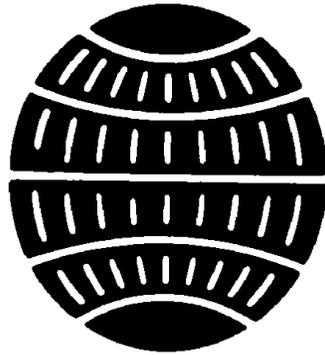


CHAPTER 29



ELECTRICIAN'S MATE (EM)

NAVPERS 18068-29G
CH-70

Updated: April 2017

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NAVY ENLISTED OCCUPATIONAL STANDARDS

FOR

ELECTRICIAN'S MATE, NUCLEAR POWER (EMN)



SCOPE OF RATING

Electrician's Mates, Nuclear Power (EMN) operate and control generators, switchboards, control equipment, and electrical equipment associated with reactor plants; operate and perform organizational and intermediate maintenance on power and lighting circuits, electrical fixtures, motors, generators, voltage and frequency regulators, controllers, distribution switchboards, and other electrical equipment; test for short circuits, grounds or other casualties; and repair and/or rebuild electrical equipment, including solid state circuitry elements.

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 29.

Job Title**Submarine Propulsion Plant Electrical Operator****Job Code****003777****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT OP

Short Title (14 Characters)

SS PPE OP

Pay Plan

Enlisted

Career Field

EMN

Other Relationships and Rules

NECs 3354, 3359

Job Description

Submarine Propulsion Plant Electrical Operators perform operations and basic preventative and corrective maintenance on electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment; supervise shutdown reactor plant operations; perform nuclear reactor, steam plant, and auxiliary equipment operations; and perform work critical to the movement of naval tactical and strategic forces.

DoD Relationship**Group Title**

Nuclear Power

DoD Code

166100

O*NET Relationship**Occupation Title**

Nuclear Power Reactor Operators

SOC Code

51-8011.00

Job Family

Production

Skills*Quality Control Analysis**Operation Monitoring**Equipment Maintenance**Equipment Selection**Management of Material Resources**Complex Problem Solving**Repairing**Systems Evaluation**Troubleshooting**Operation and Control***Abilities***Near Vision**Problem Sensitivity**Finger Dexterity**Manual Dexterity**Deductive Reasoning**Fluency of Ideas**Arm-Hand Steadiness**Written Comprehension**Control Precision**Trunk Strength***CASUALTY CONTROL****Paygrade**

E4

Task Type

CORE

Task Statements

Correct battery abnormalities (e.g. high temperature, high voltage, loss of ventilation, etc.)

E4

CORE

Isolate damaged electrical equipment

E4

CORE

Perform corrective actions to combat reactor plant casualties

CIRCUIT BREAKERS**Paygrade**

E5

Task Type

CORE

Task Statements

Adjust circuit breaker operating mechanisms

E4

CORE

Clean circuit breaker contact surfaces and operating mechanisms

E5

CORE

Inspect circuit breakers (e.g. auxiliary contacts, contact surfaces, operating mechanisms, wiring, connections, etc.)

E5

CORE

Repair circuit breakers

E5

CORE

Test circuit breakers and circuit breaker operating mechanisms

ELECTRICAL CONTROL EQUIPMENT**Paygrade**

E4

Task Type

CORE

Task Statements

Adjust control panel components (e.g. interlocks, operating mechanisms, operating or alarm set points and limits, etc.)

E5

CORE

Adjust hotwell level control system set points

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Adjust motor controllers (e.g. operating set points and limits, standby features, etc.)
E4	CORE	Adjust salinity indicating system set points
E4	CORE	Adjust temperature monitoring system set points
E4	CORE	Analyze main engine pressure and temperature parameter trends
E4	CORE	Analyze salinity system data
E4	CORE	Clean electrical panel components and interiors (e.g. alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Clean electrically-operated valve components
E4	CORE	Clean electrostatic precipitators
E4	CORE	Clean galley equipment electrical components
E4	CORE	Clean hotwell level control system components
E4	CORE	Clean laundry equipment
E4	CORE	Clean lighting system components
E4	CORE	Clean motor controllers (e.g. contactor, wiring, relays, etc.)
E4	CORE	Clean Programmable Logic Controllers (PLC)
E4	CORE	Clean salinity cells and indicating panels
E4	CORE	Clean shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Clean temperature monitoring panels
E4	CORE	Collect machinery and hull vibration data
E4	CORE	Inspect control panels (e.g. operating mechanisms, panel wiring, connections, etc.)
E4	CORE	Inspect electrically-operated valve components
E4	CORE	Inspect electrostatic precipitators
E4	CORE	Inspect galley equipment electrical components
E4	CORE	Inspect hotwell level control systems
E4	CORE	Inspect laundry equipment
E4	CORE	Inspect lighting system components
E4	CORE	Inspect motor controllers (e.g. contactor, wiring, relays, etc.)
E4	CORE	Inspect Programmable Logic Controllers (PLC)
E4	CORE	Inspect salinity indicating systems
E4	CORE	Inspect shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Inspect temperature monitoring systems
E4	CORE	Perform main engine throttle operations
E5	CORE	Repair electrically-operated valve components
E4	CORE	Repair electrostatic precipitators
E4	CORE	Repair galley equipment
E5	CORE	Repair hotwell level control systems

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Repair laundry equipment
E4	CORE	Repair lighting system components
E4	CORE	Repair motor controllers (e.g. contactor, wiring, relays, etc.)
E5	CORE	Repair salinity indicating systems
E4	CORE	Repair shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E5	CORE	Repair temperature monitoring systems
E5	CORE	Replace Programmable Logic Controllers (PLC)
E5	CORE	Test control panels (e.g. alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Test electrically-operated valve components
E4	CORE	Test electrostatic precipitators
E5	CORE	Test hotwell level control systems
E4	CORE	Test laundry equipment
E4	CORE	Test lighting system components
E4	CORE	Test Programmable Logic Controllers (PLC)
E4	CORE	Test salinity indicating systems
E4	CORE	Test shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Test temperature monitoring systems
E4	CORE	Troubleshoot electrically-operated valve components
E4	CORE	Troubleshoot electrostatic precipitators
E4	CORE	Troubleshoot galley equipment
E5	CORE	Troubleshoot hotwell level control systems
E4	CORE	Troubleshoot laundry equipment
E4	CORE	Troubleshoot lighting system components
E4	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E4	CORE	Troubleshoot salinity indicating systems
E5	CORE	Troubleshoot shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E5	CORE	Troubleshoot temperature monitoring systems

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean grounding straps
E4	CORE	Conduct shore power ground checks
E4	CORE	Disconnect shore power cables
E4	CORE	Inspect grounding straps
E4	CORE	Inspect shore power cables
E4	CORE	Install permanent cables

ELECTRICAL INSTALLATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Install shore power cables
E4	CORE	Replace grounding straps
E4	CORE	Solder electrical connections
E4	CORE	Test grounding straps
E4	CORE	Test shore power cables

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Align brush rigging heights
E4	CORE	Clean Direct Current (DC) generator and motor components
E4	CORE	Clean generator governor electrical components
E4	CORE	Inspect brush rigging assemblies
E4	CORE	Inspect Direct Current (DC) generator and motor components
E5	CORE	Inspect generator governor electrical components
E4	CORE	Perform Alternating Current (AC) generator maintenance
E4	CORE	Perform motor generator maintenance
E5	CORE	Repair Alternating Current (AC) generators
E5	CORE	Repair Alternating Current (AC) motor components
E5	CORE	Repair Direct Current (DC) generator and motor components
E5	CORE	Repair generator governor electrical components
E5	CORE	Repair motor generators
E4	CORE	Set brush spring tensions
E4	CORE	Supply propulsion using Emergency Propulsion Motor (EPM) (e.g. shift propulsion, start EPM electrically, etc.)
E4	CORE	Supply propulsion using Secondary Propulsion Motor (SPM)
E4	CORE	Test Alternating Current (AC) generators
E4	CORE	Test Alternating Current (AC) motor components
E4	CORE	Test emergency propulsion systems
E5	CORE	Test generator governor electrical components
E4	CORE	Test motor generators
E5	CORE	Troubleshoot Alternating Current (AC) motor components
E5	CORE	Troubleshoot Direct Current (DC) generator and motor components
E5	CORE	Troubleshoot generator governor electrical components
E5	CORE	Troubleshoot motor generators

POWER DISTRIBUTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze shutdown electric plant trends
E4	CORE	Clean Arc Fault Detector (AFD) components

POWER DISTRIBUTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Clean circuit breaker cabinets
E4	CORE	Clean switchboard components and interiors
E4	CORE	Conduct routine battery operations (e.g. normal charge, equalizing charge, test discharge, etc.)
E5	CORE	Conduct switchboard testing
E4	CORE	Inspect Arc Fault Detector (AFD) components
E4	CORE	Inspect bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Inspect switchboard components
E5	CORE	Install submarine battery cell jumpers
E4	CORE	Maintain submarine batteries (e.g. cleaning, filling, testing, etc.)
E4	CORE	Perform casualty power system operations
E5	CORE	Repair Arc Fault Detector (AFD) components
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g. Electric Plant Control Panel (EPCP), Emergency Switchboard Local Control Station (ESLCS), etc.)
E5	CORE	Test Arc Fault Detector (AFD) components
E5	CORE	Test bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Test coolant pump switchgear
E5	CORE	Troubleshoot Arc Fault Detector (AFD) components
E5	CORE	Troubleshoot bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Troubleshoot submarine battery and support systems faults
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze shutdown reactor plant trends
E5	NON-CORE	Calibrate electrical meters
E4	CORE	Grant access to Radiological Controlled Areas (RCA)
E5	CORE	Inspect discharge boundary valves positions
E4	CORE	Line up reactor plant valves
E4	CORE	Maintain Radiological Controlled Area (RCA) records
E4	CORE	Survey Radiological Controlled Areas (RCA)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Complete remote operability of key reactor plant valves checklists
E5	CORE	Record submarine battery performance data
E4	CORE	Tag out reactor plant components (e.g. instrumentation and control, mechanical, and electrical system, etc.)

Job Title**Surface Propulsion Plant Electrical Operator****Job Code****003778****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

SUR PROPULSION PLANT ELECT OP

Short Title (14 Characters)

SW PPE OP

Pay Plan

Enlisted

Career Field

EMN

Other Relationships and Rules

NECs 3384, 3389

Job Description

Surface Propulsion Plant Electrical Operators perform operations and basic preventative and corrective maintenance of electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment; supervise shutdown reactor plant operations; perform nuclear reactor, steam plant, and auxiliary equipment operations; and perform other critical work functions for movement of naval tactical forces.

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

Nuclear Power

DoD Code

166100

Occupation Title

Nuclear Power Reactor Operators

SOC Code

51-8011.00

Job Family

Production

Skills*Quality Control Analysis**Operation Monitoring**Equipment Maintenance**Equipment Selection**Management of Material Resources**Repairing**Complex Problem Solving**Systems Evaluation**Troubleshooting**Judgment and Decision Making***Abilities***Near Vision**Finger Dexterity**Problem Sensitivity**Manual Dexterity**Deductive Reasoning**Fluency of Ideas**Arm-Hand Steadiness**Written Comprehension**Information Ordering**Trunk Strength***CASUALTY CONTROL****Paygrade**

E4

Task Type

CORE

Task Statements

Isolate damaged electrical equipment

E4

CORE

Perform corrective actions to combat reactor plant casualties

CIRCUIT BREAKERS**Paygrade**

E5

Task Type

CORE

Task Statements

Adjust circuit breaker operating mechanisms

E4

CORE

Clean circuit breaker contact surfaces and operating mechanisms

E5

CORE

Inspect circuit breakers (e.g. auxiliary contacts, contact surfaces, operating mechanisms, wiring, connections, etc.)

E5

CORE

Repair circuit breakers

E5

CORE

Test circuit breakers and circuit breaker operating mechanisms

ELECTRICAL CONTROL EQUIPMENT**Paygrade**

E4

Task Type

CORE

Task Statements

Adjust control panel components (e.g. interlocks, operating mechanisms, operating or alarm set points and limits, etc.)

E5

CORE

Adjust hotwell level control system set points

E5

CORE

Adjust motor controllers (e.g. operating set points and limits, standby features, etc.)

E4

CORE

Adjust salinity indicating system set points

E4

CORE

Adjust temperature monitoring system set points

EMN-12

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze main engine pressure and temperature parameter trends
E4	CORE	Analyze salinity system data
E4	CORE	Clean electrical panel components and interiors (e.g. alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Clean electrically-operated valve components
E4	CORE	Clean electrostatic precipitators
E4	CORE	Clean hotwell level control system components
E4	CORE	Clean Interior Communications (IC) systems
E4	CORE	Clean lighting system components
E4	CORE	Clean motor controllers (e.g. contactor, wiring, relays, etc.)
E4	CORE	Clean Programmable Logic Controllers (PLC)
E4	CORE	Clean salinity cells and indicating panels
E4	CORE	Clean shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Clean temperature monitoring panels
E4	CORE	Clean throttle control electrical systems
E4	CORE	Collect machinery and hull vibration data
E4	CORE	Inspect control panels (e.g. operating mechanisms, panel wiring, connections, etc.)
E4	CORE	Inspect electrically-operated valve components
E4	CORE	Inspect electrostatic precipitators
E4	CORE	Inspect hotwell level control systems
E4	CORE	Inspect lighting system components
E4	CORE	Inspect motor controllers (e.g. contactor, wiring, relays, etc.)
E4	CORE	Inspect Programmable Logic Controllers (PLC)
E4	CORE	Inspect salinity indicating systems
E4	CORE	Inspect shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Inspect temperature monitoring systems
E4	CORE	Perform main engine throttle operations
E5	CORE	Repair electrically-operated valve components
E4	CORE	Repair electrostatic precipitators
E5	CORE	Repair hotwell level control systems
E4	CORE	Repair Interior Communications (IC) systems
E4	CORE	Repair lighting system components
E4	CORE	Repair motor controllers (e.g. contactor, wiring, relays, etc.)
E5	CORE	Repair salinity indicating systems
E4	CORE	Repair shaft speed sensing, indication, and Engine Order Telegraph (EOT) components

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair temperature monitoring systems
E5	CORE	Repair throttle control electrical systems
E5	CORE	Replace Programmable Logic Controllers (PLC)
E5	CORE	Test control panels (e.g. alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Test electrically-operated valve components
E4	CORE	Test electrostatic precipitators
E5	CORE	Test hotwell level control systems
E4	CORE	Test lighting system components
E4	CORE	Test Programmable Logic Controllers (PLC)
E4	CORE	Test salinity indicating systems
E4	CORE	Test shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E4	CORE	Test temperature monitoring systems
E4	CORE	Test throttle control electrical systems
E4	CORE	Troubleshoot electrically-operated valve components
E4	CORE	Troubleshoot electrostatic precipitators
E5	CORE	Troubleshoot hotwell level control systems
E4	CORE	Troubleshoot Interior Communications (IC) systems
E4	CORE	Troubleshoot lighting system components
E4	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E4	CORE	Troubleshoot salinity indicating systems
E5	CORE	Troubleshoot shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E5	CORE	Troubleshoot temperature monitoring systems
E5	CORE	Troubleshoot throttle control electrical systems

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean grounding straps
E4	CORE	Conduct shore power ground checks
E4	CORE	Disconnect shore power cables
E4	CORE	Inspect grounding straps
E4	CORE	Inspect shore power cables
E4	CORE	Install permanent cables
E4	CORE	Install shore power cables
E4	CORE	Replace grounding straps
E4	CORE	Solder electrical connections
E4	CORE	Test grounding straps
E4	CORE	Test shore power cables

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Align brush rigging heights
E4	CORE	Clean generator governor electrical components
E4	CORE	Inspect brush rigging assemblies
E5	CORE	Inspect generator governor electrical components
E4	CORE	Perform Alternating Current (AC) generator maintenance
E4	CORE	Perform motor generator maintenance
E5	CORE	Repair Alternating Current (AC) generators
E5	CORE	Repair Alternating Current (AC) motor components
E5	CORE	Repair generator governor electrical components
E5	CORE	Repair motor generators
E4	CORE	Set brush spring tensions
E4	CORE	Test Alternating Current (AC) generators
E4	CORE	Test Alternating Current (AC) motor components
E5	CORE	Test generator governor electrical components
E4	CORE	Test motor generators
E5	CORE	Troubleshoot Alternating Current (AC) motor components
E5	CORE	Troubleshoot generator governor electrical components
E5	CORE	Troubleshoot motor generators

POWER DISTRIBUTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze shutdown electric plant trends
E4	CORE	Clean Arc Fault Detector (AFD) components
E4	CORE	Clean bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Clean circuit breaker cabinets
E4	CORE	Clean switchboard components and interiors
E4	CORE	Conduct high voltage maintenance (greater than 1000 Volts)
E5	CORE	Conduct switchboard testing
E4	CORE	Inspect Arc Fault Detector (AFD) components
E4	CORE	Inspect bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Inspect switchboard components
E4	CORE	Perform casualty power system operations
E5	CORE	Repair Arc Fault Detector (AFD) components
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g. Electric Plant Control Panel (EPCP), Emergency Switchboard Local Control Station (ESLCS), etc.)

POWER DISTRIBUTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Test Arc Fault Detector (AFD) components
E5	CORE	Test bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Test coolant pump switchgear
E5	CORE	Troubleshoot Arc Fault Detector (AFD) components
E5	CORE	Troubleshoot bus transfer devices (Automatic Bus Transfer (ABT), Static Automatic Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze shutdown reactor plant trends
E5	NON-CORE	Calibrate electrical meters
E4	CORE	Grant access to Radiological Controlled Areas (RCA)
E4	CORE	Line up reactor plant valves
E5	NON-CORE	Maintain Propulsion Plant Local Area Network (PPLAN) network settings
E4	CORE	Maintain Radiological Controlled Area (RCA) records
E4	CORE	Survey Radiological Controlled Areas (RCA)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Complete remote operability of key reactor plant valves checklists
E4	CORE	Tag out reactor plant components (e.g. instrumentation and control, mechanical, and electrical system, etc.)

Job Title**Submarine Propulsion Plant Electrical Supervisor****Job Code****003785****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT SUP

Short Title (14 Characters)

SS PPE SUP

Pay Plan

Enlisted

Career Field

EMN

Other Relationships and Rules

NEC 3364

Job Description

Submarine Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and basic preventative and corrective maintenance on electrical distribution systems and electrical generators; develop electrical division administrative programs; supervise operations and training; repair and maintain equipment; train forces and personnel; perform risk management; and perform work critical to the movement of naval tactical and strategic forces.

DoD RelationshipGroup Title

Nuclear Power

DoD Code

166100

O*NET RelationshipOccupation TitleFirst-line Supervisors of
Production and Operating WorkersSOC Code

51-1011.00

Job Family

Production

Skills*Complex Problem Solving**Troubleshooting**Coordination**Critical Thinking**Equipment Maintenance**Equipment Selection**Instructing**Judgment and Decision Making**Management of Personnel Resources**Monitoring***Abilities***Deductive Reasoning**Fluency of Ideas**Oral Expression**Problem Sensitivity**Finger Dexterity**Inductive Reasoning**Manual Dexterity**Near Vision**Selective Attention**Speed of Closure***CASUALTY CONTROL****Paygrade**

E6

Task Type

CORE

Task Statements

Direct shutdown watch section casualty operations

E6

CORE

Supervise casualty electrical distribution operations

CIRCUIT BREAKERS**Paygrade**

E6

Task Type

CORE

Task Statements

Troubleshoot circuit breakers (e.g. manual, remote-operated, motor-operated, etc.)

ELECTRICAL CONTROL EQUIPMENT**Paygrade**

E5

Task Type

CORE

Task Statements

Repair control panels (e.g. alarm and indicating panels, control panels, remote control stations, etc.)

E5

CORE

Test motor controllers (e.g. contactor, wiring, relays, etc.)

E5

CORE

Troubleshoot control panels and electrical components (e.g. alarm and indicating panels, control panels, remote control stations, etc.)

E5

CORE

Troubleshoot motor controllers (e.g. contactor, wiring, relays, etc.)

TECHNICAL ADMINISTRATION**Paygrade**

E6

Task Type

NON-CORE

Task Statements

Conduct key reactor plant valve remote operability training

E6

CORE

Supervise division maintenance operations (e.g. electrical, mechanical, reactor control, etc.)

Job Title**Surface Propulsion Plant Electrical Supervisor****Job Code****003786****Job Family**
Production**NOC**
TBD**Short Title (30 Characters)**
SUR PROPULSION PLANT ELECT SUP**Short Title (14 Characters)**
SW PPE SUP**Pay Plan**
Enlisted**Career Field**
EMN**Other Relationships and Rules**
NEC 3394**Job Description**

Surface Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and apply advanced level maintenance practices to electrical distribution systems and electrical generators; develop electrical division administrative programs; supervise operations and training; and perform risk management and other critical work functions for movement of naval tactical forces.

DoD Relationship**O*NET Relationship****Group Title****DoD Code****Occupation Title****SOC Code****Job Family**

Nuclear Power

166100

First-line Supervisors of Production
and Operating Workers

51-1011.00

Production

Skills*Complex Problem Solving**Troubleshooting**Coordination**Monitoring**Critical Thinking**Equipment Maintenance**Equipment Selection**Instructing**Judgment and Decision Making**Management of Personnel Resources***Abilities***Oral Expression**Deductive Reasoning**Fluency of Ideas**Problem Sensitivity**Finger Dexterity**Inductive Reasoning**Manual Dexterity**Near Vision**Selective Attention**Spatial Orientation***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E6

CORE

Direct shutdown watch section casualty operations

E6

CORE

Supervise casualty electrical distribution operations

CIRCUIT BREAKERS**Paygrade****Task Type****Task Statements**

E6

CORE

Troubleshoot circuit breakers (e.g. manual, remote-operated, motor-operated, etc.)

ELECTRICAL CONTROL EQUIPMENT**Paygrade****Task Type****Task Statements**

E5

CORE

Repair control panels (e.g. alarm and indicating panels, control panels, remote control stations, etc.)

E5

CORE

Test motor controllers (e.g. contactor, wiring, relays, etc.)

E5

CORE

Troubleshoot control panels and electrical components (e.g. alarm and indicating panels, control panels, remote control stations, etc.)

E5

CORE

Troubleshoot motor controllers (e.g. contactor, wiring, relays, etc.)

POWER DISTRIBUTION**Paygrade****Task Type****Task Statements**

E7

CORE

Supervise high voltage electrical safety work (greater than 1000 volts)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Conduct key reactor plant valve remote operability training
E6	CORE	Supervise division maintenance operations (e.g. electrical, mechanical, reactor control, etc.)

Job Title**Submarine Propulsion Plant Electrical Manager****Job Code****003793****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

SUB PROPULSION PLANT ELECT MGR

Short Title (14 Characters)

SS PPE MGR

Pay Plan

Enlisted

Career Field

EMN

Other Relationships and Rules

NECs 3364, 3359

Job Description

Submarine Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to electrical divisions and/or engineering departments; coordinate departmental electrical safety program; perform audits of divisional and/or departmental programs; repair and maintain equipment; perform risk management; and perform work critical to the movement of naval tactical and strategic forces.

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

Nuclear Power

DoD Code

166100

Occupation Title

Nuclear Power Reactor Operators

SOC Code

51-8011.00

Job Family

Production

Skills*Coordination**Monitoring**Reading Comprehension**Quality Control Analysis**Judgment and Decision Making**Management of Material Resources**Operation and Control**Speaking***Abilities***Problem Sensitivity**Selective Attention**Information Ordering**Written Comprehension**Written Expression**Category Flexibility**Deductive Reasoning**Inductive Reasoning**Visualization***REACTOR PLANT EQUIPMENT****Paygrade**

E5

Task Type

CORE

Task Statements

Control maintenance on systems affecting remote operability

E6

CORE

Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION**Paygrade**

E7

Task Type

CORE

Task Statements

Administer continuous training exams

E6

CORE

Audit division records (e.g. electrical, mechanical, etc.)

E7

CORE

Audit engineering and reactor department records

E7

CORE

Manage department drill programs

E7

CORE

Manage department training drills

E7

CORE

Manage equipment modifications (e.g. reactor, non-reactor, etc.)

E5

CORE

Plan division maintenance schedules, equipment availability, and personnel assignments

Job Title**Surface Propulsion Plant Electrical Manager****Job Code****003794****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

SUR PROPULSION PLANT ELECT MGR

Short Title (14 Characters)

SW PPE MGR

Pay Plan

Enlisted

Career Field

EMN

Other Relationships and Rules

NECs 3394, 3389

Job Description

Surface Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to electrical divisions and/or reactor departments; coordinate the departmental electrical safety program; perform audits of divisional and/or departmental programs; and perform risk management and other critical work functions for movement of naval tactical forces.

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

Nuclear Power

DoD Code

166100

Occupation Title

Nuclear Power Reactor Operators

SOC Code

51-8011.00

Job Family

Production

Skills

Coordination

Monitoring

Reading Comprehension

Judgment and Decision Making

Quality Control Analysis

Management of Material Resources

Operation and Control

Speaking

Systems Evaluation

Abilities

Problem Sensitivity

Selective Attention

Deductive Reasoning

Information Ordering

Written Comprehension

Written Expression

Category Flexibility

Inductive Reasoning

Visualization

REACTOR PLANT EQUIPMENT**Paygrade**

E5

Task Type

CORE

Task Statements

Control maintenance on systems affecting remote operability

E6

CORE

Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION**Paygrade**

E7

Task Type

CORE

Task Statements

Administer continuous training exams

E6

CORE

Analyze machinery vibration data

E6

CORE

Audit division records (e.g. electrical, mechanical, etc.)

E7

CORE

Audit engineering and reactor department records

E7

CORE

Manage department drill programs

E7

CORE

Manage department training drills

E7

CORE

Manage equipment modifications (e.g. reactor, non-reactor, etc.)

E5

CORE

Plan division maintenance schedules, equipment availability, and personnel assignments