessed from a MCEN computer at this time and must be visited from a commercial device in order to submit requests until further notice).
- The request for PITS, LaRue or ARTS must be received a minimum of 48 hours prior to the scheduled use of the range.
- Contractor has 24 hours to ensure this request is supportable (personnel to set-up the range are available, targets are available, and batteries are charged) and they need 24 hours to arrange the site-survey with the unit.
- Any requests submitted with less than 48 hours are not supportable.
- For further information concerning contractor support, contact (b)(2)

Special Instructions Continued on Next page

ENCLOSURE (63)



## RANGE SPECIAL INSTRUCTIONS

Closed To Any Use		Facility May Still Be Used With Restrictions	Facility Must Check Fire ALL Weapons
Facility Occupied, or in Training/Live Fire Status		Effects to R800	
A-ACA ECHO		CHECK FIRE (UNLESS ISO OR ALT SEP)	
A-CALS 09		CLOSED	
A-CALS 10		CHECK FIRE MP BLUE	
A-ACA YANKEE		CHECK FIRE (UNLESS ISO OR ALT SEP)	
A-IP CASE		CHECK FIRE (UNLESS ISO OR ALT SEP)	
A-LZ BUZZARD		CLOSED	
A-LZ SWALLOW		CLOSED	
A-R220 (W)		CHECK FIRE (EXCEPTION, EOD RENDER SAFE OPERATIONS UP TO 20LBS NEW IN TRP #1)	
A-R220 TACP OP M		CHECK FIRE (IF UNIT AT R-800 IS CONTROLLING AIR, THE UNIT MUST MOVE TO THE FORWARD LINE OF TROOPS BOUNDARY. IF UNIT IS NOT CONTROLLING AIR, UNIT MUST MOVE TO AA. MP RED AT R800 IS AUTHORIZED TO MARK FOR AIR PER RANGE REGS)	
A-TF C MNVR		CHECK FIRE (UNLESS ISO OR ALT SEP)	
I-IMP WHISKEY		CHECK FIRE	
I-IMP YANKEE		CHECK FIRE	
I-IMP ZULU		CHECK FIRE	
R-600		CHECK FIRE TOW HEAT	
R-800 TOW		CLOSES (UNLESS SAME UNIT)	
R-AFA 40 (WHISKEY DATA)		CLOSES AERIAL SNIPER	
R-AFA 41 (WHISKEY DATA)		CLOSES AERIAL SNIPER	
R-AFA 42 (WHISKEY DATA)		CLOSES AERIAL SNIPER	
R-AFA 43		CLOSES	
R-AFA 44		CLOSES	
R-AFA C		CLOSES	
R-AFA D		CLOSES	
R-LFAM 600		CHECK FIRE TOW HEAT	
R-LFAM 710B		CLOSES	
R-MFA 05		CHECK FIRE .50 CALIBER	
R-MFA 06		CHECK FIRE	
R-MFA 07		CHECK FIRE TOW HEAT	
R-MFA 09		CHECK FIRE TOW HEAT	
R-HORNO RIDGE		CHECK FIRE	
TA-CYN JARDINE		CHECK FIRE	
TA-OP JACOB		CHECK FIRE TOW HEAT	
TA-OP M		CHECK FIRE TOW HEAT	

### OIC, RSO & PSO Requirements

1. OIC & RSO Requirements -
  - a. Aerial Sniper, 40mm HE, AT Missiles, LAV 25, HEAT Rockets & Live Fire & Movement/Maneuver
    - i. OIC Requirement - **GySgt or Above**
    - ii. RSO Requirement - **SSgt or Above**
  - b. Static Small Arms & TP Ammunition
    - i. OIC Requirement - **SSgt or Above**
    - ii. RSO Requirement - **Sgt or Above**
  - c. No Munitions
    - i. OIC Requirement - **None**
    - ii. RSO Requirement - **Cpl or Above**
    - iii. LASER (If Used) LSSO Requirement - **Sgt or Above**
2. PSO Requirements:
  - a. Weapons Qualified PSOs
    - i. **Daylight** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **FOUR** Marines in maneuver/movement element.
    - ii. **Night** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **TWO** Marines in maneuver/movement element.
    - iii. PSOs shall certify to the OIC that all weapons are in Condition 4 prior to exiting the range.

Special Instructions Continued on Next page

ENCLOSURE (63)

## RANGE SPECIAL INSTRUCTIONS

### Range Guards and Gates

**1. Range Guards and Gates:**

Gate #1 – 61835 00264, Gate #2 – 61452 00656, Gate #3 – 60994 00730, Gate #4 – 60688 00935

- a. The RSO must ensure R800 is clear of all personnel, must insure gates are locked and place Range Guards during the sweep.
- b. Gate #1 to #4 can be locked with a Unit provided locks. Use the Inspectors Lock as a link and secure their lock to the Inspectors Lock. If using Unit does not have locks, Range Guards must be posted.
- c. **Range Guards must be posted in pairs of two with two-way radio communication with the RSO**
- d. No traffic or personnel must enter R800 without the OIC's or RSO's permission.



**2. Signs:**

Sign #1 – 57633 01247, Sign #2 – 57594 01247

- a. Live fire training with TOW HEAT from SBF#1 requires (2) "Do Not Enter, Live Fire in Progress" signs on the road leading from Tate Road to MFA 07/OP Jacob. (See Map)
- b. The RSO must ensure MFA 07/OP Jacob is clear of all personnel prior to TOW HEAT live fire training.

### Lateral Limits Markers

Unit must emplace lateral limit markers for any direct fire position used. Markers must consist of the following:

1. Left Lateral Limit – White Triangle Pointing to the Right 
2. Right Lateral Limit – Red Triangle Pointing to the Left 
3. Signs must be placed at the furthest distance viewable by all shooters and at the firing positions.
4. Lateral Limits can be a designated key terrain features as long as all personnel can recognize and understand the designated features day or night.
5. Only Lateral Limit Markers can be marked with illumination at night.
6. All markers must be laid in by compass from the firing position.

### Targets

1. RSO must maintain communication with the OIC, and control the exposure of any targets.
2. All targets within the Movement Boxes must be knock-down stay-down type targets.
  - a. May only be exposed for **NO MORE** than 30 seconds.
3. All targets must be laid in by compass from the firing position.
4. Units cannot dig outside of the Movement Box; all holes dug must be filled in.
5. **OIC, RSO, and PSOs must ensure all targets are knocked down before allowing any personnel to maneuver past the targets.**

#### Engagement Distance PITS With Shield/No Sandbags

1. Engagements are limited to:
  - a. Service Pistol – 7 meters
  - b. 00 Buck Shotgun – 10 meters.
  - c. 12 Gauge Slug - 46 meters.
  - d. 5.56mm (w/penetrators) – 69 meters
  - e. 5.56mm (Soft Core or Solid copper Alloy) - 23 meters
  - f. 7.62mm – 140 meters
  - g. .50 and .338 caliber – 375 meters.

#### Engagement Distance PITS With Shield & Sandbags

1. Engagements are limited to:
  - a. Service Pistol – 7 meters
  - b. 00 Buck Shotgun – 10 meters.
  - c. 12 Gauge Slug - 25 meters.
  - d. 5.56mm (w/penetrators) – 25 meters
  - e. 5.56mm (Soft Core or Solid copper Alloy) - 10 meters
  - f. 7.62mm – 100 meters
  - g. .50 and .338 caliber – 100 meters

#### Engagement Distance LaRue and ARTS

1. Engagements are limited to:
  - a. Service Pistol – 7 meters
  - b. 00 Buck Shotgun – 10 meters.
  - c. 12 Gauge Slug - 46 meters.
  - d. 5.56mm (w/penetrators) – 69 meters
  - e. 5.56mm (Soft Core or Solid copper Alloy) - 23 meters
  - f. 7.62mm – 140 meters
  - g. .50 and .338 caliber – 375 meters.

Special Instructions Continued on Next page

ENCLOSURE (63)

## RANGE SPECIAL INSTRUCTIONS

### Marking of Targets and Personnel

1. During live-fire training in low-light or darkness, chem-lites may be used to mark either targets or personnel, but not both on the same range.
2. Infrared strobe lights provide an optional method to mark and distinguish personnel from targets.
3. **Units must keep the same marking plan for all subsequent ranges.**
4. Personnel and target markings must be identified in the operations order scheme of maneuver, risk management matrix, and range standard operating procedures.
5. Specific personnel and target markings will be covered in the range safety brief that is given to all personnel, to include the safety personnel (assistant RSOs) participating in the exercise.
6. Consideration must also be given to the use of light-producing equipment such as flashlights with colored lens covers as those different colors cannot be distinguished when using NVDs.
7. When clothing and uniforms are used on targets, the OIC and RSO will ensure these articles do not resemble those worn by participating personnel. Target clothing must remain consistent until live-fire training is completed.
8. Before live-fire training in low-light or darkness, NVDs will be tested for resolution per light-level criteria delineated in appropriate technical or operators manuals.
9. A review of NVD focusing procedures should also be conducted in order that Marines are able to obtain the optimum NVD image.

### EMP/CMP/BZO

1. When conducting EMP/CMP/BZO Training
  - a. All EMP/CMP/BZO Training must be conducted in the depicted Movement/Maneuver box.
  - b. All targets emplaced by the unit must be laid in by compass.
  - c. Steel Targets are not authorized on range for EMP/CMP/BZO.
  - d. All EMP/CMP Targets must be made of softwood uprights with cardboard backing.
  - e. Sandbags must be used on any metal bases. Bases must be made of soft metal.
  - f. Pallets and engineer stakes can be used.
  - g. Engineer stakes must be placed on the outside edges of the pallets.
  - h. No engagement on pallets closer than 7 yards.

### Support By Fire Positions/Sniper Positions/Over-Head-Fire Positions

1. **When conducting 25mm, Sniper .50 cal. and below, Machine Guns .50cal and Below:**
  - a. Cross firing is prohibited.
  - b. RSO must supervise setting of all T&E's and Tripods and report to the OIC.
  - c. Guns must be laid in with a compass verified by the RSO.
  - d. Positive stops must be used to prevent firing out of the approved SDZ.
  - e. All tripods must be sandbagged.
  - a. All SBFs must have a PSO with direct communication to the OIC and RSO.
  - b. SBFs must cease fire prior to any personnel maneuvering past the MSLs.
  - c. The 15° or 100m Rule is in effect.
2. **When conducting Over-Head Fire Training with 7.62 machine guns:**
  - a. RSO must supervise setting of all T&E's and Tripods and report to the OIC.
  - b. Guns must be laid in with a compass verified by the RSO.
  - c. Positive stops for depression and traverse must be used. No Bipods, and no free gunning is allowed.
  - d. All tripods must be sandbagged.
  - e. All Over-Head-Fire Positions must have a PSO with direct communication to the OIC and RSO.
  - f. Over-Head-FPs Machine Guns must test fire prior to any troops maneuvering.
  - g. **Over-Head-Fire Ceases Firing Line must be identified to all personnel.**
  - h. Only 7.62 DODIC A151 ammunition is certified for overhead fire.
  - i. If Anyone Crosses the Over-Head-Fire CFL, Over-Head-FPs must cease firing and be verified they are in condition 4 status.
3. **During Armored Vehicles Live Fire, the following flag display system must be used:**
  - a. **Red** – Weapons are loaded, on target, weapon arm switch is on fire, and manual safety is off.
  - b. **Green** – All weapons are cleared and elevated, weapon arm switch is on safe and manual safety is off. No ammunition on vehicle.
  - c. **Yellow & Red** – Malfunction or misfire, weapon arm switch is on safe and manual safety is on or Ammunition on vehicle
  - d. **Yellow & Green** – Malfunction, weapons are clear, weapon arm switch is on safe and manual safety is on, no ammunition on vehicle.
  - e. **Red & Green** – Crew preparing to fire or crew is conducting non-firing exercise, ammunition is either stowed or loaded in ready boxes.
  - f. Regardless of displayed flags, the RSO must physically verify all weapons are clear prior to any movement of vehicles or reporting to Longrifle that Weapons are clear.

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ENCLOSURE (63)

## RANGE SPECIAL INSTRUCTIONS

SBF/Sniper Positions				
SBF #1	SBF #2	SBF #3	SBF #5 to SBF #4	SBF #4
25mm, Snipers .50cal & Below, MGs .50 Cal & Below 60416 00936 to 60371 00934 LLL 175° mag RLL 204° mag TOW/ Javelin LLL 196° mag RLL 201° mag	25mm, Snipers .50cal & Below, MGs .50 Cal & Below 60939 00639 to 60860 00722 LLL 191°mag RLL 224°mag	25mm, Snipers .50cal & Below, MGs .50 Cal & Below 61322 00600 to 61297 00625 LLL 202°mag RLL 228°mag	40mm shoulder fired and MK19 HE 60800 00000 to 60600 99900 LLL 177°mag RLL 187°mag	TOW/Javelin 60600 99900 LLL 199° mag RLL 207° mag
Over-Head-Fire Position #1		Over-Head-Fire Position #2		
MG 7.62 A151 Only When Firing Over Head of Troops 60930 00360 LLL 217°mag RLL 222°mag CFL		MG 7.62 A151 Only When Firing Over Head of Troops 60750 00490 LLL 202°mag RLL 208°mag CFL		

### Movement Boxes Mongoose & Snake

- Firing Data:**  
**Movement Box Mongoose Data: 7.62mm & 5.56mm**  
SFL 60903 00702 to 59847 01006  
LLL 165°mag  
RLL 192°mag  
CFL 60328 99649 to 60104 99830  
**Movement Box Snake Data: 7.62mm & 5.56mm**  
SFL 61825 00256 to 60903 00700  
LLL 198°mag  
RLL 242°mag  
CFL 60328 99649 to 60104 99830
- Impact Area TRP #1: (60mm & 81mm Mortars, HE Rockets, HE Grenades, APOBS, Claymore)**  
60608 99789 to 60105 99970 to 59823 99395 to 59716 99522

### Rockets

**HE Rockets must only engage hard targets or targets placed by unit within Impact Area TRP#1**

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| <ol style="list-style-type: none"> <li><b>MAAWS (Carl Gustaf)</b> <ol style="list-style-type: none"> <li>Prone firing of MAAWS HE or TP ammunition is not authorized.</li> <li>Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>All personnel within a <b>100 meters</b> radius of the MAAWS must wear double hearing protection.</li> <li>All personnel within <b>101-500 meter</b> radius of the MAAWS must wear single hearing protection.</li> <li>All personnel within a <b>20 meters</b> radius of the MAAWS must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> <li><b>AT-4 HE</b> <ol style="list-style-type: none"> <li>Prone or foxhole firing of AT-4 HE (M136) is not authorized.</li> <li>In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.</li> <li>All personnel within a <b>20 meters</b> radius of the AT4 must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li><b>SMAW HE</b> <ol style="list-style-type: none"> <li>During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.</li> <li>All personnel within a <b>100 meters</b> radius of the <b>SMAW firing HE</b> type rounds must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> <li>All personnel within <b>390 meter</b> radius of the <b>SMAW</b> must wear single hearing protection.</li> </ol> </li> <li><b>LAW HE</b> <ol style="list-style-type: none"> <li>Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>All personnel within a <b>20 meters</b> radius of the <b>LAW</b> must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> |
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ENCLOSURE (43)

## RANGE SPECIAL INSTRUCTIONS

### Grenades

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| <p><b>1. Shoulder Fired Grenade Launcher:</b></p> <ul style="list-style-type: none"> <li>a. M203/M32 40mm TP must only be used in the Movement Boxes.</li> <li>b. M203/M32 40mm TP may be utilized firing at targets no closer than 75m.</li> <li>c. 40mm TP rounds are unauthorized for use on PITS Targets.</li> <li>d. PITS targets must be no closer than 25 meters to any 40mm target and protected on all sides from fragmentation.</li> <li>e. M203/M32 40mm HEDP must only be fired from <b>SBF #4 to SBF #5</b> Firing Lines at targets no closer than 165m.</li> </ul> | <p><b>2. Hand Grenades:</b></p> <ul style="list-style-type: none"> <li>a. Prior to the approval and use of chemical grenades, unit must submit an Overlay showing 500m and 1000m buffers. Any approval will be based on single canister use.</li> <li>b. Unit must set up a practice grenade area within the depicted graphics of R800.</li> <li>c. Only practice grenades must be used within the practice grenade area.</li> <li>d. All personnel must be proficient in the safety precautions for handling and throwing grenades before live grenade training begins.</li> <li>e. Successful completion of practice grenade training is mandatory prior to live grenade training.</li> </ul> |
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- 3. HE Hand Grenades:**
- a. **HE Hand Grenades are allowed anywhere within Impact Area of TRP #1.**
  - b. All personnel within the 150m SDZ must wear (PPE Level 1) flak jacket, helmet, hearing protection, and ballistic eye protection
  - c. eye protection
  - d. Hand grenades must be thrown from a trench or barrier equivalent to a screen of sandbags 2 feet thick and built to a minimum height of 5 feet high and 9 feet wide or wide enough to accommodate one thrower and one ARSO.
  - e. The range safety officer must directly supervise and control the throwing of fragmentation grenades.
  - f. Hand grenades must be carried in accordance with FM 23-30, individuals must not be transported by vehicle while carrying grenades attached to web equipment.
  - g. **HE grenades must be thrown one at a time and into the Impact Area of TRP #1 only.**
  - h. Firing conditions for fragmentation and offensive grenades safety clips on fragmentation and practice grenades must not be removed until immediately before the safety pin is removed. Once the safety pin has been pulled, the grenade must be thrown. No attempt must be made to reinsert the safety pin or tape the safety lever (spoon). The safety lever must not be released for any reason on HE grenades until the grenade exits the throwing hand at the command of the ARSO.
  - i. Mixing of practice grenades and HE grenades is unauthorized.
  - j. PITS targets must be no closer than 25 meters and protected on all sides from fragmentation.
  - k. Training will NOT be conducted when there is standing water, mud, or dense vegetation in the impact area of TRP#1.
  - l. Grenade ranges must cease training one hour prior to sunset. In the event a dud grenade is not cleared before reduced light conditions, the using unit must provide a guard force until the grenade can be cleared.
- 4. Dud Grenade:**
- a. A dud fragmentation grenade must be reported immediately to LONGRIFLE. A cease-fire must go into effect immediately. Accurately note the time of the dud, as Explosive Ordnance Disposal personnel must wait thirty minutes prior to clearing the dud.
  - b. If a dud grenade is experienced, all activities within Maneuver Box area must stop, personnel must remain within a safe area for a minimum of 5 minutes and then evacuate to the AA until EOD clears the dud.
  - c. EOD personnel must destroy all grenade duds in place before troops can enter the grenade impact area.
  - d. EOD personnel are unable to locate or destroy any dud grenades; troop maneuver in the Impact Area of TRP #1 is not authorized.

### Handheld 60mm Mortars

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| <ul style="list-style-type: none"> <li>1. Firing mortars over the heads of troops is not authorized.</li> <li>2. PPE Level 1 must be worn.</li> <li>3. May only be fired in the hand-held mode with a charge NO greater than charge 1.</li> <li>4. Handheld mortars must only be fired into Impact Area TRP#1 and Impact Area TRP#2.</li> </ul> |
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Special Instructions Continued on Next page

ENCLOSURE (23)

## RANGE SPECIAL INSTRUCTIONS

### APOBS AND Claymores

1. **The RSO must verify to the OIC.**
  - a. Unit must construct a wall utilizing sand bags 2' high x 4' wide along the firing line to protect the firing team from missile hazards caused by APOBS or claymores.
  - b. All APOBS & Claymores must be placed in the **Impact Area of TRP #1** (Only 1 APOBS or Claymore must be fired one at a time).
  - c. Only the OIC/RSO and the firing team are at the FP and behind the sandbag wall prior to firing the claymore or APOBS.
  - d. OIC/RSO must ensure claymore or APOBS are deployed correctly and facing into the **Impact Area of TRP #1** utilizing the data below.
  - e. All claymore or APOBS must be secured until the range OIC directs their issue.
  - f. Emplaced claymore or APOBS must not be disarmed except by order of the range OIC.
  - g. Firing devices must only be connected at the command of the range OIC.
  - h. After firing, the unit must inspect to ensure that the claymore or APOBS has detonated.
  - i. Misfires must be handled in accordance with TC 3-22.23 and FM 23-23.
  - j. Personnel must not be allowed within 16m to the rear of the claymore or APOBS.
  - k. CLAYMORE firing personnel may occupy an area between 16 and 100 meters to the rear of the claymore they must be located in a covered position, lying prone in a depression, or behind a physical barrier.
  - l. APOBS firing personnel must be in a prone position, at least 50 meters from the launch point, and 75 meters from the deployed grenades. All personnel inside of Noise Hazard Arc must wear hearing protection.
  - m. All personnel must wear approved protective helmets, IBA and single hearing protection.

### Use of Shoot Through Houses

1. **Houses Must Not Be Engaged With Machine Guns, Rockets, Grenades, 40mm or Mortars.**
  - a. Rifles 7.62mm and below and Pistols only are the only authorized weapons for engagements of and within the shoot through houses.
  - b. The OIC and RSO must accompany personnel as they execute both the rehearsal and the live fire scenario.
2. **Target Placement :**
  - a. All targets are to be placed inside or around buildings IAW the lateral limits listed for the movement boxes.
  - b. Targets must not be placed on a seam.
  - c. **PITS or La Rue targets cannot be placed inside houses that are being cleared.**
3. **While conducting rehearsals and live fire with small arms, the RSO must ensure:**
  - d. **No one must engage a target that is closer than 1 meter from any muzzle.**
  - e. Phase Lines and MSLs must be verified and marked.
  - f. At no time must any personnel cross any Phase Line or MSL until the effective element has ceased firing.
4. **While utilizing flash bangs, the RSO must ensure:**
  - a. Flash Bangs must be carried in pouches.
  - b. Throwing flash bangs in or around any standing water or mud is unauthorized.
  - c. Throwing more than one flash bang at a time into the same room is unauthorized.
  - d. Human target participation is not authorized.
  - e. Once a pin is pulled on a flash bang, it must not be reinserted into the flash bang.
5. **GG20 Flash Bangs:**
  - a. The maximum number of GG20 Flash Bangs to be thrown by an individual thrower are (2) with single hearing protection and (4) with double hearing protection.
  - b. No one must be closer than 5 meters (16.5 feet) of detonation.
6. **GG36 Flash Bangs:**
  - a. RSO must reference SOUM 4-15 prior to conducting any training with GG36 Flash Bangs.
  - b. **Double hearing protection is required** within 9 meters of point of detonation.
  - c. **Single hearing protection is required** outside of 9 meters to 155 meters from point of detonation.
  - d. The individual daily exposure limits with the GG36 Flash Bangs are (50) within the 9 meters of detonation hazard area.
  - e. The individual daily exposure limits with the GG36 Flash Bangs are (150) within the 9 meters to 155 meters from point of detonation hazard area.
  - f. No one must be closer than 5 meters (16.5 feet) of detonation.

### Use of Shoot Through Houses - Breaching

1. **At no time must a breach be placed in any manner or location in which it would damage any Shoot through House.**
2. **Mechanical Breaching**
  - a. All mechanical breaching must be conducted utilizing tools from issued breaching kits.
3. **Thermal/ Saws**
  - a. FDR Dependent.
4. **Ballistics Breaching**
  - a. Ammunition must only be issued per event.
  - b. All ballistic breaching must be directed 45° down into the room.
  - c. Only commercial breaching rounds must be used.
  - d. **Wooden uprights and targets are to be supplied by the using unit.**
  - e. **When utilizing AA54**
    - i. Double hearing protection (earplugs & muffs) and eye protection (goggles) must be worn by all personnel firing AA54 and by all personnel within 8.5 meters of the firing in close proximity to a reflective surface.

Special Instructions Continued on Next page

ENCLOSURE (63)

## RANGE SPECIAL INSTRUCTIONS

### Use of Shoot Through Houses - Breaching

- ii. All personnel within 8.5 meters to 30 meters of the firing point must wear single hearing protection (earplugs or muffs).
- iii. If using actual doors, only solid wood core wooden doors with a minimum of 1 3/4 inches thick must be used.
- iv. Units must provide a minimum of 2 inches of protection to the lock area.
- 5. **Explosive Breaching** – A breaching Brief must be conducted with the RCO NLT 14 days prior to event.
  - a. All breaches must be set on doors and frames provided by the by the using unit that are mounted to reduce any hazards to the building.
  - b. **Approved framing must consist of:**
    - i. 1/2 inch plywood covering entire threshold, sides and overhead of doorway.
    - ii. 2x4 placed to form a frame on plywood covering.
    - iii. Only use plywood 3/4 inches to construct "doorway".
    - iv. Unit must provide their own target material.
  - c. **During breaching operations:**
    - i. Field expedient urban breaches must be (duel primed) and at no more than .18 lbs. NEW.
    - ii. Max Ord is 207 feet for vertical or fragmentation hazard.
    - iii. A maximum K – Factor of 18 (3.5 PSI) must be utilized and all personnel.
    - iv. Double hearing protection required for all PSIs at or above 1.68.
    - v. All personnel must be set in position prior to initiating the breach.
    - vi. A safety Brief must be conducted prior to each live fire event to all participants.
    - vii. Each breach must be inspected and approved by the RSO.
    - viii. The RSO & OIC must personally observe each live fire event.
    - ix. Time fuse must be cut and tested by the RSO. (30 Sec. Min. Time)
    - x. Any Electrical System must be tested by RSO.
    - xi. Only breacher rounds must be used for shotguns.
    - xii. Shielding required for all breaches (i.e. Blast Shield, Bomb Blanket, placing breaching team around corner, etc.)
    - xiii. CPU required when using any lead lined charges.
- 6. **There must be additional safety personnel assigned as follows:**
  - a. A PSO must travel with each breaching team.
  - b. Each PSO must have positive communication with the RSO.
  - c. The RSO must check each shot, looking for unconsumed explosives prior to departing the range.
  - d. All unconsumed explosives must be policed-up and consolidated for one last clean-up shot prior to the range going cold (Not to exceed .25 lbs. NEW).
  - e. All unused blasting materials must be retrieved upon completion of training, and must be returned to the Las Pulgas ASP.
  - f. All target materials which were used (blown) during training must be policed-up and taken back with the unit.
  - g. Live Fire signs must be posted at all times when the SACON House is hot as depicted in the graphics.
  - i. **The OIC is responsible for all charges, and ensuring all misfire procedures is in compliance with current directives.**

### Mortar Firing Data

- 1. **When conducting Mortar Training:**
  - a. There is no troop penetration beyond the firing line into the impact area. Units are prohibited from crossing the firing line into the impact area to set up targets or aiming stakes.
  - b. All MSLs must be marked and identified to all personnel before live fire training occurs.
  - c. No POV's must enter R800 even if they have a range pass.
  - d. OIC must report to LONGRIFLE the Max Ord and charge to be fired.
  - e. Max Ord must remain within the scheduled Airspace and must be at least 1000 Feet below any FW Aircraft transitioning over the Impact Area.
  - f. RSO must ensure that the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards.
  - g. RSO is required to check the FDC/Gun lines Plotting Boards and Safety-T's.
  - h. Safety-T must be on hand with each gun.
  - i. **Mortar Position must engage targets utilizing the data contained in this brief.**
  - j. All mortars must fire registration fires that must be verified by the RSO prior to the exercise.
  - k. Base Plates must be marked at 11 o'clock and aiming stakes must be left in place after registration.
- 2. **During all powder burning activities:**
  - a. Increment Burning must be IAW CAMPENO 3500.1A.
  - b. Units must contact LONGRIFLE for permission prior to burning increments.
  - c. Powder must be burned in areas cleared to mineral earth, and located no closer than 200 feet from vegetation.
  - d. Unit must not exceed 100 increments at any one time while burning.
  - e. Units must have fire extinguishers, water, and shovels at the burn site.
  - f. Units must remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation.
  - g. Units must contact LONGRIFLE after last increment has burned and 30 minutes has passed.

Special Instructions Continued on Next page

ENCLOSURE (63)



## RANGE SPECIAL INSTRUCTIONS

MP Red	MP Blue
<b>TRP #1</b> 60390 00940 <b>LLL: 3025 mils grid</b> <b>RLL: 3635 mils grid</b> <b>Min Range- 1025 meters</b> <b>Max Range- 1650 meters</b> <b>Max Charge- 1</b> <b>Elev- 2,288' AMSL</b> <b>Cease-Firing Before Crossing Any MSL Described Below.</b> <b>RED 60mm and 81mm MSL 1 from MP RED Dir: 131°m to grid:</b> <b>60959 00182 then Dir: 155°m.</b>	<b>TRP #1</b> 58928 01376 <b>LLL: 2460 mils grid</b> <b>RLL: 2985 mils grid</b> <b>Min Range- 1820 meters</b> <b>Max Range- 2230 meters</b> <b>Max Charge- 2</b> <b>Elev- 1,780' AMSL</b> <b>Cease-Firing Before Crossing Any MSL Described Below.</b> <b>Blue 60mm and 81mm MSL 1 from MP BLUE from 59812 01017</b> <b>Dir: 125°m.</b>
<b>TRP #2</b> 60390 00940 <b>LLL: 3670 mils grid</b> <b>RLL: 3860 mils grid</b> <b>Min Range- 1550 meters</b> <b>Max Range- 1825 meters</b> <b>60mm Max Charge 2 &amp; 81mm Max Charge 1</b> <b>Elev- 2,288' AMSL</b> <b>Cease-Firing Before Crossing Any MSL Described Below.</b> <b>RED 60mm and 81mm MSL 2 from MP RED Dir: 167°m to grid:</b> <b>60395 99992 then Dir: 194°m.</b>	<b>TRP #2</b> 58928 01376 <b>LLL: 2765 mils grid</b> <b>RLL: 3000 mils grid</b> <b>Min Range- 1785 meters</b> <b>Max Range- 2700 meters</b> <b>Max Charge- 2</b> <b>Elev- 1,780' AMSL</b> <b>Cease-Firing Before Crossing Any MSL Described Below.</b> <b>Blue 60mm and 81mm MSL 2 from MP BLUE 60083 99919 Dir:</b> <b>144°m.</b>

### Aerial Sniper Platform (7.62 mm Rifles and Below Only)

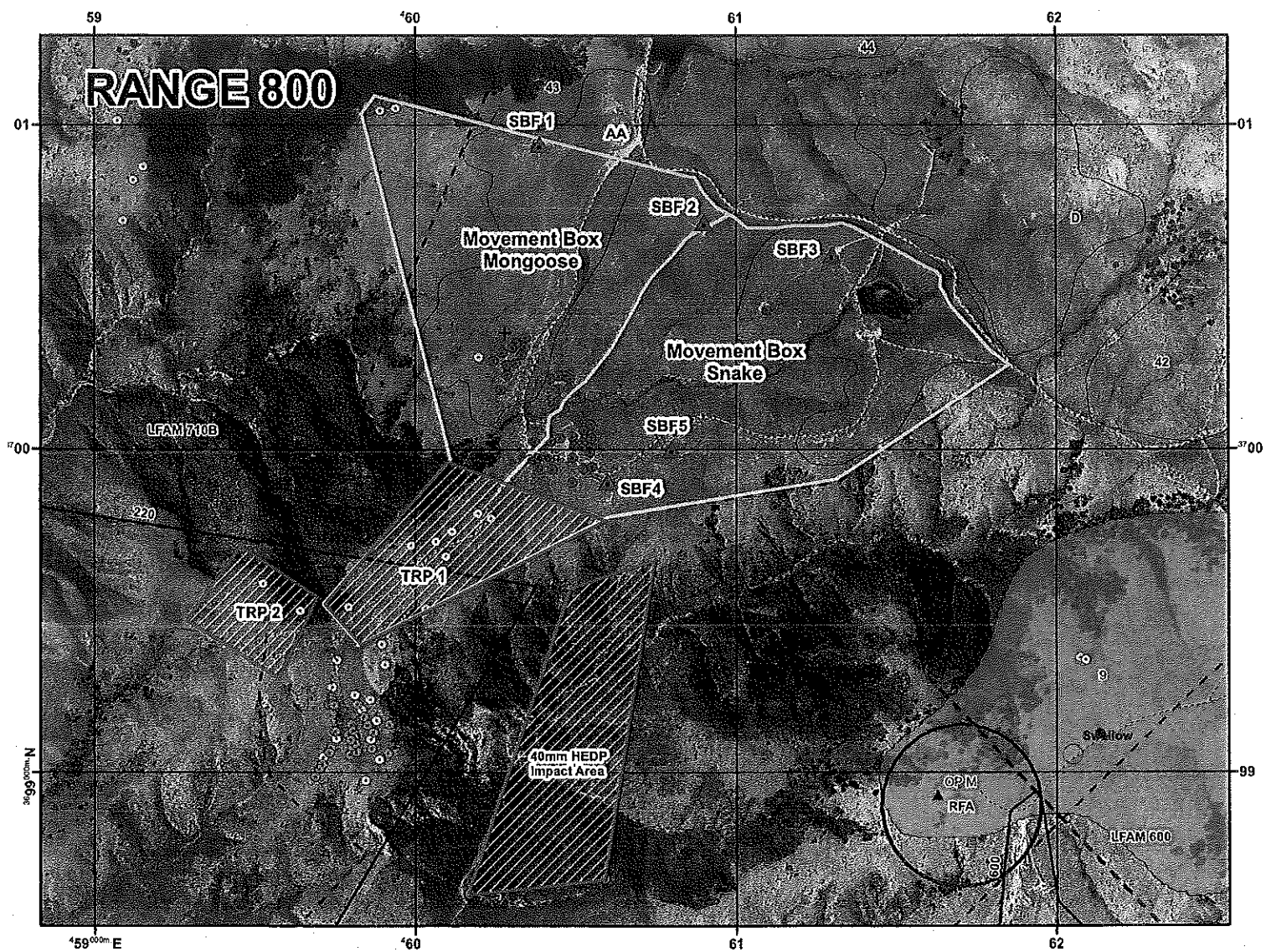
1. **Aerial Sniper Data:**
  - a. At no time must any Sniper fire begin outside of the Firing Area. OIC must ensure that all Sniper Fire impacts within the depicted Target Box.
  - b. OIC must ensure that all flight of aircraft remain in the depicted Run-In Box and Target Box.
  - c. RSO must maintain communication with the OIC, and control the exposure of any targets.
  - d. OIC and RSO must brief all shooters to ensure no damage to any target mechanism is caused by any shot.
  - e. All personnel must conduct a non-live fire rehearsal prior to conducting live fire scenarios.
  - f. PSOs must be assigned to each A/C or team.
  - g. PSOs must certify to the OIC that all weapons are in Condition 4 prior to exiting the range.
2. **Aircraft:**

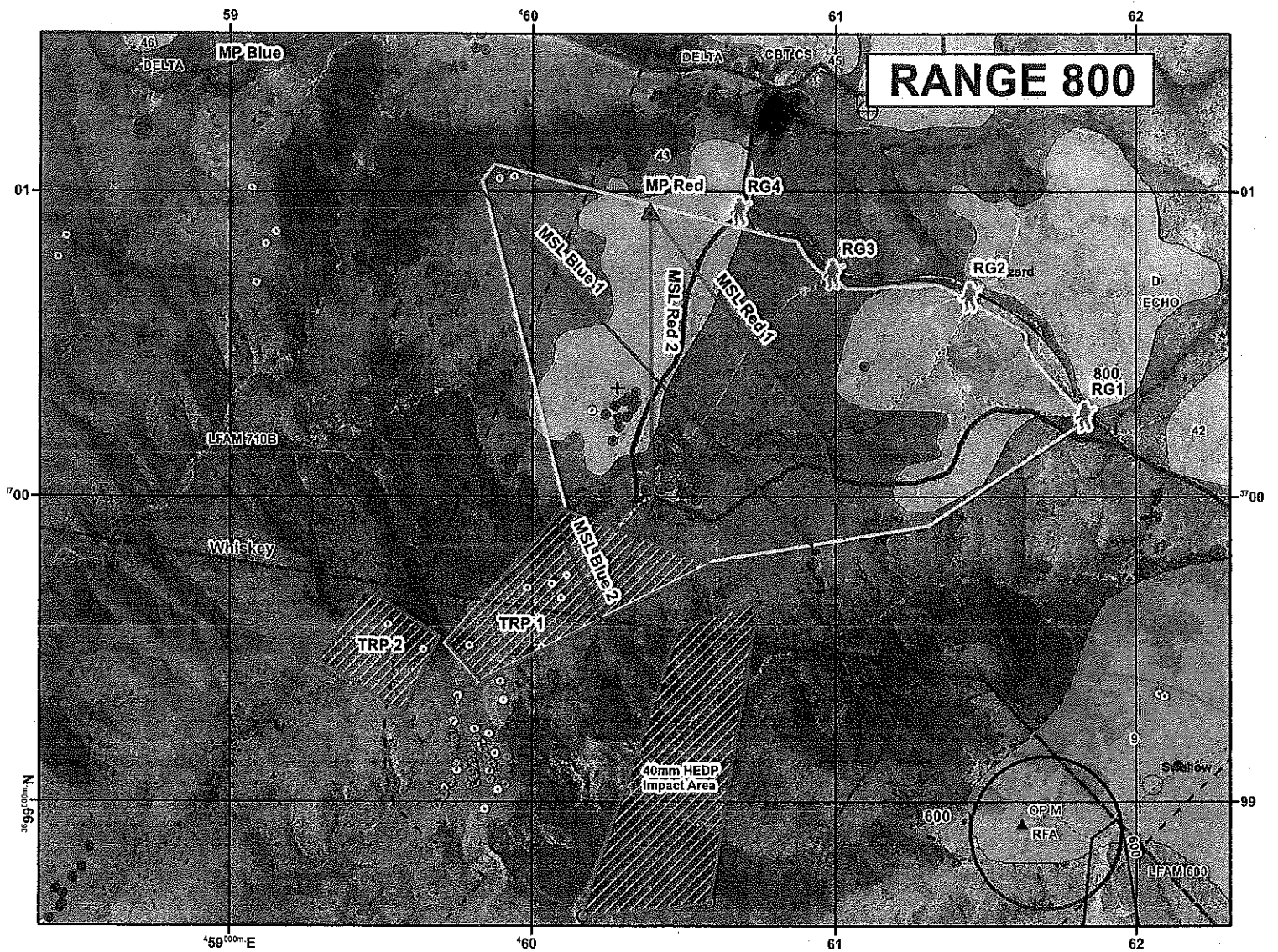
Airspeed: 0-10 KTAS  
Altitude: 50 to 200 ft. AGL  
Release Angle: Min -14 to Max -1  
Firing Area: Boundaries  
#1 - 60200 00284 #5 - 60554 99947  
#2 - 60346 00345 #6 - 60494 99898  
#3 - 60485 00217 #7 - 60385 99947  
#4 - 60549 00075 #8 - 60269 00185  
Release Range: Max 600  
Final Attack Heading: 208°mag-242°mag  
**Range Lateral Limits**  
**LLL: 198° mag**  
**RLL: 242° mag**

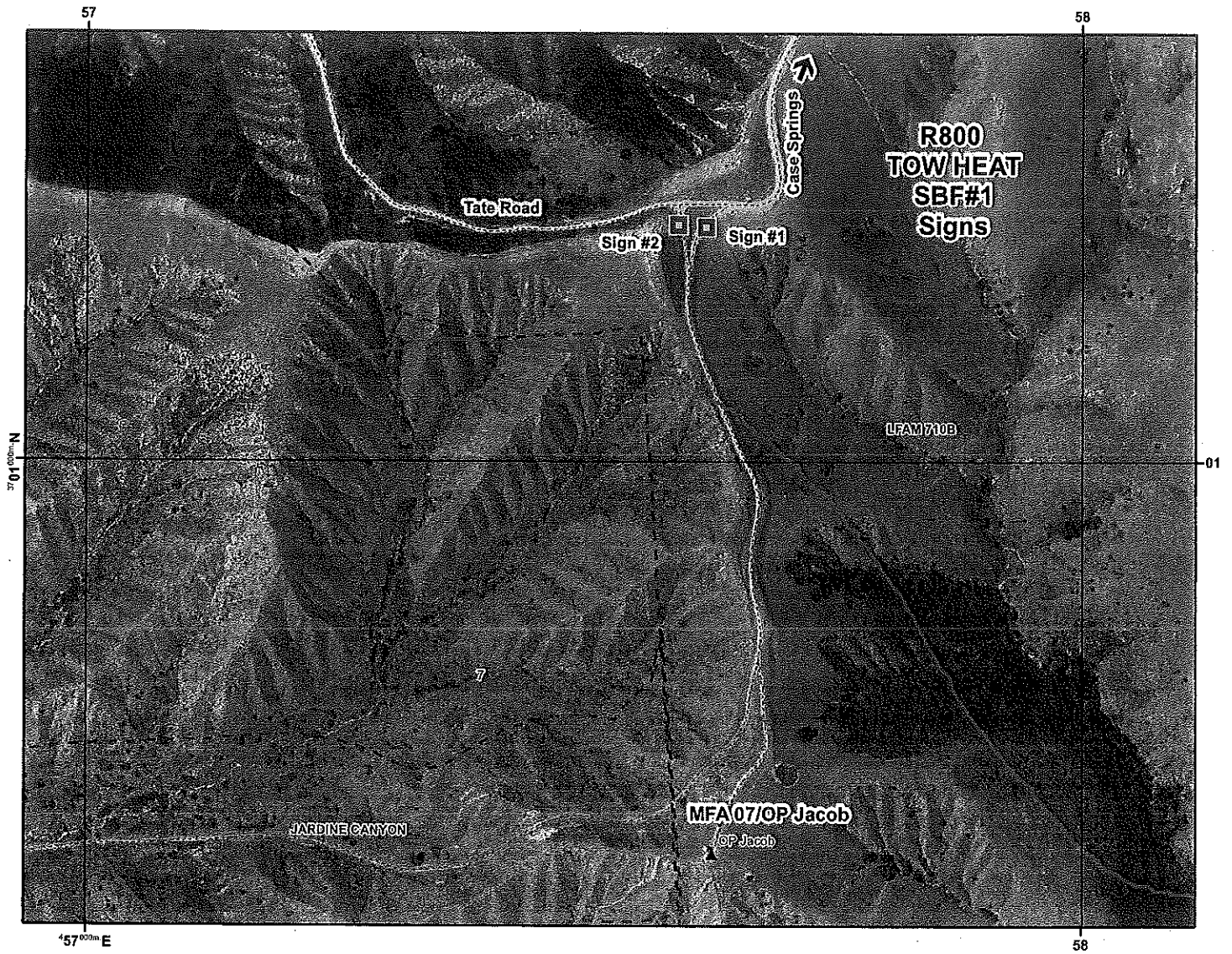
Special Instructions Continued on Next page

ENCLOSURE (63)

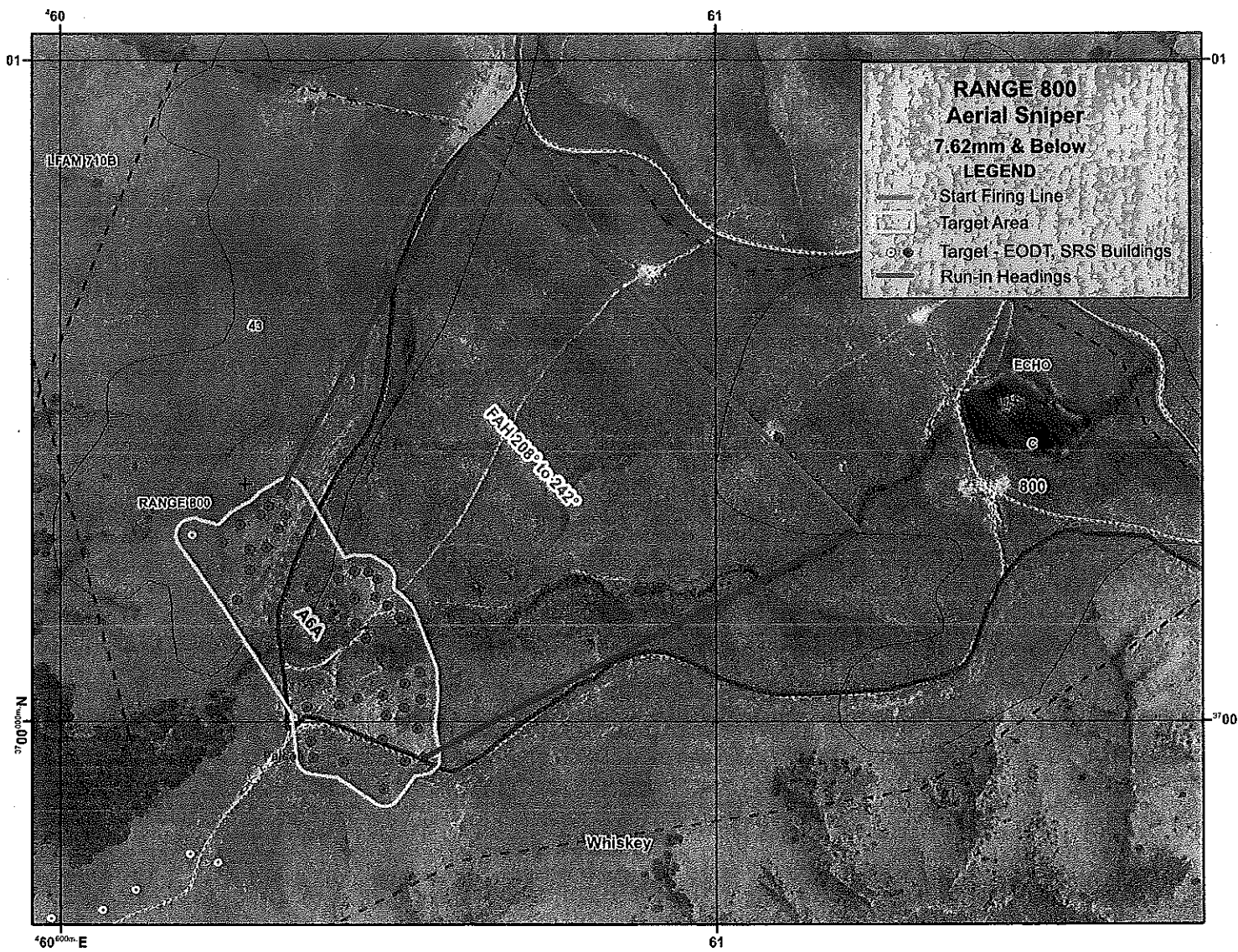


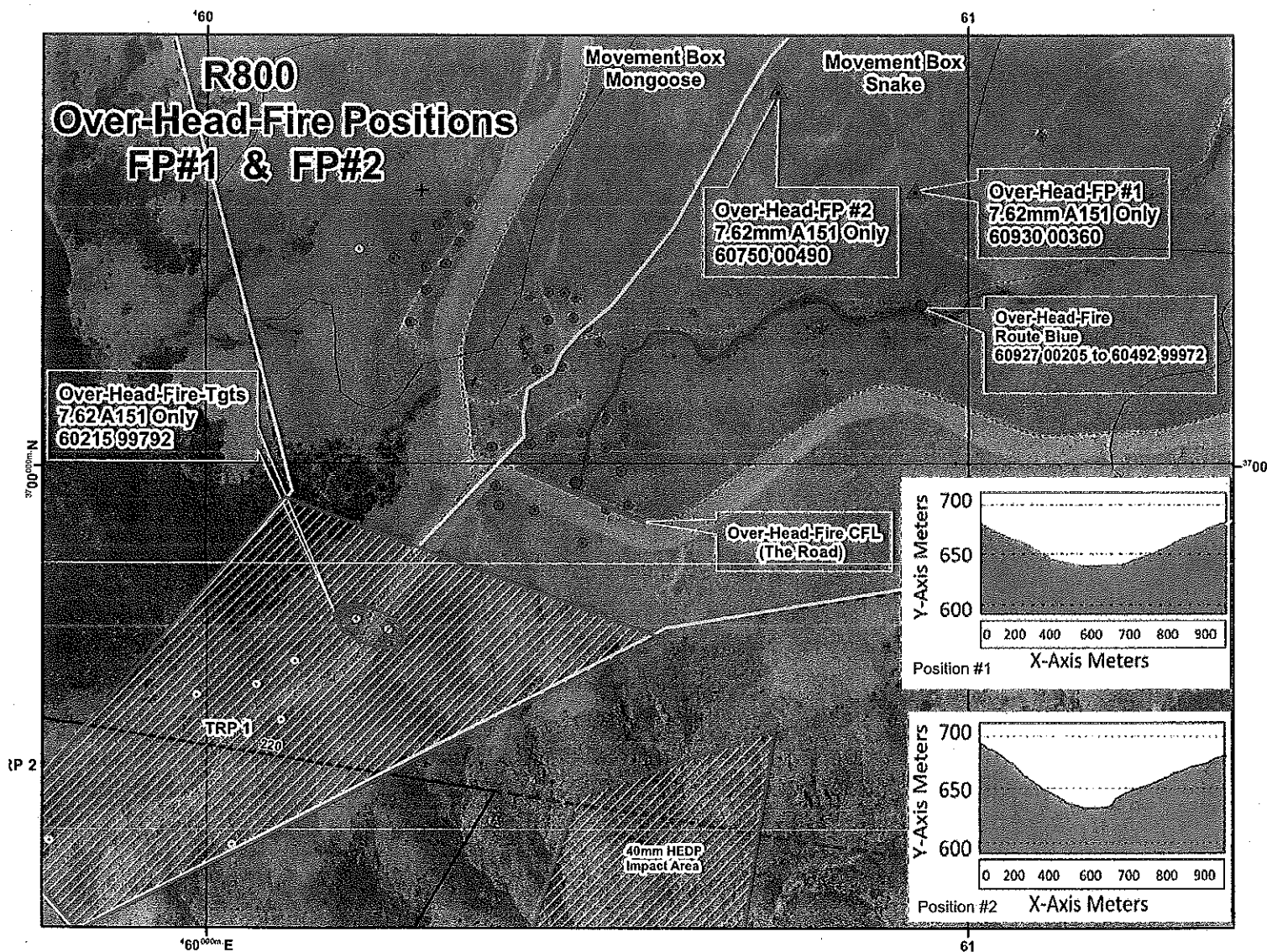












ENCLOSURE (C)



UNITED STATES MARINE CORPS

"UNIT"

BOX 555101

CAMP PENDLETON, CA 92055-5101

IN REPLY REFER TO

3550

CO

XX-XXX-XX

From: Commanding Officer

To: Commanding Officer, "Company or Battalion"

Subj: APPROVAL OF OVERHEAD FIRE UNPROTECTED TROOPS WITH SMALL ARMS FOR "UNIT"  
FOR FISCAL YEAR 20XX

Ref: (a) CAMPPENO 3500.1 CH 1  
(b) Special Instructions R-208C  
(c) DA-PAM 385-63, Para 17-4

1. In accordance with references (a) and (b) the Commanding Officer of School of Infantry (West), approves overhead fire on Range 208C for Infantry Training Battalion (ITB) during Fiscal Year 2018.

2. This approval meets the safety requirements listed in references (b) and (c).

3. ITB will abide by references (b) and (c) which contains all firing precautions in order to conduct overhead fire safely (page 209-210, DA PAM 385-63 paragraph 17-4). Precautions include:

a. Machineguns (7.62mm) will be mounted on ground tripods and will fire from a stationary position.

b. Only ammunition certified for overhead fire will be used (DODIC A151).

c. Bullets will not be permitted to impact between the firing position and the rear of the line of unprotected personnel. All impacts will be a minimum of 50 meters beyond the forward line of unprotected personnel.

d. Positive stops will be used to prevent crossfire and depression of the muzzle during firing.

e. A minimum clearance or safety limit will be established using the guidelines for overhead fire in Marine Corps Warfighting Publication 3-15.1.

f. The rate of fire will not exceed 70 rounds per minute.

g. Weapons will be test fired before delivery of overhead fire to verify effectiveness of the positive traverse and depression stops.

h. A minimum clearance of 16 meters over the heads of personnel and 2.5 meters over the highest obstruction within the the field of fire will be maintained, surpassing requirements in reference (c). Minimum clearance is the distance between the lowest shot in the dispersion pattern (as determined by the test firing) and the bodies of individuals in erect positions on the highest point of ground over which personnel must travel.

i. Registration will be conducted prior to the execution of the

ENCLOSURE (63)

Subj: APPROVAL OF OVERHEAD FIRE UNPROTECTED TROOPS WITH SMALL ARMS FOR  
UNIT FOR FISCAL YEAR 20XX.

range and supervised by the Range Safety Officer. Targets will be selected in the central portion of the target of the target area. After registration, corrections will be applied to deflection and quadrant elevations limits.

j. The maneuver element will not go past the limit of advance.

4. During firing, there will be a 1:1 position safety officer to shooter ratio.

5. This approval will be reviewed periodically during Fiscal Year 2018 and if warranted, renewed no later than 01 October, 2019.

6. The point of contact for this matter is "BILLETTE", "WHO", at (760)725-7791 or EMAIL.

"Commanding Officer's Name"

# RANGE SPECIAL INSTRUCTIONS

Date Revised – 13 November, 2019

FACE TO FACE WITH RANGE SAFETY IS REQUIRED PRIOR TO GOING INTO A HOT STATUS				
Shots Greater Than 5 lbs. NEW Shall NOT Be Fired Without Heavy Equipment On Hand				
Range: <b>R-LFAM 600</b>	Location: 62916 99407	<b>Allowable Weapons</b> 25mm – (TP Only) MG's – .50cal and below (No A606) Rifles – 7.62mm and below Pistols – .45cal. and below 40mm – (All) Infantry Rockets – (All) Mortars – (All) Grenades – (All) Demo – 15.77lbs. NEW, Bangalore, Claymores & APOBS	<b>Vehicles:</b>  1. Road & River Dependent.  2. POVs are NOT Authorized ON THIS Range.	
Elevation: 2,622 AMSL	Impact Area: Zulu/Whiskey			
<b>Troop Penetration:</b> Not beyond boundaries of the Range				
Type: Offensive Combat Range (platoon) Mounted or Dismounted	<b>Engagement Distance:</b> 3 meters 1,200 meters			
THIS IS NOT A CONTRACTOR SUPPORTED RANGE				
<b>Range Facilities:</b> Observation Bunker, Port-a-johns, Ammo Shelter, Ammo Tables 11 SBFs;3 MPs; EOD-T Targets				



## Scheduling

1. All scheduling requests for R-LFAM 600 must be submitted via their battalion.
2. Unit must utilize RFMSS to schedule range.

Closed To Any Use	Facility May Still Be Used With Restrictions	Facility Must Check Fire ALL Weapons
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Facility Occupied, or in Training/Live Fire Status	Effects to R-LFAM 600
A-ACA ECHO	Check Fire (UNLESS ALT SEP)
A-CALS 08	Check Fire
A-LZ BLUEBIRD	Check Fire
A-LZ GNATCATCHER	Check Fire
A-LZ SWALLOW	Check Fire
A-R220 (W)	Unit IS REQUIRED to move to Bunker Area during GRIFFIN L/F @R220 (W)
A-R220 TACP OP M	Check Fire
A-R440 (Z)	Check Fire
A-R440 URBAN TACP	Check Fire
A-TF C MNVR	Check Fire
A-TF CASE	Check Fire
I-IMP WHISKEY	Check Fire
I-IMP Zulu	Check Fire
R-409A	Closes (R409A 7.62mm & 25mm OK)
R-409A GUNNERY	Closes (7.62mm & 25mm OK)
R-600	Closes (Unless Same Unit)
R-800 (TOW HEAT SBF#1)	Closes
R-AFA 40	Closes SBF # 11
R-AFA 41	Closes
R-AFA 42	Closes
R-HORNO RIDGE	Check Fire
R-LFAM 710B	Closes
R-MFA 09	Closes
R-MFA 09A	Closes
TA-ECHO ACA	Check Fire
TA-OP M	Check Fire
TA-OP NOAH	Check Fire

Special Instructions Continued on Next page

ENCLOSURE (3)





## RANGE SPECIAL INSTRUCTIONS

### OIC, RSO & PSO Requirements

1. **40mm HE, LAV 25 & HEAT Rockets**
  - a. OIC Requirement – GySgt, GS-06 or Above
  - b. RSO Requirement – SSgt, GS-05 or Above
2. **Small Arms .50 Caliber & below/40mm TP/Rockets TP**
  - a. OIC Requirement – SSgt, GS-05, or Above
  - b. RSO Requirement – Sgt, GS-05, or Above
3. **No Munitions**
  - a. OIC Requirement – None
  - b. RSO Requirement – Cpl, GS-4 or Above
4. **LASER (If Used) LRSO Requirement – Sgt, GS-4 or Above**
5. **Weapons Qualified PSO Requirements**
  - a. **Daylight** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **FOUR** Marines in maneuver/movement element.
  - b. **Night** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **TWO** Marines in maneuver/movement element.
  - c. PSOs shall certify to the OIC that all weapons are in Condition 4 prior to exiting the range.

### LFAM 600 Lateral Limits Markers

1. **Unit must emplace lateral limit markers for any direct fire position used. Markers must consist of the following:**
  - a. Left Lateral Limit – White Triangle Pointing to the Right 
  - b. Right Lateral Limit – Red Triangle Pointing to the Left 
  - c. Signs must be placed at the furthest distance viewable by all shooters and at the firing positions.
  - d. Lateral Limits can be a designated key terrain features as long as all personnel can recognize and understand the designated features day or night.
  - e. Markers must be laid in by compass from the firing positions.

### LFAM 600 Targets

1. **RSO must maintain communication with the OIC, and control the exposure of any targets.**
2. If utilizing **PITS Targets** they must only be exposed for no more than 30 seconds.
3. All targets within the **Maneuver Box** and **Movement Box** must be **knock-down stay-down type targets**.
4. All targets must be laid in by compass from the firing position.
5. **OIC, RSO, and PSOs must ensure all targets are knocked down before allowing any personnel to maneuver past the targets.**
6. Units cannot dig past the **CFL/LOA**. All holes dug must be filled in upon completion of training.

### Marking of Targets and Personnel

1. During live-fire training in low-light or darkness, chem-lites may be used to mark either targets or personnel, but not both on the same range.
2. Infrared strobe lights provide an optional method to mark and distinguish personnel from targets.
3. **Units must keep the same marking plan for all subsequent ranges.**
4. Personnel and target markings must be identified in the operations order scheme of maneuver, risk management matrix, and range standard operating procedures.
5. Specific personnel and target markings will be covered in the range safety brief that is given to all personnel, to include the safety personnel (assistant RSOs) participating in the exercise.
6. Consideration must also be given to the use of light-producing equipment such as flashlights with colored lens covers as those different colors cannot be distinguished when using NVDs.
7. When clothing and uniforms are used on targets, the OIC and RSO will ensure these articles do not resemble those worn by participating personnel. Target clothing must remain consistent until live-fire training is completed.
8. Before live-fire training in low-light or darkness, NVDs will be tested for resolution per light-level criteria delineated in appropriate technical or operators manuals.
9. A review of NVD focusing procedures should also be conducted in order that Marines are able to obtain the optimum NVD image.

### Range Guards, Signs and Gates

1. **Range Guards, Signs and Gates shall be posted at:**
  - Sign #1: 62490 99841
  - Sign #2: 64150 98512
  - Gate#1: 62926 99434
  - Gate#2: 63085 99271
  - RGs #1: 63431 99067
  - RGs #2: 64005 98541
2. The RSO shall ensure LFAM 600 is clear of all personnel, shall ensure gates are locked and place Range Guards during the sweep.
3. Gate #1 and #2 can be locked with a Unit provided locks. Use the Inspectors Lock as a link and secure their lock to the Inspectors Lock. If using Unit does not have locks, Range Guards shall be posted.
4. **Range Guards shall be posted in pairs of two with two-way radio communication with the RSO**

**Special Instructions Continued on Next page**

ENCLOSURE (CS)

## RANGE SPECIAL INSTRUCTIONS

### Range Guards, Signs and Gates

5. No traffic or personnel shall enter R600 without the OIC's or RSO's permission.

### 5.56mm and Below EMP/CMP Box

1. **When conducting EMP/CMP Training:**
  - a. All EMP/CMP Training shall be conducted in the depicted Movement/Maneuver box.
  - b. All targets emplaced by the unit shall be laid in by compass.
  - c. Steel Targets are not authorized on range.
  - d. All EMP/CMP Targets shall be made of softwood uprights with cardboard backing.
  - e. Sandbags shall be used on any metal bases. Bases shall be made of soft metal.
  - f. Pallets and engineer stakes can be used.
  - g. Engineer stakes must be placed on the outside edges of the pallets.
  - h. No engagement on pallets closer than 7 yards.
2. **Firing Data:**  
**Lateral Limits:**  
 LLL 195°mag  
 RLL 215°mag

Movement/Maneuver Box		
Allowable Weapons/Munitions	Firing Data	Boundary Points
1. 5.56mm & Below	SFL 64175 98456 to 62624 99435	1. 61654 98531
2. 40mm TP	LLL 195°mag	2. 61956 98152
3. Rockets	RLL 215°mag	3. 62258 98177
4. Hand Grenades	LOA As depicted on map	4. 62288 98463
5. APOBS		5. 62676 98271
6. Handheld Mortars		6. 62858 98343
7. Demo NEW 15.77 lbs.		7. 63147 97990
		8. 64027 98152

### Infantry Rockets

1. Rockets shall fire 9mm spotting/practice rounds only within the left and rights of Maneuver Box or Movement Box.
2. HE Rockets shall be fired from inside the movement box at targets beyond the limit of advance or within TRP #1.
3. Before firing live rockets the PSO shall ensure the back blast area is clear of all personnel.
4. No personnel shall be forward of the rocket Firing Position.
5. Any misfires, the unit shall attempt to replace safety devises and notify LONGRIFLE for EOD support. **EOD shall determine if the rocket can be transported back to ASP.**

### Firing Limitations

MAAWS (Carl Gustaf)	SMAW HE
<ol style="list-style-type: none"> <li>1. Prone firing of MAAWS HE or TP ammunition is not authorized.</li> <li>2. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>3. All personnel within a <b>100 meters</b> radius of the MAAWS must wear double hearing protection.</li> <li>4. All personnel within <b>101-500 meter</b> radius of the MAAWS must wear single hearing protection.</li> <li>5. All personnel within a <b>20 meters</b> radius of the MAAWS must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is PPE Level 1.</li> </ol>	<ol style="list-style-type: none"> <li>1. During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.</li> <li>2. All personnel within a <b>100 meters</b> radius of the <b>SMAW firing HE</b> type rounds must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is PPE Level 1.</li> <li>3. All personnel within <b>390 meter</b> radius of the <b>SMAW</b> must wear single hearing protection.</li> </ol>
AT-4 HEAT	LAW HEAT and 21mm Sub-Cal
<ol style="list-style-type: none"> <li>1. Prone or foxhole firing of AT-4 HE (M136) is not authorized.</li> <li>2. In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.</li> <li>3. All personnel within a <b>20 meters</b> radius of the <b>AT-4</b> must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is PPE Level 1.</li> </ol>	<ol style="list-style-type: none"> <li>1. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>2. All personnel within a <b>20 meters</b> radius of the <b>LAW</b> must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is PPE Level 1.</li> </ol>

Special Instructions Continued on Next page

ENCLOSURE (6)

## RANGE SPECIAL INSTRUCTIONS

### Shoulder Fired Grenade Launcher (SFGL)

1. All personnel **shall wear** Body Armor, Helmet, and hearing/eye protection which is PPE Level 1.
2. 40mm TP may be utilized firing at targets no closer than 75m.
3. No TP rounds shall be fired at PITS Targets.
4. **40mm HEDP shall only be fired from either SBF #10 or SBF #11 at targets no closer than 165m.**
5. No HEDP rounds shall be fired at PITS Targets.

### Grenades

1. Chemical Grenades are not authorized on this range.
2. All Grenades shall land in well cleared out area within the Movement box.
3. Practice grenades are **NOT** permitted during live fire.
4. Training with grenades shall **NOT** be conducted when there is standing water, mud, or dense vegetation in the impact area.
5. Grenade training shall **cease** one hour prior to sunset.
6. In the event a dud grenade is not cleared before reduced light conditions, the using unit shall provide a guard force until the grenade can be cleared.

#### Practice Grenades

1. Unit shall set up a practice grenade area within the depicted graphics of LFAM 600.
2. Only practice grenades shall be used within the practice grenade area.
3. All personnel must be proficient in the safety precautions for handling and throwing grenades before live grenade training begins.
4. Successful completion of practice grenade training is mandatory prior to live grenade training.

#### Dud Grenade

1. A dud fragmentation grenade shall be reported immediately to LONGRIFLE. A cease-fire shall go into effect immediately. Accurately note the time of the dud, as Explosive Ordnance Disposal personnel must wait thirty minutes prior to clearing the dud.
2. If a dud grenade is experienced, all activities within Maneuver Box area shall stop, personnel shall remain within a safe area for a minimum of 5 minutes and then evacuate to the AA until EOD clears the dud.
3. EOD personnel shall destroy all grenade duds in place before troops can enter the grenade impact area.
4. If EOD personnel are unable to locate or destroy any dud grenades; troop maneuver in the impact area is not authorized.

#### Live (HE ) Grenades

1. All personnel within the 150m SDZ shall wear (PPE Level 1) flak jacket, helmet, hearing protection, and ballistic eye protection
3. **Hand grenades shall be thrown from a trench or barrier equivalent to a screen of sandbags 0.5 meters thick, 1.5 meters high and wide enough to accommodate one thrower and one ARSO.**
4. The range safety officer shall directly supervise and control the throwing of fragmentation grenades.
5. Hand grenades shall be carried in accordance with FM 23-30, No individuals shall be transported by vehicle while carrying grenades attached to web equipment.
6. HE grenades shall be thrown one at a time and land in a well cleared out area within the Movement box only.
7. Firing conditions for fragmentation and offensive grenades safety clips on fragmentation and practice grenades will not be removed until immediately before the safety pin is removed.
8. Once the safety pin has been pulled, the grenade will be thrown. No attempt will be made to reinsert the safety pin or tape the safety lever (spoon).
9. The safety lever will not be released for any reason on HE grenades until the grenade exits the throwing hand at the command of the ARSO.

### Bangalore Torpedoes

1. Commercial
  - a. Bangalore torpedoes will only be fired in a horizontal position on the ground.
  - b. Only one tube assembly shall be fired at a time – NEW 15.77lbs.
  - c. Personnel shall be in a missile-proof shelter 100m from the charge, or 200m away in defilade. For unprotected personnel in the open, the minimum safe distance (MSD) is 1,000m at right angles to axis of the Bangalore torpedo, 200m for personnel in the line of axis.
2. Field-Expedient
  - a. Net explosive weight shall not exceed 9 lbs.
  - b. Only a single engineer stake shall be used to form a Bangalore.
  - c. OIC & RSO shall ensure that charge is placed so that engineer stake is against the ground (**NOT TOWARDS THE SKY**).
3. Personnel shall be in a missile-proof shelter 100m from the charge, or 200m away in defilade.
4. For unprotected personnel in the open, the minimum safe distance (MSD) is 1,000m at right angles to axis of the Bangalore torpedo, 200m for personnel in the line of axis

Special Instructions Continued on Next page

ENCLOSURE (03)

## RANGE SPECIAL INSTRUCTIONS

### APOBS and Claymores:

1. Unit shall construct a wall utilizing sand bags 2' high x 4' wide along the firing line to protect the firing team from missile hazards caused by APOBS or claymores.
2. That all APOBS or claymores are placed in the firing area. (Only one APOBS or claymore at a time).
3. Only the OIC/RSO and the firing team are at the FP and behind the sandbag wall prior to firing the claymore or APOBS.
4. OIC/RSO shall ensure claymore or APOBS are installed correctly and facing into the impact area.
5. All claymore or APOBS shall be secured until the range OIC directs their issue.
6. Emplaced claymore or APOBS shall not be disarmed except by order of the range OIC.
7. Firing devices shall only be connected at the command of the range OIC.
8. After firing, the unit shall inspect to ensure that the claymore or APOBS has detonated.
9. Misfires shall be handled in accordance with TC 3-22.23 and FM 23-23.
10. Personnel shall not be allowed within 16m to the rear of the claymore or APOBS.
11. CLAYMORE firing personnel may occupy an area between 16 and 100 meters to the rear of the claymore they shall be located in a covered position, lying prone in a depression, or behind a physical barrier.
12. Field-Expedient Claymore must not exceed 2 lbs. NEW.
13. APOBS firing personnel shall be in a prone position, at least 50 meters from the launch point, and 75 meters from the deployed grenades. All personnel inside of Noise Hazard Arc shall wear hearing protection.

### Additional PPE Requirements

NEW	Double Hearing Protection, Eye Protection & Shielding	Single Hearing Protection, Eye Protection & Shielding	Eye Protection & Shielding	Shielding Against Hazard
	Safe Distance for Over Pressure (3.5 PSI) K-Factor = 18	Safe Distance for Over Pressure (1.2 PSI) K-Factor = 40	Safe Distance for Over Pressure (0 PSI) K-Factor = 300	Missile Hazard
0.18	10.2	22.6	169.4	185.2
0.22	10.9	24.1	181.1	198.0
0.23	11.0	24.5	183.8	201.0
9.000	37.4	83.2	624.0	682.3
15.000	44.4	98.6	739.9	808.9

**NEW in Pounds Equivalent to TNT/All Distances Are in Feet**

### 60mm Hand Held Mortar

1. Unit shall conduct all hand held firing in the footprint of the depicted Movement Box.
2. Overhead Fire is NOT authorized.
3. The target engagement distance will not be less than the distance for Area B, unless fired from protected positions.
4. Fire must not impact any closer to participating personnel than the fragmentation radius of Area A.
5. Units must establish clear and defined MSLs that are easily identifiable by all participants and that are based on Area A.
6. MSLs will be calculated from the Mean Point of Impact (MPI) to the closest maneuver element.  
Area A - 250  
Area B - 300  
**For DODIC BA26**  
Area A - 380  
Area B - 405
7. Cease-Firing **Before Crossing Any MSLs**
8. OIC shall report to LONGRIFLE the Max Ord and charge to be fired.
9. RSO shall ensure that the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards.
10. RSO is required to check the FDC/Gun line Safety-T's. Safety-T shall be on hand with each gun.
11. **Mortar Position shall engage targets within TRP #1 & TRP #2.**
12. All mortars shall fire registration fires that shall be verified by the RSO prior to the exercise.
13. Base Plates shall be marked at 11 O'clock and aiming stakes shall be left in place after registration.
14. RSO and PSOs will ensure all personnel are abeam or behind the mortar position.
15. **Firing Data:**
  - a. **Charge** - Charge 1 maximum
  - b. **Elev:** 2545 feet AMSL

Special Instructions Continued on Next page

ENCLOSURE (43)

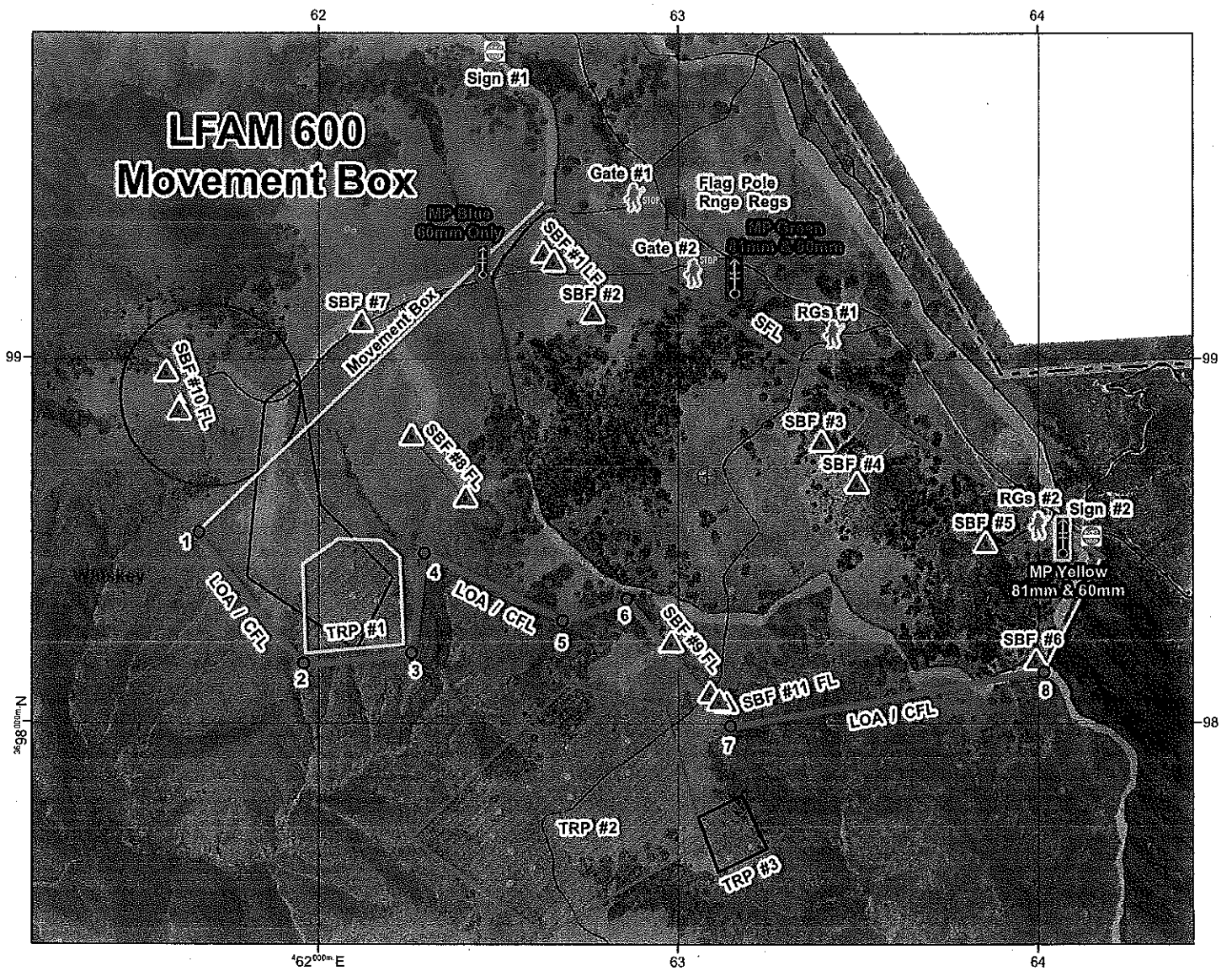


## RANGE SPECIAL INSTRUCTIONS

Mortar Position (MP) Firing Data		
<ol style="list-style-type: none"> <li>There is no troop penetration beyond the firing line into the impact area. Units are prohibited from crossing the firing line into the impact area to set up targets or aiming stakes.</li> <li>The target engagement distance will not be less than the distance for Area B, unless fired from protected positions.</li> <li>Fire must not impact any closer to participating personnel than the fragmentation radius of Area A.</li> <li>Units must establish clear and defined MSLs that are easily identifiable by all participants and that are based on Area A.</li> <li>MSLs will be calculated from the Mean Point of Impact (MPI) to the closest maneuver element. Area A - 250 Area B - 300 <b>For DODIC BA26</b> Area A - 380 Area B - 405</li> <li><b>Cease-Firing Before Crossing Any MSLs</b></li> <li>All MSLs shall be marked and identified to all personnel before live fire training occurs.</li> <li>No POV's shall enter LFAM 600 even if they have a range pass.</li> <li>OIC shall report to LONGRIFLE the Max Ord and charge to be fired.</li> <li>Max Ord shall remain within the scheduled Airspace and shall be at least 1000 Feet below any FW Aircraft transitioning over the Impact Area.</li> <li>RSO shall ensure that the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards.</li> <li>RSO is required to check the FDC/Gun lines Plotting Boards and Safety-T's.</li> <li>Safety-T shall be on hand with each gun.</li> <li><b>Mortar Position shall engage targets utilizing the data contained in this brief.</b></li> <li>All mortars shall fire registration fires that shall be verified by the RSO prior to the exercise.</li> <li>Base Plates shall be marked at 11 o'clock and aiming stakes shall be left in place after registration.</li> <li><b>During all powder burning activities:</b></li> <li>Increment Burning shall be IAW CAMPENO 3500.1 CH1</li> <li>Units shall contact LONGRIFLE for permission prior to burning increments.</li> <li>Powder shall be burned in areas cleared to mineral earth, and located no closer than 200 feet from vegetation.</li> <li>Unit shall not exceed 100 increments at any one time while burning.</li> <li>Units shall have fire extinguishers, water, and shovels at the burn site.</li> <li>Units shall remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation.</li> <li>Units shall contact LONGRIFLE after last increment has burned and 30 minutes has passed.</li> </ol>		
MP BLUE 60mm Mortars	MP YELLOW 81mm & 60mm Mortars	MP GREEN 81mm and 60mm Mortars
<b>Grid: 62457 99262</b> <b>LLL: 3520 mils grid</b> <b>RLL: 3680 mils grid</b> <b>Min Range- 850 meters</b> <b>Max Range- 1075 meters</b> <b>Max Charge- 1</b> <b>Elev- 2545'AMSL</b> <b>Tgt: TRP #1</b>	<b>Grid: 64070 98506</b> <b>LLL: 4090 mils grid</b> <b>RLL: 4440 mils grid</b> <b>Min Range- 1250 meters</b> <b>Max Range- 2000 mils grid</b> <b>Max Charge- 81mm-CH 2, 60mm-CH 2-3.</b> <b>Elev- 2525'AMSL</b> <b>Tgt: TRP #2</b>	<b>Grid: 63158 99220</b> <b>LLL: 3380 mils grid</b> <b>RLL: 3640 mils grid</b> <b>Min Range- 1200 meters</b> <b>Max Range- 2050 meters</b> <b>Max Charge- 81mm-CH 2, 60mm-CH 3</b> <b>Elev- 2545'AMSL</b> <b>Tgt: TRP #2</b>

Special Instructions Continued on Next page

ENCLOSURE (63)



ENCLOSURE (63)





# T&R Tasks

- 1803/1833-GNRY-1131: Conduct AAV Gunnery Table I
- 1803/1833-GNRY-1132: Conduct AAV Gunnery Table II
- 1803-GNRY-1133/1833-GNRY-2106: Conduct AAV Gunnery Table III
- 1803-GNRY-1134/1833-GNRY-2107: Conduct AAV Gunnery Table IV
- 1803-GNRY-1135/1833-GNRY-2108: Conduct AAV Gunnery Table V
- 1803/1833-GNRY-1101: Set Headspace and Timing on M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1102: Load M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1103: Zero M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1104: Fire the M2 HB .50 Cal Machine Gun
- 1803/1833-GNRY-1105: Apply Failure to Fire Procedures for M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1106: Unload M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1107: Perform Preventive Maintenance Checks and Services (PMCS) on M2 .50 Cal HB Machine Gun on AAVP7A1
- 1803/1833-GNRY-1108: Load MK 19 Mod 3 40mm Machine Gun

UNCLASSIFIED

ENCLOSURE (4)





## T&R Tasks cont.

- 1803/1833-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1110: Fire the MK 19 40mm Machine Gun
- 1803/1833-GNRY-1111: Apply Failure to Fire Procedures for MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1112: Unload MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1113: Perform Preventive Maintenance Checks and Services (PMCS) on MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1114: Install M240G 7.62mm Machine Gun on AAVC7A1
- 1803/1833-GNRY-1121: Conduct Minor Boresighting of Upgunned Weapons Station
- 1803/1833-GNRY-1122: Conduct Major Boresighting of Upgunned Weapons Station
- 1803/1833-GNRY-1123: Operate Upgunned Weapons Station
- 1803/1833-GNRY-1124: Engage Targets with Upgunned Weapons Station
- 1803/1833-GNRY-1125: Perform Preventive Maintenance Checks and Services on Upgunned Weapons Station

UNCLASSIFIED

ENCLOSURE (2)



## T&R Tasks cont.

- 1833-GNRY-2105: Set Inhibit Zone for the Upgunned Weapons Station 1803-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- AAV-GNRY-3156: Conduct AAV Gunnery Table VI
- AAV-GNRY-3157: Conduct AAV Gunnery Table VII
- AAV-GNRY-3158: Conduct AAV Gunnery Table VIII
- AAV-GNRY-4159: Conduct AAV Gunnery Table IX

UNCLASSIFIED

ENCLOSURE (3)



## Ammo Load out R408A

- 17,062rds A576, .50 CAL LKD 4 API/API-T F/M2
- 4,000rds, A131, 7.62MM 4 BALL M80/1TRCR M62 LKD
- 2,680rds B542, 40MM HEPD M430/M430A1 LKD (MK 19)

UNCLASSIFIED

ENCLOSURE (3)



## Ammo Load out R600/800

- 3,600rds A576, .50 CAL LKD 4 API/API-T F/M2
- 768rds B542, 40MM HEPD M430/M430A1 LKD (MK 19)

UNCLASSIFIED

ENCLOSURE (63)

## 1st Battalion 4th Marines

## Training Support Request

CO-EVENT- (V#) INT DATE  
 18-3 ONLY

DATE	5/21/2020	UNIT	BRAVO CO	SUBMITTED BY
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(b)(3), (b)(6), (b)(7)(c)

**Scheme of Maneuver/Clarifying Instructions:**

SUPPORT REQUEST IS FOR BRAVO COMPANY AAV PLATOON'S GUNNERY TRAINING

S-2 Support Requested

Type	Quantity	Description
Maps	34	CAMP PENDLETON MAP 1:50,000 LAMINATED
Imagery	28	28 SETS OF GRGS FOR RANGE 408A AND 800
UAS		
Training Packages		

S2 COMMENTS
REQUESTING MAPS FOR GUNNERY TRAINING AS WELL AS FUTURE OPERATIONS ON BOARD CAMP PENDLETON. IMAGERY WILL BE USED BY DRIVER'S AND GUNNERS FOR GUNNERY ON RANGES 409A, 600, AND 800.

62	DATE RECEIVED	DATE APPROVED	SIGNATURE
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DETAILS	
Type of Training	NAV CREW GUNNERY QUALIFICATIONS
Training Area	R408A
ACU #	
CO-USE REQUIREMENT? Y/N	N
Departure Date/Time	10 JUNE 2020/0700
Hot Date/Time	10 JUNE 2020/1200
Cold Date/Time	12 JUNE 2020/0800
OIC	
RSO	(b)(3), (b)(6), (b)(7)(c)
# of Marines Training	32

### S3 COMMENTS

B3
DATE RECEIVED
DATE APPROVED
SIGNATURE

Nations (PRE/Hot Chow)

MARINE				NAVY				TOTAL	ROSTERS		
PAX	Officer	Enlisted	Enlisted w/Comrats	Officer	Enlisted	Enlisted w/Comrats		Submitted			
#'s	1	50	13	0	1	1	52	YES			
Person to Pick-Up, Chow			(b)(3), (b)(6), (b)(7)(c)			DATE	8-Jun-20	LOC	21 AREA AAVS	TIME	1000
Chow Plan			Breakfast			Lunch			Dinner		
MRE, UGR-NS, UGR-A (Vat), Box Lunch, Chow			MRE			MRE			MRE		
Ice (Plan for 5 lbs/Marine)			Y/N			N					

PAX	TRAINING AREA LOCATION AND GRID	START DATE	END DATE
59	R408A / 11SMS 65171 91766	10-Jun-20	12-Jun-20

34. COMMENTS

REQUESTING MRE'S (74 CASES) DELIVERED AT 21 AREA RAV  
RAMP BLDG 210577. REQUESTING GLVY WITH DRIVER AND A-  
DRIVER (ARMORER) FOR SAFETY VEHICLE. SAFETY VIC WILL  
LINK UP AT 1406A ON 10 JUNE AT 1000, TRAVEL WITH THE  
AAYS TO RANGE 600/800 ON 12 JUNE, AND WILL RETURN TO  
MOTOR POOL ON 15 JUNE UPON COMPLETION OF LIVE FIRE  
TRAINING.

MEDICAL.

NUMBER OF CORFEMAN	REPORT DATE/TIME/LOCATION	RETURN DATE/TIME	REPORT TO
REMARKS: CORFEMAN SUPPORT ORGANIC TO THE PLATOON			

Transportation ('Time' is show-time for vehicles)

[illegible]

### Tactical Vehicle Request

Tactical Vehicle Request				Pick-Up		Return		Driver Request		
Vehicle Type	#	# Ammo	Destination	DATE	TIME	DATE	TIME	Driver	Ammo Driver	IF PROVIDING ORN, DRIVER NAME
M1123/M1152 HBack										
M1123/M1165 4Door										
M1151 UAH										
M1167 TON Variant										
MRAP 4X4										
M-ATV										
MRC 148										
MRC 145										
Ambulance 2 Litter										
Ambulance 4 Litter										
7 Ton (PAX)										
7 Ton (CARGO)										
Trailer										
JLTV HIGH BACK	1		R408A	10-JUN	1100	14-JUN	1600	1		
REFUELER (800 GALS)	1		R408A	11-JUN	1200	11-JUN	1400	1		
M105 7Ton Trailer										
M101/M1102 Trlr										
M116 Trlr										
M149 Water Bull	1		R408A	10-JUN	1000	12-JUN	0700			

\*\*\*VEHICLES WILL NOT BE DISPATCHED UNLESS PMCS ARE COMPLETED FOR THE WEEK\*\*\*

NAME DRIVE(S) W/ RANK		DELIVERY LOCATION	
TIME OF DELIVERY	1000/10-JUNE	R408A / 11SMS 65171 91766	
TIME/DATE OF PRESTAGE			
TIME/DATE OF PICKUP	0800/12-JUNE	GUINER'S APPROVAL	DATE RECEIVED
			DATE APPROVED

ENCLOSURE (4)

# 1st Battalion 4th Marines

## Training Support Request

### Ammunition

Qty	DODIC	NOMENCLATURE
	A059	CTG, 5.56MM BALL F/M16A2
	A063	CTG, 5.56MM TR F/M16A2
	A064	CTG, 5.56MM BALL TR 4/1 F/SAW
	A075	CTG, 5.56MM BLANK LKD F/SAW
	A080	CTG, 5.56MM BLK F M16A1/A2
4000	A131	CTG, 7.62MM 4 BALL M80/1TRCR M62 LKD
	A358	CTG, 9MM PRACT AT-4
	A363	CTG, 9MM BALL PISTOL (NEW)
17062	A576	CTG, .50 CAL LKD 4 API/API-T F/M2
	A606	CTG, .50 CAL API MK 211-0
	AA11	CTG, 7.62MM M118 L RANGE
	AX11	CTG, 9MM SPOTTING RIFLE (SAW)
	B519	CTG, 40MM PRAC M781
	B535	CTG, 40MM WHITE STAR PARA
2680	B542	CTG, 40MM HE/PD M430/M430A1 LKD (MK 15)
	B546	CTG, 40MM HE/PD LOWVEL LCHO
	B642	CTG, 60MM HE M720 LSCMS W/HOF
	B647	CTG, 60MM ILLUM M721
	BA14	CTG, 60MM WP M722A1
	BA21	CTG, 40MM PRAC
	C484	CTG, 81MM ILLUM INFRARED
	C869	CTG, 81MM HE M869
	C870	CTG, 81MM SMK RP M819 (IUK)
	C871	CTG, 81MM ILLUM M853 (IUK)
	C995	CTG, 84MM 1 INCH M136 (AT-4)
	G878	FUZE, M228 F/G911
	G881	HG, FRAGMENTATION M67
	G945	HG, SMK YEL
	G963	HG, RIOT CS M7
	G982	HG, SMK TNG M83
	HA21	ROCKET, 21MM SUB-CALIBER, M72AS

Qty	DODIC	NOMENCLATURE
	HA29	RKT, 66MM HE M72A7 (LJW)
	KX05	RKT, 83MM ASSAULT, (SAW)
	J007	MINE, APERS-T M18A1 w/Accessories
	K765	RIOT CNTRL AGENT CS CAPSULE
	L307	SIG, ILLUM WS CLUSTER M159
	L312	SIG, ILLUM WS PARA M127A1
	L495	FLARE, SURFACE TRIP M49A1
	L592	TOW BLAST SIMULATOR
	L594	SIM, PROJ GRND BURST M115A2
	L598	SIM, BOOBYTRAP FLASH M117
	L599	SIM, BOOBYTRAP ILLUM M118
	M028	DEMO KIT, BANGALORE TORP M1A2
	M030	CHG, DEMO BLK 1/4LB TNT
	M032	CHG, DEMO BLK 1LB TNT
	M130	CAP, BLST ELEC M6
	M131	CAP, BLST NON-ELEC M7
	M456	CORD, DET TYPE-1
	M670	FUZE, BLST TIME M700 (W/1 FT)
	M757	CHG, ASSY DEMO KIT M153 C4 16x1-1/4LB
	M008	IGNITER, BLST TIME FUSE M81
	M079	DEMO KIT, ANTI-PERS OBSTL BREACH SYS MK7-1 (APOBS)
	WH03	GM, TOW-2 SURF ATK BGM-71D-5
	WH06	GM, TOW PRAC
	A111	CTG, 7.62MM BLANK LKD
	A598	CTG, .50 CAL BLNK LKD
	G940	HG, GREEN SMOKE
	G020	HG, STUN
	MN52	INITIATOR, DUAL SHOCK TUBE W/CAES
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)

ORDNANCE TO BE LTI/PFI	YES NO	ARMORER SUPPORT AT RANGE NEEDED	Y X N
NO EARLIER THAN DATE OF LTI/PFI	N/A	NO LATER THAN DATE OF LTI/PFI	8-Jun-20
Date of Weapons Draw	10-Jun-20	Date of Weapons Return	14-Jun-20
Time of Weapons Draw	0600	Time of Weapons Return	1600

Equipment to be LTI/PFI (Estimate quantities)

NOMENCLATURE	QTY
M9 PISTOL	
M16A4 RIFLE	
M203	
M4 CARBINE	
M249 SAW	
M32 MSG	
M240B MG	3
M2 .50 CAL MG	13
MK-19	13
MK-153 SAW	
M224 60MM	
M202 81MM	
M41A1 SABER	

NOMENCLATURE	QTY
M1014	
M40A3/A5	
M107 SASR	
M72 LAW TRAINER	
MK93	
M35 COYOTE MOUNT	
M3 TRIPOD	
M122 TRIPOD	
MK64 MOUNT	
JAVELIN DST	
JAVELIN FTI	
CORAND LAUNCH UNIT	
PLDR	

NOMENCLATURE	QTY
AN/PQS-18A	
AN/PVS-17C	
AN/PVS-24	
AN/PEQ-16	
AN/PVS-14	
AN/PVS-28	
AN/PAS-13B (V2)	
AN/PAS-13D (V2)	
AN/PAS-13D (V3)	
M22 BINO (LARGE)	
M24 BINO (SMALL)	
IZLID II	
LASER BORE SIGHT	

NOMENCLATURE	QTY
M27	
M38	
M320 GL	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	

B4	DATE RECEIVED	DATE APPROVED	SIGNATURE
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NOMENCLATURE	Qty	Pick-up		Return	
		DATE	TIME	DATE	TIME
PRC-152					
PRC-153					
PRC-119					
PRC-119F					
PRC-117					
PRC-150					
VRC-110					
VRC-89					
VRC-90					
MRC-145					
COMM-201B					
OE-254					
CI2-10					
DTCS					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
FREQ/NET ID					
Days Batteries Req					

B6 COMMENTS
COMM EQUIPMENT INTERNAL TO PLATOON.

B6	DATE RECEIVED	DATE APPROVED	SIGNATURE
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ENCLOSURE (23)

**OPERATIONAL RISK MANAGEMENT MATRIX**

TRAINING EVOLUTION: Range 222/600/800		ORGANIZATION: BLT 1/4, CO B AAV PLT	Assigned OIC: (b)(3), (b)(6), (b)(7)(c)		Assigned RSO: (b)(3), (b)(6), (b)(7)(c)		Weapons Systems: M2 .50 cal Mk19 40mm M240		Date: 20200610-20200614	
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE			
Phase III	Marine wounded/ killed by Up-Gunned Weapon System or ordnance	-Weapons Malfunction caused by improper headspace and timing. -Negligent Discharge. -Firing outside of designated limits. -Weapons leaving the range not condition 4.	I/C=2	- Marines perform headspace and timing on the .50 cal prior to live fire. - Weapons are kept in condition 4 until on the firing line with turrets oriented down range. - Marines go condition 4 after firing is complete. - Range lateral limits briefed each day prior to training. - RSO inspect weapons leaving the firing line to ensure clear condition 4. -PPE will be worn at all times.	I/D=3	-Armorer checks the headspace and timing of each .50 cal. -Classes given on headspace and timing and Marines perform function checks a week prior to going to the field, as well as redundancy checks for each firing vehicle. -Ensure weapons have PFIs and LTIs, prior to live fire training. -Marines instructed on when to go condition 3 and condition 1 during safety briefs. - PSOs verify condition 4 prior to movement off the firing line. -RSO/OIC give safety brief outlining left and right lateral limits of the range prior to execution each day.	- RSO/OIC verifies headspace and timing prior to live fire. - Master Gunner or OIC inform gun crews when to change the condition of weapons. -RSO clears each weapon prior to leaving range. -Master Gunner and OIC observe effects of fires with relation to range boundaries. -RSO ensures PSO is briefed on their responsibilities during live fire. -RSO coordinate with armory and platoon maintenance chief IOT ensure all weapons have had a LTI and PFI			
Phase III	Marine injured while handling ammunition	-Marines attempting to relink 40mm ammunition. ("buffalo rounds") -Lack of situational awareness. -Marines improperly handling ammunition.	I/C=2	-Ensure no one handles buffalo rounds except for the RSO, OIC, or designated personnel. -Ensure Marines are paying attention to their surroundings and handling ammunition with care.	I/D=3	-Platoon leadership briefs the platoon on handling buffalo rounds and that only the RSO, OIC, or designated personnel will handle buffalo rounds. -Safety brief is conducted and an emphasis is made on handling ammunition with care.	-Platoon commander, platoon sergeant, OIC, and RSO ensure no one is handling buffalo rounds except those designated to do so. -RSO conducts safety brief with an emphasis on handling buffalo rounds and ammunition in general. -Section leaders supervise Marines IOT ensure they are safely handling ammunition.			
Phase III	Marine injured by UXO	-Lack of situational awareness. -Marines attempting to handle UXO. -Marines navigating off of tank trails already laid out in the SOM.	I/C=2	-Ensure Marines are paying attention to their surroundings and that they know to inform their chain of command if they come across any UXO. -Ensure Marines understand not to touch or handle UXO.	I/D=3	-Safety brief conducted to ensure Marines maintain situational awareness so they don't disturb any UXO. -Marines briefed that they are not to handle UXO and that if they come across it, to inform their chain of command. -Marines briefed on SOM during operation order.	-RSO/OIC conduct a safety brief to remind Marines to maintain situational awareness and to never handle UXO themselves. -Section leaders supervise their section to ensure IOT ensure Marines don't disturb any UXO. -Crew chiefs supervise crews IOT ensure crews don't disturb any UXO.			
Phase I,III,IV	Fire while refueling	-Leaking fuel cells. - Smoking while refueling.	I/C=2	-Fuel Cells are inspected by Vehicle commanders prior to refueling when vehicles are staged.	I/D=3	-Vehicle commanders are briefed on inspection procedures before refueling.	-Section leaders monitor refueling and ensure Vehicle commanders are inspecting their fuel cells.			

ENCLOSURE (63)

				-Marines will not smoke within 50 m of the refueler.		-Fuel not given to vehicles until crew chief conducts inspection. -All Marines in the platoon briefed of the limitations on smoking.	-Section leaders and platoon leadership monitor refueling to ensure no Marines are smoking within 50 m. -Platoon sergeant will ensure all fire extinguishers are serviceable and located on the AAV per SOP.
All Phases	Loss of personnel or equipment	-Marines not maintaining their prescribed hourly comm checks. -Marines not properly briefed on their respective routes and road guard positions. -Lack of situational awareness.	I/C=2	-Enforce comm checks with all roadguard positions. -Each road guard position will redundant communications -Marines back brief RSO/OIC on locations of road guard positions before leaving.	I/D=3	-Route brief and ROC walks with all vehicles prior to leaving RAMP. -Conduct of proper accountability for personnel and gear before and after every movement, twice daily (morning and evening) with one of those checks being conducted by serial number. -Proper PCC/PCI conducted.	-OIC/RSO conduct daily serialized gear checks before and after each day of training. -Platoon sergeant will gain full accountability of all personnel before any platoon movement. -Section leaders inspect all gear and Marines within their section are accounted for at all times.
All phases	AAV/wheeled vehicle accident collision/ roll-over	-Speeding. -Driver Fatigue. -Passing of other units on roads. -Lack of visibility due to dust.	I/C=2	-Marines obey all posted speed limits. -Marines are given adequate rest time prior to operating AAV. -AAVs remain on right side of road and mind a safe distance from other vehicles while passing. -AAVs decrease speed to less than 15mph when passing through dust clouds.	I/D=3	-Vehicle commanders monitor driver speeds of no more than 25mph. -Vehicle commanders monitor rest period of drivers and remove overly fatigued drivers. -Drivers are briefed prior to leaving RAMP on procedures for passing other units on the road. -Drivers maintain distances of 100m or greater dispersion to avoid creating dust clouds. -Drivers are briefed on slowing down when driving through dust.	-Section leaders ensure section maintains proper speed limit. -Vehicle commanders back-brief section leaders on rest plan for crew. -Vehicle commanders verbally command drivers if they do not follow briefed techniques. -Vehicle commanders verbally command drivers if they do not decrease speed during brown out, and all vehicles will stop until dust settles and visibility is restored.
All Phases	Vehicle fire resulting in injuries	-Mechanical malfunctions which cause fire. -Fire bottles inoperable. -Smoking inside AAV.	I/C=2	-Vehicle commanders report any potentially dangerous problems to maintenance personnel. -Vehicle not utilized until mechanical issue is resolved. -Manual fire bottles on every AAV inspected and weighed by maintainers then annotated on fire bottle tags. -MFSS tested by maintainers. -Properly complete the pre-operational checklist. -Brief safety and evacuation SOPs.	I/D=3	-Vehicle commanders constantly monitor status of vehicles -Other vehicles utilized if vehicle becomes fire hazard. -Vehicle commanders check fire bottle tags prior to operation to ensure date is current. -Vehicle commanders verify MFSS is unobstructed by SL-3.	-Section leaders monitor maintenance issues and report to platoon sergeant -Platoon sergeant ensures all vehicles operating have no mechanical issues -Marines back brief section leaders on proper use and status of manual fire bottles. -Section leaders inspect sections to verify MFSS is unobstructed in all vehicles and fire bottles have current tags.
All phases	Injuries on AAVs	-Marines injured by unsecured hatches, improperly stowed gear. -Burns. -Improper wearing of PPE.	II/C=3	-All hatches and gear are strapped down according to SOP. -All internal gear will be strapped down. -Hands avoid the rim of the hatch when opening/closing or unsecured. -FROG gear worn at all times. -Marines aware of burn treatment.	II/D=4	-Vehicle commanders supervise and inspect crew men properly strapping down hatches and equipment. -Vehicle commanders ensure proper PPE is worn at all times. -Corpsman briefs platoon on burn treatment.	-Section leaders inspect vehicles prior to conducting rehearsals for properly strapped hatches and equipment. -Section Leaders ensure proper PPE is worn at all times. -RSO ensures vehicle hatches secured, proper PPE utilized before AAV movement conducted.



All Phases	Weather exposure casualties	<ul style="list-style-type: none"> <li>-Marines not eating/drinking properly.</li> <li>-Excessive heat of vehicle when wearing PPE.</li> <li>-Failing to put on or take off warming layers</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all crew members to ensure they are eating and drinking enough water.</li> <li>-Warming layers will be removed by 0800.</li> <li>-Gear inspections before leaving will ensure Marines bring warming layers.</li> <li>-Each vehicle has (1) full 5 gallon water cooler and (2) designated water jugs.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-Marines briefed on importance of nutrition/hydration in the field.</li> <li>-Section leaders ensure adequate water on each vehicle prior to rehearsals.</li> <li>-Section leaders ensure Marines are wearing appropriate warming layers.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the platoon as a whole and ensures time is allotted during training for Marines to get chow and water.</li> <li>-Platoon sergeant ensures Marines are provided with food and water.</li> <li>-Corpsman observes Marines to ensure they are not becoming weather casualties.</li> <li>-Platoon commander monitors training to ensure AAV crewmen are given adequate rest time.</li> </ul>
All Phases	Wildlife Hazards	<ul style="list-style-type: none"> <li>-Marines harassing animals.</li> <li>-Lack of situational awareness</li> <li>-Not alerting the chain of command about wild life on range.</li> <li>-Not alerting corpsman to bug/wildlife allergies.</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Brief animal considerations and their likely locations within the area.</li> <li>-Have a corpsman on hand.</li> <li>-Ensure Marines' allergies are known and prepared for.</li> <li>-Ensure proper medication is on hand.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-During safety brief, brief not to touch, harass, or play with any wildlife and to keep your distance.</li> <li>-Ensure corpsman is aware of any existing allergies.</li> </ul>	<ul style="list-style-type: none"> <li>-RSO briefs wildlife concerns and safe practices.</li> <li>-Section leaders supervise to ensure any dangerous or endangered wildlife are reported.</li> <li>-Crew chiefs supervise to ensure any dangerous or endangered wildlife is reported.</li> </ul>
All phases	-Marines leaving the range with ammunition	<ul style="list-style-type: none"> <li>-Lack of situational awareness.</li> <li>-Marines/Vehicles not being inspected prior to departure from range.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Ensure Marines vehicles are inspected prior to departing the range via a line-out inspection.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Platoon leadership inspects vehicles and equipment via line-out inspection.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the conduct of a line-out inspection.</li> <li>-Platoon commander and platoon sergeant inspect one another's vehicles and gear.</li> <li>-Section Leaders inspect all vehicles and crews within their section.</li> </ul>
All Phases	Hazmat/Fuel Spill	<ul style="list-style-type: none"> <li>-Vehicle malfunction or while doing maintenance repairs.</li> <li>-Improper refueling technique.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Once hazmat spill or potential is discovered, Marines properly clean, report, and control the spill.</li> <li>-Adequate control materials are brought to field.</li> <li>-Marines utilize service station method of refueling.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all hazmat spills to ensure they are handled properly.</li> <li>-Hazmat procedures are briefed to the Marines prior to leaving the RAMP.</li> <li>-Hazmat rep ensures adequate materials are present on each vehicle prior to leaving field.</li> <li>-Vehicle commanders are briefed on refueling using the service station method prior to leaving RAMP.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon sergeant draws spill kit and disseminates to sections.</li> <li>-Platoon sergeant ensures Hazmat rep has provided adequate materials before leaving RAMP.</li> <li>-Section leaders inspect and supervise vehicle maintenance within section to ensure hazmat spills are properly contained and reported.</li> <li>-Section leaders supervise refueling to ensure proper techniques are utilized.</li> <li>-Crew chiefs inspect and supervise maintenance on assigned vehicle ensuring hazmat spills are properly contained and reported.</li> </ul>

ENCLOSURE (2)

HAZARD SEVERITY		RAC ASSESSMENT CODE MATRIX					COMMAND REVIEW/APPROVAL	
<b>I - CATASTROPHIC</b> - Death, permanent disability, major property damage <b>II - CRITICAL</b> - Permanent partial disability, major system or minor property damage <b>III - MARGINAL</b> - Minor injury, minor system or property damage <b>IV - NEGLIGABLE</b> - 1 <sup>st</sup> aid, minor system repair <b>MISHAP PROBABILITY</b> <b>A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY</b> <b>RISK ASSESSMENT CODE (RAC)</b> <b>1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL</b>		H A Z A R D  S E V E R I T Y	MISHAP PROBABILITY					OIC:  RSO:  RSO:  XO/C  S-3:  1/4 C
	A		B	C	D			
I	1		1	2	3			
II	1		2	3	4			
III	2		3	4	5			
IV	3	4	5	5				

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

ENCLOSURE (63)

# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200716	TIME(S):	TRACKING #:
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UNIT: BLT 1/4, B CO, AAV PLT	OPORD: SECTION/PLT LEVEL AMPHIB OPS	DTG: 20200701	LOCATION: GOLD BEACH
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SUBJ: AAV PLATOON AMPHIBIOUS OPERATIONS

REF: (A) MAP: CAMP PENDLETON 1:50,000 AMES SERIES V795S, SHEET IV  
(B) MCTP 3-10C (EMPLOYMENT OF AMPHIBIOUS ASSAULT VEHICLES)  
(C) NAVMC 3500.2 (AAV TRAINING AND READINESS MANUAL)  
(D) MARINE CORPS ORDER 3570.1C RANGE SAFETY  
(E) MCIWEST- MARINE CORPS BASE CAMP PENDLETON ENVIRONMENTAL OPERATIONS MAP

ENCL: (1) OPERATIONAL RISK MANAGEMENT WORKSHEET  
(2) CONFIRMATION BRIEF  
(3) LOGISTICAL REQUESTS

TASK ORGANIZATION: AAV PLATOON; FIRST SECTION, SECOND SECTION, THIRD SECTION, AND COMMAND SECTION.

1. **SITUATION:** THIS FIELD TRAINING EVOLUTION WILL PREPARE THE MARINES TO EMPLOY AMPHIBIOUS ASSAULT VEHICLES (AAV'S) IOT CONDUCT FUTURE AMPHIBIOUS OPERATIONS IN SUPPORT OF THE 15TH MARINE EXPEDITIONARY UNIT (MEU).

2. **MISSION:** FROM 14-16 JULY AAV PLATOON, BRAVO COMPANY EXECUTES AMPHIBIOUS OPERATIONS IN VICINITY OF GOLD BEACH IN ORDER TO ENHANCE PROFICIENCY OF SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS TO SUPPORT FUTURE EXERCISES AS PART OF BATTALION LANDING TEAM (BLT) 1/4.

## 3. EXECUTION:

### A. COMMANDER'S INTENT.

(1) **PURPOSE.** TO INCREASE PROFICIENCY IN SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS DURING CHOP TO BATTALION LANDING TEAM 1/4 SO THE PLATOON CAN SUCCESSFULLY SUPPORT AMPHIBIOUS OPERATIONS AS PART OF THE 15TH MEU.

(2) **METHOD.** THIS TRAINING EXERCISE WILL BE ACCOMPLISHED USING THE CRAWL, WALK, RUN METHOD TO ENSURE EACH CREW IS TRAINED IN SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS AND PLATOON SOP'S ARE DEVELOPED. TRAINING WILL PROGRESS FROM CLASSROOM INSTRUCTION TO PRACTICAL APPLICATION, FOLLOWED BY CREW, SECTION, AND PLATOON LEVEL TRAINING. UTILIZING THE GOLD BEACH TRAINING AREA, SECTIONS WILL CONDUCT FORMATION DRIVING, TIME AND DISTANCE PLANNING, LOADING BOAT LANES, AND LANDING ON CENTER BEACH. ADDITIONALLY SECTIONS WILL CONDUCT IMMEDIATE ACTION DRILLS ON LAND SIMULTANEOUS TO OTHER SECTIONS CONDUCTING WATER OPERATIONS. SECTION LEVEL TRAINING WILL OCCUR DURING DAY AND NIGHT AND WILL BE FOLLOWED BY A PLATOON LEVEL EXERCISE TO INCLUDE FORMATIONS, SIMULATED DEBARKATION USING VARIOUS LAUNCH METHODS, AND LANDING AT CENTER BEACH ON TIME.

(3) **END STATE.** AAV PLATOON DEMONSTRATES PROFICIENCY AT CONDUCTING AMPHIBIOUS OPERATIONS AT THE SECTION AND PLATOON LEVEL ACCORDING TO ASSOCIATED T&R STANDARDS AND IS PREPARED FOR FUTURE AMPHIBIOUS OPERATIONS AS PART OF BLT 1/4.

B. **CONCEPT OF OPERATIONS.** THIS IS A FOUR PHASE OPERATION (PHASE I-IV). **PHASE I** WILL BE THE PREPARATION PHASE CONSISTING OF ALL NECESSARY VEHICLE, GEAR, AND PERSONNEL PREPARATIONS PRIOR TO DEPARTURE FOR THE RANGE AND LAND RECOVERY REHEARSALS. **PHASE II** WILL BE THE MOVMENT PHASE FROM R600 TO GOLD BEACH. **PHASE III** WILL BE DAY AND NIGHT

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G	(b)(3), (b)(6), (b)(7)(c) —	BN CMD
(b)(3), (b)(6), (b)(7)(c)	(b)(3), (b)(6), (b)(7)(c)	(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (2)

# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200716

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SECTION AND PLATOON TRAINING ON GOLD BEACH WITH IMMEDIATE ACTION DRILLS ON LAND. **PHASE IV** WILL BE WILL CONSIST OF RETROGRADE AND POST OPERATIONS.

(1) **PHASE I: PREPARATION PHASE. 01-14 JULY.** PHASE I HAS ALREADY BEGUN WITH FIELD AND ADMINISTRATION PREPARATIONS TO CONDUCT AMPHIBIOUS OPERATIONS CURRENTLY IN ACTION. ADMINISTRATIVE PREPARATION CONSISTS OF CLASSROOM AND PRACTICAL APPLICATION ON AMPHIBIOUS RECOVERY DRILLS AND AMPHIBIOUS OPERATION PLANNING AT THE PLATOON AND SECTION LEVEL. FIELD PREPARATION WILL INCLUDE LAND REHEARSAL FOR RECOVERY AND EVACUATION PROCEDURES, WATER AND LAND PREOPERATION CHECKLISTS, WATER TIGHT INTEGRITY TESTS, JBCP TEST AND DAGR INSTRUCTION. ONCE BOTH ADMINISTRATIVE AND FIELD PREPARATIONS ARE COMPLETE, THE PLATOON WILL RECEIVE AN OPERATIONS ORDER ON 14 JULY. THIS PHASE ENDS WHEN THE PLATOON DEPARTS R600.

(2) **PHASE II: STAGING AND MOVEMENT PHASE. 14 JULY.** THIS STAGE BEGINS WITH ALL MARINES AND EQUIPMENT ACCOUNTED FOR AND PREPARED TO CONDUCT MOVEMENT. DURING THIS PHASE, SECTION LEADERS WILL ENSURE ALL MARINES AND EQUIPMENT ARE ACCOUNTED FOR BY CONDUCTING COUNTS BEFORE AND AFTER ALL MOVEMENTS. THE PLATOON WILL CONDUCT ITS MOVEMENT FROM THE R600 to GOLD BEACH. THIS PHASE ENDS WITH THE AAV PLATOON OCCUPYING GOLD BEACH ON 14 JULY AND IS PREPARED TO CONDUCT AMPHIBIOUS OPERATIONS.

(3) **PHASE III: EXECUTION PHASE, TA GOLD BEACH. 14-16 JULY.** THIS PHASE IS BROKEN DOWN INTO TWO STAGES. STAGE A IS SECTION DAY/ NIGHT AMPHIBIOUS OPERATIONS AND IMMEDIATE ACTION DRILLS. STAGE B IS PLATOON LEVEL AMPHIBIOUS OPERATIONS.

(A) **STAGE A. 14-15 JULY.** THIS STAGE BEGINS ONCE THE PLATOON HAS ESTABLISHED A TAA AT GOLD BEACH ON 14 JULY. UPON REACHING GOLD BEACH POST OPERATION CHECKS WILL BE COMPLETED AND ALL VEHICLES WILL BE PREPARED FOR AMPHIBIOUS OPERATIONS. THE EXERCISE WILL BEGIN WITH SECTION LEVEL DAY DRIVING AND FORMATION SUSTAINMENT. EACH SECTION LEADER WILL CONDUCT FORMATION DRIVING, COMMAND AND CONTROL REHEARSALS, AND LOADING BOAT LANES USING THE BENT-L AND CROW'S FOOT METHOD. SECTION LEADERS WILL ALLOW FOR DRIVER'S AND REAR CREWMAN TO SUSTAIN THEIR AMPHIBIOUS DRIVING CAPABILITIES DURING THIS PERIOD OF THE TRAINING. AT 1500, DAY TRAINING WILL CEASE AND SECTION LEADERS WILL RECEIVE A FRAGMENTARY ORDER TO CONDUCT A SECTION LEVEL AMPHIBIOUS LANDING, SHORE-TO-SHORE MOVEMENT USING A GIVEN H-HOUR. EACH SECTION LEADER WILL CREATE A PLAN TO LAND AT CENTER BEACH THEN BRIEF THEIR SCHEME OF MANEUVER TO THEIR SECTION. SECTION LEVEL DRIVING AND FORMATION TRAINING WILL CONTINUE FOLLOWED BY SECTION LEADER BRIEFS AND EXECUTION OF THEIR PLAN. ONCE ALL THE SECTION LEADERS HAVE EXECUTED THEIR PLAN, ANOTHER REPETITION WILL BE CONDUCTED WITH ASSISTANT SECTION LEADERS LEADING THE MOVEMENT. AT THE CONCLUSION OF SECTION LEVEL DAY WATER OPERATION TRAINING THE SECTION LEADERS WILL TURN TO IMMEDIATE ACTION DRILLS UTILIZING GOLD TO CONDUCT REHEARSAL OF IED DRILLS, CASEVAC, AND TOW PROCEDURES. ONCE EACH SECTION LEADER HAS COMPLETED THEIR LAND PORTION OF REHEARSALS, THE PLATOON WILL TURN BACK TO PREPARATIONS FOR SECTION LEVEL AMPHIBIOUS NIGHT OPERATIONS. SECTION LEADERS AGAIN WILL EXECUTE THEIR PLANS TO LAND CENTER BEACH ON TIME AT NIGHT. THIS PHASE ENDS ONCE ALL SECTION LEVEL AMPHIBIOUS TRAINING HAS BEEN COMPLETED.

(B) **STAGE B. 15-16 JULY.** THIS STAGE BEGINS ON THE AFTERNOON OF 15 JULY WHEN THE PLATOON WILL CONDUCT ITS PLATOON LEVEL AMPHIBIOUS EXERCISE. AFTER RECEIVING A BRIEF THIS WILL START WITH PLATOON LEVEL FORMATION TRAINING, COMMAND AND CONTROL REHEARSALS, AND LOADING BOAT LANES USING THE BENT-L AND CROW'S FOOT METHOD. ONCE THE PLATOON HAS COMPLETED THESE TASKS AND GAINED PROFICIENCY IN LANDING ON TIME AT CENTER BEACH THEY

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CO CMDR	S-3/A	S-3	BN CMDR

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# LETTER OF INSTRUCTION

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WILL PREPARE FOR SECTION LEVEL LAND BASED TRAINING. THIS PART OF TRAINING WILL BE BROKEN DOWN INTO EACH SECTION CONDUCTING SHORT MOVEMENTS THROUGH GOLD BEACH WHERE DIFFERENT SITUATIONS WILL BE PAINTED OVER THE NET TO INCLUDE IMPROVISED EXPLOSIVE DEVICE (IED) DRILLS, CASEVAC, VEHICLE RECOVERY, AND DANGER CROSSING AREAS. THE PLATOON COMMANDER AND PLATOON SERGEANT WILL RUN EACH SECTION THROUGH THESE SCENARIOS TO PREPARE FOR PLATOON LEVEL LAND TRAINING. ONCE THE PLATOON COMPLETES THE NIGHT PORTION OF TRAINING THEY WILL GO INTO A BIVOUAC STATUS. SHOULD THE PLATOON NEED REMEDIATION OR EXTRA TRAINING TIME DUE TO AN UNSAFE SEA STATE THE TRAINING AREA WILL STILL BE AVAILABLE UNTIL 1600 ON 16 JULY. THIS PHASE WILL END ONCE THE PLATOON IS PREPARED TO RETROGRADE BACK TO 3D AABN FOR POST OPERATIONS.

**(4) PHASE IV: RETROGRADE/ POST-OPERATIONS PHASE.** 16 JULY THIS PHASE BEGINS WITH CLEARANCE FROM RANGE CONTROL TO BEGIN RETROGRADE FROM GOLD BEACH TO 3D AABN RAMP. THE PLATOON WILL TRAVEL IN A TACTICAL COLUMN ALONG THE COASTLINE BACK TO THE RAMP. ONCE ON THE RAMP, VEHICLE WASH DOWNS WILL OCCUR, ALL WEAPONS AND SERIALIZED GEAR WILL BE CLEANED AND TURNED IN, AND AFTER ACTIONS WILL BE COMPLETED. THIS PHASE ENDS ONCE THE FINAL SIGHT COUNT IS COMPLETED.

## C. TASKS

<b>OIC</b>	<p>T1: ENSURE YOU HAVE PRIOR APPROVAL OF ALL TRAINING IN THE T.A.</p> <p>P2: IOT MAINTAIN POSITIVE CONTROL OF ALL TRAINING, AS YOU ARE DIRECTLY RESPONSIBLE FOR EVERYTHING THAT TAKES PLACE.</p> <p>T2: ENSURE PROPER SURF OBSERVATION REPORTS ARE CONDUCTED.</p> <p>P2: IOT ENSURE SAFE AMPHIBIOUS OPERATIONS TRAINING FOR THE PLATOON.</p>
<b>RSO</b>	<p>T1: ENSURE SAFE CONDUCT OF TRAINING THROUGH DILIGENT AND INTRUSIVE OVER-WATCH OF ANYTHING RELATED TO SAFETY.</p> <p>P1: IOT PREVENT ANY UNSAFE ACTIONS FROM TAKING PLACE.</p> <p>T2: COMMUNICATE WITH BATTALION AND RANGE CONTROL.</p> <p>P2: IOT ENSURE TRAINING IS CONDUCTED SAFELY IN ACCORDANCE WITH SOPS.</p>
<b>PLATOON SERGEANT</b>	<p>T1: COORDINATE WITH ALL LOGISTICAL AND OPERATIONS SOURCES.</p> <p>P1: IOT ENSURE ALL REQUIREMENTS TO CONDUCT THIS RANGE ARE IN PLACE TO INCLUDE BUT NOT LIMITED TO, CHOW, WATER, FUEL, COMMUNICATION ASSETS, SAFETY VEHICLES AND RE-SUPPLY, PYROTECHNICS, AND MAINTENANCE CONTACT TEAM.</p> <p>T2: ENSURE ALL PRE AND POST-OP CHECKS ARE CONDUCTED ACCORDING TO SOP.</p> <p>P2: IOT SET CONDITIONS FOR SAFE WATER AND LAND OPERATIONS.</p> <p>T3: CREATE AN EQUIPMENT DENSITY LIST OF ALL THE PLATOON SERIALIZED GEAR.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF ALL SERIALIZED GEAR FOR THE DURATION OF THE EXERCISE.</p> <p>T4: SUPERVISE ALL MAINTENANCE, RECOVERY, AND CASUALTY EVACUATION.</p> <p>P4: IOT ENSURE COMPLIANCE WITH APPROPRIATE PROCEDURES.</p>
<b>SECTION LEADERS</b>	<p>T1: CONDUCT GEAR INSPECTION NLT 09 JULY.</p> <p>P1: IOT CONFIRM GEAR ACCOUNTABILITY AND UNIFORMITY.</p> <p>T2: CONDUCT LAND REHEARSALS FOR RECOVERY OPERATIONS NLT 09 JULY.</p> <p>T2: IOT SUSTAIN RECOVERY OPERATIONS AND PROCEDURES PRIOR TO GOING FEET WET.</p> <p>T3: INFORM PLATOON SERGEANT OF ALL MAINTENANCE AND READINESS ISSUES.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF VEHICLES AND PERSONNEL.</p> <p>T4: UPON ARRIVAL AT GOLD BEACH, BPT TO BRIEF A FRAGMENTARY ORER AND LEAD A SECTION LEVEL AMPHIBIOUS ASSAULT.</p> <p>P4: IOT INCREASE PROFICIENCY IN SECTION LEVEL AMPHIBIOUS OPERATIONS.</p> <p>T5: UPON RETURN TO 3D AABN RAMP SUPERVISE AND CONDUCT POST OPERATIONS AND REPORT ANY DISCREPANCIES TO MAINTENANCE.</p>

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ENCLOSURE (63)

# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200726	TIME(S):	TRACKING #:
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	P5: IOT ENABLE RAPID REPAIR OF VEHICLES FOR UPCOMING SHIP OPS.
CORPSMAN	T1: INVENTORY MEDICAL SUPPLIES THAT ARE BEING BROUGHT TO THE FIELD. P1: IOT ENSURE THAT THE EQUIPMENT ALLOWS PROPER AID FOR ALL POTENTIAL INJURIES AT BLUE BEACH. T2: PLAN GROUND MEDEVAC ROUTES FROM TO HIGHER ECHELON OF MEDICAL CARE. P2: IOT ELIMINATE WASTED TIME IN TRANSPORTING CASUALTY TO MEDICAL CARE.
COMM CHIEF	T1: NLT 09 JULY ENSURE ALL VEHICLE'S COMMUNICATION EQUIPMENT HAS BEEN INSPECTED, EVALUATED, AND ARE OPERATIONAL. P1: IOT FACILITATE COMMUNICATIONS DURING TRAINING THROUGHOUT TRAINING EXERCISE. T2: NLT 09 JULY SUPERVISE THE PREPARATION AND OPERATION OF PLATOON COMMUNICATION ASSETS. P2: IOT ENSURE PROPER LOADING OF CRYPTOGRAPHIC INFORMATION ENSURING ALL COMMUNICATION SECURITY PROCEDURES ARE BEING FOLLOWED. T3: ENSURE EACH AAV CAN ESTABLISH COMMUNICATIONS WITH THE OIC AND RSO. P3: IOT ENSURE THE SAFE CONDUCT AND EXECUTION OF THIS EXERCISE. T4: ESTABLISH COMMUNICATIONS WITH BATTALION. P4: IOT SEND SITUATIONAL REPORTS AND LOGISTICAL REQUESTS AS REQUIRED.
MAIN CHIEF	T1: ENSURE ALL VEHICLES ARE PROPERLY PREPARED FOR FIELD TRAINING TO INCLUDE ANNOTATION AND RECONCILIATION OF ALL DISCREPANCIES. P1: IOT ENSURE VEHICLES ARE READY FOR CONDUCT OF AMPHIBIOUS OPERATIONS. T2: ASSEMBLE AND MAINTAIN A DSI FOR THE EXERCISE. P2: IOT ENSURE MAINTENANCE CAN BE CONDUCTED IN THE FIELD TO COMPLETE THIS TRAINING EXERCISE.

## D. COORDINATING INSTRUCTIONS

- (1) REQUIRED FACILITIES. GOLD BEACH
- (2) OIC.
- (3) RSO. (b)(3), (b)(6), (b)(7)(c)
- (4) TIMELINE. 14-16 JULY 2020

14 JULY  
1600 OCCUPY GOLD BEACH  
1700 SUROB  
1730 SAFETY BRIEF  
1800 SECTION DAY  
2000 NIGHT SAFETY BRIEF/SUROB  
2030 NIGHT SECTION  
2359 REST PLAN

15 JULY  
0600 REVILLE  
0700 PRE OPS/SUROB  
0800 SAFETY BRIEF  
0900 SECTION DAY  
1100 SUROB  
1130 PLATOON DAY  
1500 SUROB

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# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

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1900 NIGHT SAFETY BRIEF/SUOB  
2000 NIGHT SECTION  
2200 NIGHT PLATOON  
2359 REST PLAN

16 JULY  
0600 REVEILLE  
0700 RANGE CLEANUP  
1000 MOVEMENT TO 3D AABN RAMP  
1100 POST OP PROCEDURES  
1600 PLATOON SECURED

## (5) TACTICAL CONTROL MEASURES (TCMS)/ POINTS OF INTEREST

TCM (PRIMARY NUMBERED, ALTERNATE LETTER)	LOCATION
LCAC TOWER	11S MS 5922 7995
WARRIORS COVE	11S MS 5570 8488
HOLE IN THE WALL	11S MS 5509 8632
LAS PULGAS CROSS	11S MS 5763 8501
BASILONE CROSS	11S MS 6246 8987
GOLD BEACH	11S MS 5556 8505
POINTS OF INTEREST	LOCATION
AXP-1 (END OF RUNWAY)	11S MS 6260 7570
21 AREA BAS	11S MS 6300 7600
41 AREA BAS	11S MS 5928 8293
43 AREA BAS	11S MS 6190 8980
NAVAL HOSPITAL	11S MS 6360 7610

(6) RATE(S) OF MARCH AND DISPERSION. 20 MPH IN TRAINING AREAS WITH 50-75 METER DISPERSION. IN LOW LIGHT CONDITIONS, 15 MPH AND 50-75 METER DISPERSION. 5 MPH IN CONGESTED AREAS WHILE UTILIZING GROUND GUIDES. DURING THE MOVEMENT THE PLATOON WILL TRAVEL IN A COLUMN STAYING IN THE HIGH WATER MARK IN ACCORDANCE WITH ENVIRONMENTAL CONSIDERATIONS.

## (7) NO COMMUNICATION PLAN

A. PHASE I. NOT APPLICABLE

B. PHASE II/IV MOVEMENT TO AND FROM GOLD BEACH TA. IF COMMUNICATION IS LOST DURING THE PLATOON MOVEMENT THEY WILL UTILIZE HAND AND ARM SIGNALS OR A MESSENGER. THE VEHICLE WILL CONTINUE TO TRY TO RE-ESTABLISH COMMUNICATION DURING THE MOVEMENT. WHILE IN A PLATOON COLUMN, THE PLATOON WILL CONTINUE TO MOVE AS LONG AS THE FIRST AND LAST VEHICLE HAVE COMMUNICATIONS WITH THE PLATOON COMMANDER OR PLATOON SERGEANT. IF COMMUNICATION LOST BETWEEN THESE THREE VEHICLES THE PLATOON WILL HALT FOR NO LONGER THAN 10 MINUTES AND RE-ESTABLISH COMM. IF IT CANNOT BE RE-ESTABLISHED THEN THE PLATOON WILL CONTINUE THEIR MOVEMENT WITH THE 1ST SECTION LEADER TAKING TACTICAL CONTROL WHILE THE PLATOON COMMANDER TRIES TO RE-ESTABLISH COMM WHILE MOVING. RANGE FLAG WILL BE UTILIZED TO PASS THE COMMUNICATION STATUS OF THE VEHICLE TO THOSE AROUND IT. GREEN WILL MEAN "HEAR BUT CANNOT SPEAK", YELLOW WILL MEAN "CANNOT HEAR OR SPEAK" AND RED MEANS EMERGENCY IN THE VEHICLE AND NEED ASSISTANCE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH

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TRACKING #:

LONGRIFLE, TRAINING WILL CEASE AND COMMUNICATION WILL BE RE-ESTABLISHED.

C. PHASE III EXECUTION OF AMPHIBIOUS OPERATIONS. THE AAVC7 WILL BE UTILIZED AS THE COMMAND CENTER FOR THE PLATOON TO TRANSMIT TO AND FROM BATTALION. IF COMMUNICATION GOES DOWN SECTION INTERNAL THEY WILL UTILIZE HAND AND ARM SIGNALS AS WELL AS THE RANGE FLAG SYSTEM AS PREVIOUSLY MENTIONED IN PHASES II/IV. EMERGENCY SIGNAL WILL BE IN ACCORDANCE WITH AMPHIBIOUS OPERATIONS STANDARD OPERATING PROCEDURES UTILIZING THE NOVEMBER FLAG, SPOTLIGHT AND WHITE AND RED STAR CLUSTERS. DURING NIGHT TIME EVOLUTION CHEMSTICKS WILL BE USED IN ACCORDANCE WITH THE RANGE FLAGS. IR CHEMSTICKS WILL BE USED IF NECESSARY FOR HAND AND ARM SIGNAL COMMUNICATION WHILE CONDUCTING WATERBORNE OPERATIONS. AS A CONTINGENCY PLAN IN CASE OF AN EMERGENCY THE SECTION LEADER WILL HAVE BLACK GEAR IN CASE OF A CATASTROPHIC COMMUNICATION FAILURE SO THEY CAN STILL COMMUNICATE WITH THE RSO AND OIC. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

(8) LOST MARINE PLAN. IF A MARINE HAS BEEN IDENTIFIED AS MISSING, ALL MOVEMENT AND TRAINING WILL CEASE AND THE PLATOON WILL GAIN ACCOUNTABILITY OF ALL PERSONNEL AND EQUIPMENT BEFORE BACKTRACKING THE PREVIOUS ROUTE UNTIL THE MARINE IS FOUND. ACCOUNTABILITY WILL BE MAINTAINED BY CONDUCTING CHECKS BEFORE AND AFTER ANY MOVEMENT. ALL MARINES WILL INFORM THEIR CHAIN OF COMMAND WHEN THEY LEAVE THE IMMEDIATE AREA OF THE PLATOON. THEY WILL TRAVEL IN PAIRS AND NEVER MOVE MORE THAN 50M AWAY FROM THE PLATOON. ALL MARINES WILL CARRY A WATER SOURCE WHEN STEPPING AWAY FROM THE VEHICLE. WHILE MOVING TO AND FROM THE RANGE. DURING PHASE II AND IV, IF A MARINE BECOMES LOST THEY WILL REMAIN IN PLACE FOR 2 HOURS AND THEN BACKTRACK SOUTH VIA THE COASTLINE TO 3D AABN. ON RETURN TO 3D AABN THEY WILL CONTACT THE PLATOON COMMANDER OR PLATOON SERGEANT VIA THE OOD.

## (9) GO/NO GO CRITERIA

- A. CORPSMAN PRESENT AND PREPARED FOR CONDUCT OF EXERCISE.
- B. MAINTAIN POSITIVE COMMUNICATIONS WITH LONG RIFLE.
- C. SEA STATE GREATER THAN 3.
- D. LESS THAN SIX AAVP7'S OPERATIONAL.

(10) ORDER OF MARCH. VEHICLES WILL MOVE SECTION ORDER NUMERICALLY 1ST SECTION, 2ND SECTION, 3RD SECTION, COMMUNICATION SECTION. ONCE SECTION OPERATIONS TAKE PLACE, IT IS SECTION LEADER DISCRETION TO ACCOMPLISH THE MISSION.

(12) LAUNCHING AND RETURNING. THE SPLASH TEAM WILL ENSURE THAT THE MOST RECENTLY LAUNCHED VEHICLE IS AT LEAST 50 YARDS AWAY FROM THE LAUNCH POINT BEFORE LAUNCHING SUCCESSIVE VEHICLES. THE MARINES LAUNCHING SUCCESSIVE VEHICLES AS PART OF THE SPLASH TEAM WILL UTILIZE RED AND GREEN FLAGS TO SIGNAL WHEN AN AAV IS CLEARED/ NOT CLEARED TO LAUNCH. THE PLATOON SERGEANT WILL BE IN CHARGE OF THE SPLASH TEAM. THE 1ST SECTION LEADER WILL TAKE CHARGE OF THE SPLASH TEAM SHOULD THE PLATOON SERGEANT BE UNAVAILABLE.

## (13) VEHICLE RECOVERY PLAN.

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN CMDR

ENCLOSURE (63)



# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200716

TIME(S):

TRACKING #:

A. LAND. 10 MINUTES TO TROUBLESHOOT AND 20 MINUTES TO FIX. PLATOON SERGEANT IS THE PRIMARY RECOVERY TEAM. 3RD SECTION, OR LEAST ENGAGED SECTION IS THE ALTERNATE RECOVERY TEAM. ON THE MOVEMENT IF A VEHICLE NEEDS TO BE TOWED THE PLATOON SERGEANT WILL REMAIN PRIMARY TOW VEHICLE WHILE THE REMAINDER OF THE PLATOON FORMS A DEFENSIVE POSTURE TO RECOVER THE DOWNED VEHICLE. IF THE PLATOON SERGEANT VEHICLE NEEDS TO BE RECOVERED, A DEFENSIVE POSTURE WILL BE FORMED TO RECOVER DOWNED VEHICLE BY 3RD SECTION. ALL EFFORTS WILL BE MADE TO REPAIR VEHICLES IN THE FIELD AND MOVE THEM TO THE TAA.

B. WATER. DURING WATER OPERATIONS THE PRIMARY RECOVERY VEHICLE WILL BE SECTION INTERNAL WITH THE ASSISTANT SECTION LEADER BEING THE PRIMARY TOW VEHICLE. TWO ADDITIONAL VEHICLES WILL BE ON STANDBY SHOULD A VEHICLE NEEDED TO BE TOWED. THE PRIMARY TO TOW METHOD WILL BE AFT TO AFT.

(14) BUMP PLAN. VEHICLE CREW AND EMBARKED PERSONNEL FROM THE DISABLED VEHICLE WILL BUMP TO THE SECTION LEADER'S VEHICLE. IF PLATOON SERGEANT'S VEHICLE IS THE DOWNED VEHICLE, CREW AND EMBARKED PERSONNEL WILL BUMP TO VEHICLE 3-15-11, 3-15-7, 3-15-3.

(15) UNIFORM AND GEAR. ALL HANDS WILL WEAR FIRE RESISTANT ORGANIZATION GEAR (FROG), APPROPRIATE PPE, AND LPU'S DURING AMPHIBIOUS TRAINING.

(16) PPE. PPE WILL BE WORN AT ALL TIMES WHILE CONDUCTING TRAINING. PPE CONSISTS OF KEVLAR/ FROG, EYE PRO, EAR PRO, GLOVES, PLATE CARRIERS. IFAK'S WILL BE WORN OR IN THE MARINES STATION AT ALL TIMES. GAS MASK WILL BE ACCESSIBLE TO BE DONNED AT ANY POINT BY THE MARINE DURING THE EXERCISE.

## (18) MARKING PLAN

(B) PERSONNEL MARKING PLAN. THE OIC, RSO, AND CORPSMAN WILL BE MARKED WITH A WHITE CHEMSTICK DURING ALL SECTION LEVEL NIGHT TRAINING EVOLUTIONS.

(C) VEHICLE MARKING PLAN. FOR NIGHT TRAINING AS A SAFETY MEASURE EACH VEHICLE WILL BE MARKED WITH ONE YELLOW CHEMSTICK ON THE STARBOARD ANTENNA. THE PLATOON COMMANDER WILL HAVE TWO YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA AND THE PLATOON SERGEANT WILL HAVE THREE YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA.

(19) SAFETY DRIVERS AND CORPSMAN. THE SAFETY DRIVER AND CORPSMAN WILL BE LOCATED AT GOLD BEACH. SAFETY DRIVERS WILL BE WILL BE REQUIRED TO BACK-BRIEF THE RSO THE ROUTE TO THE NAVAL HOSPITAL IN CASE OF AN EMERGENCY. IN ADDITION TO A BACK-BRIEF, THE RSO WILL PASS SPECIFIC GUIDANCE THAT THE SAFETY DRIVER IS NO MORE THAN AN ARMS-REACH AWAY FROM THE VEHICLE, THE BACK OF THEIR VEHICLE IS KEPT CLEAR OF EQUIPMENT AND DEBRIS, AND THAT THYE KEEP THEIR PPE STAGED ON THE VEHICLE.

## 4. ADMINISTRATION AND LOGISTICS

### A. ADMINISTRATION

(1) PERSONNEL COUNT (MO/ME/NO/NE). 1/57/0/1 TOTAL 59

(2) VEHICLE COUNT (BY TYPE AND QTY). (12) AAVP7S, (1) AAVC7, (1) AAVR7

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN CMDR

ENCLOSURE (63)

# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200716

TIME(S):

TRACKING #:

## (3) ASTRONOMICAL DATA

DATE	SUNRISE	SUNSET	ILLUMINATION
10 JULY	05:48	20:00	73%
11 JULY	05:49	20:00	64%
12 JULY	05:49	20:00	54%
13 JULY	05:50	19:59	44%
14 JULY	05:51	19:59	34%
15 JULY	05:52	19:58	30%
16 JULY	05:53	19:58	22%

(4) CASUALTY EVACUATION (CASEVAC) PLAN. IN THE EVENT OF A CASUALTY ALL TRAINING WILL CEASE AND LONGRIFLE WILL IMMEDIATELY BE NOTIFIED WHILE THE CASUALTY IS EVALUATED BY THE CORPSMAN. COMMUNICATION WILL TAKE PLACE USING A NATO 9-LINE AND WILL BE MADE BY THE OIC, RSO, OR CORPSMAN. DAYTIME LZ FOR AIR CASEVAC WILL BE MARKED BY A TACTICAL VEHICLE WITH AIR PANEL AND NIGHT TIME WILL BE WITH USING A CHEMSTICK BUZZSAW. THE PRIMARY MEANS WILL BE AAV TO 3D AABN RAMP, AMBULANCE or POV TO 21 AREA BAS OR NAVAL HOSPITAL.

(A) URGENT AND PRIORITY CASUALTIES. IN THE EVENT OF AN URGENT OR PRIORITY CASUALTY THE CORPSMAN WILL PROVIDE INITIAL EVALUATION AND TREATMENT OF THE INJURED MARINE. LONGRIFLE WILL BE CONTACTED IMMEDIATELY. IN THE CASE OF A GROUND MEDEVAC THE INJURED MARINE WILL BE TRANSPORTED VIA SAFETY VEHICLE TO A HIGHER ECHELON OF MEDICAL CARE. DEPENDING ON THEIR INJURY THEY WILL BE TRANSPORTED TO 3D AABN RAMP. IF AN AMBULANCE TRANSFER IS NOT NECESSARY THEY WILL BE TRANSPORTED TO 21 AREA BAS OR THE NAVAL HOSPITAL VIA THE SAFETY VEHICLE.

(B) ROUTINE CASUALTIES. IF A ROUTINE CASUALTY OCCURS IN ANY OF THE TRAINING AREAS TRAINING WILL CEASE AND LONGRIFLE WILL BE NOTIFIED. THE CORPSMAN WILL PROVIDE INITIAL ASSESSMENT AND TREATMENT. BASED ON THE RECOMMENDATION OF THE CORPSMAN AND THE SEVERITY OF THE INJURY THE OIC/ RSO WILL DETERMINE IF THE MARINE WILL REMAIN IN THE FIELD OR NEEDS TO BE TRANSPORTED BACK TO THE 21 AREA BAS.

## B. LOGISTICS

### (1) AMMO.

AMMUNITION	DODIC	QUANTITY
SIGNAL, ILLUM STAR WHIT	L172	14
SIGNAL, ILLUM STAR RED	L170	14

(2) FOOD, WATER, REFUEL. THE PLATOON WILL HAVE 74 CASES OF MRE'S TO SUSTAIN THE ENTIRETY OF THE TRAINING EXERCISE. EACH AAV WILL CARRY 15 GALLONS OF WATER FOR THE ENTIRETY OF THE TRAINING.

(3) RECOVERY ASSETS. THE PLATOON WILL HAVE (10) TOW BARS. THE PLATOON SERGEANT'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE PLATOON. THE ASSISTANT SECTION LEADER'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE SECTION. DURING AMPHIBIOUS OPERATIONS TOW ROPES WILL BE UTILIZED TO RECOVER VEHICLES.

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN CMDR

ENCLOSURE (63)

# LETTER OF INSTRUCTION

GOLD BEACH - COMPANY B

DATE(S): 20200714-20200716

TIME(S):

TRACKING #:

## 5. COMMAND AND SIGNAL:

### A. COMMAND

(1) POINTS OF CONTACT. PLATOON COMMANDER

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

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

(2) LOCATION OF KEY LEADERS. OIC WILL BE LOCATED IN VEHICLE 3-15-04. PLATOON SERGEANT WILL BE IN VEHICLE 3-15-12 WITH THE CORPSMAN DURING MOVEMENTS.

### B. SIGNAL.

DESCRIPTION	PRIMARY	ALTERNATE	CONTINGENCY
AAV DISABLED	VHF	NOVEMBER FLAG RAISED	WHITE STAR CLUSTER
AAV SINKING	VHF	NOVEMBER FLAG WAVED	RED STAR CLUSTER

	PRIMARY	ALTERNATE	CONTINGENCY	EMERGENCY
RANGE CONTROL - "LONGRIFLE"	40.35MHZ (VHF)	30.35MHZ (VHF)		KEY LEADER CELL PHONE
PLATOON	PLT TAC 1 NET ID (541) VHF	PLT TAC 2 NET ID (546) VHF	BLACK GEAR	KEY LEADER CELL PHONE
BATTALION	TAC 1 (300) HF	TAC 2 (301) HF	JBC-P	

OFFICIAL

COMMANDING

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

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN

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

ENCLOSURE (63)

<b>DATE</b> 20200714-20200716	<b>UNIT</b> 1/4 B CO AAV PLT	<b>RANGE/TA</b> Gold Beach	<b>TRAINING TO BE CONDUCTED</b> Amphibious Operations
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<b>OIC</b> (b)(3), (b)(6), (b)(7)(c)	<b>RSO</b> (b)(3), (b)(6), (b)(7)(c)	<b>PERSONNEL</b> 1 MO 57 ME 1 NE
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**MISSION:** From 14-16 July the AAV Platoon executes amphibious operations at Gold Beach in order to enhance proficiency of the Sections and Platoon to support future amphibious training ISO the 15th MEU.

MAP CHIP	TIMELINE
	<b>14 JULY</b> 1600 OCCUPY GOLD BEACH 1700 SUROB 1730 SAFETY BRIEF 1800 SECTION DAY 2000 NIGHT SAFETY BRIEF/SUROB 2030 NIGHT SECTION 2359 REST PLAN  <b>15 JULY</b> 0600 REVILLE 0700 PRE OPS/SUROB 0800 SAFETY BRIEF 0900 SECTION DAY 1100 SUROB 1130 PLATOON DAY 1500 SUROB 1900 NIGHT SAFETY BRIEF/SUROB 2000 NIGHT SECTION 2200 NIGHT PLATOON 2359 REST PLAN  <b>16 JULY</b> 0600 REVEILLE 0700 RANGE CLEANUP 1000 MOVEMENT TO 3D AABN RAMP 1100 POST OP PROCEDURES 1600 PLATOON SECURED

<b>Evaluator/ A.I. Requirements</b>  Platoon Commander and Platoon Sergeant will evaluate the crews and sections on their abilities to employ and control the AAV in the water.	<b>TRANSPORT</b> Platoon will self-lift to and from the beach utilizing 13 AAV P7s, 1 AAV C7, and 1 AAV R7	<b>LOGISTICS</b> Marines will be issued (5) DOS chow/water prior to transport, water jugs will be brought for sustenance.	<b>UNIFORM</b> Frogs with boonie cover, PPE Level 1 (plate carrier w/ front/rear SAPIs, Kevlar, eyep/earpro) and WECS.
	<b>COMMUNICATION PLAN</b> AAVs will be used as primary, with PRC-117/150s as secondary once the range has been occupied. Comms w/ Longrifle via AAV/PRC-117(SC/PT). Platoon internal safety structure maintained on Mk-153 black gear.		<b>MEDICAL REQ.</b> (1) Corpsman will be located with safety vehicle 3-15-12.



# T&R Tasks



- 1833-GNRY-1101 Install M2 .50 Cal HB Machine Gun
- 1833-GNRY-1110 Install MK 19 Mod 3 40mm Machine Gun
- 1833-GNRY-1118 Install M240G 7.62mm Machine Gun on AAVC7A1
- 1833-CMDC-1205 Identify Standard Flags, Lights, and Markers Used to Control AAV
- 1833-VOPS-1301 Conduct Preoperations Checks
- 1833-VOPS-1302 Conduct Water Preoperation Checks
- 1833-VOPS-1306 Start AAV Engine Under Normal Conditions
- 1833-VOPS-1310 Operate AAV on Land
- 1833-VOPS-1311 Operate AAV in Water
- 1833-VOPS-1316 Refuel an AAV
- 1833-TAC-1707 Conduct Evacuation of Personnel from Disabled/Sinking AAV
- 1833-VOPS-2303 Maintain Night Vision Goggles
- 1833-VOPS-2304 Operate Night Vision Goggles

UNCLASSIFIED

ENCLOSURE (63)



# T&R Tasks Cont



- 1833-AMPH-2606 Develop Surf Observation (SUROB) Report
- 1833-AMPH-2608 Supervise Splash Team Operations
- 1833-TAC-2705 Prepare AAV for Night/Limited Visibility Operations
- 2141-MAIN-1002 Operate AAV

UNCLASSIFIED

ENCLOSURE (3)

**OPERATIONAL RISK MANAGEMENT MATRIX**  
**Marine Corps Base Camp Pendleton**

TRAINING EVOLUTION: Amphibious Training Gold Beach		ORGANIZATION:  BLT 1/4 Bravo CO AAV Plt	Assigned OIC:  (b)(3), (b)(6), (b)(7)(c)	Assigned RSO:  (b)(3), (b)(6), (b)(7)(c)	Weapons Systems:		Date:  20200714-20200716
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
Phase III	Vehicle accident while operating at night on land and in water	-Night Vision Devices (NVDs) not functioning properly. -Ground guides not utilized in congested areas. -Crew unfamiliar with night operations.	I/C=2	-All night optics op-checked prior to departing for TA, and before dark each night. -All Marines utilizing NVD's while conducting night-time movements. -Night time marking plan. -Ground guide according to Standard Operating Procedures.	I/D=3	-Vehicle commanders function check the NVDs on their own vehicle. -Marines driving are briefed that they are required to wear NVDs during each night-time evolution. -Platoon briefed on night scheme of maneuver. -Chem lights are used by ground guides to move AAV's.	-Section leaders and Platoon Sergeant spot check NVDs for function. -Section Leaders conduct ROC walk for night time considerations during amphibious operations. -Ensure ground guides have chem lights to ground guide.
All Phases	Vehicle fire resulting in injuries.	-Mechanical malfunctions which cause fire.	I/C=2	-Vehicle Commanders report any potentially dangerous problems. -Vehicle not utilized until mechanical issue is resolved. -Manual fire bottles on every AAV inspected and weighed by maintainers. -AFSSS tested by maintainers.	I/D=3	-Vehicle commanders monitor status of vehicles. -Vehicle Commanders check fire bottle tags prior to operation to ensure date is current. -Vehicle commanders verify AFSSS is unobstructed by SL-3.	-Section leaders monitor maintenance issues and report to Platoon Sergeant. -Platoon Sergeant ensures all vehicles operating have no mechanical issues. -Marines back brief section leaders on proper use and status of manual fire bottles. -Section leaders inspect sections to verify AFSSS is unobstructed in all vehicles and fire bottles have current tags.
Phase II/III	Personnel Drowning / Falling off AAV	-LPU's serviceability not checked prior to executing training. -Marines not maintaining 3 points of contact on top of vehicles.	IIC=3	-Common SOP for Amphibious Operations. -Pre-operation checklists include LPU serviceability.	IID=4	-Vehicle Commanders conduct PCCs/PCIs to include LPU's inspection.	-Section Leaders monitor PCC's / PCI's for their section. -OIC/RSO conduct safety brief prior to executing training.

ENCLOSURE (3)

Phase II/III	AAV Sinking	<ul style="list-style-type: none"> <li>-Vehicle collision.</li> <li>-Vehicle noses down while moving in water.</li> <li>-Mechanical Failure.</li> <li>-Improper pre-water operations checklist completed.</li> </ul>	ID=3	<ul style="list-style-type: none"> <li>-50m dispersion unless conducting recovery.</li> <li>-Water tight integrity checks.</li> <li>-2200 RPM speed limit.</li> <li>-Common SOP for amphibious operations.</li> </ul>	IID=4	<ul style="list-style-type: none"> <li>-Platoon briefed operations order.</li> <li>-Designate splash team.</li> <li>-Provide section leaders and Platoon Sergeant with Pre-Water Ops checklist.</li> </ul>	<ul style="list-style-type: none"> <li>-OIC/RSO monitor splashes and speeds.</li> <li>-Platoon Sergeant or 1st section leader command splash team.</li> <li>-Section leaders inspect pre-water op checklist after completion.</li> </ul>
All Phases	Land Collision	<ul style="list-style-type: none"> <li>-Operating at unsafe speeds.</li> <li>-Following too close.</li> <li>-Improper dispersion</li> </ul>	IIC=3	<ul style="list-style-type: none"> <li>-Establish rates of march.</li> <li>-Establish dispersion for day and night movements.</li> <li>-Vehicle Commander navigating driver.</li> </ul>	IID=4	<ul style="list-style-type: none"> <li>-Rate of march and dispersion covered in op order.</li> <li>-Safety brief with emphasis on ground guided in congested areas.</li> </ul>	<ul style="list-style-type: none"> <li>-Section leader monitors speed/dispersion.</li> <li>-Vehicle commander supervision speed, dispersion, route selection.</li> </ul>
Phase II/III	Vehicle Recovery Accidents	<ul style="list-style-type: none"> <li>-Improper towing procedures utilized.</li> <li>-Equipment failure while towing.</li> </ul>	IIC=3	<ul style="list-style-type: none"> <li>-Common SOP for Amphibious Operations.</li> <li>-AAV recovery TTP's understood by Marines.</li> <li>-Pre-operation checklists include recovery equipment.</li> </ul>	IID=4	<ul style="list-style-type: none"> <li>-Section leaders have Marines rehearse recovery operations/SOP.</li> <li>-Provide Pre-Water Op Checklists for recovery equipment.</li> </ul>	<ul style="list-style-type: none"> <li>-Vehicle Commanders monitor recovery operations.</li> <li>-OIC/RSO conduct safety brief on recovery operations.</li> </ul>
All Phases	Personnel injuries on AAVs.	<ul style="list-style-type: none"> <li>-Marines injured by unsecured hatches, improperly stowed gear.</li> <li>-Improper mounting of AAV.</li> <li>-Improper wear of PPE.</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-All hatches and gear are strapped down according to SOP.</li> <li>-Ensure personnel maintain 3 points of contact when mounting the AAV.</li> <li>-Enforce proper PPE while on AAV (i.e. eye protection, ear protection, gloves, steel toe boots, plate carrier).</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-Leadership supervises stowage of gear.</li> <li>-Conduct a brief on safety precautions within the Common SOP; to include wearing PPE, "chest-high" defilade in the hatches and safe practices.</li> </ul>	<ul style="list-style-type: none"> <li>-Vehicle commanders supervise crews to ensure proper stowage of gear and hatch security.</li> <li>-Platoon leadership supervise the platoon to ensure PPE is worn and SOP's are being followed.</li> <li>-Section leaders supervise sections to ensure Marines are properly mounting vehicles.</li> </ul>
All Phases	Hazmat/Fuel Spill.	<ul style="list-style-type: none"> <li>-Vehicle malfunction or while doing maintenance repairs.</li> <li>-Not cleaning POL's out of hull.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Once hazmat spill or potential is discovered, Marines properly clean, report, and control the spill.</li> <li>-Adequate control materials are brought to field.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all hazmat spills to ensure they are handled properly.</li> <li>-Hazmat procedures are briefed to the Marines prior to leaving the RAMP.</li> <li>-Hazmat rep ensures adequate materials are present on each vehicle prior to leaving field.</li> </ul>	<ul style="list-style-type: none"> <li>-Section leader monitors hazmat spills to ensure proper techniques are followed.</li> <li>-Vehicle commanders back brief platoon leadership on hazmat procedures prior to leaving RAMP.</li> <li>-Platoon sergeant ensures Hazmat rep has provided adequate materials before leaving RAMP.</li> </ul>

ENCLOSURE (3)



All Phases	LZ FOD (CASEVAC)	-Blowing visible FOD due to rotor wash.	I/C=2	-Ensure that landing surface/LZ is clear of FOD prior to conducting landing operations.	I/D=3	-Have a fire team size group of Marines sweep the LZ before landing.	-Platoon commander/Platoon sergeant visually inspect landing zone.
All Phases	Loss of personnel and/or equipment	- Lack of accountability for personnel and/or gear.	IIID=5	-Op Order covers Lost Marine Plan -EDL rosters on hand. -NVG's dummy corded to body.	IVD=5	- Accountability and EDL checks periodically throughout training. -Platoon Sergeant verifies morning/evening EDL. -Prior to operation ensure all NVG's have 550 chord attached.	-Platoon Leadership ensures strict accountability and briefs chain of command in any instance where a Marine or piece of equipment is not accounted for. -Spot check dummy corded NVG's.
All Phases	Weather exposure casualties (Heat).	-Marines not eating/drinking properly. -Excessive heat of vehicle when wearing PPE.	II/C=3	-Vehicle commanders monitor all crew members to ensure they are eating and drinking enough water. -Any time vehicles are not needed for rehearsals, crew members remove PPE and turn off the vehicle unless moving outside of it. -Each vehicle has (2) two designated water jugs and a cami net.	II/D=4	-Marines briefed on importance of nutrition/hydration in the field. -Section leaders ensure adequate water on each vehicle prior to rehearsals.	-Marines back brief Platoon commander on importance of hydration/nutrition. - Platoon Sergeant ensures Marines are provided with food and water. -Corpsman observes Marines to ensure they are not becoming weather casualties. -Vehicle Commanders monitoring Crewman's hydration/ nutrition.
All Phases	Wildlife/ Environmental Hazards	-Marines harassing animals - Operating in environmental protected areas.	IIC=3	-Brief animal/ environment considerations and their likely locations. -Verify environmental protected areas via environmental map.	IID=4	-During OpOrder brief platoon environmental considerations/ markings. -During safety brief animal considerations. -Corpsman present.	-RSO/OIC briefs wildlife concerns and safe practices. -During transit platoon staff ensures vehicles stay clear of environmentally protected areas.
Phases II/III	Weather impeding training	-Sea State above sea state 3. -High winds, lightning.	IID=4	-OIC/RSO shifts training exercise if needed to ensure maximum training is met.	IVD=5	-OIC/RSO monitor any major storms moving in to the AO . -Surf Observation Report conducted in accordance with AAV Common SOP.	-OIC coordinates with S-2 for weather update prior to departing friendly lines. -OIC/RSO ensure proper Surf Observation Report completed.

ENCLOSURE (63)

**HAZARD SEVERITY**

I - CATASTROPHIC - Death, permanent disability, major property damage  
II - CRITICAL - Permanent partial disability, major system or minor property damage  
III - MARGINAL - Minor injury, minor system or property damage  
IV - NEGLIGIBLE - 1<sup>st</sup> aid, minor system repair

**MISHAP PROBABILITY**

A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY

**RISK ASSESSMENT CODE (RAC)**

1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL

**RAC ASSESSMENT CODE MATRIX**

H A Z A R D  S E V E R I T Y	MISHAP PROBABILITY				OIC  RSC  RSC  RSC  XO/  S-3:  BC:
		A	B	C	D
	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
	IV	3	4	5	5

**COMMAND REVIEW/APPROVAL**

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

ENCLOSURE  
(63)

# 1st Battalion 4th Marines

## Training Support Request

CO-EVENT- (V#) INT DATE  
(S-3 ONLY)

DATE 6/30/2020 UNIT BRAVO CO SUBMITTED BY

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

### Scheme of Maneuver/Clarifying Instructions:

SUPPORT REQUEST IS FOR BRAVO COMPANY AAV PLATOON DURING CREW GUNNERY AND COMPANY ATTACKS

### S-2 Support Requested

Type	Quantity	Description
Maps		
Imagery		
UAS		
Training Packages		

### S2 COMMENTS

S2

DATE RECEIVED

DATE APPROVED

SIGNATURE

DETAILS	
Type of Training	AAV CREW GUNNERY AND BRAVO COMPANY ATTACKS
Training Areas	R408A, R600
RCNI #	
CO-USE REQUIREMENT? Y/N	N
Departure Date/Time	10 JULY 2020/1200
Hot Date/Time	10 JULY 2020/1600
Cold Date/Time	12 JULY 2020/0800
OIC	1STLT MACALEESE / GYSGT LACEA
RSO	GYSGT LACEA / SSGT FAJARDO
# of Marines Training	55

### S3 COMMENTS

S3

DATE RECEIVED

DATE APPROVED

SIGNATURE

### Rations (MRE/Hot Chow)

MARINE				NAVY				TOTAL	ROSTERS
PAX	Officer	Enlisted	Enlisted w/Comrats	Officer	Enlisted	Enlisted w/Comrats			Submitted
5	1	57	15	0	1	0		59	YES
Person to Pick-Up Chow				DATE				21 AREA ARVS	TIME
Chow Plan				Breakfast				Lunch	Dinner
MRE, UGR-MR, UGR-A (Vat), Box Lunch, Chow				MRE				MRE	MRE
Ice (Plan for 5 lbs/Marine)				Y/N				N	

### PORTA JOHN

PAX	TRAINING AREA LOCATION AND GRID	START DATE	END DATE
59	R408A / 11S MS 63190 90469	10-Jul-20	12-Jul-20
59	TA-GOLD BEACH / 11S MS 55543 85183	14-Jul-20	16-Jul-20

### S4 COMMENTS

REQUESTING MRE'S (59) DELIVERED AT AAV RAMP BLDG 210577 (11S MS 62449 75683) ON 8 JULY / 1000.  
REQUESTING JLT/V WITH DRIVER AND A-DRIVER (ARMORER) FOR SAFETY VEHICLE. SAFETY VIC WILL LINK UP AT R408A ON 10 JULY AT NLT 1500 AND RETURN 12 JULY NLT 0800, UPON COMPLETION OF LIVE FIRE TRAINING. REQUESTING WATER SUPPORT ON R408A FROM 1500 10 JULY TO 0800 12 JULY. REQUESTING (1700) GALS REFUELLER SUPPORT WITH PUMP AT R600 (11S MS 62920 99410) AT 1200 ON 14 JULY.

### MEDICAL

NUMBER OF CORPSMAN	REPORT DATE/TIME/LOCATION	RETURN DATE/TIME	REPORT TO
REMARKS: CORPSMAN SUPPORT ORGANIC TO THE PLATOON. REQUESTING SAFETY VIC WITH DRIVER AND ARMORER AS A/DR			

### Transportation ('Time' is show-time for vehicles)

PICKUP						RETURN					
DATE	TIME	PAX	CARGO	LOCATION	DESTINATION	DATE	TIME	PAX	CARGO	LOCATION	DESTINATION
TRANSPORTATION PREFERENCES (i.e. bus, van, 7 ton, etc.)											

### Tactical Vehicle Request

Vehicle Type			#		Destination	Pick-Up		Return		Driver Request		
						DATE	TIME	DATE	TIME	Driver	Amo Driver	IF PROVIDING OWN, DRIVER NAME
M1123/M1152 Mback												
M1123/M1165 4Door												
M1151 UAH												
M1167 70N Variant												
MRAP 4K4												
M-ATV												
MRC 140												
MRC 145												
Ambulance 2 Litter												
Ambulance 4 Litter												
7 Ton (PAX)												
7 Ton (CARGO)												
Trailer												
JLTV HIGH BACK	1			R408A		10 JUL	1500	12 JUL	0800	1		REQUESTING ARMORER FOR A/DRIVER
REFUELER (1700 GALS)	1			R600		14 JUL	1200	14 JUL	1600	1		
M105 7Ton Trailer												
M101/M1102 Trlr												
M116 Trlr												
M149 Water Bull	1			R408A		10 JUL	1500	12 JUL	0800	1		

\*\*\*VEHICLES WILL NOT BE DISPATCHED UNLESS PACS ARE COMPLETED FOR THE WEEK\*\*\*

### Also DRVR(S) W/ RANK

TIME OF DELIVERY	1500 10 JULY
TIME/DATE OF PRESTAGE	
TIME/DATE OF PICKUP	0800 12 JULY

### GUNNER'S APPROVAL

### DELIVERY LOCATION

R408A 11S MS 65162 91781

### DATE RECEIVED

### DATE APPROVED

ENCLOSURE (63)

# 1st Battalion 4th Marines

## Training Support Request

Qty	DODIC	NOMENCLATURE
	A059	CTG, 5.56MM BALL F/M16A2
	A063	CTG, 5.56MM TR F/M16A2
	A064	CTG, 5.56MM BALL TR 4/1 F/SAW
	A075	CTG, 5.56MM BLANK LKD F/SAW
	A080	CTG, 5.56MM BLK F M16A1/A2
4500	A131	CTG, 7.62MM 4 BALL M80/1TRCR M62 LKD
	A358	CTG, 9MM PRAC AT-4
	A363	CTG, 9MM BALL PISTOL (NEW)
17063	A576	CTG, .50 CAL LKD 4 APL/APL-T F/M2
	A606	CTG, .50 CAL APF MK 211-0
	A611	CTG, 7.62MM M118 L RANGE
	A611	CTG, 9MM SPOTTING RIFLE (SMW)
	B519	CTG, 40MM PRAC M781
	B535	CTG, 40MM WHITE STAR PARA
2680	B542	CTG, 40MM HEPD M430/M430A1 LKD (MK 19)
	B546	CTG, 40MM HEPD LORVEL LCHD
	B642	CTG, 60MM HE M720 LNCAS W/HOF
	B647	CTG, 60MM ILLUM M721
	B614	CTG, 60MM WP M722A1
	B621	CTG, 40MM PRAC
	C484	CTG, 81MM ILLUM INFRARED
	C669	CTG, 81MM HE M889
	C870	CTG, 81MM SMK RP M819 (IUK)
	C871	CTG, 81MM ILLUM M853 (IUK)
	C955	CTG, 84MM 4 LNCRR M136 (AT-4)
	G878	FUZE, M228 F/G811
	G881	HE, FRAGMENTATION M67
	G945	HE, SMK YEL
	G963	HE, RIOT CS M7
	G982	HE, SMK TNG M83
	HA21	ROCKET, 2124 SUB-CALIBER, M72AS

Qty	DODIC	NOMENCLATURE
	HA29	RKT, 66MM HE M72A7 (LAW)
	HX05	RKT, 81MM ASSAULT, (SMW)
	J007	MINE, APERS-T M18A1 w/Accessories
	K765	RIOT CHTAL AGENT CS CAPSULE
	L311	SIG, ILLUM RS CLUSTER M126A1
50	L312	SIG, ILLUM WS PARA M127A1
	L495	FLARE, SURFACE TRIP M49A1
	L592	TOW BLAST SIMULATOR
	L594	SIM, PROJ GRND BURST M115A2
	L598	SIM, BOOBYTRAP FLASH M117
	L599	SIM, BOOBYTRAP ILLUM M118
	M028	DEMO KIT, BANGALORE TORP M1A2
	M030	CHG, DEMO BLK 1/4LB TNT
	M032	CHG, DEMO BLK 1LB TNT
	M130	CAP, BLST ELEC M6
	M131	CAP, BLST NON-ELEC M7
	M456	CORD, DET TYPE-1
	M670	FUZE, BLST TIME M700 (U/I FT)
	M757	CHG, ASSY DEMO KIT M183 C4 16X1-1/4LB
	M808	IGNITER, BLST TIME FUSE M81
	M979	DEMO KIT, ANTI-PERS OBSTL BREACH SYS MK7-1 (APOBS)
	WH03	GM, TOW-2 SURF ATK BCN-710-S
	WH06	GM, TOW PRAC
	A111	CTG, 7.62MM BLANK LNKD
	A598	CTG, .50 CAL BLK LNKD
	G940	RG, GREEN SMOKE
	G020	RG, STUN
	M952	INITIATOR, DUAL SHOCK TUBE W/CAPS
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)

ORDNANCE TO BE LTI/PFI YES NO

ARMORER SUPPORT AT RANGE NEEDED Y X N

NO EARLIER THAN DATE OF LTI/PFI N/A

NO LATER THAN DATE OF LTI/PFI 8-Jul-20

Date of Weapons Draw 10-Jul-20  
Time of Weapons Draw 0800

Date of Weapons Return 14-Jul-20  
Time of Weapons Return 1800

### Equipment to be LTI/PFI (Estimate quantities)

NOMENCLATURE	QTY
M9 PISTOL	
M16A4 RIFLE	
M203	
M4 CARBINE	
M249 SAW	
M32 MSG	
M240B MG	3
M2 .50 CAL MG	13
MK-19	13
MK-153 SAW	
M224 60MM	
M262 81MM	
M41A1 SABER	

NOMENCLATURE	QTY
M1014	
M40A3/A5	
M107 SABR	
M72 LAW TRAINER	
MK93	
M35 COYOTE MOUNT	
M3 TRIPOD	
M122 TRIPOD	
MK64 MOUNT	
JAVELIN BST	
JAVELIN FTT	
COMMAND LAUNCH UNIT	
FLDR	

NOMENCLATURE	QTY
AN/P30-18A	
AN/PVS-17C	
AN/PVS-24	
AN/PEQ-16	
AN/PVS-14	
AN/PVS-28	
AN/PAS-13B (V2)	
AN/PAS-13D (V2)	
AN/PAS-13D (V3)	
M22 BINO (LARGE)	
M24 BINO (SMALL)	
ILVID II	
LASER BORE SIGHT	

NOMENCLATURE	QTY
M27	
M38	
M320 GL	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	

84 DATE RECEIVED DATE APPROVED SIGNATURE

NOMENCLATURE	QTY	Pick-Up		Return	
		DATE	TIME	DATE	TIME
PRC-152	3	7/9/2020	1000	7/15/2020	1000
PRC-153					
PRC-119					
PRC-119F					
PRC-117					
PRC-150					
VRC-110					
VRC-89					
VRC-90					
MRC-145					
COM-201B					
DE-254					
CIE-10					
DTCS					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
PRC/NUT ID					
Days Batteries Req.					

86 COMMENTS

86 DATE RECEIVED DATE APPROVED SIGNATURE

ENCLOSURE (63)

1st Battalion 4th Marines  
Chow Request

MARINE ENLISTED WITH MEAL CARD						
#	RANK	LAST	FIRST	MI	EDIPY	MEALCARD #
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(b)(3), (b)(6), (b)(7)(c)

MARINE ENLISTED WITH MEAL CARD						
#	RANK	LAST	FIRST	MI	EDIPY	MEALCARD #
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(b)(3), (b)(6), (b)(7)(c)

MARINE ENLISTED ON COMBAT						
#	RANK	LAST	FIRST	MI	EDIPY	COMBAT
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(b)(3), (b)(6), (b)(7)(c)

NAVY ENLISTED WITH MEAL CARD						
#	RANK	LAST	FIRST	MI	EDIPY	MEALCARD #
1						
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3						
4						
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6						
7						
8						
9						
10						

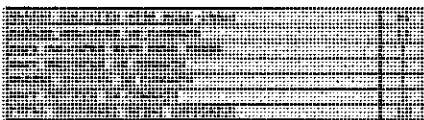
(b)(3), (b)(6), (b)(7)(c)

NAVY ENLISTED ON COMBAT						
#	RANK	LAST	FIRST	MI	EDIPY	COMBAT
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2						
3						
4						
5						
6						
7						
8						
9						
10						

MARINE OFFICER ON COMBAT						
#	RANK	LAST	FIRST	MI	EDIPY	COMBAT
1						
2						
3						
4						
5						
6						
7						

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

NAVY OFFICER ON COMBAT						
#	RANK	LAST	FIRST	MI	EDIPY	COMBAT
1						
2						
3						
4						
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7						



ENCLOSURE (63)

ENCLOSURE (63)

<b>Water Calculation</b> <small>DIRECTIONS: Review listed amounts for various weather zones and functions. In the area provided, enter the amount for that function that you wish to use for the calculation per person. NOTE: It is dependent upon the mission if all water usage functions will be used.</small>									
FUNCTION	TEMPERATE ZONE		TROPICAL ZONE		ARCTIC ZONE		ARID ZONE		DAILY GAL/MAN CALCULATION
	Sustain	Minimum	Sustain	Minimum	Sustain	Minimum	Sustain	Minimum	
Drinking	1.5	1.5	3	3	2	2	3	3	3
Personal Hygiene	1.7	1	1.7	1	1.7	1	1.7	1	1
Field Feeding	2.8	0.8	2.8	0.8	2.8	0.8	2.8	0.8	0.8
Heat Casualty Treatment	0	0	0.2	0.2	0	0	0.2	0.2	0.2
Level 1 Medical Treatment	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Level 2 Medical Treatment	0.7	0.7	0.9	0.9	0.7	0.7	2.8	2.8	0.7
Centralized Hygiene	0	0	0	0	0	0	1.8	0	0
Construction	0	0	0	0	0	0	1.5	0	0
Vehicle Maintenance	0	0	0	0	0	0	0.2	0.2	0
Aircraft Maintenance	0	0	0	0	0	0	0.2	0.2	0
Laundry	0	0	0	0	0	0	2.1	0	0
Subtotal	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	6.1
+10% Waste	0.7	0.4	0.9	0.6	0.8	0.5	1.7	0.9	0.61
Total	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	6.71

DAILY GALLONS PER MAN FOR EXERCISE/OPERATION:	6.71
ENTER NUMBER OF PERSONNEL SUPPORTED:	59
ENTER NUMBER OF DAYS FOR EXERCISE/OPERATION:	3

DAILY WATER REQ'T:	395.89
TOTAL WATER REQ'T:	1187.67

**HELPFUL INFORMATION:** (6) 5-GALLON IGLOO WATER COOLERS WILL BE FILLED PRIOR TO DEPARTING 21 AREA. COOLERS ARE INTERNAL TO PLT.

# LETTER OF INSTRUCTION

R408A - COMPANY B

DATE(S): 20200710-20200712	TIME(S):	TRACKING #:
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UNIT: BLT 1/4, B CO, AAV PLT	OPORD: Crew DFGT I-VI	DTG: 20200701	LOCATION: R408A
------------------------------------	--------------------------	------------------	--------------------

SUBJ: AAV PLATOON DIRECT FIRE GUNNERY TABLES I-VI

REF:	(A) MAP: CAMP PENDLETON 1:50,000 AMES SERIES V795S, SHEET IV (B) MCTP 3-10C (EMPLOYMENT OF AMPHIBIOUS ASSAULT VEHICLES) (C) NAVMC 3500.2 (AAV TRAINING AND READINESS MANUAL) (D) MARINE CORPS ORDER 3570.1C RANGE SAFETY (E) DA PAM 385-63 (F) USMC RANGE SAFETY POCKET GUIDE VERSION 2.3 (G) MCIWEST- MARINE CORPS BASE CAMP PENDLETON ENVIRONMENTAL OPERATIONS MAP
------	--

TASK ORGANIZATION: B CO AAV PLATOON; FIRST SECTION, SECOND SECTION, THIRD SECTION, AND COMMAND SECTION.

- SITUATION:** AAV PLATOON IS PREPARING TO CONDUCT DIRECT FIRE GUNNERY TABLES (DFGT) I THROUGH VI LIVE-FIRE EVALUATION AT RANGE 408A AT CAMP PENDLETON FROM 10-12 JULY. DUE TO THE PRE DEPLOYMENT TRAINING PLAN (PTP) REQUIREMENTS FOR THE 15TH MEU, IT IS ESSENTIAL THAT AAV PLATOON IS 100% QUALIFIED UP TO DFGT VI.
- MISSION:** FROM 10-12 JULY AAV PLATOON BRAVO COMPANY EXECUTES DFGT I-VI AT R408A IOT ENHANCE PROFICIENCY OF CREW LEVEL GUNNERY TO SUPPORT FUTURE EXERCISES AS PART OF BATTALION LANDING TEAM (BLT) 1/4.

- EXECUTION:**
  - COMMANDER'S INTENT.**
    - PURPOSE.** THE PURPOSE OF THIS EXERCISE IS TO EVALUATE AND ENHANCE GUNNERY TRAINING AT THE CREW LEVEL THROUGH DFGT VI.
    - METHOD.** THIS TRAINING WILL BE ACCOMPLISHED THROUGH INSTRUCTION, PRACTICAL APPLICATION, AND EVALUATION VIA THE 3D AABN MARKSMANSHIP TRAINING UNIT (MTU) PRIOR TO THE PLATOON CONDUCTING DFGT I-VI. EACH CREW WILL HAVE BEEN QUALIFIED THROUGH TABLE THE TURRET TRAINER BEFORE MOVING TO CREW GUNNERY. THE MTU WILL BE EVALUATING WITH THE 3D AABN BATTALION MASTER GUNNER.
    - END STATE.** ALL AAV CREWS QUALIFIED ON DFGT I-VI. AAV PLATOON IS PREPARED FOR FUTURE GUNNERY OPERATIONS AS PART OF BLT 1/4.

**B. CONCEPT OF OPERATIONS.** THIS IS A FOUR PHASE OPERATION (PHASE I-VI). **PHASE I** WILL BE THE PREPARATION PHASE AND WILL CONSIST OF ALL NECESSARY VEHICLE, GEAR, AND PERSONNEL PREPARATIONS PRIOR TO DEPARTURE FOR THE RANGE. **PHASE II** WILL CONSIST OF A MOVEMENT TO R408 ON 11 JULY. **PHASE III STAGE A** WILL BE THE EXECUTION PHASE ON 10 TO 12 JULY, CONSISTING OF RANGE SETUP, DFGT'S I-VI, AND RANGE BREAKDOWN. **PHASE III STAGE B** WILL BE THE EXECUTION PHASE ON 12-14 JULY CONSISTING OF COMPANY ATTACKS AT RANGE 600. **PHASE IV** WILL CONSIST OF THE RETROGRADE TO GOLD BEACH.

**(1) PHASE I: PREPARATION PHASE.** 25 JUNE-09 JULY. PHASE I HAS ALREADY BEGAN WITH FIELD AND ADMINISTRATION PREPARATIONS TO CONDUCT TABLES I-VI. ADMINISTRATIVE PREPARATION CONSISTS OF CLASSROOM INSTRUCTION ON OFFENSIVE AND DEFENSIVE TACTICS, CREW/SECTION LEVEL GUNNERY REHEARSALS, AND THE CONDUCT OF A TACTICAL DECISION GAME AT THE SECTION LEVEL. FIELD PREPARATION WILL INCLUDE PRE-OPERATIONS CHECKS COMPLETED, WEAPONS HANDLING, GEAR INSPECTION. COMMUNICATIONS PREPARATION. AND BORE SIGHTING. ONCE

SIGNATURE/DATE	OK (b)(3), (b)(6), (b)(7)(c)	GUNNER
C (b)(3), (b)(6), (b)(7)(c)	S-3/4	BN (b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (6)

# LETTER OF INSTRUCTION

R408A - COMPANY B

DATE(S): 20200710-20200712

TIME(S):

TRACKING #:

BOTH ADMINISTRATION AND FIELD PREPARATIONS ARE COMPLETE, THE PLATOON WILL BE GIVEN AN OPERATIONS ORDER ON 09 JULY FOR A MOVEMENT TO CONTACT TO R408A FOLLOWED BY BACK-BRIEFS AND REHEARSAL OF CONCEPT (ROC) WALKS. THIS PHASE ENDS ONCE THE NECESSARY CREWS ARE PRE LIVE-FIRE QUALIFIED.

(2) PHASE II: STAGING AND MOVEMENT PHASE. 10 JULY. THIS STAGE BEGINS WITH ALL MARINES AND EQUIPMENT ACCOUNTED FOR AND PREPARED TO CONDUCT MOVEMENT. DURING THIS PHASE, SECTION LEADERS WILL ENSURE ALL MARINES AND EQUIPMENT ARE ACCOUNTED FOR BY CONDUCTING COUNTS BEFORE AND AFTER ALL MOVEMENTS. THE PLATOON WILL CONDUCT ITS MOVEMENT FROM THE 3D AABN RAMP TO R408A. THIS PHASE ENDS WITH THE AAV PLATOON OCCUPYING R408A ON 10 JULY AND IS PREPARED TO CONDUCT DFGT I-VI.

(3) PHASE III: EXECUTION PHASE. THIS PHASE IS BROKEN DOWN INTO TWO STAGES. STAGE A IS AT R408A CONDUCTING DFGT I-VI DAY AND NIGHT. STAGE B IS AT R600 CONDUCTING COMPANY ATTACKS.

(A) STAGE A. 10-12 JULY. THIS STAGE BEGINS WITH THE PLATOON IMMEDIATELY BEGINNING RANGE SET-UP AND PREPARATIONS FOR THE CONDUCT OF DFGT I-VI. PREPARATIONS WILL INCLUDE MINOR BORESIGHTING ADJUSTMENTS, VERIFICATION OF HEADSPACE AND TIMING, COMMUNICATION CHECKS, ZEROING THE UP GUNNED WEAPONS STATION (UGWS), AND WEAPONS PREPARED FOR LIVE FIRING. RANGE SET UP WILL INCLUDE VERIFICATION OF ENGAGEMENT AREAS, LEFT AND RIGHT LATERAL LIMITS IDENTIFIED BY OIC/RSO, TARGET LOCATIONS, VERIFYING CONDITION STAKES, AND AMMUNITION ISSUE POINT ESTABLISHED. WHILE THE RANGE IS BEING SET UP, A TERRAIN MODEL WILL BE PREPARED FOR ADDITIONAL BRIEFS AND REHEARSALS. ONCE SET UP IS COMPLETE, ALL MARINES INVOLVED WILL RECEIVE A SAFETY BRIEF AND OPERATIONAL RISK MANAGEMENT REVIEW PRIOR TO THE START OF THE TABLES. AFTER THE SAFETY BRIEF ONE CREW AT A TIME WILL CONDUCT THEIR DFGT I-VI. NO MORE THAN 6 AAV P7s WILL BE LOCATED ON THE STATIC FIRING LINE. WHILE ONE CREW IS SHOOTING THE OTHER 5 CREWS WILL BE STANDING BY IN THEIR VEHICLES WITH WEAPONS IN CONDITION 4 WAITING TO CONDUCT THEIR TABLES. THIS STAGE ENDS ONCE LONG RIFLE HAS COME AND INSPECTED THE RANGE.

(B) STAGE B. 12-14 JULY. THIS STAGE BEGINS WITH ALL MARINES AND EQUIPMENT ACCOUNTED FOR AND PREPARED TO CONDUCT MOVEMENT. THE PLATOON WILL CONDUCT ITS MOVEMENT FROM THE R408A to R600. THE PLATOON WILL THEN LINK UP WITH BRAVO COMPANY AND CONDUCT COMPANY ATTACKS. THIS PHASE ENDS WITH CLEARANCE FROM RANGE CONTROL TO BEGIN RETROGRADE FROM R600 TO 3D AABN RAMP.

(4) PHASE IV: RETROGRADE PHASE. 14 JULY. THIS PHASE BEGINS WITH CLEARANCE FROM RANGE CONTROL TO BEGIN RETROGRADE FROM R600 TO GOLD BEACH. THE PLATOON WILL TRAVEL IN A TACTICAL COLUMN ALONG THE SAME ROUTE BACK TO GOLD BEACH. ROAD CROSSING WILL BE CONDUCTED IN THE SAME MANNER AS THE TRANSIT OUT AND THE PLATOON WILL CONDUCT A MAINTENANCE HALT ARMOR COIL IN THE TANGO TRAINING AREA. THIS PHASE ENDS PLATOON OCCUPIES GOLD BEACH.

## C. TASKS

OIC	<p>T1: ENSURE YOU HAVE PRIOR APPROVAL OF ALL TRAINING ON THE RANGE.</p> <p>P2: IOT MAINTAIN POSITIVE CONTROL OF ALL TRAINING, AS YOU ARE DIRECTLY RESPONSIBLE FOR EVERYTHING THAT TAKES PLACE.</p> <p>T2: CONDUCT A RANGE WALK WITH ALL SECTION LEADERS AND VEHICLE COMMANDERS.</p> <p>P2: IOT ENSURE THAT ALL KEY PERSONNEL UNDERSTAND THE ROUTE, FIRING LINES, AND TARGETS TO BE ENGAGED BOTH DURING THE DAY AND NIGHT PORTION OF DFGT'S.</p>
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SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN CMDR

ENCLOSURE (63)



# LETTER OF INSTRUCTION

R408A - COMPANY B

DATE(S): 20200710-20200712	TIME(S):	TRACKING #:
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	<p>T3: CONDUCT LINK-UP AND COORDINATION WITH RANGE CONTROL PRIOR TO CONDUCT OF RANGE.</p> <p>P3: IOT TO ENSURE THAT ALL RANGE RULES AND REGULATIONS ARE ADHERED TO.</p>
RSO	<p>T1: ENSURE SAFE CONDUCT OF DFGT THROUGH DILIGENT AND INTRUSIVE OVER-WATCH OF ANYTHING RELATED TO RANGE SAFETY.</p> <p>P1: IOT TO PREVENT ANY UNSAFE ACTIONS FROM TAKING PLACE.</p> <p>T2: WHEN PERFORMING DUTIES AS RSO FOCUS SOLELY ON RANGE SAFETY AND RSO-RELATED TASKS.</p> <p>P2: TO ENSURE A SAFE RANGE.</p> <p>T1: ENSURE ALL WEAPONS ARE PROPERLY HEADSPACED AND TIMED.</p> <p>P2: TO PREVENT ANY INJURIES TO GUNNER'S OR DAMAGE TO WEAPONS.</p> <p>T1: ENSURE ALL GATES ARE LOCKED ACCORDING TO RANGE REGULATIONS.</p> <p>P2: IOT PREVENT ANY NON-AUTHORIZED PERSONNEL FROM ENTERING THE TRAINING AREA DURING THE CONDUCT OF GUNNERY TABLES.</p>
PSOS	<p>T1: ENSURE SAFE OPERATION OF BOTH WEAPON SYSTEMS THROUGHOUT THE CONDUCT OF TABLES VI.</p> <p>P1: IOT PREVENT ANY UNSAFE WEAPONS OPERATION FROM TAKING PLACE BEFORE, DURING, AND AFTER DFGT VI.</p> <p>T2: ENSURE YOUR VEHICLE COMMANDER IS ENGAGING TARGETS WITHIN THE LEFT AND RIGHT LATERAL LIMITS.</p> <p>P2: IOT PREVENT ANY INJURIES FROM FIRING OUTSIDE THE LIMITS.</p> <p>T3: ONCE FIRING IS COMPLETE ENSURE BOTH WEAPONS ARE CONDITION FOUR.</p> <p>T4: TO PREVENT INJURY OR DAMAGE FROM A NEGLIGENT DISCHARGE WHILE IN TRANSIT BACK TO THE AA.</p>
PLATOON SERGEANT	<p>T1: COORDINATE WITH ALL LOGISTICAL AND OPERATIONS SOURCES.</p> <p>P1: IOT ENSURE ALL REQUIREMENTS TO CONDUCT THIS RANGE ARE IN PLACE TO INCLUDE BUT NOT LIMITED TO, CHOW, WATER, FUEL, COMMUNICATION ASSETS, AMMO, SAFETY VEHICLES AND RE-SUPPLY, AND MAINTENANCE CONTACT TEAM.</p> <p>T2: ENSURE ALL PRE AND POST-OP CHECKS ARE CONDUCTED ACCORDING TO SOP.</p> <p>P2: IOT SET CONDITIONS FOR SAFE LAND OPERATIONS.</p> <p>T3: CREATE AN EQUIPMENT DENSITY LIST OF ALL THE PLATOON SERIALIZED GEAR.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF ALL SERIALIZED GEAR FOR THE DURATION OF THE EXERCISE.</p> <p>T4: SUPERVISE ALL MAINTENANCE, RECOVERY, AND CASUALTY EVACUATION.</p> <p>P4: IOT ENSURE COMPLIANCE WITH APPROPRIATE PROCEDURES.</p> <p>T5: COMMUNICATE WITH RANGE CONTROL.</p> <p>P5: IOT TO ENSURE TRAINING IS CONDUCTED SAFELY IN ACCORDANCE WITH SOPs.</p> <p>T6: SUPERVISE ALL PARTS OF THE EXERCISE.</p> <p>T7: IOT ENSURE SAFE AND EFFECTIVE TRAINING, BPT TO SERVE AS OIC, CONDUCT AN RSO CHANGEOVER, OR SERVE AS A TACTICAL EVALUATOR FOR DFGT'S.</p>
SECTION LEADERS	<p>T1: CONDUCT GEAR INSPECTION NLT 09 JULY.</p> <p>P1: IOT CONFIRM GEAR ACCOUNTABILITY AND UNIFORMITY.</p> <p>T2: ENSURE DFGT PREREQUISITES ARE COMPLETE PRIOR TO THE RANGE BEING CONDUCTED PROPERLY AND ALL MARINES HAVE A CLEAR UNDERSTANDING OF WHAT IS BEING TAUGHT.</p> <p>P2: IOT ENSURE SAFETY AND EFFICIENCY WHILE CONDUCTING DFGT I-VI.</p> <p>T3: INFORM PLATOON SERGEANT OF ALL MAINTENANCE AND READINESS ISSUES.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF VEHICLES AND PERSONNEL.</p>
CORPSMAN	<p>T1: INVENTORY MEDICAL SUPPLIES THAT ARE BEING BROUGHT TO THE FIELD.</p>

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	<p>P1: IOT ENSURE THAT THE EQUIPMENT ALLOWS PROPER AID FOR ALL POTENTIAL INJURIES AT R408A.</p> <p>T2: COORDINATE WITH RANGE CONTROL IN THE EVENT OF CASUALTY.</p> <p>P2: IOT ALLOW PLATOON STAFF TO APPROPRIATELY TRACK, REPORT, AND FOLLOW UP ON CASUALTY.</p> <p>T3: PLAN GROUND MEDEVAC ROUTES FROM TO HIGHER ECHELON OF MEDICAL CARE.</p> <p>P3: IOT ELIMINATE WASTED TIME IN TRANSPORTING CASUALTY TO MEDICAL CARE.</p>
COMM CHIEF	<p>T1: NLT 09 JULY ENSURE ALL VEHICLE'S COMMUNICATION EQUIPMENT HAS BEEN INSPECTED, EVALUATED, AND ARE OPERATIONAL.</p> <p>P1: IOT FACILITATE COMMUNICATIONS DURING TRAINING THROUGHOUT TRAINING EXERCISE.</p> <p>T2: NLT 09 JULY SUPERVISE PREPARATION AND OPERATION OF PLATOON COMMUNICATION ASSETS.</p> <p>P2: IOT ENSURE PROPER LOADING OF CRYPTOGRAPHIC INFORMATION ENSURING ALL COMMUNICATION SECURITY PROCEDURES ARE BEING FOLLOWED.</p> <p>T3: ENSURE EACH AAV CAN ESTABLISH COMMUNICATIONS WITH THE MASTER GUNNER FROM THE TURRET.</p> <p>P3: IOT ENSURE THE SAFE CONDUCT AND EXECUTION OF COMMANDS.</p> <p>T4: ESTABLISH COMMUNICATIONS WITH BATTALION.</p> <p>P4: IOT TO SEND SITUATIONAL REPORTS AND LOGISTICAL REQUESTS AS REQUIRED.</p>
MAIN CHIEF	<p>T1: ENSURE ALL VEHICLES ARE PROPERLY PREPARED FOR FIELD TRAINING TO INCLUDE ANNOTATION AND RECONCILIATION OF ALL DISCREPANCIES.</p> <p>P1: IOT ENSURE VEHICLES ARE READY FOR CONDUCT OF DFGT VI.</p> <p>T2: ASSEMBLE AND MAINTAIN A DSI FOR THE EXERCISE.</p> <p>P2: IOT ENSURE MAINTENANCE CAN BE CONDUCTED IN THE FIELD TO COMPLETE DFGT.</p>

## D. COORDINATING INSTRUCTIONS

(1) REQUIRED FACILITIES. R408A

(2) OIC

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

(3) RSC

(4) PSO. EACH UGWS WILL HAVE AN ASSIGNED POSITION SAFETY OFFICER IN THE VEHICLE TROOP COMMANDER HATCH DURING THE CONDUCT OF LIVE FIRE AND MANEUVER. THE PLATOON WILL HAVE 5 VEHICLE CREW EVALUATORS (VCE) CERTIFIED BY THE BATTALION MASTER GUNNER. AS NECESSARY, PSO'S MAY BE EXPERIENCED SNCO'S OR VEHICLE COMMANDERS.

(5) TIMELINE. 10 JULY 2020 - 14 JULY 2020.

### 10 JULY (MAIN BODY)

0600 REVILLE

0700 PRE OPS

0800 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED

1200 MOVEMENT FROM RAMP TO R408A

1500 PLATOON OCCUPIES R408A

1530 SAFETY BRIEF IS GIVEN

1600 ZERO

1630 CREW DAY GUNNERY

1930 NIGHT SAFETY BRIEF

2000 NIGHT CREW GUNNERY

2359 RANGE COLD

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## 11 JULY (RBE)

0600 REVILLE  
0700 PRE OPS  
0800 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED  
0900 MOVEMENT FROM RAMP TO R408A  
1000 Link up with rest of platoon.

## 11 JULY (MAIN BODY)

0600 REVEILLE  
0700 SAFETY BRIEF  
0800 DAY CREW GUNNERY  
1900 NIGHT SAFETY BRIEF  
2000 NIGHT CREW GUNNERY  
2359 RANGE COLD

## 12 JULY

0600 REVEILLE  
0700 Range cleanup  
1000 Movement to R600  
1100 Link up with B CO

## 13 JULY

0600-COMPLETION COMPANY ATTACKS

## 14 JULY

0600-1500 COMPANY ATTACKS  
1500 MOVEMENT TO GOLD BEACH  
1600 OCCUPY GOLD BEACH

## (6) TACTICAL CONTROL MEASURES (TCMS) / POINTS OF INTEREST

TCM (PRIMARY NUMBERED, ALTERNATE LETTER)	LOCATION
LOD (3D AABN RAMP)	11S MS 6280 7560
CP-1 (LCAC TOWER)	11S MS 5922 7995
CP-2 (WARRIORS COVE)	11S MS 5570 8488
CP-3 (HOLE IN THE WALL)	11S MS 5509 8632
CP-4 (LAS PULGAS CROSSING)	11S MS 5763 8501
CP-5 (BASILONE ROAD CROSSING)	11S MS 6246 8987
R408A	11S MS 6654 9188
CP-9	11S MS 6342 9182
CP-10	11S MS 6709 9332
CP-11	11S MS 6645 9604
CP-12	11S MS 5413 9853
R600	11S MT 5530 0325
POINTS OF INTEREST	LOCATION
AXP-1	11S MS 5763 8501
AXP-2	11S MS 6246 8989
21 AREA BAS	11S MS 6300 7600
53 AREA BAS	11S MS 5533 9320
43 AREA BAS	11S MS 6190 8980

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LZ BUZZARD	11S MT 6150 0070
LZ CANARY	11S MT 6270 0045
LZ BLUEBIRD	11S MS 6290 9965
LZ STARLING	11S MS 6210 9120
NAVAL HOSPITAL	11S MS 6360 7610

(7) RATE(S) OF MARCH AND DISPERSION. 20 MPH IN TRAINING AREAS WITH 50-75 METER DISPERSION. IN LOW LIGHT CONDITIONS, 15 MPH AND 50-75 METER DISPERSION. WHITE LIGHT WILL BE UTILIZED IN LOW LIGHT CONDITIONS AT ROAD CROSSINGS. 5 MPH IN CONGESTED AREAS WHILE UTILIZING GROUND GUIDES.

## (8) NO COMMUNICATION PLAN

### A. PHASE I. NOT APPLICABLE

B. PHASE II/IV MOVEMENT TO AND FROM RANGE. IF COMMUNICATION IS LOST DURING THE PLATOON MOVEMENT THEY WILL UTILIZE HAND AND ARM SIGNALS OR A MESSENGER. THE VEHICLE WILL CONTINUE TO TRY TO RE-ESTABLISH COMMUNICATION DURING THE MOVEMENT. WHILE IN A PLATOON COLUMN, THE PLATOON WILL CONTINUE TO MOVE AS LONG AS THE FRIST AND LAST VEHICLE HAVE COMMUNICATIONS WITH THE PLATOON COMMANDER OR PLATOON SERGEANT. IF COMMUNICATION LOST BETWEEN THESE THREE VEHICLES THE PLATOON WILL HALT FOR NO LONGER THAN 10 MINUTES AND RE-ESTABLISH COMM. IF IT CANNOT BE RE-ESTABLISHED THEN THE PLATOON WILL CONTINUE THEIR MOVEMENT WITH THE 1ST SECTION LEADER TAKING TACTICAL CONTROL WHILE THE PLATOON COMMANDER TRIES TO RE-ESTABLISH COMM WHILE MOVING. RANGE FLAGS WILL BE UTILIZED TO PASS THE COMMUNICATION STATUS OF THE VEHICLE TO THOSE AROUND IT. GREEN WILL MEAN "HEAR BUT CANNOT SPEAK", YELLOW WILL MEAN "CANNOT HEAR OR SPEAK" AND RED MEANS EMERGENCY IN THE VEHICLE AND NEED ASSISTANCE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE, TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

C. PHASE III CONDUCT OF RANGE. WHILE CONDUCTING LIVE FIRE THE VEHICLE COMMANDER WILL HAVE POSITIVE COMMUNICATION WITH THE BATTALION MASTER GUNNER AND THE VEHICLES FIRING VIA PLATOON TAC BY USING THEIR VEHICLE RADIO SETS. IF COMMUNICATION GOES DOWN TRAINING WILL CEASE UNTIL IT IS REESTABLISHED. IF AT ANYTIME COMMUNICATION IS LOST BETWEEN THE VEHICLE COMMANDER, DRIVER, AND PSO IN THE TROOP COMMANDER'S HATCH TRAINING WILL CEASE AND INTERCOM WILL BE ESTABLISHED INTERNAL TO THE VEHICLE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

(9) LOST MARINE PLAN. IF A MARINE HAS BEEN IDENTIFIED AS MISSING, ALL MOVEMENT AND TRAINING WILL CEASE AND THE PLATOON WILL GAIN ACCOUNTABILITY OF ALL PERSONNEL AND EQUIPMENT BEFORE BACKTRACKING THE PREVIOUS ROUTE UNTIL THE MARINE IS FOUND. ACCOUNTABILITY WILL BE MAINTAINED BY CONDUCTING CHECKS BEFORE AND AFTER ANY MOVEMENT. ALL MARINES WILL INFORM THEIR CHAIN OF COMMAND WHEN THEY LEAVE THE IMMEDIATE AREA OF THE PLATOON. THEY WILL TRAVEL IN PAIRS AND NEVER MOVE MORE THAN 50M AWAY FROM THE PLATOON. ALL MARINES WILL CARRY A WATER SOURCE WHEN STEPPING AWAY FROM THE VEHICLE. WHILE MOVING TO AND FROM THE RANGE. DURING PHASE I AND VI, IF A MARINE BECOMES LOST THEY WILL REMAIN IN PLACE FOR 2 HOURS AND THEN BACKTRACK TO THE NEAREST MAIN SUPPLY ROUTE (MSR) WITHIN 1KM. THE MARINES WILL BE BRIEFED ALONG THE ROUTE THEIR POSITION IN

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RELATION TO LAS PULGAS ROAD AS WELL AS BASILONE DRIVE. ONCE THEY ARRIVE AT ONE OF THESE ROADS IF ABLE TO FLAG DOWN A PASSING VEHICLE WILL ENSURE CONTACT WITH PLATOON. DURING THE CONDUCT OF TABLE VI IF THEY BECOME LOST THEY WILL HOLD IN PLACE AND NOT TRAVEL INTO THE ENGAGEMENT AREA.

## (10) GO/NO GO CRITERIA

- A. CORPSMAN PRESENT AND PREPARED FOR CONDUCT OF EXERCISE.
- B. MAINTAIN POSITIVE COMMUNICATIONS WITH LONG RIFLE.
- C. IMPROPER DODIC'S DELIVERED TO TRAINING AREA.
- D. LESS THAN SIX AAVP7'S OPERATIONAL TO CONDUCT DFGT I-VI.

(11) ORDER OF MARCH. VEHICLES WILL MOVE SECTION ORDER NUMERICALLY 1ST SECTION, 2ND SECTION, 3RD SECTION.

(12) ROAD CROSSING. AT A ROAD CROSSING, THE PLATOON WILL HALT IN A HERRINGBONE FORMATION WHEN TERRAIN ALLOWS MAINTAINING A DEFENSIVE POSTURE. WHILE THE PLATOON SERGEANT MOVES TO THE FRONT OF THE FORMATION. HE WILL THEN DROP OFF TWO ROAD GUARDS WITH REFLECTIVE VESTS AND BROOMS. ROAD GUARDS WILL HAVE FLASHLIGHTS FOR NIGHT CROSSINGS. ROAD GUARDS WILL BE BRIEFED TO MOVE OUT OF THE WAY IF ONCOMING TRAFFIC APPEARS TO NOT BE STOPPING. ONCE THE ROAD GUARDS ARE SET, THE PLATOON WILL CROSS THE ROAD. WHEN ALL VEHICLES HAVE CROSSED, THE ROAD GUARDS WILL SWEEP DEBRIS OFF THE ROAD, AND THEN GET BACK IN THE PLATOON SERGEANT'S VEHICLE.

(13) VEHICLE RECOVERY PLAN. 10 MINUTES TO TROUBLESHOOT AND 20 MINUTES TO FIX. PLATOON SERGEANT IS THE PRIMARY RECOVERY TEAM. 3RD SECTION, OR LEAST ENGAGED SECTION IS THE ALTERNATE RECOVERY TEAM. DURING **PHASE II** IF A VEHICLE IS UNABLE TO LEAVE THE RAMP IT WILL BE SECURED WITH ALL WEAPONS AND EDL TRANSFERRED TO THE PLATOON SERGEANTS VEHICLE. ON THE MOVEMENT IF A VEHICLE NEEDS TO BE TOWED THE PLATOON SERGEANT WILL REMAIN PRIMARY TOW VEHICLE WHILE THE REMAINDER OF THE PLATOON FORMS A DEFENSIVE POSTURE TO RECOVER THE DOWNED VEHICLE. IF THE VEHICLE HAS A CATASTROPHIC FAILURE PRIOR TO THE GOLD BEACH HOLE IN THE WALL THE PLATOON SERGEANT WILL TOW THE VEHICLE BACK TO THE RAMP WHILE THE SECTION MAINTAINS A DEFENSIVE POSTURE. ONCE THE PLATOON SERGEANT RETURNS THE DOWN SECTION WILL CONTINUE TO R408A. THE SECTION WILL STAY IN PLACE AND BUMP ACCORDINGLY ONCE THE VEHICLE HAS BEEN RETRIEVED BY THE CONTACT TEAM. IF THE PLATOON SERGEANT VEHICLE NEEDS TO BE RECOVERED, A DEFENSIVE POSTURE WILL BE FORMED TO RECOVER DOWNED VEHICLE BY 3RD SECTION. ALL EFFORTS WILL BE MADE TO REPAIR VEHICLES IN THE FIELD AND MOVE THEM TO THE RANGE. DURING THIS PHASE, THE PLATOON WILL HAVE A MAINTENANCE CONTACT TEAM ON STANDBY. IF A VEHICLE IS DETERMINED TO BE DEADLINED AND NOT REPAIRABLE IN A TIMELY MANNER, THE DOWNED VEHICLE PLUS TWO OTHER VEHICLES WILL REMAIN IN PLACE UNTIL THE CONTACT TEAM ARRIVES. ONCE THE DOWNED VEHICLE HAS BEEN RECOVERED, THE CREW FROM THE DOWNED VEHICLE WILL EXECUTE THE BUMP PLAN AND CONTINUE TO THE RANGE. ALL EDL WILL BE TRANSFERRED AS WELL. DURING **PHASE III** SHOULD A VEHICLE NEED TO BE RECOVERED THE PLATOON SERGEANTS VEHICLE WILL RECOVERY THE VEHICLE AND BRING IT BACK TO R408A WHERE MAINTENANCE WILL BE CONDUCTED TO FIX THE VEHICLE. A VEHICLE FROM ANOTHER SECTION WILL BE USED TO COMPLETE THE GUNNERY TABLE, DURING **PHASE IV** THE VEHICLE WILL BE RECOVERED AND TOWED BACK TO 3D AABN RAMP.

(14) BUMP PLAN. VEHICLE CREW AND EMBARKED PERSONNEL FROM THE DISABLED VEHICLE WILL BUMP TO THE SECTION LEADER'S VEHICLE. IF PLATOON SERGEANT'S VEHICLE IS THE

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DOWNTOWN VEHICLE, CREW AND EMBARKED PERSONNEL WILL BUMP TO VEHICLE 3-15-11, 3-15-7, 3-15-3.

(15) UNIFORM AND GEAR. ALL MARINES WILL WEAR FIRE RESISTANT ORGANIZATION GEAR (FROG) AND APPROPRIATE PPE.

(16) PPE. PPE WILL BE WORN AT ALL TIMES WHILE CONDUCTING TRAINING. PPE CONSISTS OF KEVLAR/ FROG, EYE PRO, EAR PRO, GLOVES, PLATE CARRIERS. IFAK'S WILL BE WORN OR IN THE MARINES STATION AT ALL TIMES. GAS MASK WILL BE ACCESSIBLE TO BE DONNED AT ANY POINT BY THE MARINE DURING THE EXERCISE. FIELD DISCIPLINE WILL BE MAINTAINED THROUGHOUT THE ENTIRETY OF THE TRAINING.

(17) ADDITIONAL TRAINING GOALS. WHEN MARINES ARE NOT FIRING, PREPARING TO FIRE, OR SUPPORTING THE RANGE THEY WILL BE CONDUCTING SECTION LEVEL REHEARSALS FOR LIVE FIRE AND MANEUVER. IF THE SECTION HAS ALREADY COMPLETED THEIR TABLE THE ASSISTANT SECTION LEADER OR VEHICLE COMMANDERS WILL PREPARE AND BRIEF THEIR SECTION LEADERS ON OFFENSIVE MANEUVER USING THE TERRAIN MODEL. IF ALL DAY FIRE IS COMPLETE AND THE PLATOON NEEDS TO WAIT TO CONDUCT NIGHT FIRE ASSISTANT SECTION LEADERS OR VEHICLE COMMANDERS WILL CONDUCT DRY RUNS TO COMMAND AND CONTROL A SECTION.

(18) WEAPON SYSTEMS. ALL CREW SERVED WEAPONS WILL HAVE LIMITED TECHNICAL INSPECTIONS (LTI)/PRE-FIRE INSPECTIONS (PFI) COMPLETE PRIOR TO CONDUCTING THE RANGE. THE PLATOON SERGEANT WILL HAVE A COPY OF THE LTI/PFI PAPERWORK AND VERIFY ACCURACY BEFORE DEPARTING FOR THE RANGE. BEFORE FIRING BEGINS, HEADSPACE AND TIMING WILL BE RE-INSPECTED BY THE VEHICLE COMMANDER (VC), POSITIONAL SAFETY OFFICER (PSO), AND ARMORER WITH RSO AND OIC OVERSIGHT.

(19) CLEARING PROCEDURES. ONCE CREWS ARE FINISHED FIRING, THEIR WEAPONS WILL BE CLEARED OUT BY THE VC, PSO, THEN RSO ONCE THE MANEUVER IS COMPLETE. ONCE THE WEAPONS ARE CLEAR AND CONDITION FOUR AS PHYSICALLY AND VISUALLY VERIFIED BY ALL THREE INDIVIDUALS, EACH AND EVERY VEHICLE WILL RETURN TO THE PLATOON'S AMMUNITION ISSUE POINT (AIP) AND REMOVE ALL REMAINING LIVE AMMUNITION FROM THE VEHICLE. THE VEHICLE AND PERSONNEL WILL BE LINED OUT BY BOTH THE OIC AND RSO. WEAPONS WILL THEN BE ELEVATED TO 45 DEGREES ONCE LIVE FIRE HAS SEIZED FOR THE TRANSIT BACK TO THE TAA.

(20) AMMUNITION HANDLING AND DUNNAGE. AMMUNITION WILL BE STAGED NO CLOSER THAN 100M FROM ANY OTHER STRUCTURE OR ENCAMPMENT ON PALLETS UNDERNEATH CAMOUFLAGE NETTING. SMOKING IS NOT AUTHORIZED WITHIN 100M OF THE AMMUNITION SUPPLY POINT. AN ARMED WATCH WILL BE POSTED WITH SECURITY AMMUNITION AT ALL TIMES. IN ADDITION TO THE AMMUNITION NCO IN CHARGE OF DISTRIBUTING AMMUNITION. AMMUNITION WILL BE TRACKED BY THE POSTED NCO USING A LOGBOOK AND EXCESSIVE BREAK-OUT WILL BE AVOIDED BY UTILIZING SMALLER QUANTITY LOTS FIRST. ALL SPENT CASINGS WILL BE SORTED THREE TIMES TO ENSURE NO LIVE AMMUNITION IS TURNED IN WITH DUNNAGE. UPON COMPLETION OF THE RANGE, ALL AMMUNITION WILL HAVE BEEN SORTED AND TURNED-IN ALONG WITH THE EXPENDITURE REPORT.

## (21) MARKING PLAN

(A) RANGE MARKING PLAN. DURING THE CONDUCT OF PHASE III EACH ENGAGEMENT AREA WILL BE MARKED FOR BOTH DAY AND NIGHT FIRE TRAINING. DURING THE DAY THERE WILL BE MARKING STAKES IN PLACE TO ANNOTATE THE BEGINNING AND END OF EACH ENGAGEMENT AREA. A

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RED FLAG WILL BE NEXT TO THE STAKE INDICATING THE START OF AN ENGAGEMENT AREA AND A GREEN RANGE FLAG WILL INDICATE A THE END OF AN ENGAGEMENT AREA. FOR NIGHT A RED CHEMSTICK WILL INDICATE THE START OF AN ENGAGEMENT AREA AND GREEN CHEMSTICK WILL INDICATE THE END OF AN ENGAGEMENT AREA. BLUE CHEMSTICKS WILL BE USED TO MARK THE ROUTE FOR IN AREAS WHERE THERE IS A STEEP DROP OFF ALONGSIDE THE ROAD. ALL VEHICLE COMMANDERS AND PSOS WILL HAVE A WHITE LIGHT SOURCE TO ENSURE WEAPONS CONDITIONS. CHEMSTICKS WILL BE USED FOR GROUND GUIDING ON AND OFF THE FIRING LINE AT NIGHT. NIGHT CONSIDERATIONS FOR A POTENTIAL AIR CASEVAC WILL INCLUDE CHEMSTICK BUZZ SAW AND NATO-Y.

(B) PERSONNEL MARKING PLAN. THE OIC, RSO, PSO, AND CORPSMAN WILL BE MARKED WITH A WHITE CHEMSTICK DURING ALL NIGHT TRAINING EVOLUTIONS.

(C) VEHICLE MARKING PLAN. VEHICLES WILL BE MARKED SECTION INTERNAL. THE SECTION LEADER WILL HAVE ONE YELLOW CHEMSTICK STARBOARD ANTENNA. THE SECOND VEHICLE IN THE SECTION WILL HAVE TWO YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA. THE THIRD VEHICLE WILL HAVE THREE YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA.

(D) RANGE FLAGS. DURING LIVE FIRE RANGE FLAGS WILL BE UTILIZED TO SHOW THE OIC AND RSO THE STATUS OF THE WEAPONS. ONCE A VEHICLE ENTERS AN ENGAGEMENT AREA THE VEHICLE COMMANDER WILL GO CONDITION ONE. UPON THE END OF AN ENGAGEMENT AREA THE VEHICLE COMMANDER WILL POST A GREEN FLAG SHOWING THE RSO THE WEAPONS ARE CONDITION FOUR. IF THERE IS A MALFUNCTION THAT CANNOT BE CLEARED OR A MISFIRE A YELLOW RANGE FLAG WILL BE POSTED ON THE TURRET. NO VEHICLES WILL DISPLACE FROM THE ENGAGEMENT AREAS UNTIL ALL VEHICLES ARE CONDITION FOUR AND RANGE FLAGS ARE POSTED ON ALL TURRETS.

(22) GATES. TO PREVENT ENTRY INTO THE TRAINING AREA IN ACCORDANCE WITH RANGE REGULATIONS THE PLATOON SERGEANT WILL ENSURE THE PLATOONS LOCKS ARE USED TO SECURE THE GATES. IF GATES ARE NOT LOCKED ROAD GUARDS WILL BE POSTED AND TWO- WAY RADIO COMMUNICATION WILL BE MAINTAINED.

(23) SAFETY DRIVERS AND CORPSMAN. THE SAFETY DRIVER AND CORPSMAN WILL BE LOCATED IN TRACK 3-15-12 AND A JLTV. SAFETY DRIVERS FOR THE AAV AND JLTV WILL BE REQUIRED TO BACK-BRIEF THE RSO THE ROUTE TO THE AMBULANCE EXCHANGE POINT IN CASE OF AN EMERGENCY. IN ADDITION TO A BACK-BRIEF, THE RSO WILL PASS SPECIFIC GUIDANCE THAT THE SAFETY DRIVER IS NO MORE THAN AN ARMS-REACH AWAY FROM THE VEHICLE, THE BACK OF THEIR VEHICLE IS KEPT CLEAR OF EQUIPMENT AND DEBRIS, AND THAT THEY KEEP THEIR PPE STAGED ON THE VEHICLE.

## 4. ADMINISTRATION AND LOGISTICS

### A. ADMINISTRATION

(1) PERSONNEL COUNT (MO/ME/NO/NE). 1/57/0/1 TOTAL 57

(2) VEHICLE COUNT (BY TYPE AND QTY). (13) AAVP7S, (1) AAVC7, (1) AAVR7

(3) SITUATION REPORTING (SITREP). THE PLATOON WILL SEND SITUATION REPORTS TO THE OOD AT THE BATTALION VIA SATCOM JBC-P AT 0600, 1200, 1800, AND 0000 DAILY.

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## (4) ASTRONOMICAL DATA

DATE	SUNRISE	SUNSET	ILLUMINATION
10 JULY	05:48	20:00	73%
11 JULY	05:49	20:00	64%
12 JULY	05:49	20:00	54%
13 JULY	05:50	19:59	44%
14 JULY	05:51	19:59	34%

(5) CASUALTY EVACUATION (CASEVAC) PLAN. IN THE EVENT OF A CASUALTY ALL TRAINING WILL CEASE AND LONGRIFLE WILL IMMEDIATELY BE NOTIFIED WHILE THE CASUALTY IS EVALUATED BY THE CORPSMAN. COMMUNICATION WILL TAKE PLACE USING A NATO 9-LINE AND WILL BE MADE BY THE OIC, RSO, OR PLATOON SERGEANT. DAYTIME LZ'S FOR AIR CASEVAC WILL BE MARKED BY A TACTICAL VEHICLE WITH AIR PANELS AND NIGHT TIME WILL BE USING A CHEMLITE BUZZ SAW. UPON ARRIVAL AT THE RANGE LZ'S WILL BE CLEARED OF ANY FOD. UPON ARRIVAL AT THE RANGE THE LZ'S WILL BE MARKED PRIOR DURING RANGE SET UP. PRIMARY LZ AT R408A WILL BE LZ STARLING.

(A) URGENT AND PRIORITY CASUALTIES. IN THE EVENT OF AN URGENT OR PRIORITY CASUALTY THE CORPSMAN WILL PROVIDE INITIAL EVALUATION AND TREATMENT OF THE INJURED MARINE. LONGRIFLE WILL BE CONTACTED IMMEDIATELY. IN THE CASE OF A GROUND MEDEVAC THE INJURED MARINE WILL BE TRANSPORTED VIA SAFETY VEHICLE TO A HIGHER ECHELON OF MEDICAL CARE. IF EMS IS NOT AVAILABLE THROUGH COORDINATION WITH LONGRIFLE THEY WILL BE TRANSPORTED TO 53, 43 OR 21 AREA BAS VIA THE SAFETY VEHICLE. IF A HIGHER ECHELON OF CARE IS NEEDED THEY WILL BE THE TRANSPORTED DIRECTLY TO THE NAVAL HOSPITAL. IF IT IS DETERMINED AIR CASEVAC IS NECESSARY IT WILL BE COORDINATED THROUGH LONGRIFLE USING ONE OF THE FOUR LZ'S.

(B) ROUTINE CASUALTIES. IF A ROUTINE CASUALTY OCCURS IN ANY OF THE TRAINING AREAS TRAINING WILL CEASE AND LONGRIFLE WILL BE NOTIFIED. THE CORPSMAN WILL PROVIDE INITIAL ASSESSMENT AND TREATMENT. BASED ON THE RECOMMENDATION OF THE CORPSMAN AND THE SEVERITY OF THE INJURY THE OIC/ RSO WILL DETERMINE IF THE MARINE WILL REMAIN IN THE FIELD OR NEEDS TO BE TRANSPORTED BACK TO THE 53/21 AREA BAS.

(5) TRAINING AND READINESS EVENTS SEE ATTACHED T&R EVENTS.

B. LOGISTICS SEE ATACHED TSR

(1) RECOVERY ASSETS. THE PLATOON WILL HAVE FOUR TOW BARS. THE PLATOON SERGEANT'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE PLATOON. THE ASSISTANT SECTION LEADER'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE SECTION.

## 5. COMMAND AND SIGNAL:

### A. COMMAND

(1) POINTS OF CONTACT. PLATOON COMMANDER  
PLATOON SERGEANT

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

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

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BN CMDR

ENCLOSURE (63)



# LETTER OF INSTRUCTION

R408A - COMPANY B

DATE(S): 20200710-20200712

TIME(S):

TRACKING #:

(2) LOCATION OF KEY LEADERS. OIC WILL BE LOCATED IN VEHICLE 3-15-04. PLATOON SERGEANT WILL BE IN VEHICLE 3-15-12 WITH THE CORPSMAN DURING MOVEMENTS. DURING THE CONDUCT OF THE RANGE THE PLATOON COMMANDER WILL BE WITH THE SECTION LEADER. EACH TROOP COMMANDER HATCH WILL HAVE A PSO PRESENT.

B. SIGNAL. EACH DAY, ONCE RANGE PREPARATIONS ARE COMPLETE, THE OIC WILL CONDUCT A RADIO CHECK WITH ALL INVOLVED PARTIES: ROAD GUARDS, PSOS, AMMUNITION ISSUE POINT (AIP), RSO, AND THE BATTALION MASTER GUNNER.

	PRIMARY	ALTERNATE	CONTINGENCY	EMERGENCY
RANGE CONTROL - "LONGRIFLE"	(b)(2)		KEY LEADER CELL PHONE	
INTERNAL RANGE COORDINATION			BLACK GEAR	PLT TAC 2 NET ID (546) VHF
PLATOON			BLACK GEAR	
BATTALION			JBC-P	KEY LEADER CELL PHONE

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

SIGNATURE/DATE	OIC	RSO	GUNNER
CO CMDR	S-3/A	S-3	BI

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

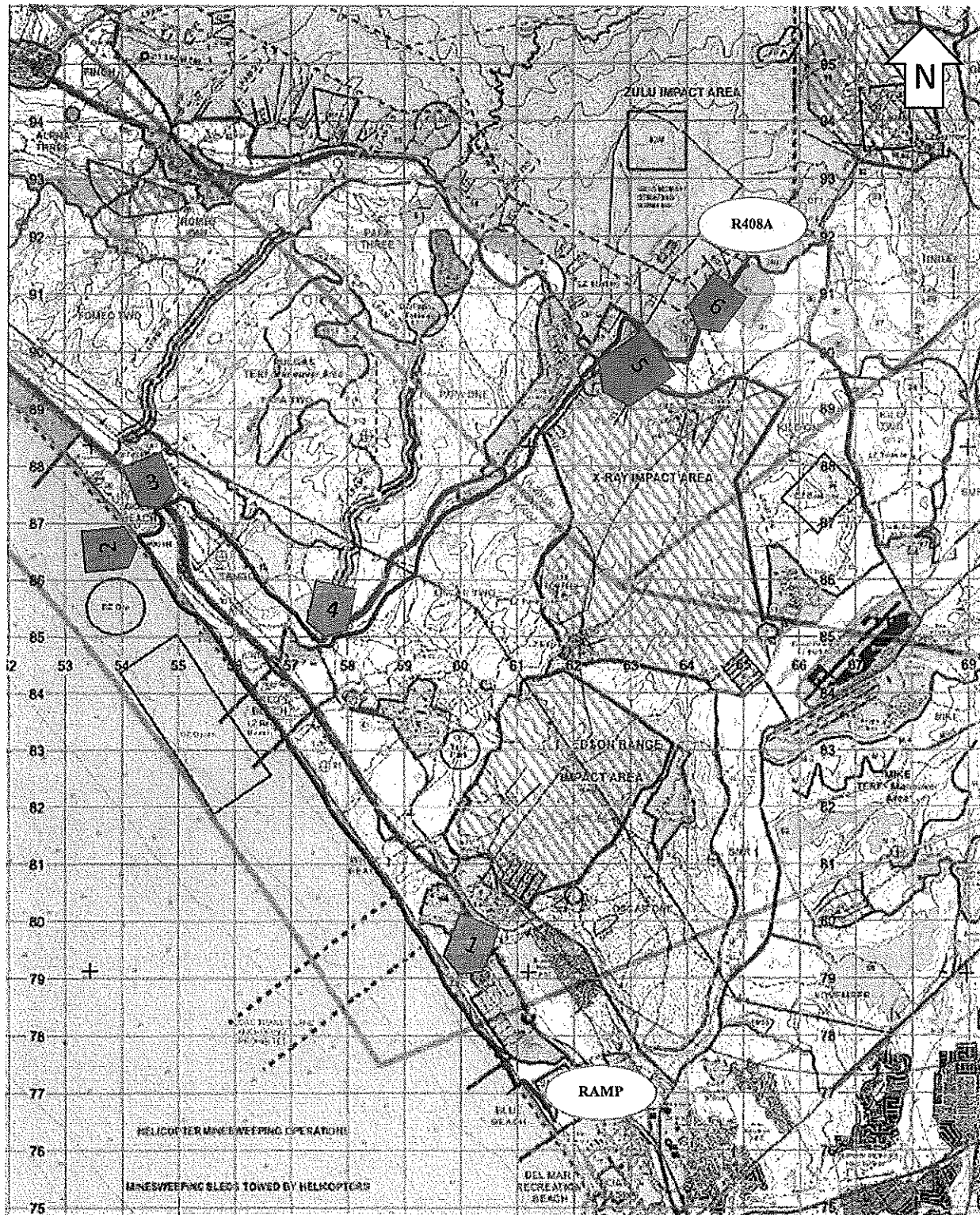
ENCLOSURE (63)

<b>DATE</b> 20200710-20200714	<b>UNIT</b> 1/4 B CO AAV PLT	<b>RANGE/TA</b> R408A	<b>TRAINING TO BE CONDUCTED</b> AAV Direct Fire Gunnery Tables I-VI
OIC		RSO	<b>PERSONNEL</b> 1 MO 57 ME 1 NE
(b)(3), (b)(6), (b)(7)(c)			
<b>MISSION:</b> From 10-14 July B CO AAV Plt will conduct DFGT I-VI in order to (IOT) meet PTP requirements for the 15th MEU.			

	<b>TIMELINE</b>
	<b>10 JULY (Main Body)</b> 0600 REVILLE 0700 PRE OPS 0800 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED 1200 MOVEMENT FROM RAMP TO R408A 1500 PLATOON OCCUPIES R408A 1530 SAFETY BRIEF IS GIVEN 1600 ZERO 1630 CREW DAY GUNNERY 1930 NIGHT SAFETY BRIEF 2000 NIGHT CREW GUNNERY 2359 RANGE COLD
	<b>11 JULY (RBE)</b> 0600 REVILLE 0700 PRE OPS 0800 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED 0900 MOVEMENT FROM RAMP TO R408A 1000 Link up with rest of platoon.
	<b>11 JULY (Main Body)</b> 0600 REVEILLE 0700 SAFETY BRIEF 0800 DAY CREW GUNNERY 1900 NIGHT SAFETY BRIEF 2000 NIGHT CREW GUNNERY 2359 RANGE COLD
<b>12 JULY</b> 0600 REVEILLE 0700 Range cleanup 1000 Movement to R600 1100 Link up with B CO	

<b>Evaluator/ A.I. Requirements</b>  AAV Master Gunners from 3d AABn will be present to evaluate the crew on direct fire gunnery tables I-VI, consisting of day and night static shooting.	<b>TRANSPORT</b> Platoon will self-lift to and from range utilizing 13 AAV P7s, 1 AAV C7, and 1 AAV R7	<b>LOGISTICS</b> Marines will be issued (5) DOS chow/water prior to transport, water jugs will be brought for sustainment.	<b>UNIFORM</b> Frogs with boonie cover, PPE Level 1 (plate carrier w/ front/rear SAPIs, Kevlar, eyep/earpro)
	<b>COMMUNICATION PLAN</b> AAVs will be used as primary, with PRC-117/150s as secondary once the range has been occupied. Comms w/ Longrifle via AAV/PRC-117(SC/PT). Platoon internal safety structure maintained on Mk-153 black gear.		<b>MEDICAL REQ.</b> (1) Corpsman will be located with safety vehicle 3-15-12. A JLTV with Driver and A driver will also be in support.

# **ROUTE-R408A DFGT I-VI**



## **Check Points:**

- 1: 11S MS 5922 7995 (LCAC TOWER)
- 2: 11S MS 5570 8488 (WARRIORS COVE)
- 3: 11S MS 5509 8632 (HOLE IN THE WALL)
- 4: 11S MS 5763 8501 (LAS PULGAS CROSS)

- 5: 11S MS 6246 8987 (BASILONE CROSS)
- 6: 11S MS 6654 9188 (R408A)

ENCLOSURE (63)

# RANGE SPECIAL INSTRUCTIONS

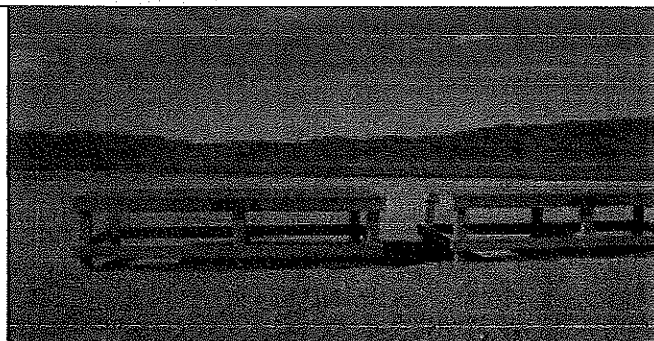
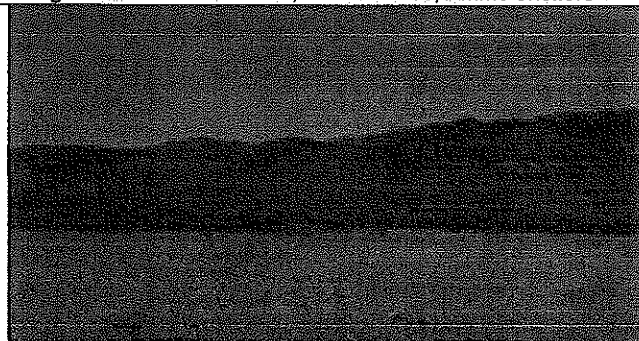
Date Revised – 11 February, 2020

**Face to Face is NOT Require Prior to Going Into a Hot Status**

Face to Face is NOT Require Prior to Going Into a Hot Status			
Range: R-408A	Location: 65229 91667	Allowable Weapons 155mm - Arty Direct Fire 120mm Main Tank - (TP-T Only) 25mm (TP-T/TPCSDS-T Only) Infantry Rockets - All Carl Gustaf (HE & HEDP Only) TOW – HEAT & Inert Javelin GM Rifles - .50 caliber and below Machineguns - .50 caliber and below No SLAP/SLAP-T Service Shotguns & Service Pistols - (See Scheduling) MK19 – 40mm All 40mm Shoulder Fired Weapons – (See Scheduling) M257 Smoke Grenade Launcher Infantry Mortars - All	Vehicles:  1. Road & River Report Dependent.  2. Maximum of five (5) POVs are Authorized to park in parking lot area with or without a POV pass.  3. POVs are not authorized when Artillery, Mortars, Rockets/Missiles are present.
Elevation: 575' AMSL	Impact Area: Zulu/Whiskey		
Troop Penetration: Prohibited			
Type: Tank & Fighting Vehicles	Engagement Distance: Min – 10 Meters Max – 4,000 meters		

**THIS IS NOT CONTRACTOR SUPPORTED RANGE**

**Range Facilities:** Bleachers, Ammo tables, Ammo shelters



## Scheduling

1. Unit shall utilize RFMSS to schedule range.
2. Scheduling of this range for the firing of shoulder fired 40mm, Infantry Rockets, Service Shotguns or Service Pistols must be done concurrently with heavy weapons.
3. Final scheduling of this facility must be approved by MCB Camp Pendleton Range Scheduling.

**Closed To Any Use**

**Facility May Still Be Used With Restrictions**

**Facility Must Check Fire All Weapons**

Facility Occupied, or in Training/Live Fire Status	Effects to R-408A
A-R220 (W)	C/F 155MM DIRECT FIRE & .50 CAL (A606)
A-R220 TACP OP JACOB	C/F 155MM DIRECT FIRE & .50 CAL (A606)
A-R220 TACP OP M	C/F 155MM DIRECT FIRE & .50 CAL (A606)
A-409A TACP	L/F TOW @R408A CLOSSES 409A TACP
A-R440 (Z)	CHECK FIRE
A-R440 TACP	CHECK FIRE
A-R440 URBAN TACP	CHECK FIRE
IMP WHISKEY	C/F 155MM DIRECT FIRE & .50 CAL (A606)

Special Instructions Continued on Next page

ENCLOSURE (67)



## RANGE AND TRAINING REGULATIONS

Facility Occupied, or in Training/Live Fire Status	Effects to R-408A
<b>IMP ZULU</b>	<b>CHECK FIRE</b>
<b>R-223B</b>	<b>CHECK FIRE TOW</b>
<b>R-408B</b>	<b>CHECK FIRE RKTS, MK19, TOW FOR DWN RNG MVT @R408B</b>
<b>R-409A RFA</b>	<b>CHECK FIRE TOW &amp; CARL GUSTAV</b>
<b>R-800</b>	<b>CHECK FIRE 155MM DIRECT FIRE</b>
<b>AFA 21 DPICM</b>	<b>CLOSED</b>
<b>AFA 30 HIMARS</b>	<b>CLOSED</b>
<b>AFA 31 DPICM</b>	<b>CLOSED</b>

### OIC/RSO Requirements

1. A safety Brief shall be conducted prior to each live fire event to all participants.
2. All personnel shall wear required PPE during all training events.
3. Tanks/LAVs/TOW/Artillery/40mm HEDP/Rockets
  - a. OIC Requirement – GySgt or Above
  - b. RSO Requirement –SSgt or Above
4. Small Arms-.50 Caliber & below/40mm TP
  - a. OIC Requirement – SSgt or Above
  - b. RSO Requirement – Sgt or Above
5. No Munitions
  - a. OIC Requirement – None
  - b. RSO Requirement – Cpl or Above
6. LASER (If Used) LRSO Requirement –Sgt or Above
7. Weapons Qualified PSOs
  - a. **Daylight** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **FOUR** Marines.
  - b. **Night** - shall be assigned one to each Crew Served Weapon/Vehicle and one per every **TWO** Marines.

### Range Guards, Signs and Gates

1. **Range Guards and Gates:**  
 Range 409A RFA Gate/RG at 66118 95703
  - a. Range 409A RFA Gate/RG is required when firing TOW/Javelin Missiles.
  - b. Range 409A RFA Gate/RG can be locked with a Unit provided lock. If using Unit does not have a lock, Range 409A RFA Gate/RG must be posted.
  - c. **Range Guards shall be posted in pairs of two with two-way radio communication with the RSO**
  - d. No traffic or personnel shall enter R408A without the OIC's or RSO's permission.
  - e. Range Guards are required when firing weapon systems with a back blast at the entrance at 65229 91677

### .50 Caliber and below Rifles / Machine Guns (No SLAP/SLAP-T)

.50 Caliber Below Static Fire	10 Meter BZO/Qualification
<ol style="list-style-type: none"> <li>1. Cross firing is not being conducted.</li> <li>2. All setting of T&amp;E's and Tripods are conducted and report to the OIC.</li> <li>3. Guns are laid in with a compass and verified by the RSO.</li> <li>4. Positive stops are used to prevent firing out of the approved SDZ.</li> <li>5. All tripods are sandbagged.</li> <li>6. The use of Tracers are FDR Dependent.</li> <li>7. <b>Firing Line</b>                65128 91781 to 65201 91917  <b>Lateral Limits:</b>                LLL: 300° mag                RLL: 311° mag             </li> </ol>	<ol style="list-style-type: none"> <li>1. All setting of T&amp;E's and Tripods are conducted and report to the OIC.</li> <li>2. Guns are laid in with a compass and verified by the RSO.</li> <li>3. Positive stops are used to prevent firing out of the approved SDZ.</li> <li>4. All tripods are sandbagged.</li> <li>5. All M249/M240G BZO and 10 meter qualification can use pallets set on the firing line.</li> <li>6. Any engineer stakes used for pallets must be placed on the outside edges of the pallets.</li> <li>7. The firing line is backed off the target line IAW TM's for BZO and 10 meter 7.62mm qualifications.</li> <li>8. <b>The use of Tracers must be FDR Dependent.</b></li> </ol>
.50 Caliber and Below Defilade	
<ol style="list-style-type: none"> <li>1. <b>Firing Box</b>                65233 91808 to 65271 91973 to                65163 91845 to 65201 91917</li> <li>2. <b>Lateral Limits:</b>                LLL: 300° mag                RLL: 311° mag</li> </ol>	<b>Target Line</b> 65128 91781 to 65201 91917 <b>Firing Line</b> 65137 91776 to 65210 91912 <b>Lateral Limits:</b> LLL: 300°mag RLL: 311°mag

Special Instructions Continued on Next page

ENCLOSURE (63)

## RANGE AND TRAINING REGULATIONS

### Shoulder Fired 40mm

1. **When conducting Shoulder Fired 40mm Training the RSO Must Ensure:**
  - a. Personnel are instructed in the proper use of grenade launchers and applicable safety precautions before firing with live ammunition.
  - b. Protective helmet and body armor or PPE Level 1 (Marine Corps) is worn when firing HE ammunition. Requirement for eye protection must be determined by the commander as part of the risk management process.
  - c. Single hearing protection is worn within 2 meters of firing these grenade launchers.
  - d. That the minimum target engagement for MK32, M79, M203, and M320 grenade launchers firing HE ammunition is 130m or 165 m, depending on type of ammunition.
  - e. All duds are reported to LONGRIFLE.
  - f. Targets are engaged only at ranges greater than 75m with training practice (TP) ammunition.
2. **Firing Data:**  
**Firing Line**  
 65128 91781 to 65201 91917  
**Lateral Limits:**  
 LLL: 296° mag  
 RLL: 311° mag

### MK-19

Static	Defilade
<ol style="list-style-type: none"> <li>1. Targets are engaged only at ranges greater than 75 meters with training practice (TP) ammunition.</li> <li>2. Targets are engaged only at ranges greater than 310 meters with High Explosive (HE) ammunition.</li> <li>3. Gunners, crew members, and other personnel at the firing position are wearing protective helmet, eye/ear protection, and body armor (PPE Level 1) at all times when firing HE ammunition.</li> <li>4. <b>Firing Data:</b>  <b>Firing Line</b>            65140 91803 to 65201 91917  <b>Lateral Limits:</b>            LLL: 296° mag            RLL: 311° mag         </li> </ol>	<ol style="list-style-type: none"> <li>1. Targets are engaged only at ranges greater than 75 meters with training practice (TP) ammunition.</li> <li>2. Targets are engaged only at ranges greater than 310 meters with High Explosive (HE) ammunition.</li> <li>3. Gunners, crew members, and other personnel at the firing position are wearing protective helmet, eye/ear protection, and body armor (PPE Level 1) at all times when firing HE ammunition.</li> <li>4. <b>Firing Data:</b>  <b>Start Firing Line</b>            65181 91799 to 65233 91899  <b>Cease Firing Line</b>            65153 91825 to 65201 91917  <b>Lateral Limits:</b>            LLL: 300° mag            RLL: 311° mag         </li> </ol>

### Rockets

#### Carl Gustaf- NO HEAT Rounds

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <b>MAAWS (Carl Gustaf)</b> <ol style="list-style-type: none"> <li>a. Prone firing of MAAWS HE or TP ammunition is not authorized.</li> <li>b. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>c. All personnel within a <b>100 meters</b> radius of the MAAWS must wear double hearing protection.</li> <li>d. All personnel within <b>101-500 meter</b> radius of the MAAWS must wear single hearing protection.</li> <li>e. All personnel within a <b>20 meters</b> radius of the MAAWS must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> <li>3. <b>AT-4 HE</b> <ol style="list-style-type: none"> <li>a. Prone or foxhole firing of AT-4 HE (M136) is not authorized.</li> <li>b. In training, an individual may fire one round from the sitting position or three rounds from the standing or kneeling positions in a 24-hour period.</li> <li>c. All personnel within a <b>20 meters</b> radius of the AT4 must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>2. <b>SMAW HE</b> <ol style="list-style-type: none"> <li>a. During training with the SMAW, the gunner, assistant gunner or any instructors are authorized to fire/be exposed to only five rounds per day.</li> <li>b. All personnel within a <b>100 meters</b> radius of the SMAW firing HE type rounds must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> <li>c. All personnel within <b>390 meter</b> radius of the SMAW must wear single hearing protection.</li> </ol> </li> <li>4. <b>LAW HE</b> <ol style="list-style-type: none"> <li>a. Limit the number of daily firings by any individual (gunner or personnel within 20m) to four.</li> <li>b. All personnel within a <b>20 meters</b> radius of the LAW must wear Body Armor, Helmet, hearing/eye protection, and sleeves down with collars worn up position which is <b>PPE Level 1</b>.</li> </ol> </li> </ol> |
|--|---|

#### Firing Data

1. **Firing Line**  
 65128 91781 to 65201 91917  
**Lateral Limits:**  
 LLL: 296° mag  
 RLL: 311° mag

Special Instructions Continued on Next page

ENCLOSURE (63)

# RANGE AND TRAINING REGULATIONS

## TOW – HEAT & Inert / JAVELIN GM

1. **When conducting TOW/JAVELIN:**
2. **For all TOW/JAVELIN:**
  - a. All TOW/JAVELIN firing must be conducted from the far right side of the firing line.
  - b. OIC/RSO must ensure that TOW/JAVELIN Gunners only engage authorized TOW/JAVELINE targets.
  - c. Maximum of two vehicles/launchers must be allowed on the line at one time.
  - d. TOW wire must be cut and recovered after firing is secured.
3. **Firing Data:**

**Firing Line**  
65191 91900 to 65201 91917

**Lateral Limits:**  
LLL: 307°mag  
RLL: 314°mag

## Mortar and Artillery Firing Data

1. **When conducting Mortar or Artillery Training the RSO must ensure:**
  - a. POV's do not enter MP- R408A even if they have a range pass.
  - b. To report, to LONGRIFLE the Max Ord and charge to be fired.
  - c. The Max Ord remains within the scheduled Airspace and must be at least 1000 Feet below any FW Aircraft transitioning over the Impact Area.
  - d. That the FDC has plotted the target box and any RFA's on both the primary and secondary plotting boards for Mortars.
  - e. To check the FDC/Gun line Safety-T's. Safety-T shall be on hand with each gun.
  - f. Mortar and Artillery Position engage targets utilizing the data contained in this brief.
  - g. Mortars fire registration fires that shall be verified by the RSO prior to the exercise.
  - h. Base Plates shall be marked at 11 o'clock and aiming stakes shall be left in place after registration.
2. **During all powder burning activities:**
  - a. Increment Burning shall be IAW CAMPENO 3500.1A
  - b. Units must contact LONGRIFLE for permission prior to burning increments.
  - c. Powder shall be burned in areas cleared to mineral earth, and located no closer than 200 feet from vegetation.
  - d. Unit must not exceed 100 increments or 40 bags at any one time while burning.
  - e. Units must have fire extinguishers, water, and shovels at the burn site.
  - f. Units must remain at the burn site for 30 minutes after the last burn, ensuring no fires have been started in the surrounding vegetation.
  - g. Units must contact LONGRIFLE after last increment or bag has burned and 30 minutes has passed.

60mm Mortars Handheld	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 450 meters Max Range- 1,300 meters Max Charge- 1 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64826 92125 to 64909 92207 to 64396 92885 to 64156 92648
60mm Mortars	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 1,000 meters Max Range- 3,300 meters Max Charge- 4 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64392 92464 to 64577 92646 to 63189 94479 to 62579 93879
81mm Mortars	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 5475 mils grid RLL: 5740 mils grid Min Range- 1,000 meters Max Range- 3,300 meters Max Charge- 2 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## 155mm- Arty Direct Fire

155mm Artillery	Firing Box Boundaries	Target Box Boundaries
Center Firing Point- 65181 91848 LLL: 1645 mils grid RLL: 1790 mils grid Min Range- 800 meters Max Range- 1,600 meters Max Charge- 3 Elev- 570' AMSL	65170 91797 to 65218 91885 to 65191 91899 to 65144 91811	64550 92341 to 64682 92474 to 64184 93100 to 63919 92833

Special Instructions Continued on Next page

ENCLOSURE (63)

## RANGE AND TRAINING REGULATIONS

### LAV System

1. **DO NOT GO PAST THE ESTABLISHED FIRING LINE.**
2. **Cross-lane firing is prohibited.**
3. **RSO must assign left & right lateral limits to each individual and/or weapons system/platform.**
4. **Personnel must NOT be within the 25mm SDZ or forward of the 2<sup>nd</sup> road wheel of LAV-25.**
5. **Firing Data: 25 mm TP-T & TPDS-T only**  
**Firing Line –**  
65128 91781 to 65201 91917  
**Lateral Limits:**  
LLL: 300°mag  
RLL: 311°mag

### Main Tank System

**Firing Data: TP-T Only**  
**Firing Line –**  
65128 91781 to 65201 91917  
**Lateral Limits:**  
LLL: 300°mag  
RLL: 311°mag  
**Elevation for 120mm will not exceed 5 degrees.**

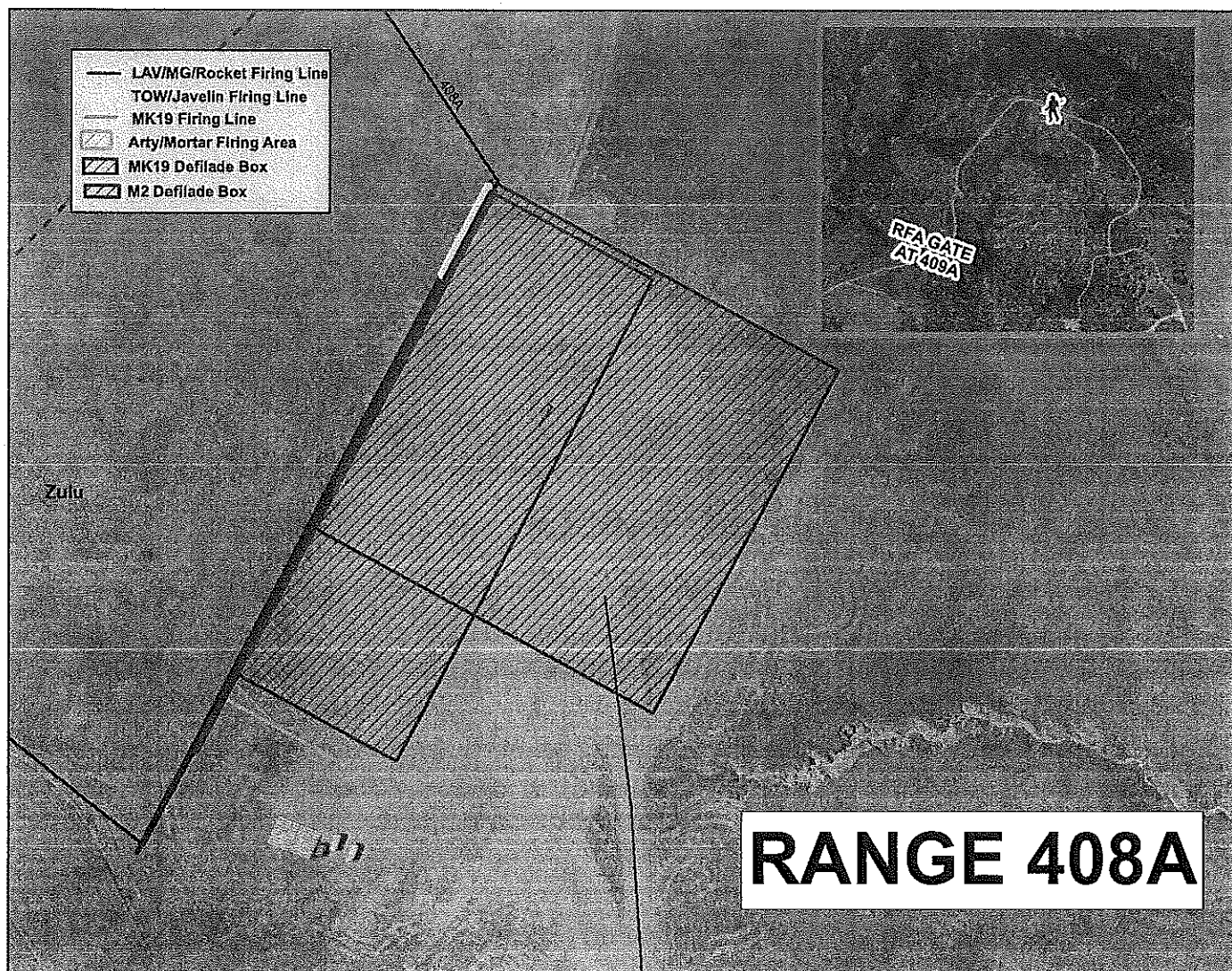
### During Armored Vehicles Live Fire, The Following Flag Display System Must Be Used

1. **Red** – Weapons are loaded, on target, weapon arm switch is on fire, and manual safety is off.
2. **Green** – All weapons are cleared and elevated, weapon arm switch is on safe and manual safety is off. No ammunition on vehicle.
3. **Yellow & Red** – Malfunction or misfire, weapon arm switch is on safe and manual safety is on or Ammunition on vehicle
4. **Yellow & Green** – Malfunction, weapons are clear, weapon arm switch is on safe and manual safety is on, no ammunition on vehicle.
5. **Red & Green** – Crew preparing to fire or crew is conducting non-firing exercise, ammunition is either stowed or loaded in ready boxes.
6. **Regardless of displayed flags, the RSO must physically verify all weapons are clear prior to any movement of vehicles or reporting to LONGRIFLE that Weapons are clear.**

**Special Instructions Continued on Next page**

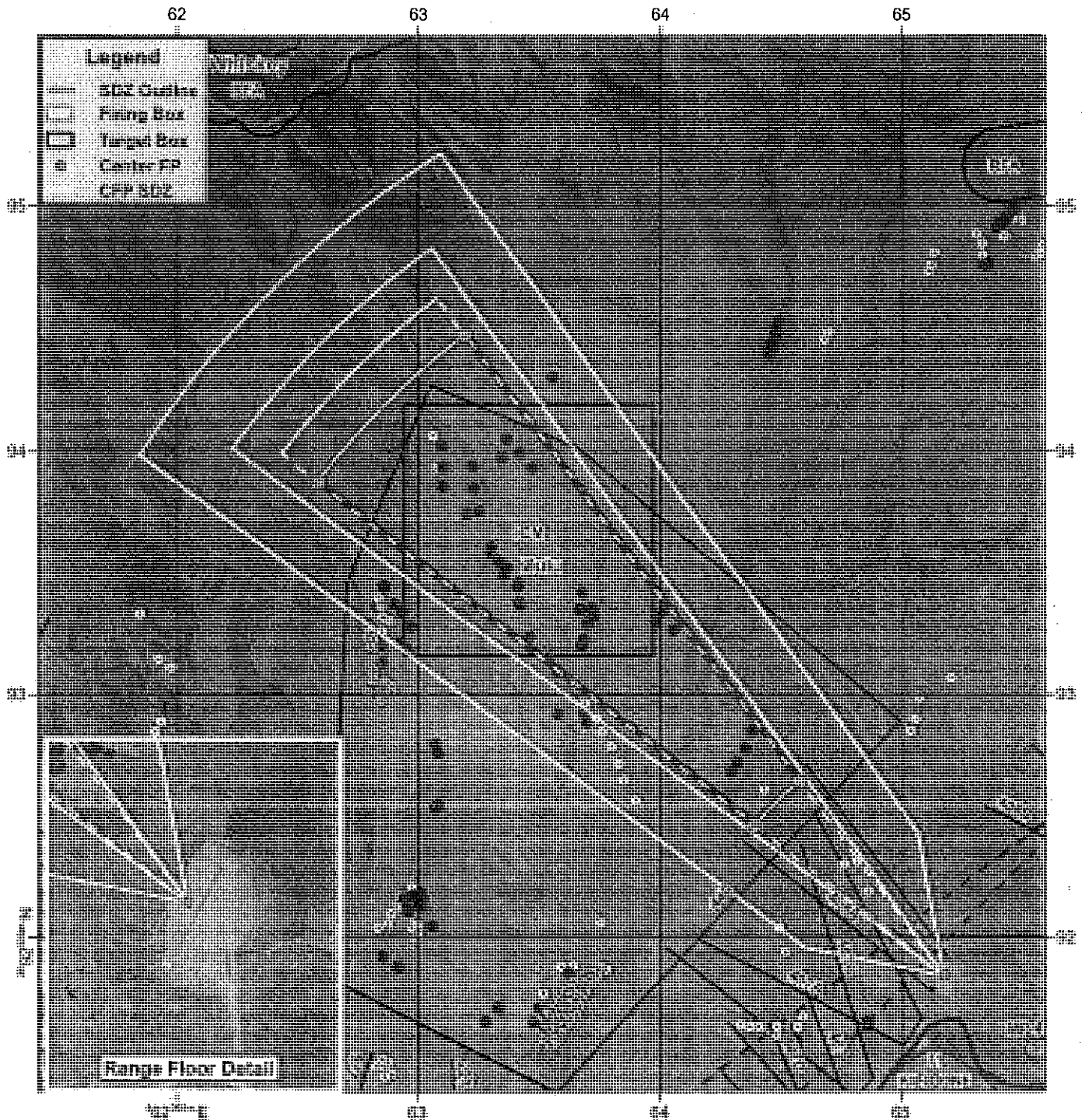
ENCLOSURE (63)





# Weapon Type: 60mm MORTARS

Map Scale = 1:22,662



Weapon: 60mm Mortars  
 Ammo: HE M720/M734 MOF  
 DODIC: B642  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 60mm Min Range: 1,000 meters  
 60mm Max Range: 3,300 meters  
 Max Charge: 4  
 Charge 4 Distance X: 3,489 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

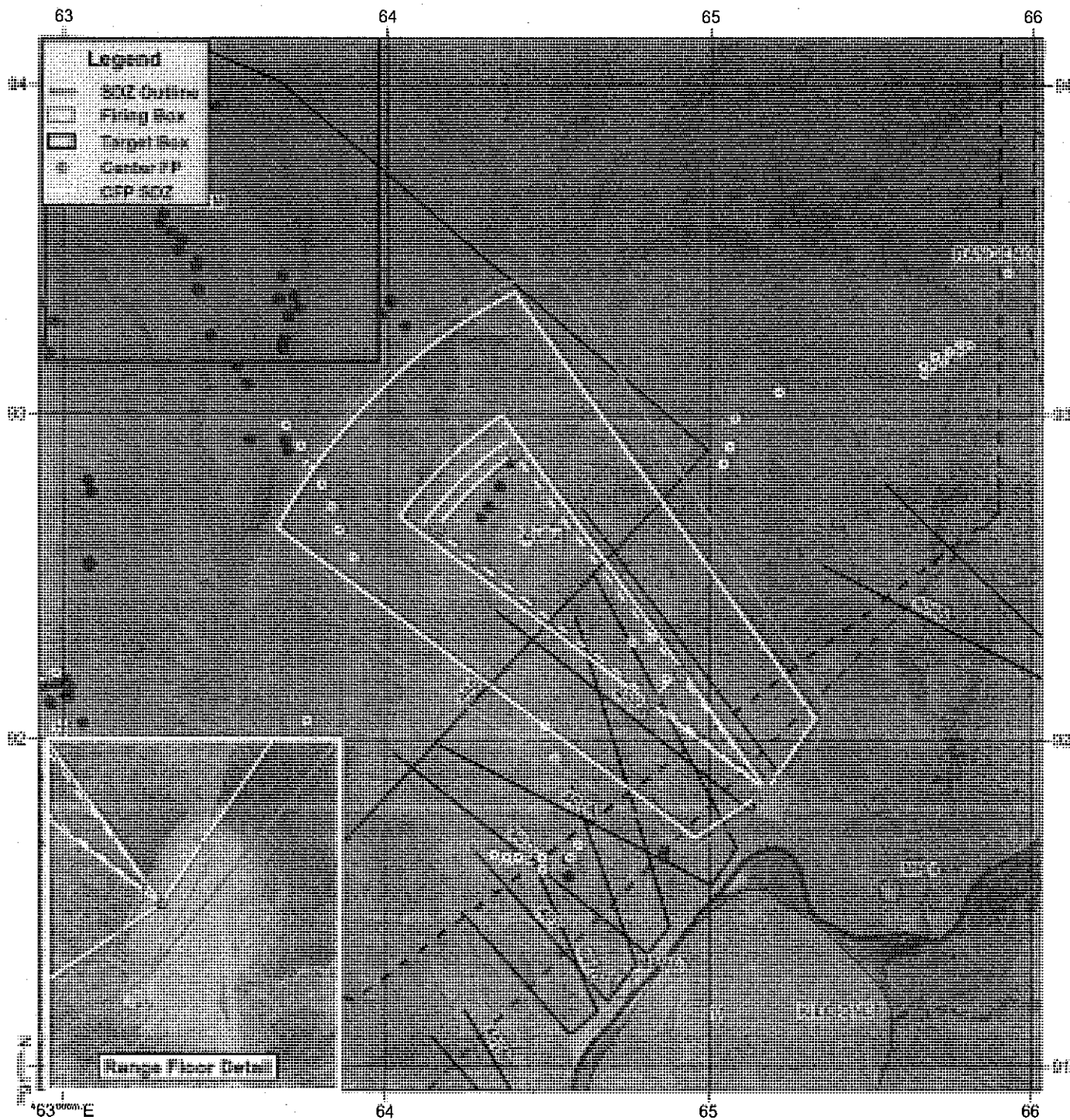
Created By  
 Approving

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

ENCLOSURE (63)

# Weapon Type: 60mm Handheld MORTARS

Map Scale = 1:16,864



Weapon: 60mm Handheld Mortars  
 Ammo: HE M720/M734 MOF  
 DODIC: B642  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 60mm Min Range: 450 meters  
 60mm Max Range: 1,300 meters  
 Max Charge: 1  
 Charge 1 Distance X: 1,342 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64826 92125 to 64909 92207 to 64396 92885 to 64156 92648

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

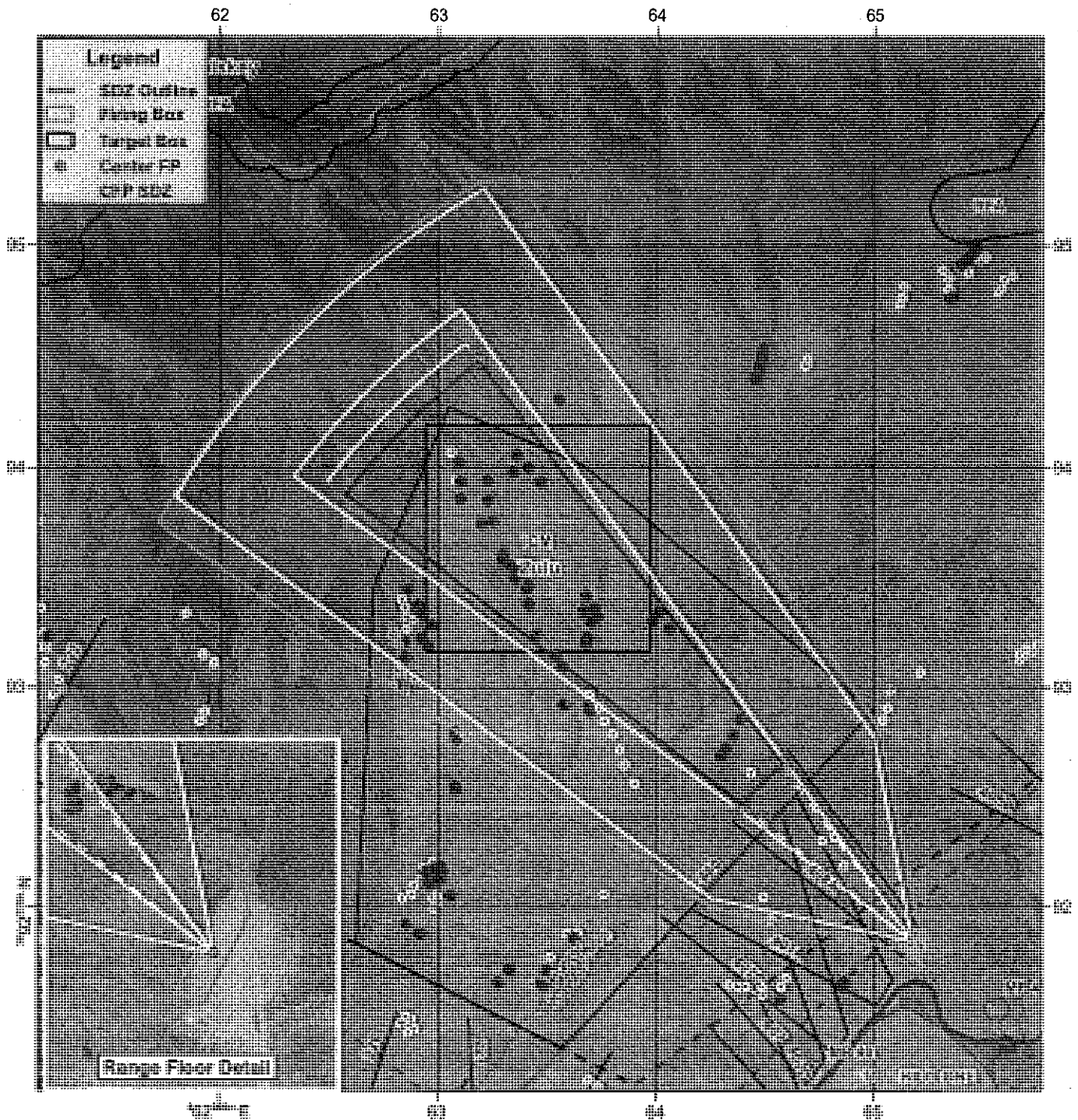
Created By:  
 Approving:

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

ENCLOSURE (63)



# Weapon Type: 81mm MORTARS Map Scale = 1:25,000



Weapon: 81mm Mortars  
 Ammo: HE M821 w/M734 MO Fuze  
 DODIC: C868  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 81mm Min Range: 1,000 meters  
 81mm Max Range: 3,300 meters  
 Max Charge: 2  
 Charge 2 Distance X: 3,400 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64392 92464 to 64577 92646 to 63189 94479 to 62579 93879

## MP-408A Zulu

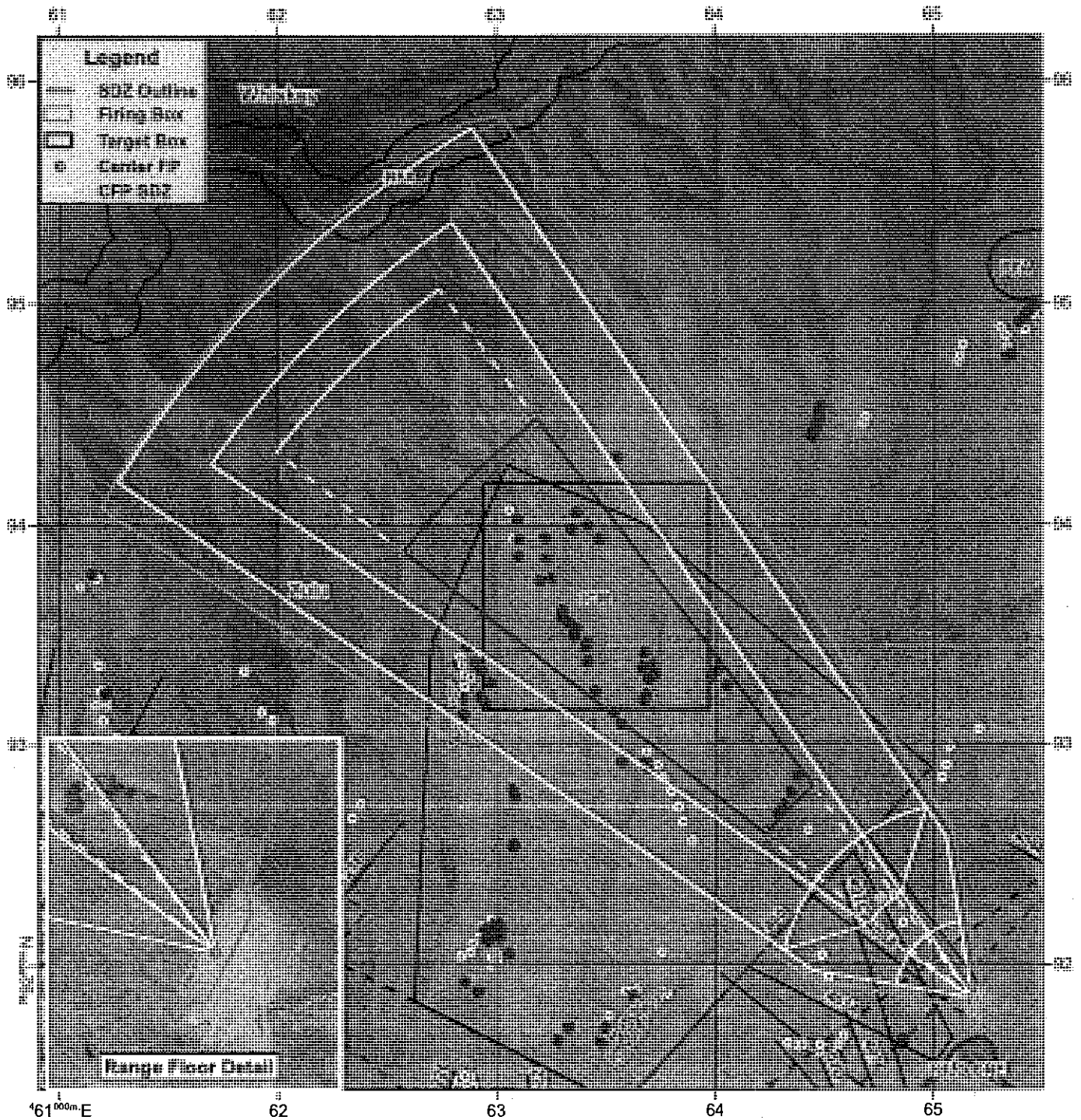
- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

Created By  
 Approving /

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

ENCLOSURE (63)

# Weapon Type: 120mm RIFLED MORTARS Map Scale = 1:25,000



Weapon: 120mm Mortars  
 Ammo: M1101 HE  
 DODIC: CA45  
 Center Firing Point: 65181 91848  
 Left Lateral Limit: 5475 mils grid  
 Right Lateral Limit: 5740 mils grid  
 81mm Min Range: 1,200 meters  
 81mm Max Range: 3,300 meters  
 Max Charge: 2  
 Charge 2 Distance X: 4,037 meters  
 FP elevation: 570 feet AMSL  
 Impact Area: Zulu

Range Guards posted per Range Regs.  
 OIC shall report to LONGRIFLE:  
 Max Ord & Charge to be fired.  
 Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
 Firing Gun Line Must Remain Within Firing Box Boundaries  
 Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
 Target Box Boundaries  
 Target Box Boundaries: 64235 92587 to 64456 92805 to 63189 94479 to 62579 93879

## MP-408A Zulu

- Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.
- RSO shall ensure that the FDC has plotted target box on both primary and secondary boards.
- All mortars will fire registration fires that will be verified by the RSO prior to the exercise.
- Safety "T" will be with each gun.
- No POV's shall be allowed on MP-408A even if they have a range pass.

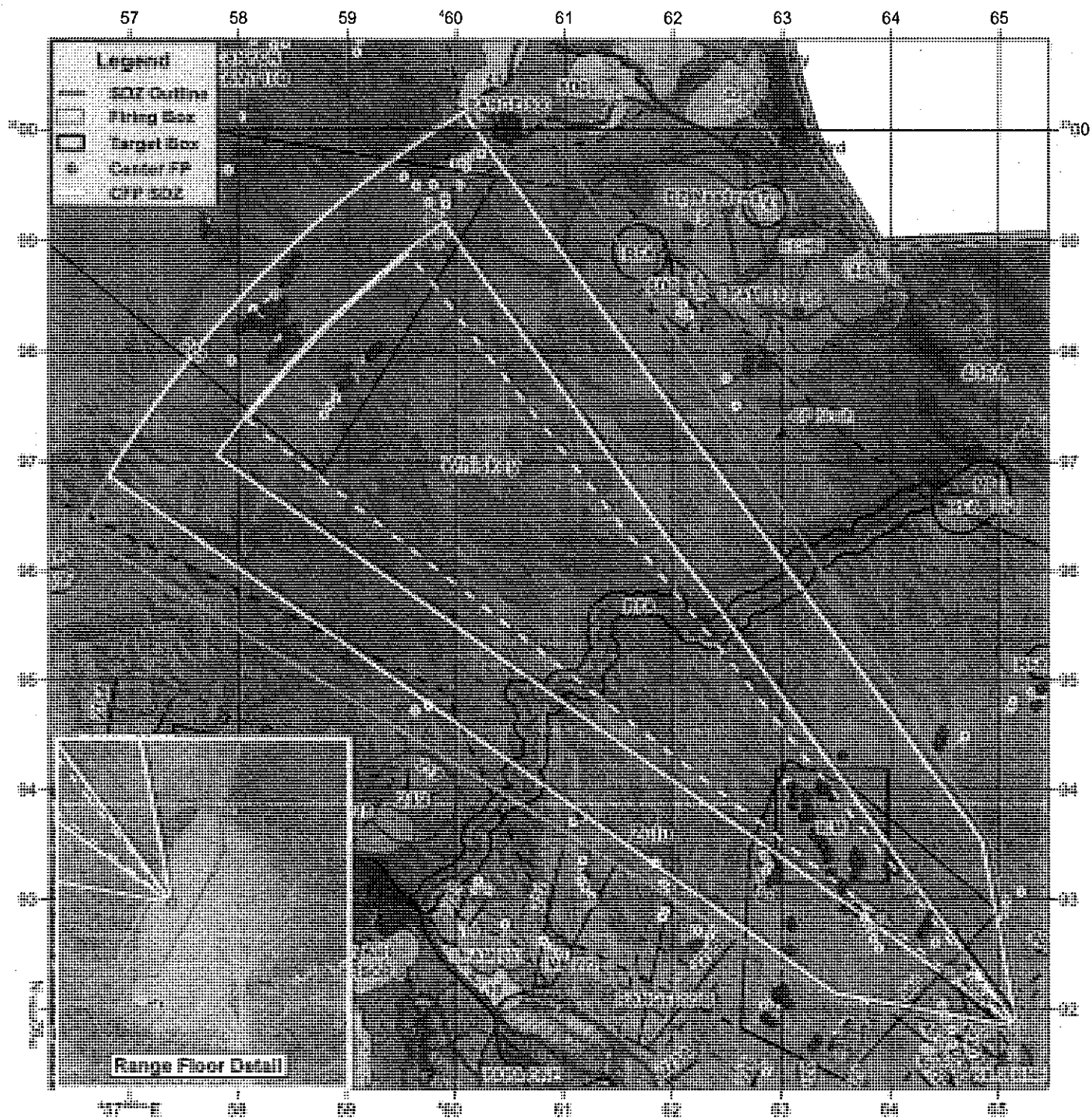
Created By:  
 Approving:

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

ENCLOSURE (63)

# Weapon Type: ARTILLERY

Map Scale = 1:50,000



Weapon: 155 mm  
Center Firing Point: 65181 91848  
Left Lateral Limit: 1645 mils Grid  
Right Lateral Limit 1790 mils Grid  
Max Range: 1,600 Meters  
Min Range: 800 Meters  
Max Charge: 3  
Charge 3 Distance X: 9,000  
FP Elevation: 570 Feet AMSL  
Impact Area: Zulu/Whiskey

OIC shall report to LONGRIFLE:  
Max Ord & Charge to be fired, any HEWP/Smoke rounds falling short into RFA  
Max Ord shall remain within scheduled Airspace and shall be at least 1,000 Ft below any FW Aircraft transitioning over the Impact Area.  
Firing Gun Line Must Remain Within Firing Box Boundaries  
Firing Box Boundaries: 65170 91797 to 65218 91885 to 65191 91899 to 65144 91811  
Target Box Boundaries  
Target Box Boundaries: 64550 92341 to 64682 92474 to 64184 93100 to 63919 92833

## MP-408A Zulu

Approved safety card, data card, SDZ, & signed ORM must be on hand to conduct training.

When shooting High Angle Fires above 15,000 Ft, R2503C restricted airspace must be requested and approved.

Range Guards must be posted to prevent entry into Area E. #1 - 65234 91677

Created By:  
Approving A

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

ENCLOSURE (63)



# T&R Tasks

- 1803/1833-GNRY-1131: Conduct AAV Gunnery Table I
- 1803/1833-GNRY-1132: Conduct AAV Gunnery Table II
- 1803-GNRY-1133/1833-GNRY-2106: Conduct AAV Gunnery Table III
- 1803-GNRY-1134/1833-GNRY-2107: Conduct AAV Gunnery Table IV
- 1803-GNRY-1135/1833-GNRY-2108: Conduct AAV Gunnery Table V
- 1803/1833-GNRY-1101: Set Headspace and Timing on M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1102: Load M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1103: Zero M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1104: Fire the M2 HB .50 Cal Machine Gun
- 1803/1833-GNRY-1105: Apply Failure to Fire Procedures for M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1106: Unload M2 .50 Cal HB Machine Gun
- 1803/1833-GNRY-1107: Perform Preventive Maintenance Checks and Services (PMCS) on M2 .50 Cal HB Machine Gun on AAVP7A1
- 1803/1833-GNRY-1108: Load MK 19 Mod 3 40mm Machine Gun

UNCLASSIFIED

ENCLOSURE (63)



## T&R Tasks cont.

- 1803/1833-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1110: Fire the MK 19 40mm Machine Gun
- 1803/1833-GNRY-1111: Apply Failure to Fire Procedures for MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1112: Unload MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1113: Perform Preventive Maintenance Checks and Services (PMCS) on MK 19 Mod 3 40mm Machine Gun
- 1803/1833-GNRY-1114: Install M240G 7.62mm Machine Gun on AAVC7A1
- 1803/1833-GNRY-1121: Conduct Minor Boresighting of Upgunned Weapons Station
- 1803/1833-GNRY-1122: Conduct Major Boresighting of Upgunned Weapons Station
- 1803/1833-GNRY-1123: Operate Upgunned Weapons Station
- 1803/1833-GNRY-1124: Engage Targets with Upgunned Weapons Station
- 1803/1833-GNRY-1125: Perform Preventive Maintenance Checks and Services on Upgunned Weapons Station

UNCLASSIFIED

ENCLOSURE (63)





## T&R Tasks cont.

- 1833-GNRY-2105: Set Inhibit Zone for the Upgunned Weapons Station 1803-GNRY-1109: Zero MK 19 Mod 3 40mm Machine Gun
- AAV-GNRY-3156: Conduct AAV Gunnery Table VI

UNCLASSIFIED

ENCLOSURE (2)



## Ammo Load out R408A



- 17,062rds A576, .50 CAL LKD 4 API/API-T F/M2
- 4,000rds, A131, 7.62MM 4 BALL M80/1TRCR M62 LKD
- 2,680rds B542, 40MM HEPD M430/M430A1 LKD (MK 19)

UNCLASSIFIED

ENCLOSURE (63)

## Training Support Request

CO-EVENT-(V#) INT DATE  
18-2 ONLY)

DATE	6/30/2020	UNIT	BRAYO CO	SUBMITTED BY
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(b)(3), (b)(6), (b)(7)(c)

**Scheme of Maneuver/Clarifying Instructions:**

SUPPORT REQUEST IS FOR BRAVO COMPANY AAV PLATOON DURING CREW GUNNERY AND COMPANY ATTACKS

**S-2 Support Requested**

Type	Quantity	Description
Maps		
Imagery		
UAS		
Training Packages		

52 COMMENTS
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82	DATE RECEIVED	DATE APPROVED	SIGNATURE
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DETAILS	
Type of Training	ARV CREW GUNNERY AND BRAVO COMPANY ATTACKS
Training Areas	R408A, R600
RCNI #	
CO-USE REQUIREMENT? Y/N	N
Departure Date/Time	10 JULY 2020/1200
Hot Date/Time	10 JULY 2020/1600
Cold Date/Time	12 JULY 2020/0800
OIC	
RSO	(b)(3), (b)(6), (b)(7)(c)
# of Marines Training	55

## 53 COMMENTS

83	DATE RECEIVED	DATE APPROVED	SIGNATURE
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Rations (MRE/Hot Chow)

MARINE				NAVY				TOTAL	ROSTERS
Officer	Enlisted	Enlisted w/Comrats		Officer	Enlisted	Enlisted w/Comrats			Submitted
1	57	15		0	1	0		59	YES
Person to Pick-Up Chow				(b)(3), (b)(6), (b)(7)(c)				DATE	8-Jul-20
Chow Plan				DATE				8-Jul-20	LOC
Breakfast				Lunch				21 AREA AAVS	TIME
MRE, UGR-HS, UGR-A (Vat), Box Lunch, Chow				MRE				Dinner	
Ice (Plan for 5 lbs/Marine)				I/N				MRE	

PORTA JOHN

PAX	TRAINING AREA LOCATION AND GRID	START DATE	END DATE
59	R400A / 11S MS 63190 90469	10-Jul-20	12-Jul-20
59	TR-GOLD BEACH / 11S MS 55543 85163	14-Jul-20	16-Jul-20

## MEDICAL

NUMBER OF CORPSMAN	REPORT DATE/TIME/LOCATION	RETURN DATE/TIME	REPORT TO

REMARKS: CORPSMAN SUPPORT ORGANIC TO THE PLATOON. REQUESTING SAFETY VIC WITH DRIVER AND ARMORER AS A/DR

34 COMMENTS

REQUESTING MRE'S (59) DELIVERED AT AAV RAMP BLDG  
210577 (115 MS 62449 75683) ON 8 JULY / 1000.  
REQUESTING JLTW WITH DRIVER AND A-DRIVER (ARMORER)  
FOR SAFETY VEHICLE. SAFETY VIL WILL LINK UP AT R408A  
ON 10 JULY AT NLT 1500 AND RETURN 12 JULY NLT 0800,  
UPON COMPLETION OF LIVE FIRE TRAINING. REQUESTING  
WATER SUPPORT ON R408A FROM 1500 10 JULY TO 0800 12  
JULY. REQUESTING (1700) GAL5 RETUELLER SUPPORT WITH  
PUMP AT R600 (115 MS 62920 99410) AT 1200 ON 14 JULY.

Transportation ('Time' is show-time for vehicles)

TRIP						RETURN					
DATE	TIME	FAX	CARGO	LOCATION	DESTINATION	DATE	TIME	FAX	CARGO	LOCATION	DESTINATION
TRANSPORTATION PREFERENCES (i.e. bus, van, 7 ton, etc.)											

### Tactical Vehicle Request

Tactical Vehicle Request			Pick-Up		Return		Driver Request			
Vehicle Type	#	# Ammo	Destination	DATE	TIME	DATE	TIME	Driver	Ammo Driver	IF PROVIDING OWN, DRIVER NAME
MI123/MI152 Mback										
MI123/MI168 4Door										
MI151 DASH										
MI167 TOW Variant										
MRAP 4x4										
M-ATV										
MWC 148										
MWC 145										
Ambulance 2 Litter										
Ambulance 4 Litter										
7 Ton (PAX)										
7 Ton (CARGO)										
Trailer										
JLTV HIGH BACK	1		R408A	10 JUL	1500	12 JUL	0800	1		
REFUELER (1700 GALS)	1		R600	14 JUL	1200	14 JUL	1600	1		REQUESTING ARMORER FOR A/DRIVER
MI05 7Ton Trailer										
MI01/MI102 Trlr										
MI16 Trlr										
MI49 Water Buil	1		R408A	10 JUL	1500	12 JUL	0800	1		

\*\*\*VEHICLES WILL NOT BE DISPATCHED UNLESS PMS ARE COMPLETED FOR THE WEEK\*\*\*

ASSO DIRVR(S) W/ RANK			DELIVERY LOCATION		R408A 11S MS 65162 91781
TIME OF DELIVERY	1500 10 JULY		DATE RECEIVED		
TIME/DATE OF PRESTAGE			DATE APPROVED		
TIME/DATE OF PICKUP	0800 12 JULY		GUNNER'S APPROVAL		

ENCLOSURE (63)

# 1st Battalion 4th Marines

## Training Support Request

Ammunition		
Qty	DODIC	NOMENCLATURE
	A059	CTG, 5.56MM BALL F/M16A2
	A063	CTG, 5.56MM TR F/M16A2
	A064	CTG, 5.56MM BALL TR 4/1 F/SAW
	A075	CTG, 5.56MM BLANK LKD F/SAW
	A080	CTG, 5.56MM BKK F M16A1/A2
4500	A131	CTG, 7.62MM 4 BALL M80/1TRAC M62 LKD
	A358	CTG, 9MM PRAC AT-4
	A363	CTG, 9MM BALL PISTOL (HEW)
17063	A576	CTG, .50 CAL LKD 4 API/API-T F/HZ
	A606	CTG, .50 CAL API MK 211-0
	A611	CTG, 7.62MM M118 T RANGE
	A611	CTG, 9MM SPOTTING RIFLE (SHGW)
	B519	CTG, 40MM PRAC M781
	B535	CTG, 40MM WHITE STAR DATA
2680	B542	CTG, 40MM HEFP M430/M430A1 LKD (MK 19)
	B546	CTG, 40MM HEFP LOWVEL LCHD
	B642	CTG, 60MM HE M720 LMCMS W/HOF
	B647	CTG, 60MM ILLUM M721
	B614	CTG, 60MM WP M722A1
	B621	CTG, 40MM PRAC
	C484	CTG, 81MM ILLUM INFRARED
	C669	CTG, 81MM HE M889
	C670	CTG, 81MM SHK RP M819 (IUK)
	C671	CTG, 81MM ILLUM M853 (IUK)
	C995	CTG, 84MM & LNCNR M136 (AT-4)
	G678	FUZE, M228 F/G811
	G881	HG, FRAGMENTATION M67
	G945	HG, SHK VEL
	G963	HG, RIOT CS M7
	G982	HG, SHK TNG M83
	HA21	ROCKET, 21MM SUB-CALIBER, M72AS

Qty	DODIC	NOMENCLATURE
	HA29	RKT, 60MM HE M72A7 (LAW)
	HK05	RKT, 82MM ASSAULT (SHAW)
	J007	MINE, APERS-T M18A1 w/Accessories
	K765	RIOT CTRL AGENT CS CAPSULE
	L311	SIG, ILLUM RS CLUSTER M126A1
50	L312	SIG, ILLUM WS PARA M127A1
	L495	FLARE, SURFACE TRIP M49A1
	L592	TOW BLAST SIMULATOR
	L594	SIM, PROJ GRND BURST M115A2
	L598	SIM, BOOBYTRAP FLASH M117
	L599	SIM, BOOBYTRAP ILLUM M118
	M028	DEMO KIT, BANGALORE TORG M1A2
	M030	CHG, DEMO BLK 1/4LB TNT
	M032	CHG, DEMO BLK 1LB TNT
	M130	CAP, BLST ELEC M6
	M131	CAP, BLST NON-ELEC M7
	M456	CORD, DET TYPE-1
	M670	FUZE, BLST TIME M700 (U/I FT)
	M757	CHG, ASSY DEMO KIT M183 C4 16X1-1/4LB
	M908	IGNITER, BLST TIME FUSE M81
	MN79	DEMO KIT, ANTI-PERS OBSTL BREECH SYS MK7-1 (APORS)
	WH03	GM, TOW-2 SURF ATK BGM-71D-5
	WH06	GM, TOW PRAC
	A111	CTG, 7.62MM BLANK LNKD
	A598	CTG, .50 CAL BLNK LNKD
	G940	HG, GREEN SMOKE
	G920	HG, STUN
	MN52	INITIATOR, DUAL SHOCK TUBE W/CAPS
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)
		OTHER (SPECIFY DODIC AND NOMENCLATURE)

ORDNANCE TO BE LTI/PFI	YES NO	ARMORER SUPPORT AT RANGE NEEDED	Y X N
NO EARLIER THAN DATE OF LTI/PFI	N/A	NO LATER THAN DATE OF LTI/PFI	8-JUL-20
Date of Weapons Draw	10-Jul-20	Date of Weapons Return	14-Jul-20
Time of Weapons Draw	0800	Time of Weapons Return	1600

### Equipment to be LTI/PFI (Estimate quantities)

NOMENCLATURE	QTY
M9 PISTOL	
M16A4 RIFLE	
M203	
M4 CARBINE	
M249 SAW	
M32 MSGI	
M240B MG	3
M2 .50 CAL MG	13
MK-19	13
MK-153 SHAW	
M224 60MM	
M282 81MM	
M141 SABER	

NOMENCLATURE	QTY
M1014	
M40A3/A5	
M107 SASR	
M72 LAW TRAINER	
MK93	
M35 COYOTE MOUNT	
M3 TRIPOD	
M122 TRIPOD	
MK64 MOUNT	
JAVELIN BST	
JAVELIN ITT	
COMBAND LAUNCH UNIT	
PLDR	

NOMENCLATURE	QTY
AN/PQ-18A	
AN/PVS-17C	
AN/PVS-24	
AN/PQ-16	
AN/PVS-14	
AN/PVS-28	
AN/PAS-13B (V2)	
AN/PAS-13D (V2)	
AN/PAS-13D (V3)	
M22 BINO (LARGE)	
M24 BINO (SMALL)	
FIELD II	
LASER BORE SIGHT	

NOMENCLATURE	QTY
M27	
M38	
M320 GL	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	

84	DATE RECEIVED	DATE APPROVED	SIGNATURE
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		Pick-Up		Return	
NOMENCLATURE	Qty	DATE	TIME	DATE	TIME
PRC-152	3	7/9/2020	1000	7/15/2020	1000
PRC-153					
PRC-119					
PRC-119F					
PRC-117					
PRC-150					
VRC-110					
VRC-89					
VRC-90					
MRC-145					
COMM-201B					
OE-254					
CIE-10					
DTCS					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
Days Batteries Req.					

86 COMMENTS
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86	DATE RECEIVED	DATE APPROVED	SIGNATURE
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ENCLOSURE (63)

**1st Battalion 4th Marines  
Chow Request**

MARINE ENLISTED WITH MEAL CARDS							MARINE ENLISTED WITH MEAL CARDS						
#	RANK	LAST	FIRST	MI	ED IPT	MEAL CARD #	#	RANK	LAST	FIRST	MI	ED IPT	MEAL CARD #
1							41						
2							42						
3							43						
4							44						
5							45						
6							46						
7							47						
8							48						
9							49						
10							50						
11							51						
12							52						
13							53						
14							54						
15							55						
16							56						
17							57						
18							58						
19							59						
20							60						
21							61						
22							62						
23							63						
24							64						
25							65						
26							66						
27							67						
28							68						
29							69						
30							70						
31							71						
32							72						
33							73						
34							74						
35							75						
36							76						
37							77						
38							78						
39							79						
40							80						

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

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

#	RANK	LAST	FIRST	MI	ED IPT	COMBATS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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35						
36						
37						
38						
39						
40						

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

#	RANK	LAST	FIRST	MI	ED IPT	COMBATS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

#	RANK	LAST	FIRST	MI	ED IPT	COMBATS
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

#	RANK	LAST	FIRST	MI	ED IPT	COMBATS
1						
2						
3						
4						
5						
6						
7						

ENCLOSURE (63)

# Water Calculation

DIRECTIONS: Review listed amounts for various weather zones and functions. In the area provided, enter the amount for that function that you wish to use for the calculation per person. NOTE: It is dependent upon the mission if all water usage functions will be used.

FUNCTION	TEMPERATE ZONE		TROPICAL ZONE		ARCTIC ZONE		ARID ZONE		DAILY GAL/MAN CALCULATION
	Sustain	Minimum	Sustain	Minimum	Sustain	Minimum	Sustain	Minimum	
Drinking	1.5	1.5	3	3	2	2	3	3	3
Personal Hygiene	1.7	1	1.7	1	1.7	1	1.7	1	1
Field Feeding	2.8	0.8	2.8	0.8	2.8	0.8	2.8	0.8	0.8
Heat Casualty Treatment	0	0	0.2	0.2	0	0	0.2	0.2	0.2
Level 1 Medical Treatment	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Level 2 Medical Treatment	0.7	0.7	0.9	0.9	0.7	0.7	2.8	2.8	0.7
Centralized Hygiene	0	0	0	0	0	0	1.8	0	0
Construction	0	0	0	0	0	0	1.5	0	0
Vehicle Maintenance	0	0	0	0	0	0	0.2	0.2	0
Aircraft Maintenance	0	0	0	0	0	0	0.2	0.2	0
Laundry	0	0	0	0	0	0	2.1	0	0
Subtotal	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	6.1
+10% Waste	0.7	0.4	0.9	0.6	0.8	0.5	1.7	0.9	0.61
Total	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	6.71

DAILY GALLONS PER MAN FOR EXERCISE/OPERATION:	6.71
ENTER NUMBER OF PERSONNEL SUPPORTED:	59
ENTER NUMBER OF DAYS FOR EXERCISE/OPERATION:	3

DAILY WATER REQ:	395.89
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TOTAL WATER REQ:	1187.67
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HELPFUL INFORMATION: (6) 5-GALLON IGLOO WATER COOLERS WILL BE FILLED PRIOR TO DEPARTING 21 AREA. COOLERS ARE INTERNAL TO PLT.

ENCLOSURE (63)

**OPERATIONAL RISK MANAGEMENT MATRIX**

TRAINING EVOLUTION: Range 408A/600		ORGANIZATION: BLT 1/4, CO B AAV PLT	Assigned OIC:	Assigned RSO:	Weapons Systems: M2 .50 cal Mk19 40mm M240		Date: 20200710-20200714
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
Phase III	Marine wounded/killed by Up-Gunned Weapon System or ordnance	-Weapons Malfunction caused by improper headspace and timing. -Negligent Discharge. -Firing outside of designated limits. -Weapons leaving the range not condition 4.	I/C=2	- Marines perform headspace and timing on the .50 cal prior to live fire. - Weapons are kept in condition 4 until on the firing line with turrets oriented down range. - Marines go condition 4 after firing is complete. - Range lateral limits briefed each day prior to training. - RSO inspect weapons leaving the firing line to ensure clear condition 4. -PPE will be worn at all times.	I/D=3	-Armorer checks the headspace and timing of each .50 cal. -Classes given on headspace and timing and Marines perform function checks a week prior to going to the field, as well as redundancy checks for each firing vehicle. -Ensure weapons have PFIs and LTIs, prior to live fire training. -Marines instructed on when to go condition 3 and condition 1 during safety briefs. - PSOs verify condition 4 prior to movement off the firing line. -RSO/OIC give safety brief outlining left and right lateral limits of the range prior to execution each day.	- RSO/OIC verifies headspace and timing prior to live fire. - Master Gunner or OIC inform gun crews when to change the condition of weapons. -RSO clears each weapon prior to leaving range. -Master Gunner and OIC observe effects of fires with relation to range boundaries. -RSO ensures PSO is briefed on their responsibilities during live fire. -RSO coordinate with armory and platoon maintenance chief IOT ensure all weapons have had a LTI and PFI.
Phase III	Marine injured while handling ammunition	-Marines attempting to relink 40mm ammunition. ("buffalo rounds") -Lack of situational awareness. -Marines improperly handling ammunition.	I/C=2	-Ensure no one handles buffalo rounds except for the RSO, OIC, or designated personnel. -Ensure Marines are paying attention to their surroundings and handling ammunition with care.	I/D=3	-Platoon leadership briefs the platoon on handling buffalo rounds and that only the RSO, OIC, or designated personnel will handle buffalo rounds. -Safety brief is conducted and an emphasis is made on handling ammunition with care.	-Platoon commander, platoon sergeant, OIC, and RSO ensure no one is handling buffalo rounds except those designated to do so. -RSO conducts safety brief with an emphasis on handling buffalo rounds and ammunition in general. -Section leaders supervise Marines IOT ensure they are safely handling ammunition.
Phase III	Marine injured by UXO	-Lack of situational awareness. -Marines attempting to handle UXO. -Marines navigating off of tank trails already laid out in the SOM.	I/C=2	-Ensure Marines are paying attention to their surroundings and that they know to inform their chain of command if they come across any UXO. -Ensure Marines understand not to touch or handle UXO.	I/D=3	-Safety brief conducted to ensure Marines maintain situational awareness so they don't disturb any UXO. -Marines briefed that they are not to handle UXO and that if they come across it, to inform their chain of command. -Marines briefed on SOM during operation order.	-RSO/OIC conduct a safety brief to remind Marines to maintain situational awareness and to never handle UXO themselves. -Section leaders supervise their section to ensure IOT ensure Marines don't disturb any UXO. -Crew chiefs supervise crews IOT ensure crews don't disturb any UXO.
Phase III, IV	Fire while refueling	-Leaking fuel cells. - Smoking while refueling.	I/C=2	-Fuel Cells are inspected by Vehicle commanders prior to refueling when vehicles are staged.	I/D=3	-Vehicle commanders are briefed on inspection procedures before refueling.	-Section leaders monitor refueling and ensure Vehicle commanders are inspecting their fuel cells.

ENCLOSURE (3)

				-Marines will not smoke within 50 m of the refueler.		-Fuel not given to vehicles until crew chief conducts inspection. -All Marines in the platoon briefed of the limitations on smoking.	-Section leaders and platoon leadership monitor refueling to ensure no Marines are smoking within 50 m. -Platoon sergeant will ensure all fire extinguishers are serviceable and located on the AAV per SOP.
All Phases	Loss of personnel or equipment	-Marines not maintaining their prescribed hourly comm checks. -Marines not properly briefed on their respective routes and road guard positions. -Lack of situational awareness.	I/C=2	-Enforce comm checks with all roadguard positions. -Each road guard position will redundant communications -Marines back brief RSO/OIC on locations of road guard positions before leaving.	I/D=3	-Route brief and ROC walks with all vehicles prior to leaving RAMP. -Conduct of proper accountability for personnel and gear before and after every movement, twice daily (morning and evening) with one of those checks being conducted by serial number. -Proper PCC/PCI conducted.	-OIC/RSO conduct daily serialized gear checks before and after each day of training. -Platoon sergeant will gain full accountability of all personnel before any platoon movement. -Section leaders inspect all gear and Marines within their section are accounted for at all times.
All phases	AAV/wheeled vehicle accident collision/ roll-over	-Speeding. -Driver Fatigue. -Passing of other units on roads. -Lack of visibility due to dust.	I/C=2	-Marines obey all posted speed limits. -Marines are given adequate rest time prior to operating AAV. -AAVs remain on right side of road and mind a safe distance from other vehicles while passing. -AAVs decrease speed to less than 15mph when passing through dust clouds.	I/D=3	-Vehicle commanders monitor driver speeds of no more than 25mph. -Vehicle commanders monitor rest period of drivers and remove overly fatigued drivers. -Drivers are briefed prior to leaving RAMP on procedures for passing other units on the road. -Drivers maintain distances of 100m or greater dispersion to avoid creating dust clouds. -Drivers are briefed on slowing down when driving through dust.	-Section leaders ensure section maintains proper speed limit. -Vehicle commanders back-brief section leaders on rest plan for crew. -Vehicle commanders verbally command drivers if they do not follow briefed techniques. -Vehicle commanders verbally command drivers if they do not decrease speed during brown out, and all vehicles will stop until dust settles and visibility is restored.
All Phases	Vehicle fire resulting in injuries	-Mechanical malfunctions which cause fire. -Fire bottles inoperable. -Smoking inside AAV.	I/C=2	-Vehicle commanders report any potentially dangerous problems to maintenance personnel. -Vehicle not utilized until mechanical issue is resolved. -Manual fire bottles on every AAV inspected and weighed by maintainers then annotated on fire bottle tags. -MFSS tested by maintainers. -Properly complete the pre-operational checklist. -Brief safety and evacuation SOPs.	I/D=3	-Vehicle commanders constantly monitor status of vehicles -Other vehicles utilized if vehicle becomes fire hazard. -Vehicle commanders check fire bottle tags prior to operation to ensure date is current. -Vehicle commanders verify MFSS is unobstructed by SL-3.	-Section leaders monitor maintenance issues and report to platoon sergeant -Platoon sergeant ensures all vehicles operating have no mechanical issues -Marines back brief section leaders on proper use and status of manual fire bottles. -Section leaders inspect sections to verify MFSS is unobstructed in all vehicles and fire bottles have current tags.
All Phases	Injuries on AAVs	-Marines injured by unsecured hatches, improperly stowed gear. -Burns. -Improper wearing of PPE.	II/C=3	-All hatches and gear are strapped down according to SOP. -All internal gear will be strapped down. -Hands avoid the rim of the hatch when opening/closing or unsecured. -FROG gear worn at all times. -Marines aware of burn treatment.	II/D=4	-Vehicle commanders supervise and inspect crew men properly strapping down hatches and equipment. -Vehicle commanders ensure proper PPE is worn at all times. -Corpsman briefs platoon on burn treatment.	-Section leaders inspect vehicles prior to conducting rehearsals for properly strapped hatches and equipment. -Section Leaders ensure proper PPE is worn at all times. -RSO ensures vehicle hatches secured, proper PPE utilized before AAV movement conducted.

ENCLOSURE (63)



All Phases	Weather exposure casualties	<ul style="list-style-type: none"> <li>-Marines not eating/drinking properly.</li> <li>-Excessive heat of vehicle when wearing PPE.</li> <li>-Failing to put on or take off warming layers</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all crew members to ensure they are eating and drinking enough water.</li> <li>-Warming layers will be removed by 0800.</li> <li>-Gear inspections before leaving will ensure Marines bring warming layers.</li> <li>-Each vehicle has (1) full 5 gallon water cooler and (2) designated water jugs.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-Marines briefed on importance of nutrition/hydration in the field.</li> <li>-Section leaders ensure adequate water on each vehicle prior to rehearsals.</li> <li>-Section leaders ensure Marines are wearing appropriate warming layers.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the platoon as a whole and ensures time is allotted during training for Marines to get chow and water.</li> <li>-Platoon sergeant ensures Marines are provided with food and water.</li> <li>-Corpsman observes Marines to ensure they are not becoming weather casualties.</li> <li>-Platoon commander monitors training to ensure AAV crewmen are given adequate rest time.</li> </ul>
All Phases	Wildlife Hazards	<ul style="list-style-type: none"> <li>-Marines harassing animals.</li> <li>-Lack of situational awareness</li> <li>-Not alerting the chain of command about wild life on range.</li> <li>-Not alerting corpsman to bug/wildlife allergies.</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-Brief animal considerations and their likely locations within the area.</li> <li>-Have a corpsman on hand.</li> <li>-Ensure Marines' allergies are known and prepared for.</li> <li>-Ensure proper medication is on hand.</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-During safety brief, brief not to touch, harass, or play with any wildlife and to keep your distance.</li> <li>-Ensure corpsman is aware of any existing allergies.</li> </ul>	<ul style="list-style-type: none"> <li>-RSO briefs wildlife concerns and safe practices.</li> <li>-Section leaders supervise to ensure any dangerous or endangered wildlife are reported.</li> <li>-Crew chiefs supervise to ensure any dangerous or endangered wildlife is reported.</li> </ul>
All phases	-Marines leaving the range with ammunition	<ul style="list-style-type: none"> <li>-Lack of situational awareness.</li> <li>-Marines/Vehicles not being inspected prior to departure from range.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Ensure Marines vehicles are inspected prior to departing the range via a line-out inspection.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Platoon leadership inspects vehicles and equipment via line-out inspection.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander supervises the conduct of a line-out inspection.</li> <li>-Platoon commander and platoon sergeant inspect one another's vehicles and gear.</li> <li>-Section Leaders inspect all vehicles and crews within their section.</li> </ul>
All Phases	Hazmat/Fuel Spill	<ul style="list-style-type: none"> <li>-Vehicle malfunction or while doing maintenance repairs.</li> <li>-Improper refueling technique.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Once hazmat spill or potential is discovered, Marines properly clean, report, and control the spill.</li> <li>-Adequate control materials are brought to field.</li> <li>-Marines utilize service station method of refueling.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all hazmat spills to ensure they are handled properly.</li> <li>-Hazmat procedures are briefed to the Marines prior to leaving the RAMP.</li> <li>-Hazmat rep ensures adequate materials are present on each vehicle prior to leaving field.</li> <li>-Vehicle commanders are briefed on refueling using the service station method prior to leaving RAMP.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon sergeant draws spill kit and disseminates to sections.</li> <li>-Platoon sergeant ensures Hazmat rep has provided adequate materials before leaving RAMP.</li> <li>-Section leaders inspect and supervise vehicle maintenance within section to ensure hazmat spills are properly contained and reported.</li> <li>-Section leaders supervise refueling to ensure proper techniques are utilized.</li> <li>-Crew chiefs inspect and supervise maintenance on assigned vehicle ensuring hazmat spills are properly contained and reported.</li> </ul>

ENCLOSURE (43)

HAZARD SEVERITY		RAC ASSESSMENT CODE MATRIX					COMMAND REVIEW/APPROVAL	
<b>I - CATASTROPHIC</b> - Death, permanent disability, major property damage <b>II - CRITICAL</b> - Permanent partial disability, major system or minor property damage <b>III - MARGINAL</b> - Minor injury, minor system or property damage <b>IV - NEGLIGABLE</b> - 1 <sup>st</sup> aid, minor system repair <b>MISHAP PROBABILITY</b> <b>A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY</b> <b>RISK ASSESSMENT CODE (RAC)</b> <b>1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL</b>		HAZARD SEVERITY	MISHAP PROBABILITY				OIC	(b)(3), (b)(6), (b)(7)(c)
	A		B	C	D	RSC		
I	1		1	2	3	RSC		
II	1		2	3	4	RSC		
III	2		3	4	5	XO/		
IV	3	4	5	5	S-3:	BC:		

ENCLOSURE (5)

<b>UNIT:</b> BLT 1/4, B CO, AAV PLT	<b>OPORD:</b> SECTION/PLT LEVEL AMPHIB OPS	<b>DTG:</b> 26-29 May 2020	<b>LOCATION:</b> CAMP PENDLETON, TA BLUE BEACH, BOAT BASIN
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**SUBJ:** AAV PLATOON AMPHIBIOUS OPERATIONS

<b>REF:</b>	(A) MAP: CAMP PENDLETON 1:50,000 AMES SERIES V795S, SHEET IV (B) MCTP 3-10C (EMPLOYMENT OF AMPHIBIOUS ASSAULT VEHICLES) (C) NAVMC 3500.2 (AAV TRAINING AND READINESS MANUAL) (D) MARINE CORPS ORDER 3570.1C RANGE SAFETY (E) MCIWEST- MARINE CORPS BASE CAMP PENDLETON ENVIRONMENTAL OPERATIONS MAP
<b>ENCL:</b>	(1) OPERATIONAL RISK MANAGEMENT WORKSHEET (2) CONFIRMATION BRIEF (3) LOGISTICAL REQUESTS

**TASK ORGANIZATION:** AAV PLATOON; FIRST SECTION, SECOND SECTION, THIRD SECTION, AND COMMAND SECTION.

1. **SITUATION:** AAV PLATOON HAS NOT CONDUCTED ANY WATER OPERATIONS WITH ALL KEY PERSONNEL PRESENT. THIS FIELD TRAINING EVOLUTION WILL PREPARE THE MARINES TO EMPLOY AMPHIBIOUS ASSAULT VEHICLES (AAV'S) AT THE SECTION AND PLATOON LEVEL DURING CHANGE OF OPERATIONAL POSTURE (CHOP) TO BATTALION LANDING TEAM 1/4 TO CONDUCT FUTURE AMPHIBIOUS OPERATIONS IN SUPPORT OF THE 15TH MARINE EXPEDITIONARY UNIT (MEU).

2. **MISSION:** FROM 26-29 MAY AAV PLATOON, BRAVO COMPANY EXECUTES AMPHIBIOUS OPERATIONS IN VICINITY OF BLUE BEACH IN ORDER TO ENHANCE PROFICIENCY OF SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS TO SUPPORT FUTURE EXERCISES AS PART OF BATTALION LANDING TEAM (BLT) 1/4.

3. **EXECUTION:**

A. **COMMANDER'S INTENT.**

(1) **PURPOSE.** TO INCREASE PROFICIENCY IN SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS DURING CHOP TO BATTALION LANDING TEAM 1/4 SO THE PLATOON CAN SUCCESSFULLY SUPPORT AMPHIBIOUS OPERATIONS AS PART OF THE 15TH MEU.

(2) **METHOD.** THIS TRAINING EXERCISE WILL BE ACCOMPLISHED USING THE CRAWL, WALK, RUN METHOD TO ENSURE EACH CREW IS TRAINED IN SECTION AND PLATOON LEVEL AMPHIBIOUS OPERATIONS AND PLATOON SOP'S ARE DEVELOPED. TRAINING WILL PROGRESS FROM CLASSROOM INSTRUCTION TO PRACTICAL APPLICATION, FOLLOWED BY CREW, SECTION, AND PLATOON LEVEL TRAINING. UTILIZING THE BLUE BEACH TRAINING AREA, SECTIONS WILL CONDUCT FORMATION DRIVING, TIME AND DISTANCE PLANNING, LOADING BOAT LANES, AND LANDING ON CENTER BEACH. ADDITIONALLY SECTIONS WILL CONDUCT IMMEDIATE ACTION DRILLS ON LAND SIMULTANEOUS TO OTHER SECTIONS CONDUCTING WATER OPERATIONS. SECTION LEVEL TRAINING WILL OCCUR DURING DAY AND NIGHT AND WILL BE FOLLOWED BY A PLATOON LEVEL EXERCISE TO INCLUDE FORMATIONS, SIMULATED DEBARKATION USING VARIOUS LAUNCH METHODS, AND LANDING AT CENTER BEACH ON TIME.

(3) **END STATE.** AAV PLATOON DEMONSTRATES PROFICIENCY AT CONDUCTING AMPHIBIOUS OPERATIONS AT THE SECTION AND PLATOON LEVEL ACCORDING TO ASSOCIATED T&R STANDARDS AND IS PREPARED FOR FUTURE AMPHIBIOUS OPERATIONS AS PART OF BLT 1/4.

B. **CONCEPT OF OPERATIONS.** THIS IS A FOUR PHASE OPERATION (PHASE I-IV). **PHASE I** WILL BE THE PREPARATION PHASE CONSISTING OF ALL NECESSARY VEHICLE, GEAR, AND PERSONNEL PREPARATIONS PRIOR TO DEPARTURE FOR THE RANGE AND LAND RECOVERY REHEARSALS. **PHASE II**

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							0510
							(63)

WILL CONSIST OF WATER RECOVERY SUSTAINMENT IN THE BOAT BASIN. **PHASE III** WILL BE DAY AND NIGHT SECTION AND PLATOON TRAINING ON BLUE BEACH WITH IMMEDIATE ACTION DRILLS ON LAND. **PHASE IV** WILL BE WILL CONSIST OF RETROGRADE AND POST OPERATIONS.

(1) **PHASE I: PREPARATION PHASE. 11-26 MAY.** PHASE I HAS ALREADY BEGUN WITH FIELD AND ADMINISTRATION PREPARATIONS TO CONDUCT AMPHIBIOUS OPERATIONS CURRENTLY IN ACTION. ADMINISTRATIVE PREPARATION CONSISTS OF CLASSROOM AND PRACTICAL APPLICATION ON AMPHIBIOUS RECOVERY DRILLS AND AMPHIBIOUS OPERATION PLANNING AT THE PLATOON AND SECTION LEVEL. FIELD PREPARATION WILL INCLUDE LAND REHEARSAL FOR RECOVERY AND EVACUATION PROCEDURES, WATER AND LAND PREOPERATION CHECKLISTS, WATER TIGHT INTEGRITY TESTS, JBCP TEST AND DAGR INSTRUCTION. ONCE BOTH ADMINISTRATIVE AND FIELD PREPARATIONS ARE COMPLETE, THE PLATOON WILL RECEIVE AN OPERATIONS ORDER ON 26 MAY. THIS PHASE ENDS WHEN THE PLATOON IS STAGED AND PREPARED TO CONDUCT RECOVERY TRAINING IN THE BOAT BASIN ON 26 MAY NO LATER THAN 0800.

(2) **PHASE II: BOAT BASIN RECOVERY TRAINING. 26-27 MAY.** THIS PHASE BEGINS WITH THE PLATOON DEPARTING FRIENDLY LINES TO CONDUCT RECOVERY SUSTAINMENT. THE PLATOON WILL RECEIVE A SAFETY BRIEF FROM THE RSO/OIC AND COMMUNICATION WILL BE ESTABLISHED AND MAINTAINED WITH BATTALION AND RANGE CONTROL. ONCE ALL PRECAUTIONS ARE IN PLACE ONE SECTION CONSISTING OF TWO VEHICLES WILL ENTER THE BOAT BASIN THROUGH THE EAST RAIN ROOM. IN ORDER, THEY WILL COMPLETE TWO LAPS AROUND THE BASIN FOLLOWED BY ONE (1) AFT AND ONE (1) BOW AMPHIBIOUS RECOVERY PER VEHICLE. ONCE EACH VEHICLE HAS CONDUCTED BOTH TYPES OF RECOVERIES THE SECTION WILL EXIT THROUGH THE EAST RAIN ROOM. WHILE THE FIRST SECTION CONDUCTS THEIR RECOVERIES THE TWO OTHER SECTIONS WILL OBSERVE THE SECTION TRAINING UNDER THE INSTRUCTION OF THEIR SECTION LEADER TO IDENTIFY ANY MISTAKES TO AVOID REPEATING THEM DURING THEIR EVOLUTION. ONCE EACH CREW HAS COMPLETED RECOVERY EXERCISES TO STANDARD, THE PLATOON WILL CONDUCT A MOVEMENT TO BLUE BEACH TRAINING AREA. THIS STAGE ENDS ONCE THE PLATOON HAS ESTABLISHED AN ASSEMBLY AREA (AA) AT TA BLUE BEACH.

(3) **PHASE III: EXECUTION PHASE, TA BLUE BEACH. 27-29 MAY.** THIS PHASE IS BROKEN DOWN INTO TWO STAGES. STAGE A IS SECTION DAY/ NIGHT AMPHIBIOUS OPERATIONS AND IMMEDIATE ACTION DRILLS. STAGE B IS PLATOON LEVEL AMPHIBIOUS OPERATIONS.

(A) **STAGE A. 27-28 MAY.** THIS STAGE BEGINS ONCE THE PLATOON HAS ESTABLISHED A AA AT BLUE BEACH ON 27 MAY. UPON REACHING BLUE BEACH POST OPERATION CHECKS WILL BE COMPLETED AND ALL VEHICLES WILL BE PREPARED FOR AMPHIBIOUS OPERATIONS. THE EXERCISE WILL BEGIN WITH SECTION LEVEL DAY DRIVING AND FORMATION SUSTAINMENT. EACH SECTION LEADER WILL CONDUCT FORMATION DRIVING, COMMAND AND CONTROL REHEARSALS, AND LOADING BOAT LANES USING THE BENT-L AND CROW'S FOOT METHOD. SECTION LEADERS WILL ALLOW FOR DRIVER'S AND REAR CREWMAN TO SUSTAIN THEIR AMPHIBIOUS DRIVING CAPABILITIES DURING THIS PERIOD OF THE TRAINING. AT 1500, DAY TRAINING WILL CEASE AND SECTION LEADERS WILL RECEIVE A FRAGMENTARY ORDER TO CONDUCT A SECTION LEVEL AMPHIBIOUS LANDING, SHORE-TO-SHORE MOVEMENT USING A GIVEN H-HOUR. EACH SECTION LEADER WILL CREATE A PLAN TO LAND AT CENTER BEACH THEN BRIEF THEIR SCHEME OF MANEUVER TO THEIR SECTION. SECTION LEVEL DRIVING AND FORMATION TRAINING WILL CONTINUE FOLLOWED BY SECTION LEADER BRIEFS AND EXECUTION OF THEIR PLAN. ONCE ALL THE SECTION LEADERS HAVE EXECUTED THEIR PLAN, ANOTHER REPETITION WILL BE CONDUCTED WITH ASSISTANT SECTION LEADERS LEADING THE MOVEMENT. AT THE CONCLUSION OF SECTION LEVEL DAY WATER OPERATION TRAINING THE SECTION LEADERS WILL TURN TO IMMEDIATE ACTION DRILLS UTILIZING BLUE TO CONDUCT REHEARSAL OF IED DRILLS, CASEVAC, AND TOW PROCEDURES. ONCE EACH SECTION LEADER HAS COMPLETED THEIR LAND PORTION OF REHEARSALS, THE PLATOON WILL TURN BACK TO PREPARATIONS FOR SECTION LEVEL AMPHIBIOUS NIGHT OPERATIONS. SECTION LEADERS AGAIN WILL EXECUTE THEIR PLANS TO LAND CENTER BEACH ON

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ENCLOSURE (63)

TIME AT NIGHT. THIS PHASE ENDS ONCE ALL SECTION LEVEL AMPHIBIOUS TRAINING HAS BEEN COMPLETED.

**(B) STAGE B. 28-29 MAY.** THIS STAGE BEGINS ON THE MORNING OF 28 MAY WHEN THE PLATOON WILL CONDUCT THEIR FIRST PLATOON LEVEL AMPHIBIOUS EXERCISE. AFTER RECEIVING A BRIEF THIS WILL START WITH PLATOON LEVEL FORMATION TRAINING, COMMAND AND CONTROL REHEARSALS, AND LOADING BOAT LANES USING THE BENT-L AND CROW'S FOOT METHOD. ONCE THE PLATOON HAS COMPLETED THESE TASKS AND GAINED PROFICIENCY IN LANDING ON TIME AT CENTER BEACH THEY WILL PREPARE FOR SECTION LEVEL LAND BASED TRAINING. THIS PART OF TRAINING WILL BE BROKEN DOWN INTO EACH SECTION CONDUCTING SHORT MOVEMENTS THROUGH BLUE BEACH WHERE DIFFERENT SITUATIONS WILL BE PAINTED OVER THE NET TO INCLUDE IMPROVISED EXPLOSIVE DEVICE (IED) DRILLS, CASEVAC, VEHICLE RECOVERY, AND DANGER CROSSING AREAS. THE PLATOON COMMANDER AND PLATOON SERGEANT WILL RUN EACH SECTION THROUGH THESE SCENARIOS TO PREPARE FOR PLATOON LEVEL LAND TRAINING. ONCE THE PLATOON COMPLETES THE NIGHT PORTION OF TRAINING THEY WILL GO INTO A BIVOUAC STATUS. SHOULD THE PLATOON NEED REMEDIATION OR EXTRA TRAINING TIME DUE TO AN UNSAFE SEA STATE THE TRAINING AREA WILL STILL BE AVAILABLE UNTIL 29 MAY 2359. THIS PHASE WILL END ONCE THE PLATOON IS PREPARED TO REGRADE BACK TO 3D AABN FOR POST OPERATIONS.

**(4) PHASE IV: RETROGRADE/ POST-OPERATIONS PHASE. 29 MAY** THIS PHASE BEGINS WITH CLEARANCE FROM RANGE CONTROL TO BEGIN RETROGRADE FROM BLUE BEACH TO 3D AABN RAMP. THE PLATOON WILL TRAVEL IN A TACTICAL COLUMN ALONG THE COASTLINE BACK TO THE RAMP. ONCE ON THE RAMP, VEHICLE WASH DOWNS WILL OCCUR, ALL WEAPONS AND SERIALIZED GEAR WILL BE CLEANED AND TURNED IN, AND AFTER ACTIONS WILL BE COMPLETED. THIS PHASE ENDS ONCE THE FINAL SIGHT COUNT IS COMPLETED.

#### C. TASKS

<b>OIC</b>	<p>T1: ENSURE YOU HAVE PRIOR APPROVAL OF ALL TRAINING IN THE T.A.</p> <p>P2: IOT MAINTAIN POSITIVE CONTROL OF ALL TRAINING, AS YOU ARE DIRECTLY RESPONSIBLE FOR EVERYTHING THAT TAKES PLACE.</p> <p>T2: ENSURE PROPER SURF OBSERVATION REPORTS ARE CONDUCTED.</p> <p>P2: IOT ENSURE SAFE AMPHIBIOUS OPERATIONS TRAINING FOR THE PLATOON.</p>
<b>RSO</b>	<p>T1: ENSURE SAFE CONDUCT OF TRAINING THROUGH DILIGENT AND INTRUSIVE OVERWATCH OF ANYTHING RELATED TO SAFETY.</p> <p>P1: IOT PREVENT ANY UNSAFE ACTIONS FROM TAKING PLACE.</p> <p>T2: COMMUNICATE WITH 3D AABN AND RANGE CONTROL.</p> <p>P2: IOT ENSURE TRAINING IS CONDUCTED SAFELY IN ACCORDANCE WITH SOPS.</p>
<b>PLATOON SERGEANT</b>	<p>T1: COORDINATE WITH ALL LOGISTICAL AND OPERATIONS SOURCES.</p> <p>P1: IOT ENSURE ALL REQUIREMENTS TO CONDUCT THIS RANGE ARE IN PLACE TO INCLUDE BUT NOT LIMITED TO, CHOW, WATER, FUEL, COMMUNICATION ASSETS, SAFETY VEHICLES AND RE-SUPPLY, PYROTECHNICS, AND MAINTENANCE CONTACT TEAM.</p> <p>T2: ENSURE ALL PRE AND POST-OP CHECKS ARE CONDUCTED ACCORDING TO SOP.</p> <p>P2: IOT SET CONDITIONS FOR SAFE WATER AND LAND OPERATIONS.</p> <p>T3: CREATE AN EQUIPMENT DENSITY LIST OF ALL THE PLATOON SERIALIZED GEAR.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF ALL SERIALIZED GEAR FOR THE DURATION OF THE EXERCISE.</p> <p>T4: SUPERVISE ALL MAINTENANCE, RECOVERY, AND CASUALTY EVACUATION.</p> <p>P4: IOT ENSURE COMPLIANCE WITH APPROPRIATE PROCEDURES.</p>

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UNCLASSIFIED (S)

<b>SECTION LEADERS</b>	<p>T1: CONDUCT GEAR INSPECTION NLT 22 MAY.</p> <p>P1: IOT CONFIRM GEAR ACCOUNTABILITY AND UNIFORMITY.</p> <p>T2: CONDUCT LAND REHEARSALS FOR RECOVERY OPERATIONS NLT 22 MAY.</p> <p>T2: IOT SUSTAIN RECOVERY OPERATIONS AND PROCEDURES PRIOR TO GOING FEET WET.</p> <p>T3: INFORM PLATOON SERGEANT OF ALL MAINTENANCE AND READINESS ISSUES.</p> <p>P3: IOT MAINTAIN ACCOUNTABILITY OF VEHICLES AND PERSONNEL.</p> <p>T4: UPON ARRIVAL AT BLUE BEACH, BPT TO BRIEF A FRAGMENTARY ORDER AND LEAD A SECTION LEVEL AMPHIBIOUS ASSAULT.</p> <p>P4: IOT INCREASE PROFICIENCY IN SECTION LEVEL AMPHIBIOUS OPERATIONS.</p> <p>T5: UPON RETURN TO 3D AABN RAMP SUPERVISE AND CONDUCT POST OPERATIONS AND REPORT ANY DISCREPANCIES TO MAINTENANCE.</p> <p>P5: IOT ENABLE RAPID REPAIR OF VEHICLES FOR UPCOMING JOINT LIMITED TECHNICAL INSPECTIONS DURING CHOP TO BATTALION LANDING TEAM 1/4.</p>
<b>CORPSMAN</b>	<p>T1: INVENTORY MEDICAL SUPPLIES THAT ARE BEING BROUGHT TO THE FIELD.</p> <p>P1: IOT ENSURE THAT THE EQUIPMENT ALLOWS PROPER AID FOR ALL POTENTIAL INJURIES AT WHITE BEACH.</p> <p>T2: PLAN GROUND MEDEVAC ROUTES FROM TO HIGHER ECHELON OF MEDICAL CARE.</p> <p>P2: IOT ELIMINATE WASTED TIME IN TRANSPORTING CASUALTY TO MEDICAL CARE.</p>
<b>COMM CHIEF</b>	<p>T1: NLT 22 MAY ENSURE ALL VEHICLE'S COMMUNICATION EQUIPMENT HAS BEEN INSPECTED, EVALUATED, AND ARE OPERATIONAL.</p> <p>P1: IOT FACILITATE COMMUNICATIONS DURING TRAINING THROUGHOUT TRAINING EXERCISE.</p> <p>T2: NLT 22 MAY SUPERVISE THE PREPARATION AND OPERATION OF PLATOON COMMUNICATION ASSETS.</p> <p>P2: IOT ENSURE PROPER LOADING OF CRYPTOGRAPHIC INFORMATION ENSURING ALL COMMUNICATION SECURITY PROCEDURES ARE BEING FOLLOWED.</p> <p>T3: ENSURE EACH AAV CAN ESTABLISH COMMUNICATIONS WITH THE OIC AND RSO.</p> <p>P3: IOT ENSURE THE SAFE CONDUCT AND EXECUTION OF THIS EXERCISE.</p> <p>T4: ESTABLISH COMMUNICATIONS WITH BATTALION.</p> <p>P4: IOT SEND SITUATIONAL REPORTS AND LOGISTICAL REQUESTS AS REQUIRED.</p>
<b>MAIN CHIEF</b>	<p>T1: ENSURE ALL VEHICLES ARE PROPERLY PREPARED FOR FIELD TRAINING TO INCLUDE ANNOTATION AND RECONCILIATION OF ALL DISCREPANCIES.</p> <p>P1: IOT ENSURE VEHICLES ARE READY FOR CONDUCT OF AMPHIBIOUS OPERATIONS.</p> <p>T2: ASSEMBLE AND MAINTAIN A DSI FOR THE EXERCISE.</p> <p>P2: IOT ENSURE MAINTENANCE CAN BE CONDUCTED IN THE FIELD TO COMPLETE THIS TRAINING EXERCISE.</p>

**D. COORDINATING INSTRUCTIONS**

(1) REQUIRED FACILITIES. BOAT BASIN, BLUE BEACH TA

(2) OIC.

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

(3) RSO.

(4) TIMELINE. 26-29 MAY 2020

**26-27 MAY**

0500 MARINES ARRIVE AT RAMP/ PERSONAL GEAR LOADED

0600 ARMORY DRAW

0700 COMM LOADED, PRE-OPERATIONAL CHECKS VERIFIED

0730 PLATOON BRIEFED ON BOAT BASIN OPERATION AND MOVEMENT TO TAA WB

0800 FIRST SECTION FEET WET IN BOAT BASIN

0900 SECOND SECTION FEET WET IN BOAT BASIN

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**ENCLOSURE (65)**

1000 THIRD SECTION FEET WET IN BOAT BASIN  
 1100 COMMAND SECTION FEET WET IN BOAT BASIN  
 1300 REMEDIATION  
 1600 PLATOON ARRIVES AT BLUE BEACH, SUROB CONDUCTED  
 1800 SECTION LEVEL DRIVER SUSTAINMENT/ FORMATION DRIVING  
 2000 ALL VEHICLES FEET DRY/ POST OPERATIONS/ SECTION LEADERS FRAGGED  
 2200 BIVOUAC

**28 MAY**

0600 REVEILLE  
 0700 PRE-OPERATIONS COMPLETED VERIFIED/ COMMUNICATIONS CHECK/ SUROB  
 0800 PLATOON ARRIVES AT BLUE BEACH, SUROB CONDUCTED  
 0830 SECTION LEVEL DRIVER SUSTAINMENT/ FORMATION DRIVING  
 0900 FIRST SECTION BRIEF SCHEME OF MANEUVER  
 1000 FIRST SECTION FEET WET  
 1030 SECOND SECTION BRIEF SCHEME OF MANEUVER  
 1130 SECOND SECTION FEET WET  
 1200 THIRD SECTION SCHEME OF MANEUVER  
 1230 THIRD SECTION FEET WET (WITH COMMAND SECTION)  
 1300 ALL VEHICLES FEET DRY/ POST OPERATIONS/ SECTION LEADERS FRAGGED  
 1330 ASSISTANT SECTION LEADERS BRIEF AND EXECUTE AMPHIBIOUS OPERATION  
 1600 ASSISTANT SECTION LEADERS COMPLETE AMPHIBIOUS OPERATION  
 1630 SECTION LEVEL REHEARSALS OF IMMEDIATE ACTION DRILLS  
 1800 PREPARATION FOR SECTION LEVEL NIGHT EXERCISE  
 2000 FIRST SECTION FEET WET  
 2045 SECOND SECTION FEET WET  
 2130 THIRD SECTION FEET WET  
 2300 BIVOUAC

**29 MAY**

0600 REVEILLE  
 0700 PRE-OPERATIONS FOR WATER OPS  
 0800 PLATOON LEVEL FORMATION DRIVING AND LANDING  
 0900 PREPARE VEHICLES FOR IMMEDIATE ACTION DRILLS  
 1000 SECTION IED IMMEDIATE ACTION WITH CASEVAC AND TOW  
 1030 SECTION IED IMMEDIATE ACTION WITH CASEVAC AND TOW  
 1100 SECTION IED IMMEDIATE ACTION WITH CASEVAC AND TOW  
 1200 PREPARATION FOR PLATOON SPLASH  
 1400 PLATOON EXERCISE COMPLETE  
 1500 RETROGRADE TO 3D AABN

**(5) TACTICAL CONTROL MEASURES (TCMS)/ POINTS OF INTEREST**

TCM (PRIMARY NUMBERED, ALTERNATE LETTER)	LOCATION
LOD (3D AABN RAMP)	11S MS 6280 7560
CP 2	11S MS
BLUE BEACH AA	11S MS 6106 7717

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ENCLOSURE (2)

POINTS OF INTEREST	LOCATION
AXP-1 (END OF RUNWAY)	11S MS 6260 7570
21 AREA BAS	11S MS 6300 7600
41 AREA BAS	11S MS 5928 8293
43 AREA BAS	11S MS 6190 8980
LZ #1 (HELO PAD)	11S MS 5743 8323
NAVAL HOSPITAL	11S MS 6360 7610

(6) RATE(S) OF MARCH AND DISPERSION. 20 MPH IN TRAINING AREAS WITH 50-75 METER DISPERSION. IN LOW LIGHT CONDITIONS, 15 MPH AND 50-75 METER DISPERSION. 5 MPH IN CONGESTED AREAS WHILE UTILIZING GROUND GUIDES. THE ROUTE FROM THE 3D AABN RAMP TO THE BLUE BEACH TA IS APPROXIMATELY 3 KM. DURING THE MOVEMENT THE PLATOON WILL TRAVEL IN A COLUMN STAYING IN THE HIGH WATER MARK IN ACCORDANCE WITH ENVIRONMENTAL CONSIDERATIONS. THE ENTIRE MOVEMENT WILL TAKE 20 MINUTES WITH A CROSSING OF THE MARGARITA IVO GRID 11S MS 6127 7696.

(7) NO COMMUNICATION PLAN

A. PHASE I. NOT APPLICABLE

B. PHASE II/IV MOVEMENT TO AND FROM BLUE BEACH TA. IF COMMUNICATION IS LOST DURING THE PLATOON MOVEMENT THEY WILL UTILIZE HAND AND ARM SIGNALS OR A MESSENGER. THE VEHICLE WILL CONTINUE TO TRY TO RE-ESTABLISH COMMUNICATION DURING THE MOVEMENT. WHILE IN A PLATOON COLUMN, THE PLATOON WILL CONTINUE TO MOVE AS LONG AS THE FIRST AND LAST VEHICLE HAVE COMMUNICATIONS WITH THE PLATOON COMMANDER OR PLATOON SERGEANT. IF COMMUNICATION LOST BETWEEN THESE THREE VEHICLES THE PLATOON WILL HALT FOR NO LONGER THAN 10 MINUTES AND RE-ESTABLISH COMM. IF IT CANNOT BE RE-ESTABLISHED THEN THE PLATOON WILL CONTINUE THEIR MOVEMENT WITH THE 1ST SECTION LEADER TAKING TACTICAL CONTROL WHILE THE PLATOON COMMANDER TRIES TO RE-ESTABLISH COMM WHILE MOVING. RANGE FLAG WILL BE UTILIZED TO PASS THE COMMUNICATION STATUS OF THE VEHICLE TO THOSE AROUND IT. GREEN WILL MEAN "HEAR BUT CANNOT SPEAK", YELLOW WILL MEAN "CANNOT HEAR OR SPEAK" AND RED MEANS EMERGENCY IN THE VEHICLE AND NEED ASSISTANCE. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE, TRAINING WILL CEASE AND COMMUNICATION WILL BE RE-ESTABLISHED.

C. PHASE III EXECUTION OF AMPHIBIOUS OPERATIONS. THE AAVC7 WILL BE UTILIZED AS THE COMMAND CENTER FOR THE PLATOON TO TRANSMIT TO AND FROM BATTALION. IF COMMUNICATION GOES DOWN SECTION INTERNAL THEY WILL UTILIZE HAND AND ARM SIGNALS AS WELL AS THE RANGE FLAG SYSTEM AS PREVIOUSLY MENTIONED IN PHASES II/IV. EMERGENCY SIGNAL WILL BE IN ACCORDANCE WITH AMPHIBIOUS OPERATIONS STANDARD OPERATING PROCEDURES UTILIZING THE NOVEMBER FLAG, SPOTLIGHT AND WHITE AND RED STAR CLUSTERS. DURING NIGHT TIME EVOLUTION CHEMSTICKS WILL BE USED IN ACCORDANCE WITH THE RANGE FLAGS. IR CHEMSTICKS WILL BE USED IF NECESSARY FOR HAND AND ARM SIGNAL COMMUNICATION WHILE CONDUCTING WATERBORNE OPERATIONS. AS A CONTINGENCY PLAN IN CASE OF AN EMERGENCY THE SECTION LEADER WILL HAVE BLACK GEAR IN CASE OF A CATASTROPHIC COMMUNICATION FAILURE SO THEY CAN STILL COMMUNICATE WITH THE RSO AND OIC. IF AT ANYTIME THE PLATOON LOSES COMMUNICATIONS WITH LONGRIFLE TRAINING WILL CEASE AND COMMUNICATION WILL BE REESTABLISHED.

(8) LOST MARINE PLAN. IF A MARINE HAS BEEN IDENTIFIED AS MISSING, ALL

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ENCLOSURE (63)



MOVEMENT AND TRAINING WILL CEASE AND THE PLATOON WILL GAIN ACCOUNTABILITY OF ALL PERSONNEL AND EQUIPMENT BEFORE BACKTRACKING THE PREVIOUS ROUTE UNTIL THE MARINE IS FOUND. ACCOUNTABILITY WILL BE MAINTAINED BY CONDUCTING CHECKS BEFORE AND AFTER ANY MOVEMENT. ALL MARINES WILL INFORM THEIR CHAIN OF COMMAND WHEN THEY LEAVE THE IMMEDIATE AREA OF THE PLATOON. THEY WILL TRAVEL IN PAIRS AND NEVER MOVE MORE THAN 50M AWAY FROM THE PLATOON. ALL MARINES WILL CARRY A WATER SOURCE WHEN STEPPING AWAY FROM THE VEHICLE. WHILE MOVING TO AND FROM THE RANGE. DURING PHASE II AND IV, IF A MARINE BECOMES LOST THEY WILL REMAIN IN PLACE FOR 2 HOURS AND THEN BACKTRACK SOUTH VIA THE COASTLINE TO 3D AABN. ON RETURN TO 3D AABN THEY WILL CONTACT THE PLATOON COMMANDER OR PLATOON SERGEANT VIA THE OOD.

(9) GO/NO GO CRITERIA

- A. CORPSMAN PRESENT AND PREPARED FOR CONDUCT OF EXERCISE.
- B. MAINTAIN POSITIVE COMMUNICATIONS WITH LONG RIFLE.
- C. SEA STATE GREATER THAN 3.
- D. LESS THAN SIX AAVP7'S OPERATIONAL.

(10) ORDER OF MARCH. VEHICLES WILL MOVE SECTION ORDER NUMERICALLY 1ST SECTION, 2ND SECTION, 3RD SECTION, COMMUNICATION SECTION. ONCE SECTION OPERATIONS TAKE PLACE, IT IS SECTION LEADER DISCRETION TO ACCOMPLISH THE MISSION.

(12) LAUNCHING AND RETURNING. THE SPLASH TEAM WILL ENSURE THAT THE MOST RECENTLY LAUNCHED VEHICLE IS AT LEAST 50 YARDS AWAY FROM THE LAUNCH POINT BEFORE LAUNCHING SUCCESSIVE VEHICLES. THE MARINES LAUNCHING SUCCESSIVE VEHICLES AS PART OF THE SPLASH TEAM WILL UTILIZE RED AND GREEN FLAGS TO SIGNAL WHEN AN AAV IS CLEARED/ NOT CLEARED TO LAUNCH. THE PLATOON SERGEANT WILL BE IN CHARGE OF THE SPLASH TEAM. THE 1ST SECTION LEADER WILL TAKE CHARGE OF THE SPLASH TEAM SHOULD THE PLATOON SERGEANT BE UNAVAILABLE.

(13) VEHICLE RECOVERY PLAN.

A. LAND. 10 MINUTES TO TROUBLESHOOT AND 20 MINUTES TO FIX. PLATOON SERGEANT IS THE PRIMARY RECOVERY TEAM. 3RD SECTION, OR LEAST ENGAGED SECTION IS THE ALTERNATE RECOVERY TEAM. DURING **PHASE II** IF A VEHICLE IS UNABLE TO LEAVE THE RAMP IT WILL BE SECURED WITH ALL WEAPONS AND EDL TRANSFERRED TO THE PLATOON SERGEANT'S VEHICLE. ON THE MOVEMENT IF A VEHICLE NEEDS TO BE TOWED THE PLATOON SERGEANT WILL REMAIN PRIMARY TOW VEHICLE WHILE THE REMAINDER OF THE PLATOON FORMS A DEFENSIVE POSTURE TO RECOVER THE DOWNED VEHICLE. IF THE PLATOON SERGEANT VEHICLE NEEDS TO BE RECOVERED, A DEFENSIVE POSTURE WILL BE FORMED TO RECOVER DOWNED VEHICLE BY 3RD SECTION. ALL EFFORTS WILL BE MADE TO REPAIR VEHICLES IN THE FIELD AND MOVE THEM TO THE TAA.

B. WATER. DURING WATER OPERATIONS THE PRIMARY RECOVERY VEHICLE WILL BE SECTION INTERNAL WITH THE ASSISTANT SECTION LEADER BEING THE PRIMARY TOW VEHICLE. TWO ADDITIONAL VEHICLES WILL BE ON STANDBY SHOULD A VEHICLE NEEDED TO BE TOWED. THE PRIMARY TO TOW METHOD WILL BE AFT TO AFT.

(14) BUMP PLAN. VEHICLE CREW AND EMBARKED PERSONNEL FROM THE DISABLED VEHICLE WILL BUMP TO THE SECTION LEADER'S VEHICLE. IF PLATOON SERGEANT'S VEHICLE IS THE DOWNED VEHICLE, CREW AND EMBARKED PERSONNEL WILL BUMP TO VEHICLE 3-15-11, 3-15-7, 3-15-3.

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ENCLOSURE (45)

(15) UNIFORM AND GEAR. ALL HANDS WILL WEAR FIRE RESISTANT ORGANIZATION GEAR (FROG), APPROPRIATE PPE, AND LPU'S DURING AMPHIBIOUS TRAINING.

(16) PPE. PPE WILL BE WORN AT ALL TIMES WHILE CONDUCTING TRAINING. PPE CONSISTS OF KEVLAR/ FROG, EYE PRO, EAR PRO, GLOVES, PLATE CARRIERS. IFAK'S WILL BE WORN OR IN THE MARINES STATION AT ALL TIMES. GAS MASK WILL BE ACCESSIBLE TO BE DONNED AT ANY POINT BY THE MARINE DURING THE EXERCISE.

(18) MARKING PLAN

(B) PERSONNEL MARKING PLAN. THE OIC, RSO, AND CORPSMAN WILL BE MARKED WITH A WHITE CHEMSTICK DURING ALL SECTION LEVEL NIGHT TRAINING EVOLUTIONS.

(C) VEHICLE MARKING PLAN. FOR NIGHT TRAINING AS A SAFETY MEASURE EACH VEHICLE WILL BE MARKED WITH ONE YELLOW CHEMSTICK ON THE STARBOARD ANTENNA. THE PLATOON COMMANDER WILL HAVE TWO YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA AND THE PLATOON SERGEANT WILL HAVE THREE YELLOW CHEMSTICKS ON THE STARBOARD ANTENNA.

(19) SAFETY DRIVERS AND CORPSMAN. THE SAFETY DRIVER AND CORPSMAN WILL BE LOCATED AT BLUE BEACH. SAFETY DRIVERS WILL BE WILL BE REQUIRED TO BACK-BRIEF THE RSO THE ROUTE TO THE NAVAL HOSPITAL IN CASE OF AN EMERGENCY. IN ADDITION TO A BACK-BRIEF, THE RSO WILL PASS SPECIFIC GUIDANCE THAT THE SAFETY DRIVER IS NO MORE THAN AN ARMS-REACH AWAY FROM THE VEHICLE, THE BACK OF HIS VEHICLE IS KEPT CLEAR OF EQUIPMENT AND DEBRIS, AND THAT HE KEEP HIS PPE STAGED ON THE VEHICLE.

4. ADMINISTRATION AND LOGISTICS

A. ADMINISTRATION

(1) PERSONNEL COUNT (MO/ME/NO/NE). 1/57/0/1 TOTAL 59

(2) VEHICLE COUNT (BY TYPE AND QTY). (12) AAVP7S, (1) AAVC7, (1) AAVR7

(3) ASTRONOMICAL DATA

DATE	SUNRISE	SUNSET	ILLUMINATION
26 MAY	05:50	19:40	9.1%
27 MAY	05:50	19:35	17.1%
28 MAY	05:50	19:33	36.9%
29 MAY	05:50	19:32	47.4%

(4) SURF FORECAST

DATE	WAVE HEIGHT	WIND	HIGH TIDE	LOW TIDE
*CURRENT	PREDICTED	CONDITIONS		
26 MAY	.3 FT SSW	5-15 MPH SSW	12:35/ 23:41	17:50
27 MAY	.3 FT SSW	5-10 MPH SSW	13:10/ 00:21	06:32/ 18:41
28 MAY	.4 FT SSW	5-15 MPH SSW	13:49	07:02/ 19:48
29 MAY	.5 FT SSW	10-15 MPH SSW	01:13/ 14:35	07:36/ 21:15
26 MAY	.7 FT SSW	10-15 MPH SSW	02:35/ 15:29	09:24

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

ENCLOSURE (6)

(5) WEATHER FORECAST

DATE	HIGH	LOW	WEATHER
26 MAY	69	60	CLEAR/ DRY
27 MAY	71	60	CLEAR/ DRY
28 MAY	73	60	CLEAR/ DRY
29 MAY	69	58	CLEAR/ DRY
26 MAY	68	55	CLEAR/ DRY

(4) CASUALTY EVACUATION (CASEVAC) PLAN. IN THE EVENT OF A CASUALTY ALL TRAINING WILL CEASE AND LONGRIFLE WILL IMMEDIATELY BE NOTIFIED WHILE THE CASUALTY IS EVALUATED BY THE CORPSMAN. COMMUNICATION WILL TAKE PLACE USING A NATO 9-LINE AND WILL BE MADE BY THE OIC, RSO, OR CORPSMAN. DAYTIME LZ FOR AIR CASEVAC WILL BE MARKED BY A TACTICAL VEHICLE WITH AIR PANEL AND NIGHT TIME WILL BE WITH USING A CHEMSTICK BUZZSAW OR LZ MARKING PUCK. THE PRIMARY MEANS WILL BE AAV TO 3D AABN RAMP, AMBULANCE or POV TO 21 AREA BAS OR NAVAL HOSPITAL.

(A) URGENT AND PRIORITY CASUALTIES. IN THE EVENT OF AN URGENT OR PRIORITY CASUALTY THE CORPSMAN WILL PROVIDE INITIAL EVALUATION AND TREATMENT OF THE INJURED MARINE. LONGRIFLE WILL BE CONTACTED IMMEDIATELY. IN THE CASE OF A GROUND MEDEVAC THE INJURED MARINE WILL BE TRANSPORTED VIA SAFETY VEHICLE TO A HIGHER ECHELON OF MEDICAL CARE. DEPENDING ON THEIR INJURY THEY WILL BE TRANSPORTED TO 3D AABN RAMP. IF AN AMBULANCE TRANSFER IS NOT NECESSARY THEY WILL BE TRANSPORTED TO 21 AREA BAS OR THE NAVAL HOSPITAL VIA THE SAFETY VEHICLE.

(B) ROUTINE CASUALTIES. IF A ROUTINE CASUALTY OCCURS IN ANY OF THE TRAINING AREAS TRAINING WILL CEASE AND LONGRIFLE WILL BE NOTIFIED. THE CORPSMAN WILL PROVIDE INITIAL ASSESSMENT AND TREATMENT. BASED ON THE RECOMMENDATION OF THE CORPSMAN AND THE SEVERITY OF THE INJURY THE OIC/ RSO WILL DETERMINE IF THE MARINE WILL REMAIN IN THE FIELD OR NEEDS TO BE TRANSPORTED BACK TO THE 21 AREA BAS.

(5) TRAINING AND READINESS EVENTS

AAV-AMPH-3002	EMPLOY AAV AFLOAT
AAV-AMPH-4001	CONDUCT WATERBORNE OPERATIONS
AAV-CSS-4001	CONDUCT RECOVERY OPERATIONS
AAV-AMPH-4003	RECOVER DISABLED AAV IN WATER
AAV-AMPH-3002	EMPLOY AAV AFLOAT
AAV-AMPH-3003	CONDUCT VEHICLE EMERGENCY PROCEDURES AFLOAT

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1833-AMPH-2003	CONTROL UNIT MANEUVER AFLOAT
1833-AMPH-2004	CONDUCT SHORE-TO-SHORE OPERATIONS

**B. LOGISTICS**

**(1) AMMO.**

AMMUNITION	DODIC	QUANTITY
SIGNAL, ILLUM STAR WHIT	L172	14
SIGNAL, ILLUM STAR RED	L170	14

**(2) FOOD, WATER, REFUEL.** THE PLATOON WILL HAVE 74 CASES OF MRE'S TO SUSTAIN THE ENTIRETY OF THE TRAINING EXERCISE. EACH AAV WILL CARRY 15 GALLONS OF WATER FOR THE ENTIRETY OF THE TRAINING.

**(3) RECOVERY ASSETS.** THE PLATOON WILL HAVE (10) TOW BARS. THE PLATOON SERGEANT'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE PLATOON. THE ASSISTANT SECTION LEADER'S VEHICLE WILL BE THE PRIMARY RECOVERY TEAM WITHIN THE SECTION. DURING AMPHIBIOUS OPERATIONS TOW ROPES WILL BE UTILIZED TO RECOVER VEHICLES.

**5. COMMAND AND SIGNAL:**

**A. COMMAND**

**(1) POINTS OF CONTACT.** PLATOON COMMANDER (b)(3), (b)(6), (b)(7)(c)  
PLATOON SERGEANT (b)(3), (b)(6), (b)(7)(c)

**(2) LOCATION OF KEY LEADERS.** OIC WILL BE LOCATED IN VEHICLE 3-15-04. PLATOON SERGEANT WILL BE IN VEHICLE 3-15-12 WITH THE CORPSMAN DURING MOVEMENTS.

**B. SIGNAL.**

DESCRIPTION	PRIMARY	ALTERNATE	CONTINGENCY
AAV DISABLED	VHF	NOVEMBER FLAG RAISED	WHITE STAR CLUSTER
AAV SINKING	VHF	NOVEMBER FLAG WAVED	RED STAR CLUSTER

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

ENCLOSURE (7)

	PRIMARY	ALTERNATE	CONTINGENCY	EMERGENCY
RANGE CONTROL - "LONGRIFLE"				KEY LEADER CELL PHONE
PLATOON		(b)(2)	BLACK GEAR	KEY LEADER CELL PHONE
BATTALION			JBC-P	
OFFICIAL		COMMANDING		
(b)(3), (b)(6), (b)(7)(c)				

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

TE  
200526-20200527

UNIT  
AAV Platoon, Company B,  
Battalion Landing Team 1/4

RANGE/Ta.  
TA-Del Mar Boat Basin

TRAINING TO BE  
CONDUCTED  
Amphibious  
Training

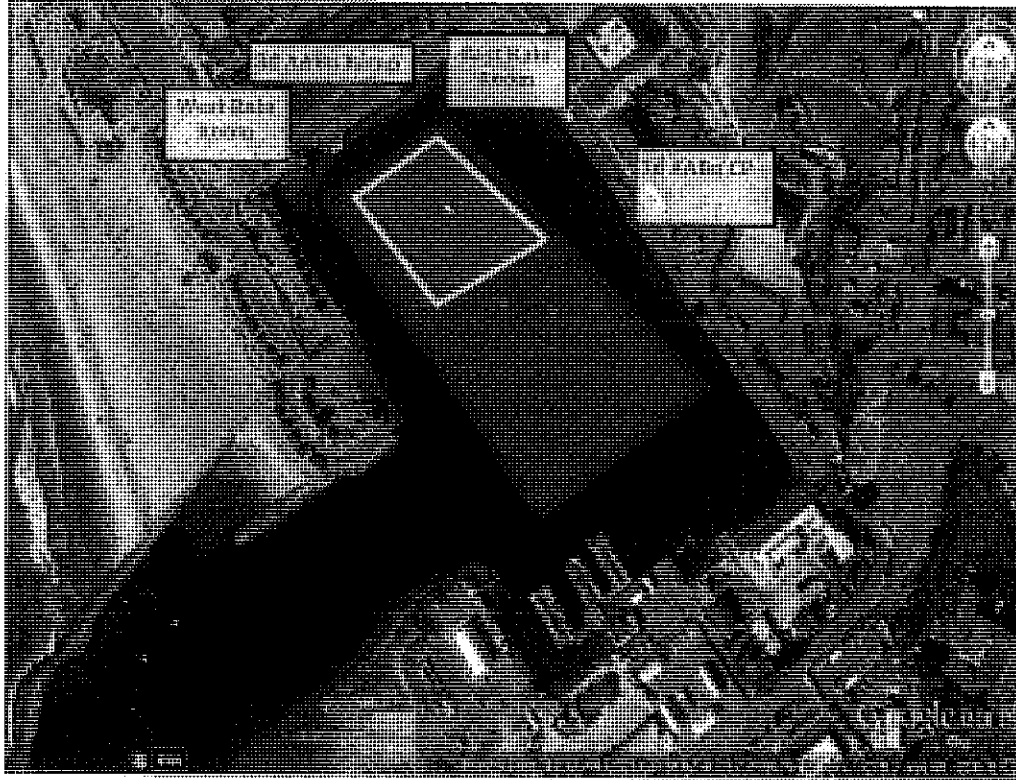
IC

RSO

PERSONNEL  
1 MO 57 ME  
1 NE

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

On 26/27 May the AAV Platoon executes amphibious operations in the Boat Basin in order to enhance proficiency of crew level driving and recovery procedures, as well prepare the vehicles to support future amphibious training.



TIMELINE

26/27 MAY  
0500 MARINES ARRIVE AT RAMP/  
PERSONAL GEAR LOADED  
0600 ARMORY DRAW  
0700 COMM LOADED, PRE-  
OPERATIONAL CHECKS VERIFIED  
0730 PLATOON BRIEFED ON BOAT  
BASIN OPERATION AND MOVEMENT  
TO TAA WB  
0800 FIRST SECTION FEET WET  
IN BOAT BASIN  
0900 SECOND SECTION FEET WET  
IN BOAT BASIN  
1000 THIRD SECTION FEET WET  
IN BOAT BASIN  
1100 COMMAND SECTION FEET WET  
IN BOAT BASIN  
1300 REMEDIATION  
1600 PLATOON ARRIVES AT BLUE  
BEACH, SURCB CONDUCTED  
1800 SECTION LEVEL DRIVER  
SUSTAINMENT/ FORMATION  
DRIVING  
2000 ALL VEHICLES FEET DRY/  
POST OPERATIONS/ SECTION  
LEADERS FRAGGED  
2200 BIVOUAC

Evaluator/ A.I. Requirements

Plt Cmdr/Plt Sgt/Section Leaders will evaluate crew splashes and recoveries.

TRANSPORT  
N/A

LOGISTICS  
(5) DOS  
chow/water  
provided by  
B CO

UNIFORM  
Frog Gear with  
boonie cover, PPE  
Level 1 (plate  
carrier w/  
front/rear SAPIs,  
Kevlar,  
eyepro/earpro)

COMMUNICATION PLAN

AAVs will utilized VHF as primary, with PRC-117 and 150 as secondary for the exercise Comms w/ Longrifle via AAV or PRC-117/150 (SC/PT).

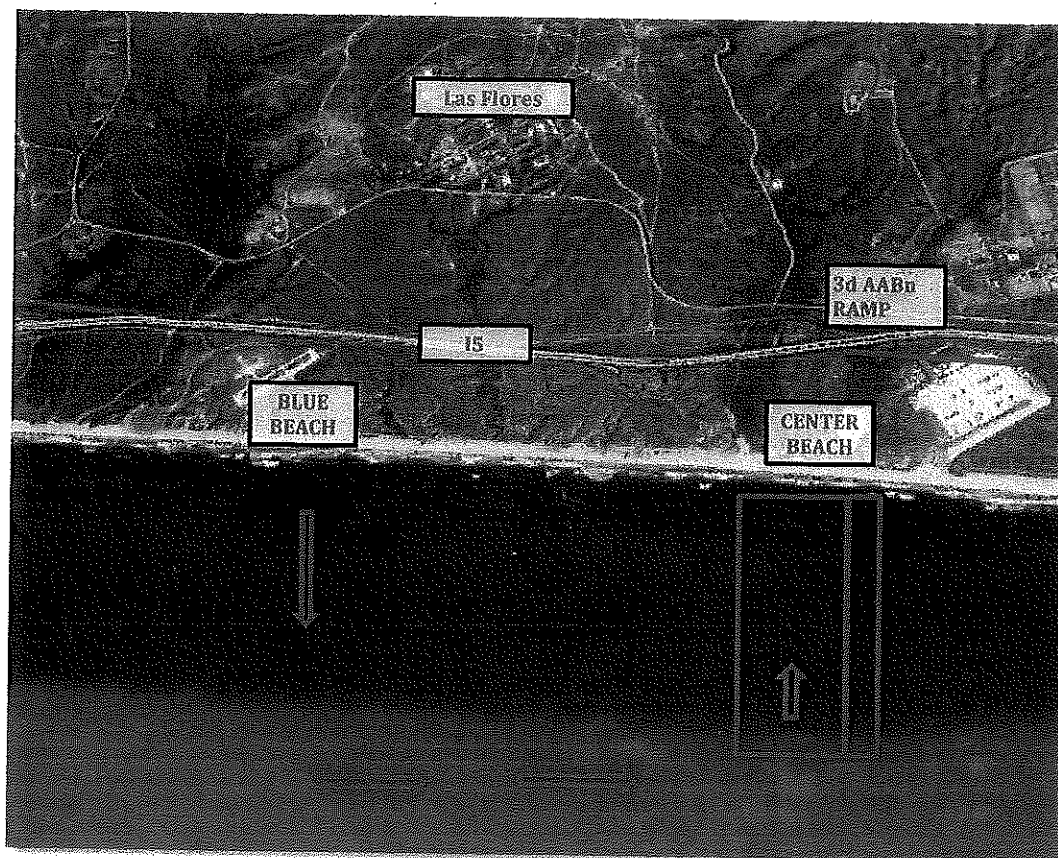
MEDICAL REQ.  
(1) Corpsman will  
be located in AAV  
3-15-12

ENCLOSURE (63)

DATE 20200527-20200529	UNIT AAV Platoon, Company B, Battalion Landing Team 1/4	RANGE/TA TA-Blue Beach/CPAVA	TRAINING TO BE CONDUCTED Amphibious Training
OIC			PERSONNEL 1 MO 57 ME 1 NE

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

MISSION: ON 27-29 May the AAV Platoon executes amphibious operations at blue beach in order to enhance proficiency of the Sections and Platoon to support future amphibious training ISO the 15th MEU.



#### TIMELINE

**27/28 MAY**  
0500 MARINES ARRIVE AT RAMP/  
PERSONAL GEAR LOADED  
0600 ARMORY DRAW  
0700 COMM LOADED, PRE-  
OPERATIONAL CHECKS VERIFIED  
0730 PLATOON COONDUCTS  
MOVEMENT TO BLUE BEACH  
0800 SUROB CONDUCTED  
0900 SECTIONS BRIEF SCHEME OF  
MANEUVER  
1000 SECTIONS FEET WET  
1300 ALL VEHICLES FEET DRY/  
POST OPERATIONS/ SECTION  
LEADERS FRAGGED  
1330 ASSISTANT SECTION  
LEADERS BRIEF AND EXECUTE  
AMPHIBIOUS OPERATION  
1600 ASSISTANT SECTION  
LEADERS COMPLETE AMPHIBIOUS  
OPERATION  
1630 SECTION LEVEL REHEARSALS  
OF IMMEDIATE ACTION DRILLS  
1800 PREPARATION FOR SECTION  
LEVEL NIGHT EXERCISE  
2000 SECTIONS FEET WET  
2300 BIVOUAC  
0600 REVELLE  
**29 MAY**  
0700 PRE-OPERATIONS FOR WATER  
OPS  
0800 PLATOON LEVEL FORMATION  
DRIVING AND LANDING  
0900 PREPARE VEHICLES FOR  
IMMEDIATE ACTION DRILLS  
1000 SECTION IED IMMEDIATE  
1200 PREPARATION FOR PLATOON  
SPLASH (REMEDICATION)  
1400 PLATOON EXERCISE  
COMPLETE (REMEDICATION)  
1500 RETROGRADE TO 3D AABN

#### Evaluator/ A.I. Requirements

Plt Cmdr/Plt Sgt will evaluate Section briefs and landings.

Section Leaders will evaluate assistant section leader briefs and landings.

<b>TRANSPORT</b> N/A	<b>LOGISTICS</b> (5) DOS chow/water provided by B CO	<b>UNIFORM</b> Frog Gear with boonie cover, PPE Level 1 (plate carrier w/ front/rear SAPIs, Kevlar, eyepro/earpro)
<b>COMMUNICATION PLAN</b> AAVs will utilized VHF as primary, with PRC-117 and 150 as secondary for the exercise Comms w/ Longrifle via AAV or PRC-117/150 (SC/PT).		<b>MEDICAL REQ.</b> (1) Corpsman will be located in AAV 3-15-12

ENCLOSURE (6)



# T&R Tasks

- 1833-GNRY-1101 Install M2 .50 Cal HB Machine Gun
- 1833-GNRY-1110 Install MK 19 Mod 3 40mm Machine Gun
- 1833-GNRY-1118 Install M240G 7.62mm Machine Gun on AAVC7A1
- 1833-CMDC-1205 Identify Standard Flags, Lights, and Markers Used to Control AAV
- 1833-VOPS-1301 Conduct Preoperations Checks
- 1833-VOPS-1302 Conduct Water Preoperation Checks
- 1833-VOPS-1306 Start AAV Engine Under Normal Conditions
- 1833-VOPS-1310 Operate AAV on Land
- 1833-VOPS-1311 Operate AAV in Water
- 1833-VOPS-1316 Refuel an AAV
- 1833-TAC-1707 Conduct Evacuation of Personnel from Disabled/Sinking AAV
- 1833-VOPS-2303 Maintain Night Vision Goggles
- 1833-VOPS-2304 Operate Night Vision Goggles

UNCLASSIFIED

ENCLOSURE (6)





# T&R Tasks Cont



- 1833-AMPH-2606 Develop Surf Observation (SUROB) Report
- 1833-AMPH-2608 Supervise Splash Team Operations
- 1833-TAC-2705 Prepare AAV for Night/Limited Visibility Operations
- 2141-MAIN-1002 Operate AAV

ENCLOSURE (3)

UNCLASSIFIED

## Training Support Request

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

DATE	5/12/2020	UNIT	BRAVO CO	SUBMITTED BY
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**Scheme of Maneuver/Clarifying Instructions:**

SUPPORT REQUEST IS FOR BRAVO COMPANY AAV PLATOON'S AMPHIBIOUS SUSTAINMENT TRAINING.

S-2 Support Requested

Type	Quantity	Description
Maps	55	CAMP PENDLETON MAP 1:50,000 LAMINATED
Imagery		
UAS		
Training Packages		

## 12 COMMENTS

REQUESTING MAPS FOR AMPHIBIOUS TRAINING AS WELL AS  
FUTURE OPERATIONS ON BOARD CAMP PENDLETON.

62	DATE RECEIVED	DATE APPROVED	SIGNATURE
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DETAILS	
Type of Training	AMPHIBIOUS SUSTAINMENT TRAINING
Training Areas	DEL MRR BOAT BASIN / BLUE BEACH / CP AAV TA
ACNI #	
CO-USE REQUIREMENT: Y/N	Y
Departure Date/Time	26 MAY 2020/0800
Hot Date/Time	
Cold Date/Time	
OIC	
RSO	(b)(3), (b)(6), (b)(7)(c)
# of Marines Training	59

83 COMMENTS

CO-USE HAS BEEN COORDINATED WITH AAS BN FOR THE DEL  
MAR BOAT BASIN ON 26 MAY 2020.

83	DATE RECEIVED	DATE APPROVED	SIGNATURE
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Rations (MRE/Hot Chow)

PAX		MARINE			NAVY			TOTAL	ROSTERS	
Officer	Enlisted	Enlisted w/Comrats		Officer	Enlisted	Enlisted w/Comrats			Submitted	
1	57	15		0	1	1		59	YES	
Person to Pick-Up Chow		(b)(3), (b)(6), (b)(7)(c)			DATE	21-May-20	LOC	21 AREA AAV RAM	TIME	1000
Chow Plan		Breakfast			Lunch		Dinner			
MRE, UGR-HS, UGR-A (Vat), Box Lunch, Chow		MRE			MRE		MRE			
Ide (Plan for 3 lbs/Marine)		Y/N		N						

## 84 COMMENTS

REQUESTING MRE'S DELIVERED AT 21 ABER AAV RAMP.

RAN	TRAINING AREA LOCATION AND GRID	START DATE	END DATE
59	BLUE BEACH (11S MS 601 785)	27-May-20	29-May-20

## MEDICAL

NUMBER OF CORPSMAN	REPORT DATE/TIME/LOCATION	RETURN DATE/TIME	REPORT TO
REMARKS: CORPSMAN SUPPORT ORGANIC TO THE PLATOON			

Transportation ('Time' is show-time for vehicles)

[illegible]

### Tactical Vehicle Request

[illegible]

\*\*\*VEHICLES WILL NOT BE DISPATCHED UNLESS FMCS ARE COMPLETED FOR THE WEEK\*\*\*

MAGG DRIVE(S) N/ RANK		DELIVERY LOCATION	
TIME OF DELIVERY			
TIME/DATE OF PRESTAGE		GUNNER'S APPROVAL	DATE RECEIVED
TIME/DATE OF PICKUP			DATE APPROVED

ENCLOSURE (C3)

# 1st Battalion 4th Marines

## Training Support Request

Qty	DODIC	NOMENCLATURE
A059	CTG, 5.56MM BALL F/M16A2	
A063	CTG, 5.56MM TR F/M16A2	
A064	CTG, 5.56MM BALL TR 4/1 F/SAW	
A075	CTG, 5.56MM BLANK LKD F/SAW	
A080	CTG, 5.56MM BLK F M16A1/A2	
A131	CTG, 7.62MM 4 BALL M80/17CR M62 LKD	
A358	CTG, 9MM FRAC AT-4	
A363	CTG, 9MM BALL PISTOL (NEM)	
A576	CTG, .50 CAL LKD 4 API/API-T F/M2	
A606	CTG, .50 CAL API MK 211-0	
A811	CTG, 7.62MM M118 L RANGE	
A811	CTG, 9MM SPOTTING RIFLE (SPAW)	
B519	CTG, 40MM PHAC M781	
B535	CTG, 40MM WHITE STAR PARA	
B542	CTG, 40MM HEED M430/M430A1 LKD (MK 19)	
B546	CTG, 40MM HEED LOWVEL LCHD	
B642	CTG, 60MM HE M120 LCMMS W/HOF	
B647	CTG, 60MM ILLUM M721	
BA14	CTG, 60MM WP M722A1	
BA21	CTG, 40MM FRAC	
C454	CTG, 81MM ILLUM INFRARED	
C869	CTG, 81MM HE M889	
C870	CTG, 81MM SMK RP M819 (IUK)	
C871	CTG, 81MM ILLUM M853 (IUK)	
C955	CTG, 84MM 4 LNCHE M136 (AT-4)	
G878	FUZE, M228 F/G811	
G881	HG, FRAGMENTATION M67	
G945	HG, SMK YEL	
G963	HG, RIOT CE M7	
G962	HG, SMK YNG M82	
HA21	ROCKET, 21MM 4 SUB-CALIBER, M72AS	

Qty	DODIC	NOMENCLATURE
HA29	RKT, 66MM HE M72A7 (LAW)	
HK05	RKT, 83MM ASSAULT, (SMAW)	
J007	MINE, APERS-T M18A1 W/Accessories	
K765	RIOT CNTRL AGENT CS CAPSULE	
L307	SIG, ILLUM WS CLUSTER M159	
L312	SIG, ILLUM WS PARA M127A1	
L495	FLARE, SURFACE TRIP M49A1	
L552	TOW BLAST SIMULATOR	
L594	SIM, PROJ GRND BURST M115A2	
L598	SIM, BOOBYTRAP FLASH M117	
L599	SIM, BOOBYTRAP ILLUM M118	
M028	DEMO KIT, BANGALORE TORP M1R2	
M030	CHG, DEMO BLK 1/4LB TNT	
M032	CHG, DEMO BLK 1LB TNT	
M130	CAP, BLST ELEC M6	
M131	CAP, BLST NON-ELEC M7	
M456	CORD, DET TYPE-1	
M670	FUZE, BLST TIME M700 (U/I FT)	
M757	CHG, ASSY DEMO KIT M183 C4 16X1-1/4LB	
M808	IGNITER, BLST TIME FUSE M81	
M875	DEMO KIT, ANTI-PERS OBSTL BRPECH SYS MK7-1 (APORS)	
WH03	GM, TOW-2 SURF ATK BGM 71D-5	
WH06	GM, TOW FRAC	
A111	CTG, 7.62MM BLANK LNKD	
A598	CTG, .50 CAL BLNK LNKD	
G940	HG, GREEN SMOKE	
G920	HG, STUN	
M552	INITIATOR, DUAL SHOCK TUBE W/CAPS	
	OTHER (SPECIFY DODIC AND NOMENCLATURE)	
	OTHER (SPECIFY DODIC AND NOMENCLATURE)	
	OTHER (SPECIFY DODIC AND NOMENCLATURE)	

ORDNANCE TO BE LTI/PFI	YES NO	ARMORER SUPPORT AT RANGE NEEDED	Y N X
NO EARLIER THAN DATE OF LTI/PFI	N/A	NO LATER THAN DATE OF LTI/PFI	N/A
Date of Weapons Draw	26-May-20	Date of Weapons Return	29-May-20
Time of Weapons Draw	0500	Time of Weapons Return	1100

NOMENCLATURE	QTY
M9 PISTOL	
M16A1 RIFLE	
M203	
M4 CARBINE	
M249 SAW	
M32 MSG	
M240B MG	
M2 .50 CAL MG	
MK-19	
MK-153 SNAW	
M224 60MM	
M282 81MM	
M41A1 SABER	

Equipment to be LTI/PFI (Estimate quantities)

NOMENCLATURE	QTY
M1014	
M40A3/AS	
M107 SABR	
M72 LAW TRAINER	
MK93	
M35 COYOTE MOUNT	
M3 TRIPOD	
M122 TRIPOD	
MK64 MOUNT	
JAVELIN BST	
JAVELIN FTT	
COMMAND LAUNCH UNIT	
FLDR	

NOMENCLATURE	QTY
AN/PQ-18A	
AN/PVS-17C	
AN/PVS-24	
AN/PQ-16	
AN/PVS-14	
AN/PVS-28	
AN/PAS-13B (V2)	
AN/PAS-13D (V2)	
AN/PAS-13D (V3)	
M22 BINO (LARGE)	
M24 BINO (SMALL)	
TELID II	
LASER BORE SIGHT	

NOMENCLATURE	QTY
M27	
M38	
M320 GL	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	
OTHER (SPECIFY)	

84	DATE RECEIVED	DATE APPROVED	SIGNATURE
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NOMENCLATURE	Qty	Pick-Up		Return	
		DATE	TIME	DATE	TIME
PRC-152					
PRC-153					
PRC-119					
PRC-119F					
PRC-117					
PRC-150					
VRC-110					
VRC-89					
VRC-90					
MRC-145					
COMM-2018					
OE-254					
CYE-10					
DTCS					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
OTHER (SPECIFY)					
FREQ/NET ID					
Days Batteries Req					

36 COMMENTS
COMM EQUIPMENT INTERNAL TO PLATOON.

86	DATE RECEIVED	DATE APPROVED	SIGNATURE
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ENCLOSURE (6)

**OPERATIONAL RISK MANAGEMENT MATRIX**  
Marine Corps Base Camp Pendleton

Marine Corps Base Camp Pendleton

TRAINING EVOLUTION: Amphibious Training Blue Beach, Boat Basin		ORGANIZATION:  BLT 1/4 Bravo CO AAV Plt	Assigned OIC:  (b)(3), (b)(6), (b)(7)(c)		Assigned RSO:		Weapons Systems:  M2 .50 cal Mk19 40mm M240B 7.62mm		Date:  20200526-20200529	
OPERATIONAL PHASE	HAZARD	CAUSES	INIT RAC	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT		HOW TO SUPERVISE		
Phase II/III	AAV Sinking	-Vehicle collision. -Vehicle noses down while moving in water. -Mechanical Failure. -Improper pre-water operations checklist completed.	ID=3	-50m dispersion unless conducting recovery. -Water tight integrity checks. . -2200 RPM speed limit. -Common SOP for amphibious operations.	IID=4	-Platoon briefed operations order. -Designate splash team. -Provide section leaders and Platoon Sergeant with Pre-Water Ops checklist.		-OIC/RSO monitor splashes and speeds. -Platoon Sergeant or 1st section leader command splash team. -Section leaders inspect pre-water op checklist after completion.		
Phase II/III	Personnel Drowning / Falling off AAV	-LPU's serviceability not checked prior to executing training. -Marines not maintaining 3 points of contact on top of vehicles.	IIC=3	-Common SOP for Amphibious Operations. -Pre-operation checklists include LPU serviceability.	IID=4	-Vehicle Commanders conduct PCCs/PCIs to include LPU's inspection.		-Section Leaders monitor PCC's / PCI's for their section. -OIC/RSO conduct safety brief prior to executing training.		
Phase III	Vehicle accident while operating at night on land and in water	-Night Vision Devices (NVDs) not functioning properly. -Ground guides not utilized in congested areas. -Crew unfamiliar with night operations.	I/C=2	-All night optics op-checked prior to departing for TA, and before dark each night. -All Marines utilizing NVD's while conducting night-time movements. -Night time marking plan. -Ground guide according to Standard Operating Procedures.	I/D=3	-Vehicle commanders function check the NVDs on their own vehicle. -Marines driving are briefed that they are required to wear NVDs during each night-time evolution. -Platoon briefed on night scheme of maneuver. -Chem lights are used by ground guides to move AAV's.		-Section leaders and Platoon Sergeant spot check NVDs for function. -Section Leaders conduct ROC walk for night time considerations during amphibious operations. -Ensure ground guides have chem lights to ground guide.		
All Phases	Vehicle fire resulting in injuries.	-Mechanical malfunctions which cause fire.	I/C=2	-Vehicle Commanders report any potentially dangerous problems. -Vehicle not utilized until mechanical issue is resolved. -Manual fire bottles on every AAV inspected and weighed by maintainers. -AFSSS tested by maintainers.	I/D=3	-Vehicle commanders monitor status of vehicles. -Vehicle Commanders check fire bottle tags prior to operation to ensure date is current. -Vehicle commanders verify AFSSS is unobstructed by SL-3.		-Section leaders monitor maintenance issues and report to Platoon Sergeant. -Platoon Sergeant ensures all vehicles operating have no mechanical issues. -Marines back brief section leaders on proper use and status of manual fire bottles. -Section leaders inspect sections to verify AFSSS is unobstructed in all vehicles and fire bottles have current tags.		

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ENCLOSURE (9)

All Phases	Land Collision	<ul style="list-style-type: none"> <li>-Operating at unsafe speeds.</li> <li>-Following too close.</li> <li>-Improper dispersion</li> </ul>	IIC=3	<ul style="list-style-type: none"> <li>-Establish rates of march.</li> <li>-Establish dispersion for day and night movements.</li> <li>-Vehicle Commander navigating driver.</li> </ul>	IID=4	<ul style="list-style-type: none"> <li>-Rate of march and dispersion covered in op order.</li> <li>-Safety brief with emphasis on ground guided in congested areas.</li> </ul>	<ul style="list-style-type: none"> <li>-Section leader monitors speed/dispersion.</li> <li>-Vehicle commander supervision speed, dispersion, route selection.</li> </ul>
Phase II/III	Vehicle Recovery Accidents	<ul style="list-style-type: none"> <li>-Improper towing procedures utilized.</li> <li>-Equipment failure while towing.</li> </ul>	IIC=3	<ul style="list-style-type: none"> <li>-Common SOP for Amphibious Operations.</li> <li>-AAV recovery TTP's understood by Marines.</li> <li>-Pre-operation checklists include recovery equipment.</li> </ul>	IID=4	<ul style="list-style-type: none"> <li>-Section leaders have Marines rehearse recovery operations/SOP.</li> <li>-Provide Pre-Water Op Checklists for recovery equipment.</li> </ul>	<ul style="list-style-type: none"> <li>-Vehicle Commanders monitor recovery operations.</li> <li>-OIC/RSO conduct safety brief on recovery operations.</li> </ul>
All Phases	Personnel injuries on AAVs.	<ul style="list-style-type: none"> <li>-Marines injured by unsecured hatches, improperly stowed gear.</li> <li>-Improper mounting of AAV.</li> <li>-Improper wear of PPE.</li> </ul>	II/C=3	<ul style="list-style-type: none"> <li>-All hatches and gear are strapped down according to SOP.</li> <li>-Ensure personnel maintain 3 points of contact when mounting the AAV.</li> <li>-Enforce proper PPE while on AAV (i.e. eye protection, ear protection, gloves, steel toe boots, plate carrier).</li> </ul>	II/D=4	<ul style="list-style-type: none"> <li>-Leadership supervises stowage of gear.</li> <li>-Conduct a brief on safety precautions within the Common SOP; to include wearing PPE, "chest-high" defilade in the hatches and safe practices.</li> </ul>	<ul style="list-style-type: none"> <li>-Vehicle commanders supervise crews to ensure proper stowage of gear and hatch security.</li> <li>-Platoon leadership supervise the platoon to ensure PPE is worn and SOP's are being followed.</li> <li>-Section leaders supervise sections to ensure Marines are properly mounting vehicles.</li> </ul>
All Phases	Hazmat/Fuel Spill.	<ul style="list-style-type: none"> <li>-Vehicle malfunction or while doing maintenance repairs.</li> <li>-Not cleaning POL's out of hull.</li> </ul>	III/C=4	<ul style="list-style-type: none"> <li>-Once hazmat spill or potential is discovered, Marines properly clean, report, and control the spill.</li> <li>-Adequate control materials are brought to field.</li> </ul>	III/D=5	<ul style="list-style-type: none"> <li>-Vehicle commanders monitor all hazmat spills to ensure they are handled properly.</li> <li>-Hazmat procedures are briefed to the Marines prior to leaving the RAMP.</li> <li>-Hazmat rep ensures adequate materials are present on each vehicle prior to leaving field.</li> </ul>	<ul style="list-style-type: none"> <li>-Section leader monitors hazmat spills to ensure proper techniques are followed.</li> <li>-Vehicle commanders back brief platoon leadership on hazmat procedures prior to leaving RAMP.</li> <li>-Platoon sergeant ensures Hazmat rep has provided adequate materials before leaving RAMP.</li> </ul>
All Phases	LZ FOD (CASEVAC)	<ul style="list-style-type: none"> <li>-Blowing visible FOD due to rotor wash.</li> </ul>	I/C=2	<ul style="list-style-type: none"> <li>-Ensure that landing surface/LZ is clear of FOD prior to conducting landing operations.</li> </ul>	I/D=3	<ul style="list-style-type: none"> <li>-Have a fire team size group of Marines sweep the LZ before landing.</li> </ul>	<ul style="list-style-type: none"> <li>-Platoon commander/Platoon sergeant visually inspect landing zone.</li> </ul>

ENCLOSURE (63)

All Phases	Loss of personnel and/or equipment	- Lack of accountability for personnel and/or gear.	IID=5	-Op Order covers Lost Marine Plan -EDL rosters on hand. -NVG's dummy corded to body.	IVD=5	- Accountability and EDL checks periodically throughout training. -Platoon Sergeant verifies morning/evening EDL. -Prior to operation ensure all NVG's have 550 chord attached.	-Platoon Leadership ensures strict accountability and briefs chain of command in any instance where a Marine or piece of equipment is not accounted for. -Spot check dummy corded NVG's.
All Phases	Weather exposure casualties (Heat).	-Marines not eating/drinking properly. -Excessive heat of vehicle when wearing PPE.	II/C=3	-Vehicle commanders monitor all crew members to ensure they are eating and drinking enough water. -Any time vehicles are not needed for rehearsals, crew members remove PPE and turn off the vehicle unless moving outside of it. -Each vehicle has (2) two designated water jugs and a cami net.	II/D=4	-Marines briefed on importance of nutrition/hydration in the field. -Section leaders ensure adequate water on each vehicle prior to rehearsals.	-Marines back brief Platoon commander on importance of hydration/nutrition. - Platoon Sergeant ensures Marines are provided with food and water. -Corpsman observes Marines to ensure they are not becoming weather casualties. -Vehicle Commanders monitoring Crewman's hydration/ nutrition.
All Phases	Wildlife/ Environmental Hazards	-Marines harassing animals - Operating in environmental protected areas.	IIC=3	-Brief animal/ environment considerations and their likely locations. -Verify environmental protected areas via environmental map.	IID=4	-During OpOrder brief platoon environmental considerations/ markings. -During safety brief animal considerations. -Corpsman present.	-RSO/OIC briefs wildlife concerns and safe practices. -During transit platoon staff ensures vehicles stay clear of environmentally protected areas.
Phases II/III	Weather impeding training	-Sea State above sea state 3. -High winds, lightning.	IID=4	-OIC/RSO shifts training exercise if needed to ensure maximum training is met.	IVD=5	-OIC/RSO monitor any major storms moving in to the AO . -Surf Observation Report conducted in accordance with AAV Common SOP.	-OIC coordinates with S-2 for weather update prior to departing friendly lines. -OIC/RSO ensure proper Surf Observation Report completed.

#### HAZARD SEVERITY

I - CATASTROPHIC- Death, permanent disability, major property damage  
 II - CRITICAL - Permanent partial disability, major system or minor property damage  
 III - MARGINAL - Minor injury, minor system or property damage  
 IV - NEGLIGIBLE - 1<sup>st</sup> aid, minor system repair

#### MISHAP PROBABILITY

A - FREQUENT, B - LIKELY, C - OCCASIONAL, D - UNLIKELY

#### RISK ASSESSMENT CODE (RAC)

1 - CRITICAL, 2 - SERIOUS, 3 - MODERATE, 4 - MINOR, 5 - NEGL

#### RAC ASSESSMENT CODE MATRIX

H A Z A R D S E V E R I T Y	MISHAP PROBABILITY				
		A	B	C	D
I		1	1	2	3
II		1	2	3	4
III		2	3	4	5
IV		3	4	5	5

#### COMMAND REVIEW/APPROVAL

OIC  
RSC  
RSC  
RSC  
XO/  
S-3:  
BCC

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

10-8  
520

ENCLOSURE (3)