

## MCM 1-2 MPDE Preventive Maintenance

MRC NO.	MAINTENANCE REQUIREMENT DESCRIPTION	PERIODICITY CODE	RATES	MAN HRS	RELATED MAINT
79 8CQY N	1. Lubricate Air Starting Motor.	M-4	FN	0.1	None
56 8CRC N	1. Test Emergency Remote Shutdown Device.	Q-2	EN2 FN	0.2 0.2	None
79 8CQZ N	1. Lubricate Engine Controls.	Q-5	FN	0.1	None
28 8NTY N	1. Test Engine Soluble Oil Treated Cooling Water.	Q-6	EN2	0.5	None
84 8CRD N	1. Test Pressure Setting of Lube Oil Low-Pressure Alarm.	S-2	EN2	0.5	None
98 F6BD N	1. Inspect Zinc Anodes.	S-3	EN3	0.1	6331/002: S-2#
84 8CRG N	1. Test Operation of Water High-Temperature Alarm.	A-1	EN2 FN	0.7 0.7	None
28 8SWJ N	1. Inspect Valve Lever Assembly. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Annually. b. Every 1000 ±100 hours of engine operation.	A-3R	EN2 FN	3.0 3.0	None
28 8TWG N	1. Conduct Engine Performance Test. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Annually. b. Every 1000 ±100 hours of operation.	A-10R	EngOff ENC EN1 EN2 FN	1.0 3.0 3.0 3.0	None
48 F3FD N	1. Accomplish Diesel Inspection.	18M-1	DE1	40.0	None
98 C9FD N	1. Test Engine Overspeed Limiter. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 Month. b. After the start of a Diesel inspection visit.	18M-3R	EN1 EN3	0.2 0.2	None
28 8CRS Y	1. Clean Intercoolers.	24M-2	EN2 EN3	4.0 4.0	None
28 C9YU N	1. Test Lube Oil Filter High Differential Pressure	24M-4	EN/IC2 FN	0.5 0.5	None
79 8CRH N	1. Change Engine Lube Oil. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 1000 ±100 hours of engine operation.	R-1	EN3 FN	1.0 1.0	U-8#
28 8RCV N	1. Inspect Engine Foundation Bolts. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 1000 ±100 hours of engine operation.	R-5	EN2 FN	1.6 1.6	None
28 8CRQ N	1. Clean Air Intake Silencer. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 400 ±40 hours of engine operation.	R-8	EN3	2.0	None
28 8TUJ N	1. Clean and Inspect Crankcase Breathers. a. Every 500 hours of engine operation.	R-18	EN3	1.3	None

## MCM 1-2 SSDG Preventive Maintenance

MRC NO.	MAINTENANCE REQUIREMENT DESCRIPTION	PERIODICITY CODE	RATES	MAN HRS	RELATED MAINT
79 8CVK N	1. Lubricate Engine Controls.	Q-19	FN	0.1	None
C8 8CVM N	1. Inspect Generator, Brushless Exciter and Measure Exciter Air Gap. 2. Measure Insulation Resistance of Stator, Rotor, and Brushless Exciter and Verify Values are Acceptable	Q-20	EM2 EM3	1.5 1.5	None
86 8CVS N	1. Calibrate Lube Oil Low-Pressure Alarm	S-3	EN2	0.5	None
98 F5YE N	1. Inspect Zinc Anodes.	S-5	EN3	0.1	6331/002: S-2#
39 8JXT N	1. Test Generator Set Solid-State Reverse Power Relay.	A-2R	EM1 EM2	0.3 0.3	None
	<b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Annually. b. Prior to deployment. c. After the end of TYCOM availability. d. After custody transfer.				
94 8NXR N	1. Conduct Engine Performance Test.	A-10R	EngOff ENC EM1 EN1 2EN2	1.0 3.0 3.0 6.0	None
	<b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Annually. b. Every 1000 ±100 hours of operation				
48 F3FR N	1. Accomplish Diesel Inspection.	18M-1	DEI	40.0	18M-2R 18M-3R 18M-4 18M-5R 18M-6R 18M-13R
57 8SWK N	1. Inspect Valve Lever Assembly.	18M-2R	EN2 FN	3.0 3.0	None
	<b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 Months. b. Every 1000 ±100 hours of operation. c. After the start of a Diesel inspection visit				
77 8CVU N	1. Test Operation of Water High-Temperature Alarm.	18M-3R	EN2 FN	0.7 0.7	None
	<b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 months. b. After the start of a Diesel inspection visit.				
57 8CVQ N	1. Test Emergency Remote Shutdown Device	18M-4	EN2	0.2	None

## MCM 1-2 SSDG Preventive Maintenance

MRC NO.	MAINTENANCE REQUIREMENT DESCRIPTION	PERIODICITY CODE	RATES	MAN HRS	RELATED MAINT
C8 9HLS Y	1. Inspect Holset Coupling Rubber <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 months. b. After the start of a Diesel inspection visit.	18M-5R	FN EN1	0.2 3.0	None
87 8KBH Y	1. Adjust Valve Clearances and Valve Operating Mechanism for Proper Lubrication. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 months. b. After the start of a Diesel inspection visit.	18M-6R	EN2 EN3	4.0 4.0	None
57 8CVR N	1. Test Engine Overspeed Device. 2. Test Engine Under Frequency Device. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. 18 Months. b. After the start of a Diesel inspection visit.	18M-13R	EN1 2EN3 EM3	0.3 0.6 0.3	None
57 8TUL N	1. Clean and Inspect Turbocharger.	18M-20			None
79 8CVV N	1. Renew Engine Lube Oil. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 1000 ±100 hours of operation. b. After engine overhaul.	R-2	EN3 FN	1.0 1.0	U-13#
94 8CVZ N	1. Clean Air Intake Silencer. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 400 ±40 hours of operation.	R-6	EN3	2.0	None
98 F5YU N	1. Submit Work Request to Repair Activity to Overhaul Engine. <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Directed by Certified Diesel Inspector.	R-11	FN	0.1	None
94 8TUM N	1. Clean and Inspect Crankcase Breathers <b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur. a. Every 500 ±50 hours of operation	R-17	EN3	1.3	None

## MCM 1 - 14 MMGTG Preventive Maintenance Requirements

MRC NO.	MAINTENANCE REQUIREMENT DESCRIPTION	PERIODICITY CODE	RATES	MAN HRS	RELATED MAINT
B2 9NXZ Y	1. Clean and Inspect MMGTG Lube Oil Cooler Protector Rod (Zinc) Assemblies.	S-1	EN3	4.0	None
B1 9AQW N	1. Clean and Inspect Minesweeping Generator; Measure Insulation Resistance.	S-2	EM3 EMFN	2.0 2.0	None
B1 8FCY N	1. Clean and Inspect Minesweeping Generator; Measure Insulation Resistance.	S-5	EM3 EMFN	5.0 5.0	Q-1R#
89 9LAH N	1. Test Generator Bearing and Pedestal Bearing Oil High-Temperature Alarm.	A-1	EN2 FN	0.5 0.5	None
39 8FDB N	1. Clean Filter Media.	A-2	EM3	1.0	None
39 8FDC N	1. Inspect Emergency Quick-Closing Valve Operating Assembly.	A-3	EN2 FN	0.5 0.5	None
52 8ZRN N	1. Test and Inspect Waterwash Manifold Operation.	A-4	EM2 EM3	1.5 2.0	R-8 # or R-11#
A9 9AQX N	1. Clean and Inspect SCR Motor Drive Interior. 2. Clean SCR Motor Drive Filters.	A-5	DCPO EM3	2.0 2.0	None
39 9GVQ N	1. Lubricate Non-Magnetic AC Generator (Pulse Frequency Changer) FWD and AFT Rotor Bearings and FWD and AFT Flywheel Bearings.	A-6	EM3 EN2	2.0 2.0	None
57 8FDM N	1. Test Differential Pressure Switch and Blow-in Door Limit Switch.	A-8	EN2 EM3	0.5 0.5	Q-1R#
39 9CUR N	2. Lubricate Blow-In Door Assembly.		EN3	0.5	
39 9HAV Y	1. Inspect Gas Turbine Exhaust Duct Flange Connections.	A-12	EN2	3.0	None
	1. Lubricate AC Electric Starter Motor Bearings.	A-13R	EN2	1.0	None
	<p><b>NOTE:</b> Accomplish this maintenance requirement when any of the following periodicities or situations occur.</p> <p>a. Annually.</p> <p>b. Every 100 ± 10 hours of MMGTG operation.</p>				
C8 9ZCJ N	1. Inspect Zinc Anodes.	A-14			6331/002: S-2#
	<p><b>NOTE:</b> This is a scheduling card. Schedule and perform the listed MRC(s).</p>				
A9 8FDL N	1. Clean, Inspect, and Test Operate Electrostatic Precipitator Assembly.	18M-1	EM3 EN3	0.5 1.0	None
A9 9AQY N	1. Test Minesweeping Generator Overcurrent Trips.	18M-2	EM2 EM3	1.0 1.0	None

## MCM 1 - 14 MMGTG Preventive Maintenance Requirements

MRC NO.	MAINTENANCE REQUIREMENT DESCRIPTION	PERIODICITY CODE	RATES	MAN HRS	RELATED MAINT
81 9AQZ N	1. Test Minesweeping Generator Overvoltage Trips.	18M-3	EM2 EM3	2.0 2.0	None
84 9BGD N	1. Calibrate Generator Bearing Oil High Temperature Switch.	18M-4	2PO3	2.0	9802/003: U-9# 9802/003: U-32#
52 8FDN N	1. Test Operation of Emergency Fuel Oil Quick-Closing Valve and Operating Assembly.	R-1	EN2 EN3	0.2 0.2	None
82 9NYB N	1. Clean, Inspect, and Test MMGTG DC Generator Bearing Lube Oil Cooler. <b>NOTE:</b> Accomplish when lube oil temperature exceeds 180°F or if engine shuts down at 200°F.	R-26	EN3	3.0	None
48 9PPU U	1. Clean and Inspect Air Cooler.  <b>NOTE:</b> Accomplish when generator stator temperatures exceed maximum limit.	U-3	MM1  MM3 FN	2.0  8.0 8.0	None
<b>Lay-Up Maintenance</b>					
86 8FDT N	1. Raise Brushes.	LU-1	EMFN	0.3	None
86 8FDU N	1. Drain and flush Seawater Cooling System.	LU-2	EN3	1.0	None
67 9HAW Y	1. Preserve Gas Turbine Lube Oil System. 2. Preserve Gas Turbine Fuel System.  <b>NOTE:</b> Preservation of engine lube oil system is not required if engine is operated a minimum of 10 minutes every 7 days and engine is not subjected to chipping, sandblasting or spray painting dust.	LU-3	EN2 EN3	3.0 3.0	None
43 9HAX N	1. Install Wrap Protection on Gas Turbine.  <b>NOTE:</b> Wrap protection should be installed on gas turbine when placed in long term storage (over 30 days) inside engine space.	LU-4	EN2 EN3	2.0 2.0	None
<b>Start-Up Maintenance</b>					
86 8FDV N	1. Fill and Vent Seawater Cooling System.	SU-1	EN3	0.5	None
86 8FDW N	1. Lower Brushes.	SU-2	EM3	0.5	None
67 9HAZ N	1. Remove Gas Turbine Wrap Protection.	SU-3	EN2	1.0	None