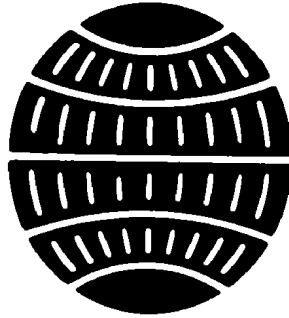


CHAPTER 29



ELECTRICIANS MATE, NUCLEAR POWER (EMN)

NAVPERS 18068F-29I
Change 107

Updated: July 2026

TABLE OF CONTENTS
ELECTRICIANS MATE, NUCLEAR POWER (EMN)

SCOPE OF RATING	EMN-4
GENERAL INFORMATION	EMN-5
SUBMARINE PROPULSION PLANT ELECTRICAL OPERATOR	EMN-6
CASUALTY CONTROL	EMN-6
CIRCUIT BREAKERS	EMN-6
ELECTRICAL CONTROL EQUIPMENT	EMN-7
ELECTRICAL INSTALLATIONS	EMN-10
MOTORS AND GENERATORS	EMN-10
POWER DISTRIBUTION	EMN-11
REACTOR PLANT EQUIPMENT	EMN-12
TECHNICAL ADMINISTRATION	EMN-12
SURFACE PROPULSION PLANT ELECTRICAL OPERATOR	EMN-14
CASUALTY CONTROL	EMN-14
CIRCUIT BREAKERS	EMN-14
ELECTRICAL CONTROL EQUIPMENT	EMN-15
ELECTRICAL INSTALLATIONS	EMN-17
MOTORS AND GENERATORS	EMN-18
POWER DISTRIBUTION	EMN-18
REACTOR PLANT EQUIPMENT	EMN-19
TECHNICAL ADMINISTRATION	EMN-19
SUBMARINE PROPULSION PLANT ELECTRICAL SUPERVISOR	EMN-20
CASUALTY CONTROL	EMN-20
CIRCUIT BREAKERS	EMN-20
ELECTRICAL CONTROL EQUIPMENT	EMN-20
ELECTRICAL INSTALLATIONS	EMN-21
MOTORS AND GENERATORS	EMN-21
POWER DISTRIBUTION	EMN-22
REACTOR PLANT EQUIPMENT	EMN-22
TECHNICAL ADMINISTRATION	EMN-23
SURFACE PROPULSION PLANT ELECTRICAL SUPERVISOR	EMN-24
CASUALTY CONTROL	EMN-24
CIRCUIT BREAKERS	EMN-24
ELECTRICAL CONTROL EQUIPMENT	EMN-24
ELECTRICAL INSTALLATIONS	EMN-25
MOTORS AND GENERATORS	EMN-25
POWER DISTRIBUTION	EMN-25

TABLE OF CONTENTS (CONT'D)
ELECTRICIANS MATE, NUCLEAR POWER (EMN)

REACTOR PLANT EQUIPMENT	EMN-26
TECHNICAL ADMINISTRATION	EMN-26
SUBMARINE PROPULSION PLANT ELECTRICAL MANAGER	EMN-27
CASUALTY CONTROL	EMN-27
ELECTRICAL CONTROL EQUIPMENT	EMN-27
ELECTRICAL INSTALLATIONS	EMN-27
MOTORS AND GENERATORS	EMN-27
POWER DISTRIBUTION	EMN-28
REACTOR PLANT EQUIPMENT	EMN-28
TECHNICAL ADMINISTRATION	EMN-28
SURFACE PROPULSION PLANT ELECTRICAL MANAGER	EMN-29
CASUALTY CONTROL	EMN-29
ELECTRICAL CONTROL EQUIPMENT	EMN-29
MOTORS AND GENERATORS	EMN-29
POWER DISTRIBUTION	EMN-29
REACTOR PLANT EQUIPMENT	EMN-30
TECHNICAL ADMINISTRATION	EMN-30

NAVY ENLISTED OCCUPATIONAL STANDARDS

FOR

ELECTRICIANS MATE, NUCLEAR POWER (EMN)



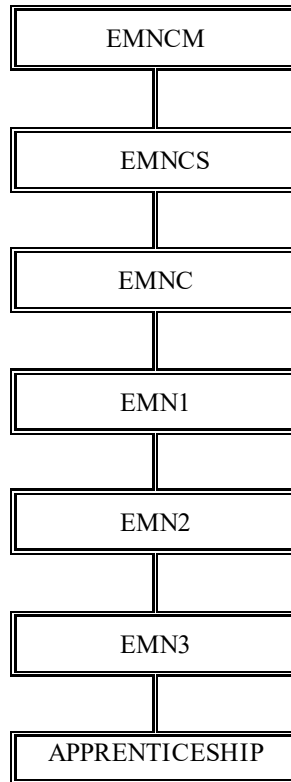
SCOPE OF RATING

Electricians 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 and mechanical devices.

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.

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 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**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

NEC NXXX, 7XXX series and other NECs as assigned

Job Description

Submarine Propulsion Plant Electrical Operators perform operations and basic preventive 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, submarine main storage batteries, and other electrical and electronic support equipment; perform 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**

Power Distributors and Dispatchers

SOC Code

51-8012.00

Job Family

Production

Skills*Quality Control Analysis**Equipment Maintenance**Operation Monitoring**Management of Material Resources**Equipment Selection**Complex Problem Solving**Repairing**Troubleshooting**Systems Evaluation**Operation and Control***Abilities***Problem Sensitivity**Near Vision**Finger Dexterity**Deductive Reasoning**Arm-Hand Steadiness**Manual Dexterity**Dynamic Flexibility**Information Ordering**Control Precision**Selective Attention***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E4

CORE

Clean casualty power cables

E4

CORE

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

E4

CORE

Disconnect casualty power cables

E4

CORE

Inspect casualty power cables

E4

CORE

Install casualty power cables

E4

CORE

Isolate damaged electrical equipment

E4

CORE

Perform corrective actions to combat reactor plant casualties

E4

CORE

Supply propulsion using Emergency Propulsion Motor (EPM)/Emergency Propulsion Turning Gear (EPTG) (e.g., shift propulsion, start EPM electrically, etc.)

E4

CORE

Supply propulsion using Secondary Propulsion Motor (SPM)

E4

CORE

Test casualty power cables

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

E5

CORE

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

E5

CORE

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

CIRCUIT BREAKERS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair circuit breakers (e.g., auxiliary contacts, contact surfaces, operating mechanisms, wiring, connections, etc.)
E5	CORE	Test circuit breakers (e.g., auxiliary contacts, contact surfaces, operating mechanisms, wiring, connections, etc.)
E5	CORE	Troubleshoot circuit breakers (e.g., manual, remote-operated, motor-operated, etc.)

ELECTRICAL CONTROL EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust Alternating Current (AC) motor controllers (e.g., operating set points, limits, standby features, etc.)
E4	CORE	Adjust control panel components (e.g., interlocks, operating mechanisms, operating or alarm set points and limits, etc.)
E4	CORE	Adjust hotwell level control system set points
E4	CORE	Adjust salinity indicating system set points
E4	CORE	Adjust temperature monitoring system set points
E5	CORE	Adjust throttle control electrical systems
E4	CORE	Adjust ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E4	CORE	Analyze salinity system data
E5	NON-CORE	Calibrate electrical meters
E4	CORE	Clean Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Clean Arc Fault Detector (AFD) components
E5	CORE	Clean Direct Current (DC) motor controllers (e.g., contactor, wiring, relays, etc.)
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 (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Clean galley equipment electrical components
E4	CORE	Clean hotwell level control system components
E4	CORE	Clean Interior Communications (IC) systems
E4	CORE	Clean laundry equipment
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	Clean ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E4	CORE	Collect machinery and hull vibration data

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Collect salinity system data
E4	CORE	Inspect Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Inspect Arc Fault Detector (AFD) components
E4	CORE	Inspect electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Inspect electrically-operated valve components
E4	CORE	Inspect Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Inspect galley equipment electrical components
E4	CORE	Inspect hotwell level control systems
E4	CORE	Inspect Interior Communications (IC) systems
E4	CORE	Inspect laundry equipment
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	Inspect throttle control electrical systems
E4	CORE	Inspect ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Repair Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Repair Arc Fault Detector (AFD) components
E4	CORE	Repair electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Repair electrically-operated valve components
E5	CORE	Repair Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E5	CORE	Repair galley equipment
E5	CORE	Repair hotwell level control systems
E5	CORE	Repair Interior Communications (IC) systems
E4	CORE	Repair laundry equipment
E5	CORE	Repair salinity indicating systems
E5	CORE	Repair shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E5	CORE	Repair temperature monitoring systems
E5	CORE	Repair throttle control electrical systems
E5	CORE	Repair ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Replace Programmable Logic Controllers (PLC)

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Test Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Test Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Test Arc Fault Detector (AFD) components
E4	CORE	Test electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Test electrically-operated valve components
E4	CORE	Test galley equipment
E4	CORE	Test hotwell level control systems
E4	CORE	Test Interior Communications (IC) systems
E4	CORE	Test laundry equipment
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	Test ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Troubleshoot Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Troubleshoot Arc Fault Detector (AFD) components
E5	CORE	Troubleshoot electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Troubleshoot electrically-operated valve components
E5	CORE	Troubleshoot Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E5	CORE	Troubleshoot galley equipment
E5	CORE	Troubleshoot hotwell level control systems
E5	CORE	Troubleshoot Interior Communications (IC) systems
E4	CORE	Troubleshoot laundry equipment
E5	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E5	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
E5	CORE	Troubleshoot ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean grounding straps
E4	CORE	Clean permanent cables
E4	CORE	Clean shore power hardware
E4	CORE	Disconnect permanent cables
E4	CORE	Disconnect shore power cables
E4	CORE	Inspect grounding straps
E4	CORE	Inspect permanent cables
E4	CORE	Inspect shore power cables
E4	CORE	Inspect shore power hardware
E4	CORE	Install permanent cables
E4	CORE	Install shore power cables
E5	CORE	Install submarine battery cell jumpers
E4	CORE	Repair permanent cables
E4	CORE	Replace grounding straps
E4	NON-CORE	Solder basic electrical connections
E4	CORE	Test grounding straps
E4	CORE	Test permanent cables
E4	CORE	Test shore power cables
E4	CORE	Test shore power hardware

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust emergency propulsion systems
E4	CORE	Clean Alternating Current (AC) generators
E4	CORE	Clean Alternating Current (AC) motor components
E4	CORE	Clean Direct Current (DC) generators
E4	CORE	Clean Direct Current (DC) motor components
E5	CORE	Clean emergency propulsion systems
E4	CORE	Clean generator governor electrical components
E4	CORE	Clean motor generators
E5	CORE	Inspect Alternating Current (AC) generators
E5	CORE	Inspect Alternating Current (AC) motor components
E5	CORE	Inspect Direct Current (DC) generators
E5	CORE	Inspect Direct Current (DC) motor components
E5	CORE	Inspect emergency propulsion systems
E5	CORE	Inspect generator governor electrical components
E5	CORE	Inspect motor generators
E4	CORE	Lubricate Alternating Current (AC) motor components

MOTORS AND GENERATORS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Lubricate Direct Current (DC) motor components
E4	CORE	Lubricate motor generators
E5	CORE	Repair Alternating Current (AC) generators
E5	CORE	Repair Alternating Current (AC) motor components
E5	CORE	Repair Direct Current (DC) generators
E5	CORE	Repair Direct Current (DC) motor components
E5	CORE	Repair emergency propulsion systems
E5	CORE	Repair generator governor electrical components
E5	CORE	Repair motor generators
E4	CORE	Test Alternating Current (AC) generators
E4	CORE	Test Alternating Current (AC) motor components
E4	CORE	Test Direct Current (DC) generators
E4	CORE	Test Direct Current (DC) motor components
E4	CORE	Test emergency propulsion systems
E4	CORE	Test generator governor electrical components
E5	CORE	Test motor generators
E5	CORE	Troubleshoot Alternating Current (AC) generators
E5	CORE	Troubleshoot Alternating Current (AC) motor components
E5	CORE	Troubleshoot Direct Current (DC) generators
E5	CORE	Troubleshoot Direct Current (DC) motor components
E5	CORE	Troubleshoot emergency propulsion systems
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	Adjust submarine battery and support systems
E4	CORE	Analyze electric plant trends
E4	CORE	Clean bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Clean high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Clean lighting system components
E4	CORE	Clean submarine battery and support systems
E4	CORE	Clean switchboard components
E4	CORE	Inspect bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Inspect high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Inspect lighting system components
E4	CORE	Inspect submarine battery and support systems

POWER DISTRIBUTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Inspect submarine battery cell jumpers
E4	CORE	Inspect switchboard components
E4	CORE	Perform electrical ground checks
E4	CORE	Perform routine battery operations (e.g., normal charge, equalizing charge, test discharge, etc.)
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Repair high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Repair lighting system components
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g., Auxiliary Electric Plant Control Panel (AEPKP), Electric Plant Control Panel (EPCP), Emergency Switchboard Local Control Station (ESLCS), etc.)
E4	CORE	Test bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Test high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Test lighting system components
E4	CORE	Test submarine battery and support systems
E4	CORE	Test switchboards
E5	CORE	Troubleshoot bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Troubleshoot lighting system components
E5	CORE	Troubleshoot submarine battery and support systems
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E4	CORE	Grant access to Radiological Controlled Areas (RCA)
E4	CORE	Inspect discharge boundary valve positions
E4	CORE	Inspect reactor compartment
E4	CORE	Line up reactor plant valves
E4	CORE	Perform main engine throttle operations
E4	CORE	Survey Radiological Controlled Areas (RCA)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Complete checklists for remote operability of key reactor plant valves
E5	CORE	Manage battery program
E4	CORE	Store collected plant parameter data

TECHNICAL ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Tag out reactor plant components (e.g., instrumentation and control, mechanical, and electrical system, etc.)
E4	CORE	Update Radiological Controlled Area (RCA) records
E4	CORE	Verify containment requirements

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

NEC NXXX, 7XXX series and other NECs as assigned

Job Description

Surface Propulsion Plant Electrical Operators perform operations and basic preventive 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; perform shutdown reactor plant operations; perform nuclear reactor, steam plant, and auxiliary equipment operations; and perform work critical for movement of Naval tactical and strategic forces.

DoD Relationship**Group Title**

Nuclear Power

DoD Code

166100

O*NET Relationship**Occupation Title**

Power Distributors and Dispatchers

SOC Code

51-8012.00

Job Family

Production

Skills*Quality Control Analysis**Equipment Maintenance**Operation Monitoring**Management of Material Resources**Equipment Selection**Repairing**Complex Problem Solving**Troubleshooting**Systems Evaluation**Operation and Control***Abilities***Problem Sensitivity**Near Vision**Finger Dexterity**Deductive Reasoning**Manual Dexterity**Arm-Hand Steadiness**Dynamic Flexibility**Information Ordering**Selective Attention**Trunk Strength***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E4

CORE

Clean casualty power cables

E4

CORE

Disconnect casualty power cables

E4

CORE

Inspect casualty power cables

E4

CORE

Install casualty power cables

E4

CORE

Isolate damaged electrical equipment

E4

CORE

Perform corrective actions to combat reactor plant casualties

E4

CORE

Test casualty power cables

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

ELECTRICAL CONTROL EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust Alternating Current (AC) motor controllers (e.g., operating set points, limits, standby features, etc.)
E4	CORE	Adjust control panel components (e.g., interlocks, operating mechanisms, operating or alarm set points and limits, etc.)
E4	CORE	Adjust hotwell level control system set points
E4	CORE	Adjust salinity indicating system set points
E4	CORE	Adjust temperature monitoring system set points
E4	CORE	Adjust ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E4	CORE	Analyze salinity system data
E5	NON-CORE	Calibrate electrical meters
E4	CORE	Clean Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Clean Arc Fault Detector (AFD) components
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 (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Clean hotwell level control system components
E4	CORE	Clean Interior Communications (IC) systems
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	Clean ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E4	CORE	Collect machinery and hull vibration data
E4	CORE	Collect salinity system data
E4	CORE	Inspect Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Inspect Arc Fault Detector (AFD) components
E4	CORE	Inspect electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Inspect electrically-operated valve components
E4	CORE	Inspect Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Inspect hotwell level control systems

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Inspect Interior Communications (IC) systems
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	Inspect throttle control electrical systems
E4	CORE	Inspect ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Repair Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Repair Arc Fault Detector (AFD) components
E4	CORE	Repair electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Repair electrically-operated valve components
E5	CORE	Repair Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E5	CORE	Repair hotwell level control systems
E5	CORE	Repair Interior Communications (IC) systems
E5	CORE	Repair salinity indicating systems
E5	CORE	Repair shaft speed sensing, indication, and Engine Order Telegraph (EOT) components
E5	CORE	Repair temperature monitoring systems
E5	CORE	Repair throttle control electrical systems
E5	CORE	Repair ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Replace Programmable Logic Controllers (PLC)
E5	CORE	Test Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E4	CORE	Test Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E4	CORE	Test Arc Fault Detector (AFD) components
E4	CORE	Test electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E4	CORE	Test electrically-operated valve components
E4	CORE	Test hotwell level control systems
E4	CORE	Test Interior Communications (IC) systems
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

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Test temperature monitoring systems
E4	CORE	Test throttle control electrical systems
E4	CORE	Test ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Troubleshoot Alternating Current (AC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Troubleshoot electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Troubleshoot electrically-operated valve components
E5	CORE	Troubleshoot Electrostatic Precipitators (ESP)/Vent Fog Precipitator (VFP) systems
E5	CORE	Troubleshoot hotwell level control systems
E5	CORE	Troubleshoot Interior Communications (IC) systems
E5	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E5	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 ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean grounding straps
E4	CORE	Clean permanent cables
E4	CORE	Clean shore power hardware
E4	CORE	Disconnect permanent cables
E4	CORE	Disconnect shore power cables
E4	CORE	Inspect grounding straps
E4	CORE	Inspect permanent cables
E4	CORE	Inspect shore power cables
E4	CORE	Install permanent cables
E4	CORE	Install shore power cables
E4	CORE	Repair permanent cables
E4	CORE	Replace grounding straps
E4	NON-CORE	Solder basic electrical connections
E4	CORE	Test grounding straps
E4	CORE	Test permanent cables
E4	CORE	Test shore power cables
E4	CORE	Test shore power hardware

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Clean Alternating Current (AC) generators
E4	CORE	Clean Alternating Current (AC) motor components
E4	CORE	Clean generator governor electrical components
E4	CORE	Clean motor generators
E5	CORE	Inspect Alternating Current (AC) generators
E5	CORE	Inspect Alternating Current (AC) motor components
E5	CORE	Inspect generator governor electrical components
E5	CORE	Inspect motor generators
E4	CORE	Lubricate Alternating Current (AC) motor components
E4	CORE	Lubricate motor generators
E5	CORE	Repair Alternating Current (AC) generators
E5	CORE	Repair Alternating Current (AC) motor components
E5	CORE	Repair generator governor electrical components
E4	CORE	Test Alternating Current (AC) generators
E4	CORE	Test Alternating Current (AC) motor components
E4	CORE	Test generator governor electrical components
E5	CORE	Troubleshoot Alternating Current (AC) generators
E5	CORE	Troubleshoot Alternating Current (AC) motor components
E5	CORE	Troubleshoot generator governor electrical components

POWER DISTRIBUTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze electric plant trends
E4	CORE	Clean bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Clean high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Clean lighting system components
E4	CORE	Clean switchboard components
E4	CORE	Inspect bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Inspect lighting system components
E4	CORE	Inspect switchboard components
E4	CORE	Perform electrical ground checks
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Repair lighting system components
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g., Auxiliary Electric Plant Control Panel (AEPKP), 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>
E4	CORE	Test bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Test lighting system components
E4	CORE	Test switchboards
E5	CORE	Troubleshoot bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E4	CORE	Troubleshoot lighting system components
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E4	CORE	Grant access to Radiological Controlled Areas (RCA)
E4	CORE	Inspect reactor compartment
E4	CORE	Line up reactor plant valves
E4	NON-CORE	Manage Propulsion Plant Local Area Network (PPLAN) network settings
E4	CORE	Perform main engine throttle operations
E4	CORE	Survey Radiological Controlled Areas (RCA)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Complete checklists for remote operability of key reactor plant valves
E4	CORE	Store collected plant parameter data
E5	CORE	Tag out reactor plant components (e.g., instrumentation and control, mechanical, and electrical system, etc.)
E4	CORE	Update Radiological Controlled Area (RCA) records

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 NXXX, 7XXX series and other NECs as assigned

Job Description

Submarine 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; repair and maintain equipment; train personnel; perform risk management; and supervise 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**First-line Supervisors of
Production and Operating Workers**SOC Code**

51-1011.00

Job Family

Production

Skills*Quality Control Analysis**Complex Problem Solving**Troubleshooting**Equipment Selection**Operation Monitoring**Repairing**Equipment Maintenance**Operation and Control**Systems Analysis**Systems Evaluation***Abilities***Problem Sensitivity**Deductive Reasoning**Near Vision**Finger Dexterity**Arm-Hand Steadiness**Information Ordering**Oral Expression**Selective Attention**Written Comprehension**Manual Dexterity***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E6

CORE

Direct shutdown watch section casualty operations

E4

CORE

Perform corrective actions to combat reactor plant casualties

E6

CORE

Supervise casualty electrical distribution operations

E7

CORE

Supervise casualty power system operations

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

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

E5

CORE

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

E5

CORE

Adjust throttle control electrical systems

E5

NON-CORE

Calibrate electrical meters

EMN-20

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Inspect Direct Current (DC) motor controllers (e.g., contactor, wiring, relays, etc.)
E7	CORE	Perform close-out inspections of electrical equipment
E5	CORE	Repair Arc Fault Detector (AFD) components
E5	CORE	Repair Direct Current (DC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Repair ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Test Direct Current (DC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Troubleshoot Arc Fault Detector (AFD) components
E5	CORE	Troubleshoot Direct Current (DC) motor controllers (e.g., contactor, wiring, relays, etc.)
E5	CORE	Troubleshoot electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Troubleshoot electrically-operated valve components
E5	CORE	Troubleshoot hotwell level control systems
E5	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E5	CORE	Troubleshoot throttle control electrical systems
E5	CORE	Troubleshoot ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Disconnect permanent cables
E4	CORE	Inspect permanent cables
E5	CORE	Install submarine battery cell jumpers
E4	CORE	Repair permanent cables
E4	CORE	Test permanent cables
E4	CORE	Test shore power hardware

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust emergency propulsion systems
E5	CORE	Inspect Alternating Current (AC) generators
E5	CORE	Inspect Direct Current (DC) generators
E5	CORE	Inspect Direct Current (DC) motor components
E5	CORE	Inspect motor generators
E4	CORE	Lubricate motor generators
E5	CORE	Repair Alternating Current (AC) generators
E5	CORE	Repair Alternating Current (AC) motor components
E5	CORE	Repair Direct Current (DC) generators
E5	CORE	Repair Direct Current (DC) motor components

MOTORS AND GENERATORS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair generator governor electrical components
E5	CORE	Repair motor generators
E5	CORE	Test motor generators
E5	CORE	Troubleshoot Alternating Current (AC) generators
E5	CORE	Troubleshoot Alternating Current (AC) motor components
E5	CORE	Troubleshoot Direct Current (DC) generators
E5	CORE	Troubleshoot Direct Current (DC) motor components
E5	CORE	Troubleshoot emergency propulsion systems
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 electric plant trends
E4	CORE	Inspect high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Perform routine battery operations (e.g., normal charge, equalizing charge, test discharge, etc.)
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Repair high voltage systems (i.e., greater than 700 Volts)
E5	CORE	Repair switchboard components
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g., Auxiliary Electric Plant Control Panel (AEPCP), Electric Plant Control Panel (EPCP), Emergency Switchboard Local Control Station (ESLCS), etc.)
E7	CORE	Supervise high voltage electrical safety work (i.e., greater than 700 volts)
E4	CORE	Test high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Test submarine battery and support systems
E4	CORE	Test switchboards
E5	CORE	Troubleshoot bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Troubleshoot high voltage systems (i.e., greater than 700 Volts)
E5	CORE	Troubleshoot submarine battery and support systems
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E6	CORE	Control maintenance on systems affecting remote operability
E4	CORE	Inspect reactor compartment

REACTOR PLANT EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Line up reactor plant valves
E6	CORE	Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Analyze machinery vibration data for validity
E6	CORE	Audit division records (e.g., electrical, mechanical, material history, etc.)
E5	CORE	Complete checklists for remote operability of key reactor plant valves
E5	CORE	Manage battery program
E6	CORE	Supervise division maintenance operations (e.g., electrical, mechanical, reactor control, etc.)
E5	CORE	Tag out reactor plant components (e.g., instrumentation and control, mechanical, and electrical system, etc.)
E4	CORE	Verify containment requirements

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 NXXX, 7XXX series and other NECs as assigned

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; repair and maintain equipment; perform risk management; and supervise work critical for movement of Naval tactical and command forces.

DoD Relationship**Group Title**

Nuclear Power

DoD Code

166100

O*NET Relationship**Occupation Title**First-line Supervisors of
Production and Operating Workers**SOC Code**

51-1011.00

Job Family

Production

Skills*Quality Control Analysis**Complex Problem Solving**Troubleshooting**Equipment Selection**Operation Monitoring**Repairing**Equipment Maintenance**Operation and Control**Systems Analysis**Management of Personnel Resources***Abilities***Problem Sensitivity**Deductive Reasoning**Near Vision**Finger Dexterity**Information Ordering**Oral Expression**Selective Attention**Arm-Hand Steadiness**Manual Dexterity**Speed of Closure***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E6

CORE

Direct shutdown watch section casualty operations

E4

CORE

Perform corrective actions to combat reactor plant casualties

E6

CORE

Supervise casualty electrical distribution operations

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

E5

CORE

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

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

E5

CORE

Adjust throttle control electrical systems

E5

NON-CORE

Calibrate electrical meters

E7

CORE

Perform close-out inspections of electrical equipment

E5

CORE

Repair Arc Fault Detector (AFD) components

ELECTRICAL CONTROL EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)
E5	CORE	Troubleshoot Arc Fault Detector (AFD) components
E5	CORE	Troubleshoot electrical panel components and interiors (e.g., alarm and indicating panels, control panels, remote control stations, etc.)
E5	CORE	Troubleshoot electrically-operated valve components
E5	CORE	Troubleshoot hotwell level control systems
E5	CORE	Troubleshoot Programmable Logic Controllers (PLC)
E5	CORE	Troubleshoot throttle control electrical systems
E5	CORE	Troubleshoot ventilation electrical components (e.g. fans, heater, temperature sensor, proportional controller, etc.)

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Disconnect permanent cables
E4	CORE	Inspect permanent cables
E4	CORE	Inspect shore power hardware
E4	CORE	Repair permanent cables
E4	CORE	Test permanent cables
E4	CORE	Test shore power hardware

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Inspect Alternating Current (AC) generators
E5	CORE	Inspect motor generators
E4	CORE	Lubricate motor generators
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
E5	CORE	Test motor generators
E5	CORE	Troubleshoot Alternating Current (AC) 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 electric plant trends
E4	CORE	Inspect high voltage systems (i.e., greater than 700 Volts)

POWER DISTRIBUTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair bus transfer devices (Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Repair high voltage systems (i.e., greater than 700 Volts)
E5	CORE	Repair switchboard components
E4	CORE	Shift electric plant lineups from normal and alternate control stations (e.g., Auxiliary Electric Plant Control Panel (AEPCP), Electric Plant Control Panel (EPCP), Emergency Switchboard Local Control Station (ESLCS), etc.)
E4	CORE	Test high voltage systems (i.e., greater than 700 Volts)
E4	CORE	Test switchboards
E5	CORE	Troubleshoot bus transfer devices (i.e., Automatic Bus Transfer (ABT), Automatic Static Bus Transfer (SABT), and Manual Bus Transfer (MBT))
E5	CORE	Troubleshoot high voltage systems (i.e., greater than 700 Volts)
E5	CORE	Troubleshoot switchboard components

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E6	CORE	Control maintenance on systems affecting remote operability
E4	CORE	Inspect discharge boundary valve positions
E4	CORE	Inspect reactor compartment
E4	CORE	Line up reactor plant valves
E6	CORE	Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Analyze machinery vibration data for validity
E6	CORE	Audit division records (e.g., electrical, mechanical, material history, etc.)
E5	CORE	Complete checklists for remote operability of key reactor plant valves
E6	CORE	Supervise division maintenance operations (e.g., electrical, mechanical, reactor control, etc.)
E5	CORE	Tag out reactor plant components (e.g., instrumentation and control, mechanical, and electrical system, etc.)
E4	CORE	Verify containment requirements

Job Title**Submarine Propulsion Plant Electrical Manager****Job Code****003793****Job Family**
Management**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**
NEC NXXX, 7XXX series and other NECs as assigned**Job Description**

Submarine Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to electrical divisions and/or engineering departments; coordinate ship electrical safety programs; perform audits of divisional and/or departmental programs; analyze trends and implement process improvements; perform risk management; and manage work critical to the movement of Naval tactical and strategic forces.

DoD Relationship

<u>Group Title</u>	<u>DoD Code</u>
Nuclear Power	166100

O*NET Relationship

<u>Occupation Title</u>	<u>SOC Code</u>	<u>Job Family</u>
Compliance Managers	11-9199.02	Management

Skills

Quality Control Analysis
Systems Analysis
Management of Personnel Resources
Operation Monitoring
Reading Comprehension
Coordination
Operation and Control
Complex Problem Solving
Equipment Maintenance
Systems Evaluation

Abilities

Problem Sensitivity
Deductive Reasoning
Oral Expression
Information Ordering
Near Vision
Selective Attention
Spatial Orientation
Speed of Closure
Written Expression
Arm-Hand Steadiness

CASUALTY CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Direct shutdown watch section casualty operations
E4	CORE	Perform corrective actions to combat reactor plant casualties
E6	CORE	Supervise casualty electrical distribution operations
E7	CORE	Supervise casualty power system operations

ELECTRICAL CONTROL EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Perform close-out inspections of electrical equipment

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Install submarine battery cell jumpers

MOTORS AND GENERATORS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Inspect motor generators
E5	CORE	Test motor generators
E5	CORE	Troubleshoot motor generators

POWER DISTRIBUTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze electric plant trends
E4	CORE	Inspect high voltage systems (i.e., greater than 700 Volts)
E7	CORE	Supervise high voltage electrical safety work (i.e., greater than 700 volts)
E4	CORE	Test high voltage systems (i.e., greater than 700 Volts)
E5	CORE	Troubleshoot high voltage systems (i.e., greater than 700 Volts)

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E6	CORE	Control maintenance on systems affecting remote operability
E4	CORE	Inspect reactor compartment
E6	CORE	Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Analyze machinery vibration data for validity
E6	CORE	Audit division records (e.g., electrical, mechanical, material history, etc.)
E7	CORE	Audit engineering and reactor department records
E5	CORE	Manage battery program
E7	CORE	Manage equipment modifications (e.g., reactor, non-reactor, Ship Alteration (SHIPALT), etc.)
E6	CORE	Supervise division maintenance operations (e.g., electrical, mechanical, reactor control, etc.)

Job Title**Surface Propulsion Plant Electrical Manager****Job Code****003794****Job Family**
Management**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**
NEC NXXX, 7XXX series and other NECs as assigned**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 programs; perform audits of divisional and/or departmental programs; analyze trends and implement process improvements; perform risk management; and manage work critical for movement of Naval tactical and command forces.

DoD Relationship**Group Title**
Nuclear Power**DoD Code**
166100**O*NET Relationship****Occupation Title**
Compliance Managers**SOC Code**
11-9199.02**Job Family**
Management**Skills***Quality Control Analysis**Systems Analysis**Management of Personnel Resources**Operation Monitoring**Operation and Control**Reading Comprehension**Coordination**Complex Problem Solving**Systems Evaluation**Troubleshooting***Abilities***Problem Sensitivity**Deductive Reasoning**Information Ordering**Oral Expression**Near Vision**Selective Attention**Speed of Closure**Written Expression**Inductive Reasoning**Originality***CASUALTY CONTROL****Paygrade****Task Type****Task Statements**

E6

CORE

Direct shutdown watch section casualty operations

E4

CORE

Perform corrective actions to combat reactor plant casualties

E6

CORE

Supervise casualty electrical distribution operations

E7

CORE

Supervise casualty power system operations

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

E7

CORE

Perform close-out inspections of electrical equipment

MOTORS AND GENERATORS**Paygrade****Task Type****Task Statements**

E5

CORE

Test motor generators

E5

CORE

Troubleshoot motor generators

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

E4

CORE

Analyze electric plant trends

E4

CORE

Inspect high voltage systems (i.e., greater than 700 Volts)

E7

CORE

Supervise high voltage electrical safety work (i.e., greater than 700 volts)

E4

CORE

Test high voltage systems (i.e., greater than 700 Volts)

E5

CORE

Troubleshoot high voltage systems (i.e., greater than 700 Volts)

REACTOR PLANT EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze pressure and temperature parameter trends
E5	CORE	Analyze shutdown reactor plant trends
E6	CORE	Control maintenance on systems affecting remote operability
E4	CORE	Inspect reactor compartment
E6	CORE	Verify conditions established for prevention of inadvertent discharges

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Analyze machinery vibration data for validity
E6	CORE	Audit division records (e.g., electrical, mechanical, material history, etc.)
E7	CORE	Audit engineering and reactor department records
E7	CORE	Manage equipment modifications (e.g., reactor, non-reactor, Ship Alternation (SHIPALT), etc.)
E6	CORE	Supervise division maintenance operations (e.g., electrical, mechanical, reactor control, etc.)
E4	CORE	Verify containment requirements