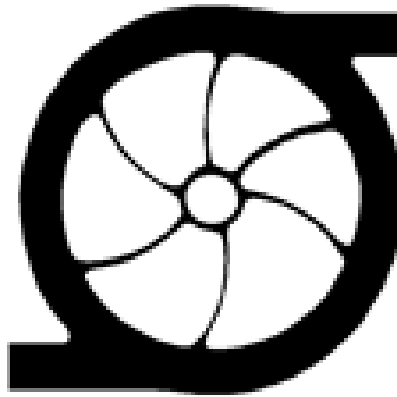


CHAPTER 39



GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) (GSM)

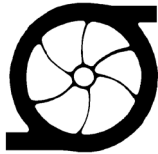
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NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) (GSM)



SCOPE OF RATING

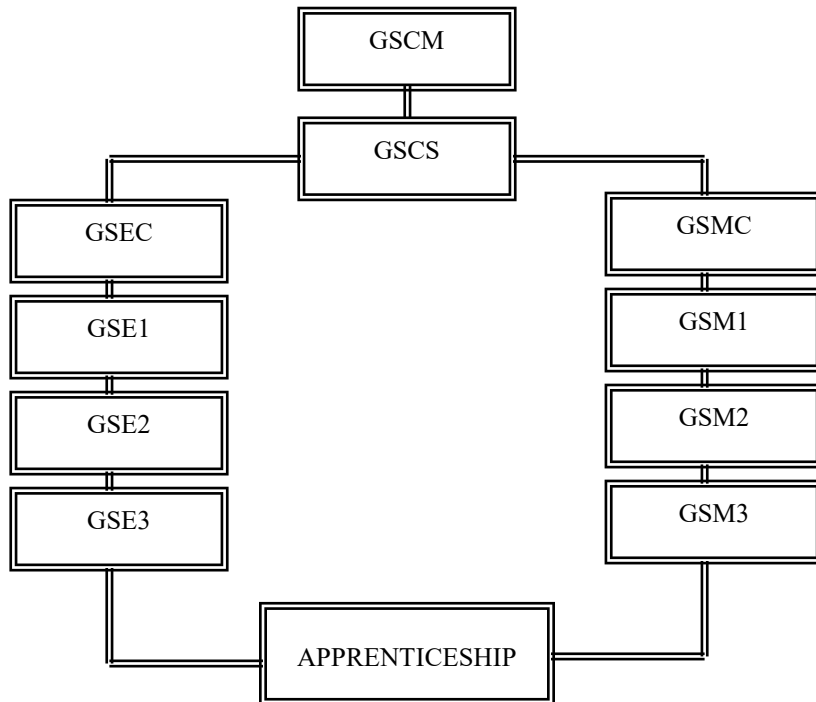
Gas Turbine Systems Technicians (GS) operate, repair, and perform organizational and intermediate maintenance on ship's propulsion Gas Turbine Engines (GTE), Ship's Service Gas Turbine Generators (SSGTG), main propulsion machinery (including gears, shafting, and Controllable Pitch Propellers (CPP)), assigned auxiliary equipment (including fuel and lube oil systems), machinery control systems (including consoles and Programmed Logic Controllers (PLC)), assigned electrical and electronic equipment up to the printed circuit boards, and alarm and warning circuitry.

Gas Turbine Systems Technicians (Mechanical) (GSM) operate, repair, and perform organizational and intermediate maintenance on mechanical components of Gas Turbine Engines (GTE), main propulsion machinery (including gears, shafting, and Controllable Pitch/Reversible Propellers (CPP/CRP)), assigned auxiliary equipment, and propulsion control systems.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 39.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Gas Turbine Mechanical Systems Technician****Job Code****003003****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

GAS TURBINE M SYSTEM TEC

Short Title (14 Characters)

GT MECH TECH

Pay Plan

Enlisted

Career Field

GSM

Other Relationships and Rules

NEC UXXX series or other NECs as assigned

Job Description

Gas Turbine Mechanical Systems Technicians maintain and operate Ship's Service Gas Turbine Generators (SSGTG) and support systems; maintain Controllable Reversible/Pitch Propeller (CRP/CPP) systems; operate propulsion plant controls and main propulsion equipment, pumps, turning gears, air compressors, oil purification systems, low pressure air dehydrators, and engineering control systems; utilize blueprints, schematics, and charts to maintain and repair Gas Turbine Engines (GTE) and auxiliary equipment; perform preventive maintenance on ship's fuel systems and air systems, Sea Water Service Systems (SWSS), waste drain systems, oil purification systems, and manually-operated valves; perform work area inspections, operate standard test equipment, and test lubricating oil and distillate fuels for contamination, neutralization, and precipitation; conduct engine checks to verify performance and replace and/or adjust operating tolerance of contacts, micro-switches, relay switches, pressure switches, and temperature switches; perform administrative procedures related to gas turbine propulsion system operation and maintenance; and supervise Gas Turbine Mechanical Systems Maintainers.

DoD Relationship**O*NET Relationship****Group Title**

Auxiliaries

DoD Code

165200

Occupation Title

Power Plant Operators

SOC Code

51-8013.00

Job Family

Production

Skills*Quality Control Analysis**Troubleshooting**Equipment Maintenance**Repairing**Reading Comprehension**Critical Thinking**Complex Problem Solving**Operation and Control**Operation Monitoring**Coordination***Abilities***Problem Sensitivity**Written Comprehension**Manual Dexterity**Deductive Reasoning**Inductive Reasoning**Selective Attention**Written Expression**Information Ordering**Visualization**Mathematical Reasoning***AUXILIARY EQUIPMENT****Paygrade**

E4

Task Type

CORE

Task Statements

Align bleed air systems (i.e., start air, prairie, masker, anti-icing)

E4

CORE

Align Fuel Oil (FO) purifiers

E4

CORE

Align Fuel Oil (FO) transfer system

E4

CORE

Align JP-5 systems

E4

CORE

Align Low Pressure Air Compressors (LPAC)

E4

CORE

Align Low Pressure Air Dehydrator (LPAD)

E4

CORE

Align Oil Pollution Abatement System (OPAS)

E4

CORE

Align Seawater Systems (SWS)

E4

CORE

Analyze Fuel Oil (FO) samples

E4

CORE

Analyze Lube Oil (LO) samples

E4

CORE

Conduct fluid sampling

E4

CORE

Conduct preventive maintenance on bleed air systems (i.e., start air, prairie, masker, anti-icing)

E4

CORE

Conduct preventive maintenance on Fuel Oil (FO) transfer system

E4

CORE

Conduct preventive maintenance on heat exchangers

E4

CORE

Conduct preventive maintenance on JP-5 systems

AUXILIARY EQUIPMENT (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct preventive maintenance on Low Pressure Air Compressors (LPAC)
E4	CORE	Conduct preventive maintenance on Low Pressure Air Dehydrator (LPAD)
E4	CORE	Conduct preventive maintenance on Oil Pollution Abatement System (OPAS)
E4	CORE	Conduct preventive maintenance on Seawater Systems (SWS)
E4	CORE	Conduct preventive maintenance on temperature regulating valves
E4	CORE	Measure fuel tank levels
E6	CORE	Receive Fuel Oil (FO) from outside activity
E4	CORE	Repair bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Repair Fuel Oil (FO) purifiers
E4	CORE	Repair Fuel Oil (FO) transfer system
E4	CORE	Repair heat exchangers
E4	CORE	Repair JP-5 systems
E4	CORE	Repair Low Pressure Air Compressors (LPAC)
E4	CORE	Repair Low Pressure Air Dehydrator (LPAD)
E4	CORE	Repair Oil Pollution Abatement System (OPAS)
E4	CORE	Repair Seawater Systems (SWS)
E4	CORE	Repair temperature regulating valves
E4	CORE	Troubleshoot bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Troubleshoot Fuel Oil (FO) purifiers
E4	CORE	Troubleshoot Fuel Oil (FO) transfer system
E4	CORE	Troubleshoot heat exchangers
E4	CORE	Troubleshoot JP-5 systems
E4	CORE	Troubleshoot Low Pressure Air Compressors (LPAC)
E4	CORE	Troubleshoot Low Pressure Air Dehydrator (LPAD)
E4	CORE	Troubleshoot Oil Pollution Abatement System (OPAS)
E4	CORE	Troubleshoot Seawater Systems (SWS)
E4	CORE	Troubleshoot temperature regulating valves

GAS TURBINE

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) support systems (e.g., Lube Oil (LO) system components, water wash systems, fuel systems, etc.)
E4	CORE	Align Gas Turbine Generator (GTG) locally and remotely
E5	CORE	Conduct borescope inspection on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG))
E4	CORE	Conduct Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) pre-operational checks
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components

GAS TURBINE (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Generator (GTG)
E5	CORE	Conduct preventive maintenance on Gas Turbine Main (GTM)
E4	CORE	Inspect gas turbine module
E4	CORE	Inspect shock mounts (i.e., Gas Turbine Main (GTM), Gas Turbine Generator (GTG))
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E5	CORE	Repair Gas Turbine Generator (GTG)
E5	CORE	Repair Gas Turbine Main (GTM)
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems

GAS TURBINE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E6	CORE	Troubleshoot Gas Turbine Generator (GTG)
E5	CORE	Troubleshoot Gas Turbine Main (GTM)

MAIN PROPULSION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Align Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Align High Pressure (HP) start air systems
E4	CORE	Align jacking or turning gears
E4	CORE	Align Lube Oil (LO) purifiers
E4	CORE	Align main Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E4	NON-CORE	Calibrate fuel pump logics
E4	NON-CORE	Calibrate Lube Oil (LO) pump logics
E4	CORE	Conduct main engine room console operations (e.g., Shaft Control Unit (SCU)/ Universal Control Console (UCC)/Propulsion Local Control Console (PLCC) Operations, etc.)
E4	CORE	Conduct preventive maintenance on Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Conduct preventive maintenance on Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Conduct preventive maintenance on Gas Turbine Main (GTM) power turbine brakes
E5	CORE	Conduct preventive maintenance on jacking or turning gears
E4	CORE	Conduct preventive maintenance on Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Conduct preventive maintenance on Main Reduction Gear (MRG)
E5	CORE	Conduct preventive maintenance on shafting/bearing components
E6	CORE	Conduct Propulsion and Auxiliary Control Console (PACC) operations
E4	CORE	Fabricate sealing gaskets
E5	CORE	Repair Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Repair Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Repair Gas Turbine Main (GTM) power turbine brakes

MAIN PROPULSION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair jacking or turning gears
E4	CORE	Repair Lube Oil (LO) purifiers
E4	CORE	Repair Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Repair Main Reduction Gear (MRG) external components
E6	CORE	Repair shafting/bearing components
E5	CORE	Troubleshoot Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Troubleshoot Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Troubleshoot Gas Turbine Main (GTM) power turbine brakes
E5	CORE	Troubleshoot jacking or turning gears
E4	CORE	Troubleshoot Lube Oil (LO) purifiers
E4	CORE	Troubleshoot Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Troubleshoot Main Reduction Gear (MRG)
E6	CORE	Troubleshoot shafting/bearing components

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Annotate operating equipment logs
E6	CORE	Calculate fuel load requirements
E6	CORE	Calculate Lube Oil (LO) load requirements
E6	CORE	Maintain Marine Gas Turbine Service Records (MGTSR)
E6	CORE	Manage bearing logs
E6	CORE	Manage Engineering Operational Sequencing Systems (EOSS) program
E6	CORE	Manage Fuel Oil Quality Management (FOQM) program
E6	CORE	Manage Lube Oil Quality Management (LOQM) program
E7	CORE	Manage Marine Gas Turbine Service Records (MGTSR)
E6	CORE	Manage Oily Waste Management (OWM) program
E6	CORE	Manage operating logs
E5	CORE	Prepare engineering Quality Assurance (QA) packages
E5	CORE	Prepare engineering Quality Assurance (QA) repair forms
E7	CORE	Prepare ship-wide full power and economy trials
E4	CORE	Record dry bulb temperature readings
E4	CORE	Record operating equipment logs
E4	CORE	Update fuel and water reports
E4	CORE	Update fuel logs

TECHNICAL ADMINISTRATION (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Update Lube Oil (LO) logs
E4	CORE	Validate Engineering Operational Sequencing System (EOSS) publications changes
E6	CORE	Validate engineering Quality Assurance (QA) packages
E6	CORE	Verify engineering bulletins and changes
E6	CORE	Verify engineering Quality Assurance (QA) repair forms
E7	CORE	Verify fuel and water reports
E7	CORE	Verify fuel logs
E7	CORE	Verify Lube Oil (LO) logs

Job Title**Gas Turbine Mechanical Systems Maintainer****Job Code****003698****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

GAS TURBINE M SYSTEM MAINT

Short Title (14 Characters)

GT MECH MAINT

Pay Plan

Enlisted

Career Field

GSM

Other Relationships and Rules

NEC UXXX series or other NECs as assigned

Job Description

Gas Turbine Mechanical Systems Maintainers maintain and operate Ship's Service Gas Turbine Generators (SSGTG) and support systems; maintain Controllable Reversible/Pitch Propeller (CRP/PPP) systems; operate propulsion plant controls and main propulsion equipment, pumps, turning gears, air compressors, oil purification systems, low pressure air dehydrators, and engineering control systems; utilize blueprints, schematics, and charts to maintain and repair Gas Turbine Engines (GTE) and auxiliary equipment; perform preventive maintenance on ship's fuel systems and air systems, Sea Water Service Systems (SWSS), waste drain systems, oil purification systems, and manually-operated valves; perform work area inspections; operate standard test equipment; test lubricating oil and distillate fuels for contamination, neutralization, and precipitation; conduct engine checks to verify performance and replace and/or adjust operating tolerance of contacts, micro-switches, relay switches, pressure switches and temperature switches; perform administrative procedures related to gas turbine propulsion system operation and maintenance; and work under the supervision of a Gas Turbine Mechanical Systems Technician while learning the trade or skill.

DoD RelationshipGroup Title

Auxiliaries

DoD Code

165200

O*NET RelationshipOccupation Title

Power Plant Operators

SOC Code

51-8013.00

Job Family

Production

Skills

Quality Control Analysis
Troubleshooting
Equipment Maintenance
Repairing
Reading Comprehension
Complex Problem Solving
Operation and Control
Critical Thinking
Operation Monitoring
Systems Analysis

Abilities

Problem Sensitivity
Manual Dexterity
Written Comprehension
Deductive Reasoning
Inductive Reasoning
Selective Attention
Written Expression
Visualization
Arm-Hand Steadiness
Control Precision

AUXILIARY EQUIPMENT**Paygrade****Task Type****Task Statements**

E4	CORE	Align bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Align Fuel Oil (FO) purifiers
E4	CORE	Align Fuel Oil (FO) transfer system
E4	CORE	Align JP-5 systems
E4	CORE	Align Low Pressure Air Compressors (LPAC)
E4	CORE	Align Low Pressure Air Dehydrator (LPAD)
E4	CORE	Align Oil Pollution Abatement System (OPAS)
E4	CORE	Align seawater compensating system
E4	CORE	Align Seawater Systems (SWS)
E4	CORE	Analyze Fuel Oil (FO) samples
E4	CORE	Analyze Lube Oil (LO) samples
E4	CORE	Conduct fluid sampling
E4	CORE	Conduct preventive maintenance on bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Conduct preventive maintenance on Fuel Oil (FO) transfer system
E4	CORE	Conduct preventive maintenance on heat exchangers

AUXILIARY EQUIPMENT (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct preventive maintenance on JP-5 systems
E4	CORE	Conduct preventive maintenance on Low Pressure Air Compressors (LPAC)
E4	CORE	Conduct preventive maintenance on Low Pressure Air Dehydrator (LPAD)
E4	CORE	Conduct preventive maintenance on Oil Pollution Abatement System (OPAS)
E4	CORE	Conduct preventive maintenance on Seawater Systems (SWS)
E4	CORE	Conduct preventive maintenance on temperature regulating valves
E4	CORE	Measure fuel tank levels
E4	CORE	Repair bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Repair Fuel Oil (FO) purifiers
E4	CORE	Repair Fuel Oil (FO) transfer system
E4	CORE	Repair heat exchangers
E4	CORE	Repair JP-5 systems
E4	CORE	Repair Low Pressure Air Compressors (LPAC)
E4	CORE	Repair Low Pressure Air Dehydrator (LPAD)
E4	CORE	Repair Oil Pollution Abatement System (OPAS)
E4	NON-CORE	Repair seawater compensating system
E4	CORE	Repair Seawater Systems (SWS)
E4	CORE	Repair temperature regulating valves
E4	CORE	Troubleshoot bleed air systems (i.e., start air, prairie, masker, anti-icing)
E4	CORE	Troubleshoot Fuel Oil (FO) purifiers
E4	CORE	Troubleshoot Fuel Oil (FO) transfer system
E4	CORE	Troubleshoot heat exchangers
E4	CORE	Troubleshoot JP-5 systems
E4	CORE	Troubleshoot Low Pressure Air Compressors (LPAC)
E4	CORE	Troubleshoot Low Pressure Air Dehydrator (LPAD)
E4	CORE	Troubleshoot Oil Pollution Abatement System (OPAS)
E4	NON-CORE	Troubleshoot seawater compensating system
E4	CORE	Troubleshoot Seawater Systems (SWS)
E4	CORE	Troubleshoot temperature regulating valves

GAS TURBINE

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) support systems (e.g., Lube Oil (LO) system components, water wash systems, fuel systems, etc.)
E4	CORE	Align Gas Turbine Generator (GTG) locally and remotely
E5	CORE	Conduct borescope inspection on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG))
E4	CORE	Conduct Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) pre-operational checks

GAS TURBINE (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Conduct preventive maintenance on Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E4	CORE	Conduct preventive maintenance on Gas Turbine Generator (GTG)
E5	CORE	Conduct preventive maintenance on Gas Turbine Main (GTM)
E4	CORE	Inspect gas turbine module
E4	CORE	Inspect shock mounts (i.e., Gas Turbine Main (GTM), Gas Turbine Generator (GTG))
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Repair Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E5	CORE	Repair Gas Turbine Generator (GTG)
E5	CORE	Repair Gas Turbine Main (GTM)
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) assembly components
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) base enclosures
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) fuel systems
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) inlet and exhaust systems

GAS TURBINE (CONT'D)

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) Lube Oil (LO) system components
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) mechanical linkages
E4	CORE	Troubleshoot Gas Turbine Engine (GTE) (Gas Turbine Main (GTM)/Gas Turbine Generator (GTG)) water wash systems
E5	CORE	Troubleshoot Gas Turbine Main (GTM)

MAIN PROPULSION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Align Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Align High Pressure (HP) start air systems
E4	CORE	Align jacking or turning gears
E4	CORE	Align Lube Oil (LO) purifiers
E4	CORE	Align main Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E4	NON-CORE	Calibrate fuel pump logics
E4	NON-CORE	Calibrate Lube Oil (LO) pump logics
E4	CORE	Conduct main engine room console operations (e.g., Shaft Control Unit (SCU)/ Universal Control Console (UCC)/Propulsion Local Control Console (PLCC) Operations, etc.)
E4	CORE	Conduct preventive maintenance on Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Conduct preventive maintenance on Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Conduct preventive maintenance on Gas Turbine Main (GTM) power turbine brakes
E5	CORE	Conduct preventive maintenance on jacking or turning gears
E4	CORE	Conduct preventive maintenance on Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Conduct preventive maintenance on Main Reduction Gear (MRG)
E5	CORE	Conduct preventive maintenance on shafting/bearing components
E4	CORE	Fabricate sealing gaskets
E5	CORE	Repair Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Repair Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E4	CORE	Repair Gas Turbine Main (GTM) power turbine brakes
E5	CORE	Repair jacking or turning gears
E4	CORE	Repair Lube Oil (LO) purifiers

MAIN PROPULSION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Repair Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Repair Main Reduction Gear (MRG) external components
E5	CORE	Troubleshoot Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Troubleshoot Fuel Oil (FO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Troubleshoot Gas Turbine Main (GTM) power turbine brakes
E5	CORE	Troubleshoot jacking or turning gears
E4	CORE	Troubleshoot Lube Oil (LO) purifiers
E4	CORE	Troubleshoot Lube Oil (LO) service system components (e.g., filters, pumps, valves, etc.)
E5	CORE	Troubleshoot Main Reduction Gear (MRG)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Annotate operating equipment logs
E5	CORE	Prepare engineering Quality Assurance (QA) packages
E5	CORE	Prepare engineering Quality Assurance (QA) repair forms
E4	CORE	Record dry bulb temperature readings
E4	CORE	Record operating equipment logs
E4	CORE	Update fuel and water reports
E4	CORE	Update fuel logs
E4	CORE	Update Lube Oil (LO) logs
E4	CORE	Validate Engineering Operational Sequencing System (EOSS) publications changes