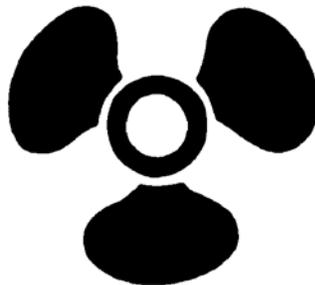


# CHAPTER 51



## MACHINIST'S MATE (MM)

NAVPERS 18068-51G

**CH-67**

Updated: July 2016

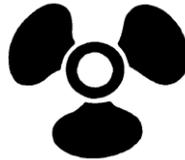
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

MACHINIST'S MATE (MM)



SCOPE OF RATING

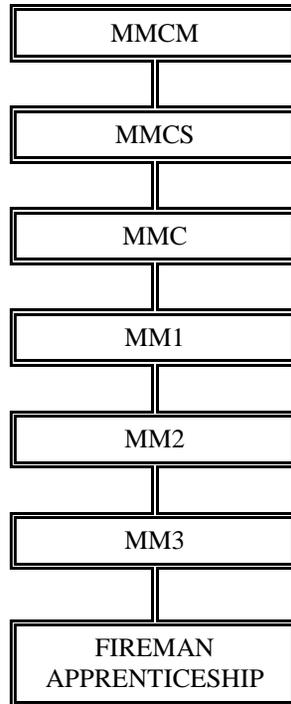
Machinist's Mates (MM) operate, maintain, and repair (organizational and intermediate level) ship propulsion machinery, auxiliary equipment, and outside machinery, such as: steering engine, hoisting machinery, food preparation equipment, refrigeration and air conditioning equipment, windlasses, elevators, and laundry equipment; operate and maintain (organizational and intermediate level) marine boilers, pumps, forced draft blowers, and heat exchangers; perform tests, transfers, and inventory of lubricating oils, fuels, and water; maintain records and reports; and generate and stow industrial gases.

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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) in Chapter 51.

## 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**

**Steam Plant Auxiliary Systems Maintainer**

**Job Code**

**003005**

**Job Family**

Production

**NOC**

TBD

**Short Title (30 Characters)**

STEAM PLANT/AUX SYS MAINTAINER

**Short Title (14 Characters)**

STEAM SYS MAIN

**Pay Plan**

Enlisted

**Career Field**

MM

**Other Relationships and Rules**

Not applicable, based upon the NEC assigned to the job (if any).

**Job Description**

Steam Plant Auxiliary Systems Maintainers operate and maintain steam turbines and reduction gears used for ship propulsion and auxiliary machinery such as turbo-generators, pumps, and oil purifiers; maintain auxiliary machinery outside of main machinery spaces, such as electro-hydraulic steering engines and elevators, refrigeration plants, air conditioning systems, desalinization plants (distilling plants), and compressed gas producing plants; align piping systems for oil, water, air, and steam; control the operation of ship boilers and steam turbines used for ship propulsion and service systems; control operation of turbo-generators used to produce electrical power; clean, adjust, test, and perform other preventive maintenance on the ship's boilers, main engines, turbo-generators and other auxiliary machinery including steering engines, elevators, winches, pumps, and associated valves; operate and maintain desalinization plants; maintain refrigeration plants, air conditioning systems, and galley equipment; repair or replacing valves, pumps, heat exchangers, compressors, steam turbines, and hydraulic or pneumatic control devices; and make entries in and analyze machinery operating records and reports. Maintainers work under the supervision of a mentor while learning a trade or skill.

**DoD Relationship**

Group Title

Main Propulsion

DoD Code

165100

**O\*NET Relationship**

Occupation Title

Stationary Engineers and Boiler Operators

SOC Code

51-8021.00

Job Family

Production

**Skills**

- Equipment Maintenance*
- Operation Monitoring*
- Management of Material Resources*
- Operation and Control*
- Equipment Selection*
- Systems Evaluation*
- Troubleshooting*
- Quality Control Analysis*
- Repairing*
- Systems Analysis*

**Abilities**

- Manual Dexterity*
- Multi-limb Coordination*
- Problem Sensitivity*
- Selective Attention*
- Visualization*
- Rate Control*
- Arm-Hand Steadiness*
- Information Ordering*
- Response Orientation*
- Written Expression*

**LABORATORY MANAGEMENT**

**Paygrade**

**Task Type**

**Task Statements**

- |    |      |  |
|----|------|--|
| E4 | CORE | Align bilge and stripping pumps                |
| E4 | CORE | Align oil and water separator systems          |
| E4 | CORE | Align oily waste water systems                 |
| E4 | CORE | Draw fluid samples                             |
| E4 | CORE | Inventory oil lab test equipment and chemicals |
| E4 | CORE | Maintain Fuel Oil (FO) transfer systems        |
| E4 | CORE | Prepare reagents and chemicals                 |
| E4 | CORE | Test Fuel Oil (FO) and Lube Oil (LO)           |

**MECHANICAL SYSTEMS MAINTENANCE**

**Paygrade**

**Task Type**

**Task Statements**

- |    |      |   |
|----|------|---|
| E4 | CORE | Align air compressors                         |
| E5 | CORE | Align boilers to steam blanket layup          |
| E4 | CORE | Clean auxiliary machinery Lube Oil (LO) sumps |
| E4 | CORE | Clean Forced Draft Blower (FDB) components    |

## MECHANICAL SYSTEMS MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Fabricate sealing gaskets
E4	CORE	Maintain air casings
E4	CORE	Maintain air conditioning systems
E4	CORE	Maintain air dryer systems
E4	CORE	Maintain air ejector systems
E4	CORE	Maintain air register assemblies
E4	CORE	Maintain anchor windlasses
E5	CORE	Maintain auxiliary boilers
E4	CORE	Maintain auxiliary cooling water systems
E5	CORE	Maintain auxiliary steam systems
E4	CORE	Maintain bilge and tank stripping systems
E4	CORE	Maintain boat davits
E4	CORE	Maintain boiler firesides
E4	CORE	Maintain boiler fronts
E5	CORE	Maintain boiler internal fittings
E4	CORE	Maintain boiler sliding feet
E4	CORE	Maintain boiler sprayer plates
E5	CORE	Maintain boiler watersides
E4	CORE	Maintain bow and stern ramp and door machinery
E4	CORE	Maintain burner Safety Shut-off Devices (SSD)
E4	CORE	Maintain compressed air systems
E4	CORE	Maintain condensate systems
E4	CORE	Maintain conveyor systems
E4	CORE	Maintain crane equipment
E5	CORE	Maintain diaphragm control valves
E4	CORE	Maintain distillate transfer systems
E4	CORE	Maintain distilling plants
E4	CORE	Maintain dumbwaiter equipment
E4	CORE	Maintain elevator systems
E4	CORE	Maintain emergency shutdown devices
E4	CORE	Maintain engine air systems
E4	CORE	Maintain flange shields
E4	CORE	Maintain Forced Draft Blower (FDB) equipment
E4	CORE	Maintain fresh water drain systems
E4	CORE	Maintain gland seals
E4	CORE	Maintain heat exchangers
E4	CORE	Maintain heating systems
E4	CORE	Maintain hydraulic cargo hatch covers
E4	CORE	Maintain hydraulic systems

## MECHANICAL SYSTEMS MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain hydrostatic test pumps
E4	CORE	Maintain jacking gears
E4	CORE	Maintain Low Pressure (LP) steam drain systems
E4	CORE	Maintain Lube Oil (LO) transfer systems
E5	CORE	Maintain machinery speed limiting devices
E4	CORE	Maintain main drain systems
E4	CORE	Maintain main Lube Oil (LO) systems
E4	CORE	Maintain manhole and hand-hole seat gaskets
E4	CORE	Maintain mechanical and hydraulic steering gear systems
E4	CORE	Maintain monorail equipment
E5	CORE	Maintain oil purification systems
E4	CORE	Maintain piping systems
E4	CORE	Maintain potable water brominators
E4	CORE	Maintain potable water systems
E4	CORE	Maintain potable water tanks
E4	CORE	Maintain reducing stations
E4	NON-CORE	Maintain refrigerant recovery units
E4	CORE	Maintain secondary drain systems
E4	CORE	Maintain ships whistles
E5	CORE	Maintain soot blowers
E4	CORE	Maintain steering gear system components
E4	CORE	Maintain stern tube components
E4	CORE	Maintain system pumps
E4	CORE	Maintain system valves
E4	CORE	Maintain water heaters
E4	CORE	Maintain winch equipment
E5	CORE	Remove Forced Draft Blower (FDB) components
E4	CORE	Repair galley equipment components
E4	CORE	Repair scullery equipment components
E6	CORE	Repair Ships Service Turbine Generators (SSTG) components
E4	CORE	Replace flexible couplings
E4	CORE	Troubleshoot galley equipment
E4	CORE	Troubleshoot laundry equipment
E5	CORE	Troubleshoot machinery speed limiting devices
E4	CORE	Troubleshoot mess deck equipment
E4	CORE	Troubleshoot reducing stations
E4	CORE	Troubleshoot scullery equipment
E5	CORE	Troubleshoot Ships Service Turbine Generators (SSTG)
E4	CORE	Troubleshoot water heaters

## MECHANICAL SYSTEMS MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot winch equipment

## MECHANICAL SYSTEMS OPERATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align air conditioning systems
E4	CORE	Align air dryer systems
E4	CORE	Align air ejector systems
E4	CORE	Align air systems
E4	CORE	Align ameroyal injection systems
E4	CORE	Align auxiliary boilers
E4	CORE	Align auxiliary cooling water systems
E4	CORE	Align auxiliary exhaust systems
E4	CORE	Align auxiliary seawater circulating systems
E4	CORE	Align auxiliary steam systems
E4	CORE	Align ballasting and de-ballasting systems
E4	CORE	Align blowdown systems
E4	CORE	Align Chill Water (CW) systems
E4	CORE	Align condensate pumps
E4	CORE	Align distillate transfer systems
E4	CORE	Align distilling plants
E4	CORE	Align feed booster pumps
E4	CORE	Align fire and flushing pumps
E4	CORE	Align firemain systems
E4	CORE	Align Fresh Water Drain Collecting Tank (FWDCT) pumps
E4	CORE	Align Fuel Oil (FO) and Lube Oil (LO) service systems
E4	CORE	Align heating systems
E4	CORE	Align jacking gears
E4	CORE	Align Low Pressure (LP) steam drain systems
E4	CORE	Align main drain systems
E4	CORE	Align main feed systems
E4	CORE	Align oil service pumps
E4	CORE	Align potable water brominators
E4	CORE	Align potable water pumps
E4	CORE	Align potable water systems
E4	CORE	Align reducing stations
E4	NON-CORE	Align refrigerant recovery units
E4	CORE	Align refrigeration systems
E4	CORE	Align reserve feedwater systems
E4	CORE	Align seawater service strainers
E4	CORE	Align secondary drain systems

### MECHANICAL SYSTEMS OPERATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align shore steam systems
E4	CORE	Align steering gear systems
E4	CORE	Align stripping systems
E4	CORE	Align ventilation systems
E5	CORE	Equalize boiler loads
E5	CORE	Place boiler in manual mode
E5	CORE	Place boiler in remote mode
E4	CORE	Prepare continuous treatment solutions
E4	CORE	Test Forced Draft Blowers (FDB)
E5	CORE	Test stern tubes

### POLLUTION CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Clean Hazardous Material (HAZMAT) containers
E5	CORE	Conduct spill containments and clean ups
E4	CORE	Dispose of Hazardous Material (HAZMAT)
E5	NON-CORE	Inspect Hazardous Material (HAZMAT) containers
E6	CORE	Inspect Hazardous Material (HAZMAT) storage areas
E4	NON-CORE	Store Hazardous Materials (HAZMAT)

### TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Prepare fuel, oil, and water reports
E5	CORE	Prepare Quality Assurance (QA) repair forms

**Job Title****Steam Plant Auxiliary Systems Technician****Job Code****003177****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

STEAM PLANT/AUX SYS TECHNICIAN

**Short Title (14 Characters)**

STEAM SYS TECH

**Pay Plan**

Enlisted

**Career Field**

MM

**Other Relationships and Rules**

Not applicable, based upon the NEC assigned to the job (if any).

**Job Description**

Steam Plant Auxiliary Systems Technicians operate and maintain steam turbines and reduction gears used for ship propulsion and auxiliary machinery, such as turbo-generators, pumps, and oil purifiers; maintain auxiliary machinery outside of main machinery spaces, such as electro-hydraulic steering engines and elevators, refrigeration plants, air conditioning systems, desalinization plants (distilling plants), and compressed gas producing plants; align piping systems for oil, water, air, and steam; control the operation of ship boilers and steam turbines used for ship propulsion and service systems; control operation of turbo-generators used to produce electrical power; clean, adjust, test, and perform other preventive maintenance on a ship's boilers, main engines, turbo-generators, and other auxiliary machinery including steering engines, elevators, winches, pumps and associated valves; operate and maintain desalinization plants; maintain refrigeration plants, air conditioning systems, and galley equipment; repair or replace valves, pumps, heat exchangers, compressors, steam turbines, and hydraulic or pneumatic control devices; and make entries in and analyze machinery operating records and reports. Technicians are expected to perform work independently and mentor Steam Plant Auxiliary Systems Maintainers with very limited supervision.

**DoD Relationship****Group Title**

Main Propulsion

**DoD Code**

165100

**O\*NET Relationship****Occupation Title**Maintenance and Repair Workers,  
General**SOC Code**

49-9071.00

**Job Family**Installation, Maintenance, and  
Repair**Skills***Equipment Maintenance**Operation Monitoring**Equipment Selection**Operation and Control**Management of Material Resources**Quality Control Analysis**Systems Evaluation**Writing**Coordination**Mathematics***Abilities***Manual Dexterity**Multi-limb Coordination**Problem Sensitivity**Selective Attention**Written Expression**Information Ordering**Visualization**Flexibility of Closure**Perceptual Speed**Rate Control***ENGINEERING MANAGEMENT****Paygrade**

E6

**Task Type**

CORE

**Task Statements**

Conduct boiler structural inspections

E6

CORE

Inspect Forced Draft Blower (FDB) components

**LABORATORY MANAGEMENT****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Align oily waste water systems

E4

CORE

Conduct salinity and conductivity indicator comparison tests

E6

CORE

Estimate fuel, oil, and water requirements

E5

CORE

Inspect fluid samples

E4

CORE

Test feedwater

**MECHANICAL SYSTEMS MAINTENANCE****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Align boilers to steam blanket layup

E4

CORE

Clean auxiliary machinery Lube Oil (LO) sumps

E4

CORE

Maintain air conditioning systems

## MECHANICAL SYSTEMS MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain air dryer systems
E4	CORE	Maintain air ejector systems
E5	CORE	Maintain auxiliary boilers
E4	CORE	Maintain auxiliary cooling water systems
E5	CORE	Maintain auxiliary steam systems
E4	CORE	Maintain bilge and tank stripping systems
E4	CORE	Maintain boat davits
E4	CORE	Maintain boiler firesides
E5	CORE	Maintain boiler watersides
E4	CORE	Maintain bow and stern ramp and door machinery
E4	CORE	Maintain capstan equipment
E5	CORE	Maintain Deaerating Feedwater Tanks (DFT)
E4	CORE	Maintain dumbwaiter equipment
E4	CORE	Maintain elevator systems
E4	CORE	Maintain engine air systems
E4	CORE	Maintain flange shields
E4	CORE	Maintain fresh water drain systems
E4	CORE	Maintain heating systems
E4	CORE	Maintain hydraulic cargo hatch covers
E4	CORE	Maintain Low Pressure (LP) steam drain systems
E4	CORE	Maintain main drain systems
E4	CORE	Maintain monorail equipment
E5	CORE	Maintain Oxygen/Nitrogen (O2N2) systems
E5	CORE	Maintain safety valves
E5	CORE	Maintain Ships Service Turbine Generators (SSTG)
E4	CORE	Maintain steam smothering systems
E4	CORE	Replace flexible couplings
E5	CORE	Troubleshoot Forced Draft Blowers (FDB)

## MECHANICAL SYSTEMS OPERATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align air ejector systems
E4	CORE	Align ameroyal injection systems
E4	CORE	Align auxiliary boilers
E4	CORE	Align auxiliary cooling water systems
E4	CORE	Align auxiliary seawater circulating systems
E4	CORE	Align distillate transfer systems
E4	CORE	Align distilling plants
E4	CORE	Align firemain systems
E4	CORE	Align Fuel Oil (FO) and Lube Oil (LO) service system

### MECHANICAL SYSTEMS OPERATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align heating systems
E5	CORE	Align main boilers
E5	CORE	Align Oxygen/Nitrogen (O2N2) systems
E4	CORE	Align reserve feedwater systems
E4	CORE	Align seawater service strainers
E4	CORE	Align secondary drain systems
E4	CORE	Align steering gear systems
E4	CORE	Align stripping systems
E5	CORE	Equalize boiler loads
E5	CORE	Place boiler in manual mode
E5	CORE	Place boiler in remote mode
E5	CORE	Split boiler loads

### POLLUTION CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Clean Hazardous Material (HAZMAT) containers
E5	CORE	Conduct spill containments and clean ups
E5	NON-CORE	Inspect Hazardous Material (HAZMAT) containers
E6	CORE	Inspect Hazardous Material (HAZMAT) storage areas

### TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Prepare fuel, oil, and water reports
E5	CORE	Prepare Quality Assurance (QA) repair forms
E6	CORE	Review Quality Assurance (QA) repair forms
E5	CORE	Update equipment calibration schedules
E5	CORE	Update Quality Assurance (QA) repair forms

**Job Title****Steam Plant Auxiliary Systems Manager****Job Code****003651****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

STEAM PLANT/AUX SYS MANAGER

**Short Title (14 Characters)**

STEAM SYS MGR

**Pay Plan**

Enlisted

**Career Field**

MM

**Other Relationships and Rules**

Not applicable, based upon the NEC assigned to the job (if any).

**Job Description**

Steam Plant Auxiliary Systems Managers operate and maintain steam turbines and reduction gears used for ship propulsion and auxiliary machinery, such as turbo-generators, pumps, and oil purifiers; maintain auxiliary machinery outside of main machinery spaces, such as electro-hydraulic steering engines and elevators, refrigeration plants, air conditioning systems, desalinization plants (distilling plants), and compressed gas producing plants; align piping systems for oil, water, air, and steam; control the operation of ship boilers and steam turbines used for ship propulsion and service systems; control operation of turbo-generators used to produce electrical power; clean, adjust, test, and perform other preventive maintenance on a ship's boilers, main engines, turbo-generators and other auxiliary machinery including steering engines, elevators, winches, pumps, and associated valves; operate and maintain desalinization plants; maintain refrigeration plants, air conditioning systems, and galley equipment; repair or replace valves, pumps, heat exchangers, compressors, steam turbines, and hydraulic or pneumatic control devices; and make entries in and analyze machinery operating records and reports. These managers have mastered a trade or skill and are qualified to mentor Steam Plant Auxiliary Systems Technicians and Steam Plant Auxiliary Systems Maintainers and carry on the craft independently.

**DoD Relationship**

<i>Group Title</i>	<i>DoD Code</i>
Main Propulsion	165100

**O\*NET Relationship**

<i>Occupation Title</i>	<i>SOC Code</i>
First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	49-1011.00

<i>Job Family</i>
Installation, Maintenance, and Repair

**Skills**

Quality Control Analysis  
 Management of Material Resources  
 Equipment Maintenance  
 Operation Monitoring  
 Monitoring  
 Operation and Control  
 Reading Comprehension  
 Systems Analysis  
 Systems Evaluation  
 Writing

**Abilities**

Multi-limb Coordination  
 Problem Sensitivity  
 Written Expression  
 Manual Dexterity  
 Selective Attention  
 Written Comprehension  
 Information Ordering  
 Flexibility of Closure  
 Visualization  
 Deductive Reasoning

**ENGINEERING MANAGEMENT**

<b>Paygrade</b>	<b>Task Type</b>	<b>Task Statements</b>
E6	CORE	Conduct boiler structural inspections
E6	CORE	Conduct preliminary boiler closeout inspections
E7	CORE	Conduct preliminary Main Reduction Gear (MRG) closeout and bearing inspections
E7	CORE	Coordinate boiler flexibility tests
E6	CORE	Coordinate full power and economy trials
E6	CORE	Coordinate propulsion plant operations
E7	CORE	Evaluate engineering management programs
E6	CORE	Evaluate equipment capabilities and performances
E7	CORE	Inspect boiler firesides
E7	CORE	Inspect boiler watersides
E7	NON-CORE	Review Boiler Inspection and Repair Management Information Systems (BIRMIS)
E6	CORE	Verify ships systems technical drawings
E7	CORE	Verify ships trial reports

### LABORATORY MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Align transfer systems for receiving fuels

### MECHANICAL SYSTEMS MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Align boilers to steam blanket layup
E4	CORE	Maintain air conditioning systems
E4	CORE	Maintain boiler firesides
E5	CORE	Maintain boiler watersides
E4	CORE	Maintain Feedwater Control (FWC)
E4	CORE	Maintain refrigeration systems

### MECHANICAL SYSTEMS OPERATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align auxiliary boilers
E5	CORE	Equalize boiler loads
E5	CORE	Place boiler in manual mode
E5	CORE	Place boiler in remote mode

### POLLUTION CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Clean Hazardous Material (HAZMAT) containers
E5	CORE	Conduct spill containments and clean ups
E7	CORE	Coordinate spill containments and clean ups
E5	NON-CORE	Inspect Hazardous Material (HAZMAT) containers
E6	CORE	Inspect Hazardous Material (HAZMAT) storage areas
E5	NON-CORE	Review Hazardous Material (HAZMAT) inventories

### TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve Quality Assurance (QA) repair forms
E4	CORE	Prepare fuel, oil, and water reports
E5	CORE	Prepare Quality Assurance (QA) repair forms
E6	CORE	Review Quality Assurance (QA) repair forms
E5	CORE	Update Quality Assurance (QA) repair forms
E6	CORE	Validate Engineering Operational Sequencing System (EOSS) manuals