

CHAPTER 80



ROBOTICS WARFARE SPECIALIST (RW)

NAVPERS 18068F-80B
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

ROBOTICS WARFARE SPECIALIST (RW)



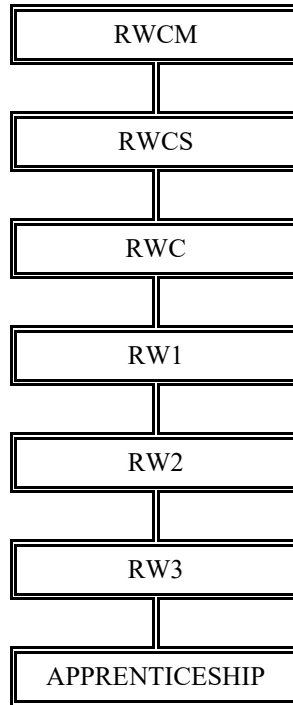
SCOPE OF RATING

Robotics Warfare Specialists (RW) plan, perform, supervise, and train personnel in the operational employment of Robotic Autonomous Systems (RAS); and plan, perform, supervise, and train personnel in both preventative and corrective levels of maintenance, configuration, testing, troubleshooting, data analysis, utilization of technical documentation, and test equipment.

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 80.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories will be developed and located 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**Robotics Warfare (RW) Systems Specialist****Job Code****002822****Job Family**

Architecture and Engineering

NOC

TBD

Short Title (30 Characters)

ROBOTICS WARFARE SYS SPEC

Short Title (14 Characters)

RW SYS SPEC

Pay Plan

Enlisted

Career Field

RW

Other Relationships and Rules

NEC GXXX, EXXX, HXXX, VXXX, 7XXX, 8XXX series and other NECs as assigned

Job Description

Robotics Warfare (RW) Systems Specialists serve as operators/maintainers who plan and control the operations of Robotic Autonomous Systems (RAS) across all domains, during all phases of the mission; perform preventative and corrective maintenance on RAS and Support Equipment (SE); operate and maintain a variety of active and passive payload/sensors; apply a basic knowledge of oceanography, meteorology, bathymetry, aerodynamics, fluid dynamics, power plants, structural components; demonstrate knowledge of radio frequency theory, electrical theory, acoustics, information systems, programming, and networking; employ internal and external communication devices and circuits; analyze data; and perform associated administrative functions.

DoD Relationship**Group Title**

Unmanned Vehicle System (UVS) Operators, General

DoD Code

108000

O*NET Relationship**Occupation Title**

Robotics Technician

SOC Code

17-3024.01

Job Family

Architecture and Engineering

Skills

Operation and Control
 Critical Thinking
 Judgment and Decision Making
 Monitoring
 Systems Analysis
 Complex Problem Solving
 Management of Material Resources
 Systems Evaluation
 Equipment Maintenance
 Programming

Abilities

Information Ordering
 Problem Sensitivity
 Written Comprehension
 Deductive Reasoning
 Selective Attention
 Inductive Reasoning
 Visualization
 Oral Expression
 Written Expression
 Category Flexibility

ADMINISTRATION**Paygrade**

E4

Task Type

NON-CORE

Task Statements

Comply with naval cryptologic and national security requirements (e.g., physical security, Information Security (INFOSEC), Communication Security (COMSEC), Operational Security (OPSEC), and directives and instructions associated with Secret Compartmented Information (SCI), etc.)

E5

CORE

Conduct Robotic and Autonomous Systems (RAS) proficiency training

E5

NON-CORE

Configure domain system policies

E5

CORE

Configure router Access Control Lists (ACL)

E5

CORE

Draft Robotic and Autonomous Systems (RAS) and support equipment Casualty Reports (CASREP)

E5

CORE

Facilitate Crew Resource Management (CRM) program

E5

CORE

Interpret Robotic and Autonomous Systems (RAS) technical briefs, notices, and bulletins

E4

NON-CORE

Inventory controlled equipment (e.g., Night Vision Goggles (NVG): laser designators; Arms, Ammunition, and Explosives (AA&E), etc.)

E4

CORE

Inventory Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) materials

E4

CORE

Inventory Robotic and Autonomous Systems (RAS) equipment

E4

CORE

Maintain flight databases (i.e., Sierra Hotel Aviation Reporting Program (SHARP))

ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Maintain Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) local element documentation
E5	CORE	Maintain Robotic and Autonomous Systems (RAS) configuration control (e.g., software, firmware, patches, etc.)
E5	CORE	Maintain Robotic and Autonomous Systems (RAS) documentation of certifications and training (e.g., currency, proficiency, qualifications, etc.)
E5	CORE	Maintain Robotic and Autonomous Systems (RAS) maintenance program documents
E4	CORE	Maintain tactical publication library
E5	CORE	Manage software containers in virtualization
E5	CORE	Perform individual and crew tactical evaluations
E4	CORE	Perform Operational Reporting (OPREP) procedures
E4	CORE	Report Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) discrepancies
E4	CORE	Research Linux fundamentals in support of Robotic and Autonomous Systems (RAS) employment
E4	CORE	Research network fundamentals in support of Robotic and Autonomous Systems (RAS) employment
E5	NON-CORE	Supervise inventories of controlled equipment (e.g., Night Vision Goggles (NVG); laser designators; Arms, Ammunition, and Explosives (AA&E), etc.)
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) divisional equipment and system configurations
E5	CORE	Verify Robotic and Autonomous Systems (RAS) equipment inventories

MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Calibrate Robotic and Autonomous Systems (RAS) electromechanical systems
E4	CORE	Configure network hardware
E4	CORE	Configure network services
E4	CORE	Configure peripherals
E4	CORE	Configure Robotic and Autonomous Systems (RAS) communications systems
E4	CORE	Configure Robotic and Autonomous Systems (RAS) electronic components and devices
E4	CORE	Configure Robotic and Autonomous Systems (RAS) navigation components
E4	CORE	Configure Robotic and Autonomous Systems (RAS) network components
E4	CORE	Configure Robotic and Autonomous Systems (RAS) power plant systems
E4	CORE	Configure Robotic and Autonomous Systems (RAS) structural components
E4	CORE	Configure router and switching devices
E4	CORE	Configure server Operating System (OS) software
E5	CORE	Configure virtual environments
E4	CORE	Configure workstation core components
E4	CORE	Configure workstation Operating System (OS) software
E5	CORE	Construct networks

MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Design basic additive manufacturing (i.e., 3-dimensional (3-D) printing)
E4	CORE	Document Robotic and Autonomous Systems (RAS) maintenance actions
E4	NON-CORE	Handle standard ordinance
E5	CORE	Inspect Robotic and Autonomous Systems (RAS) work areas, tools, and systems equipment
E4	CORE	Load Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) systems
E4	CORE	Load Robotic and Autonomous Systems (RAS) image software
E4	CORE	Maintain Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) system components
E5	NON-CORE	Manage network topologies
E5	NON-CORE	Manage Robotic and Autonomous Systems (RAS) test equipment calibration programs (e.g., load bearing, tools, scales, etc.)
E4	CORE	Monitor routing and switching devices
E4	CORE	Perform basic additive manufacturing (i.e., 3-dimensional (3-D) printing)
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) communications systems
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) electrical circuits (e.g., Alternating Current (AC) circuits/Direct Current (DC) circuits, interconnecting cables/circuits, etc.)
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) electronic components and devices
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) navigation components
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) network components
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) power plant systems
E4	CORE	Perform corrective maintenance on Robotic and Autonomous Systems (RAS) structural components
E4	CORE	Perform corrective maintenance Robotic and Autonomous Systems (RAS) electromechanical systems
E4	CORE	Perform Fiber Optics, Test and Repair (FOTR)
E4	CORE	Perform Internet Protocol (IP) shift
E5	NON-CORE	Perform Micro-Miniature (2M) repairs
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) communications systems
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) electrical circuits (e.g., Alternating Current (AC) circuits/Direct Current (DC) circuits, interconnecting cables/circuits, etc.)
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) electronic components and devices
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) navigation components

MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) network components
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) power plant systems
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) structural components
E4	CORE	Perform preventative maintenance on Robotic and Autonomous Systems (RAS) electromechanical systems
E4	CORE	Perform Robotic and Autonomous Systems (RAS) pre- and post-operational inspections
E4	NON-CORE	Perform Unmanned Aerial Systems (UAS) Functional Check Flight (FCF) inspections
E4	CORE	Restore systems from backups (e.g., server, switches, routers, databases, etc.)
E4	CORE	Set up Robotic and Autonomous Systems (RAS) electrical circuits (e.g., Alternating Current (AC) circuits/Direct Current (DC) circuits, interconnecting cables/circuits, etc.)
E5	CORE	Supervise Internet Protocol (IP) shift
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) work center maintenance operations
E5	NON-CORE	Supervise Unmanned Aerial Systems (UAS) Functional Check Flight (FCF) inspections
E4	CORE	Test Robotic and Autonomous Systems (RAS) analog and digital General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Test Robotic and Autonomous Systems (RAS) communications systems
E4	CORE	Test Robotic and Autonomous Systems (RAS) electrical circuits (e.g., Alternating Current (AC) circuits/Direct Current (DC) circuits, interconnecting cables/circuits, etc.)
E4	CORE	Test Robotic and Autonomous Systems (RAS) electrical, electronic, and mechanical equipment
E4	CORE	Test Robotic and Autonomous Systems (RAS) electromechanical systems
E4	CORE	Test Robotic and Autonomous Systems (RAS) electronic components and devices
E4	CORE	Test Robotic and Autonomous Systems (RAS) navigation components
E4	CORE	Test Robotic and Autonomous Systems (RAS) network components
E4	CORE	Test Robotic and Autonomous Systems (RAS) power plant systems
E4	CORE	Test Robotic and Autonomous Systems (RAS) Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Test Robotic and Autonomous Systems (RAS) structural components
E4	NON-CORE	Transport standard ordinance
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) Communications Security (COMSEC) system components
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) communications systems

MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) electrical circuits (e.g., Alternating Current (AC) circuits/Direct Current (DC) circuits, interconnecting cables/circuits, etc.)
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) electromechanical systems
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) electronic components and devices
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) navigation components
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) network components
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) power plant systems
E4	CORE	Troubleshoot Robotic and Autonomous Systems (RAS) structural components
E4	CORE	Troubleshoot router and switching devices
E5	CORE	Troubleshoot virtual environments
E4	CORE	Verify calibration of Robotic and Autonomous Systems (RAS) electrical, electronic, and mechanical equipment
E5	CORE	Verify Fiber Optics, Test and Repair (FOTR)
E5	NON-CORE	Verify Unmanned Aerial Systems (UAS) Functional Check Flight (FCF) inspections

MISSION PLANNING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze environmental factors on Robotic and Autonomous Systems (RAS) sensors and weapons
E4	CORE	Analyze Robotic and Autonomous Systems (RAS) weight and balance calculations
E4	CORE	Analyze threat data
E4	CORE	Assess predicted Robotic and Autonomous Systems (RAS) sensor effectiveness
E4	CORE	Assess Robotic and Autonomous Systems (RAS) operating constraints (e.g., terrain, depth, altitude, distance limitations, etc.)
E5	CORE	Brief Robotic and Autonomous Systems (RAS) mission plans
E4	CORE	Calculate Robotic and Autonomous Systems (RAS) fuel and energy consumption
E4	CORE	Configure Robotic and Autonomous Systems (RAS) hardware (e.g., sensor integration, weight and balance, payload control modules, etc.)
E4	CORE	Configure Robotic and Autonomous Systems (RAS) software (e.g., autonomy, payloads, patches/updates, etc.)
E5	CORE	Develop Robotic and Autonomous Systems (RAS) mission plans
E4	CORE	Establish satellite connection with Robotic and Autonomous Systems (RAS)
E5	CORE	Integrate environmental factors and recommendations into Robotic and Autonomous Systems (RAS) mission plans
E4	CORE	Interpret Naval messages for mission planning
E4	CORE	Monitor Crew Resource Management (CRM)

MISSION PLANNING (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Perform Air Insertion and extraction Operations (i.e., Helicopter Rope Suspension Techniques/ Cast (HRST/C), Special Purpose Insertion and Extraction (SPIE), Parachute)
E5	NON-CORE	Perform Mobile Tactical Operations Center (MTOC) loadmaster responsibilities
E4	CORE	Perform Robotic and Autonomous Systems (RAS) pre-mission checks
E5	CORE	Plan Robotic and Autonomous Systems (RAS) map or chart annotations (e.g., exclusion zones, Points of Interest (POI), Notice to Mariners (NOTM), etc.)
E5	CORE	Prepare flight schedules
E4	CORE	Prepare Robotic and Autonomous Systems (RAS) mission plans
E4	CORE	Validate Robotic and Autonomous Systems (RAS) navigational charts (e.g., National Oceanic Atmospheric Administration (NOAA), National Geospatial Agency (NGA), Notice to Mariners (NOTM), etc.)
E5	CORE	Validate Robotic and Autonomous Systems (RAS) readiness and configurations (e.g., hardware, software, pre-mission checks, logbook reviews, payloads, etc.)

POST MISSION ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Robotic and Autonomous Systems (RAS) data (e.g., log file, mission file, sensor data, etc.)
E4	CORE	Archive Robotic and Autonomous Systems (RAS) data (e.g., log file, mission file, sensor data, etc.)
E4	CORE	Disseminate Robotic and Autonomous Systems (RAS) reports (e.g., Acoustic Intelligence (ACINT), Post Mission Data (PMD), asset positions, Image Intelligence (IMINT), etc.)
E4	CORE	Download Robotic and Autonomous Systems (RAS) data (e.g., log file, mission file, sensor data, etc.)
E4	CORE	Generate Robotic and Autonomous Systems (RAS) reports (e.g., Acoustic Intelligence (ACINT), Post Mission Data (PMD), asset positions, Image Intelligence (IMINT), etc.)
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) data processing (e.g., log file, mission file, sensor data, etc.)
E5	CORE	Update tactical databases

SENSOR OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze contacts using Robotic and Autonomous Systems (RAS) passive payloads/sensors
E4	CORE	Conduct Identification Friend or Foe (IFF), Automated Identification System (AIS), and Selective Identification Feature (SIF) interrogations
E4	CORE	Correlate contacts using Robotic and Autonomous Systems (RAS) sensors
E4	CORE	Correlate Robotic and Autonomous Systems (RAS) multi-sensor data (i.e., sensor to sensor data)
E4	CORE	Employ Robotic and Autonomous Systems (RAS) payload/sensor systems
E4	CORE	Employ Robotic and Autonomous Systems (RAS) perception systems (e.g., Light Detection and Ranging (LIDAR), Sound Navigation and Ranging (SONAR), Radio Detection and Ranging (RADAR), etc.)

SENSOR OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform Secure Internet Protocol Router Network (SIPRNET) chat operations
E4	CORE	Report real-time Robotic and Autonomous Systems (RAS) sensor contacts
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) sensor operations

VEHICLE OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze real-time operational impacts from environmental factors to Robotic and Autonomous Systems (RAS)
E4	CORE	Conduct small boat evolutions
E4	CORE	Employ auxiliary equipment in support of Robotic and Autonomous Systems (RAS)
E4	CORE	Employ expeditionary equipment Counter-Robotic and Autonomous Systems (C-RAS) (i.e., Counter-Unmanned Aerial Systems (C-UAS))
E4	CORE	Employ Robotic and Autonomous Systems (RAS) Command and Control (C2) systems (e.g., data link, acoustic communications, Radio Frequency (RF), etc.)
E4	CORE	Employ Robotic and Autonomous Systems (RAS) electrical/electronic systems
E4	CORE	Employ Robotic and Autonomous Systems (RAS) fuel/cell systems
E4	CORE	Employ Robotic and Autonomous Systems (RAS) navigation systems
E4	CORE	Monitor Robotic and Autonomous Systems (RAS) and subsystems (e.g., vehicle, control station, auxiliary equipment, etc.)
E4	CORE	Operate Robotic and Autonomous Systems RAS platform simulators
E4	CORE	Perform launch and recovery of auxiliary equipment in support of Robotic and Autonomous Systems (RAS)
E4	CORE	Perform on-station mission turnovers/swap procedures
E4	CORE	Perform Robotic and Autonomous Systems (RAS) coordination and reconnaissance operations (i.e., Surface Coordination and Reconnaissance (SCAR))
E4	CORE	Perform Robotic and Autonomous Systems (RAS) Intelligence, Surveillance, and Reconnaissance (ISR) operations
E4	CORE	Perform Robotic and Autonomous Systems (RAS) launch and recovery operations
E4	CORE	Pilot Robotic and Autonomous Systems (RAS)
E4	CORE	Report Robotic and Autonomous Systems (RAS) operation status
E5	CORE	Supervise expeditionary equipment Counter-Robotic and Autonomous Systems (C-RAS) employment (i.e., Counter-Unmanned Aerial Systems (C-UAS))
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) launch and recovery operations
E5	CORE	Supervise Robotic and Autonomous Systems (RAS) operations execution
E4	CORE	Update Robotic and Autonomous Systems (RAS) mission parameters

Job Title**Robotics Warfare (RW) Systems Manager****Job Code****002823****Job Family**
Management**NOC**
TBD**Short Title (30 Characters)**
ROBOTICS WARFARE SYS MGR**Short Title (14 Characters)**
RW SYS MGR**Pay Plan**
Enlisted**Career Field**
RW**Other Relationships and Rules**
NEC GXXX, HXXX, 7XXX, and 8XXX series and other NECs as assigned**Job Description**

Robotic Warfare (RW) Systems Managers supervise and train personnel who serve as Robotics Warfare (RW) Systems Specialist maintainers/operators in the planning and control of Robotic Autonomous System (RAS) across all domains, during all phases of the mission; manage preventative and corrective maintenance on RAS and Support Equipment (SE); supervise the operation and maintenance of a variety of active and passive payload/sensors; supervise the application of basic knowledge in oceanography, meteorology, bathymetry, aerodynamics, fluid dynamics, power plants, structural components and the demonstration of knowledge in radio frequency theory, electrical theory acoustics, information systems, programming, and networking; validate analysis of data; and perform and oversee associated administrative functions.

DoD Relationship

<u>Group Title</u>	<u>DoD Code</u>
ADP Computers, General	115000

O*NET Relationship

<u>Occupation Title</u>	<u>SOC Code</u>	<u>Job Family</u>
Computer and Information Systems Managers	11-3021.00	Management

Skills

Judgment and Decision Making
Management of Material Resources
Critical Thinking
Coordination
Monitoring
Complex Problem Solving
Programming
Reading Comprehension
Operation and Control
Systems Analysis

Abilities

Information Ordering
Written Comprehension
Visualization
Inductive Reasoning
Selective Attention
Problem Sensitivity
Written Expression
Category Flexibility
Oral Expression
Originality

ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Administer cloud services
E7	CORE	Coordinate Robotic and Autonomous Systems (RAS) deployment loadouts
E7	CORE	Coordinate Robotic and Autonomous Systems (RAS) pre-deployment work-ups
E7	CORE	Develop Robotic and Autonomous Systems (RAS) After Action Reports (AAR)
E6	CORE	Develop Robotic and Autonomous Systems (RAS) Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E7	CORE	Develop Robotic and Autonomous Systems (RAS) platform-specific training requirements (e.g., plans, tests, evaluations, etc.)
E6	CORE	Draft Robotic and Autonomous Systems (RAS) procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure from Specifications (DFS), etc.)
E6	CORE	Integrate new technologies and equipment
E6	CORE	Maintain personnel administrative records (i.e. qualifications, certifications, license, medical, etc.)
E7	CORE	Manage cloud services
E6	NON-CORE	Manage controlled equipment program (e.g., Night Vision Goggles (NVG); laser designators; Arms, Ammunition, and Explosives (AA&E), etc.)
E7	CORE	Manage Crew Resource Management (CRM) program

ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage Local Area Network (LAN) architecture
E6	CORE	Manage network system configurations
E6	NON-CORE	Manage operational site for Unmanned Aerial Systems (UAS)
E7	CORE	Manage Robotic and Autonomous Systems (RAS) and support equipment Casualty Reporting (CASREP) process
E6	CORE	Manage Robotic and Autonomous Systems (RAS) deployment loadouts
E6	CORE	Manage Robotic and Autonomous Systems (RAS) divisional equipment and system configurations
E6	CORE	Manage Robotic and Autonomous Systems (RAS) equipment certifications and recertifications
E6	CORE	Manage Robotic and Autonomous Systems (RAS) maintenance program
E6	CORE	Manage Robotic and Autonomous Systems (RAS) pre-deployment work-ups
E7	CORE	Report Robotic and Autonomous Systems (RAS) platform-specific training requirements (e.g., plans, tests, evaluations, etc.)
E7	CORE	Research new technologies and equipment
E7	CORE	Validate Operational Reporting (OPREP) reports
E6	CORE	Validate Robotic and Autonomous Systems (RAS) and support equipment Casualty Reports (CASREP)
E7	CORE	Validate Robotic and Autonomous Systems (RAS) procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure from Specifications (DFS), etc.)

MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage basic additive manufacturing (i.e., 3-dimensional (3-D) printing)
E7	CORE	Manage Fiber Optics, Test and Repair (FOTR)
E6	CORE	Manage virtual environments
E6	CORE	Supervise Fiber Optics, Test and Repair (FOTR)
E6	CORE	Supervise Robotic and Autonomous Systems (RAS) equipment installations, testing, and alterations

MISSION PLANNING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve Robotic and Autonomous Systems (RAS) mission plans
E6	CORE	Coordinate joint all domain Robotic and Autonomous Systems (RAS) operations
E7	CORE	Coordinate Robotic and Autonomous Systems (RAS) operational space and deconfliction with governing authority (e.g., Watch floor, Air Traffic Control (ATC), Range Control, etc.)
E5	CORE	Develop Robotic and Autonomous Systems (RAS) Communication Plans (CP)
E7	CORE	Manage crew assignments
E6	NON-CORE	Plan Group I/II Unmanned Aerial Vehicle (UAV) flight operations
E6	CORE	Plan Robotic and Autonomous Systems (RAS) Intelligence, Surveillance, and Reconnaissance (ISR) operations

MISSION PLANNING (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Plan Robotic and Autonomous Systems (RAS) Surface Coordination and Reconnaissance (SCAR) operations
E6	CORE	Validate environmental factors on Robotic and Autonomous Systems (RAS) sensors and weapons
E6	CORE	Validate Robotic and Autonomous Systems (RAS) map or chart annotations (e.g., exclusion zones, Points of Interest (POI), Notice to Mariners (NOTM), etc.)
E6	CORE	Validate Robotic and Autonomous Systems (RAS) mission plans
E6	CORE	Validate Robotic and Autonomous Systems (RAS) weight and balance calculations

POST MISSION ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Prepare operational hour reports (i.e., flight, undersea, and surface operational hours)
E6	CORE	Validate Robotic and Autonomous Systems (RAS) data (e.g., log file, mission file, sensor data, etc.)
E6	CORE	Validate Robotic and Autonomous Systems (RAS) reports (e.g., Acoustic Intelligence (ACINT), Post Mission Data (PMD), asset positions, Image Intelligence (IMINT), etc.)

SENSOR OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Collate Robotic and Autonomous Systems (RAS) real-time collection in support of operations
E6	NON-CORE	Employ deliverable effects (e.g., active, kinetic, Psychological Operations (PSYOP), etc.)
E7	NON-CORE	Inform kill-web decision makers to accelerate decision cycle
E6	NON-CORE	Integrate kill-web design into the execution management
E6	CORE	Manage Robotic and Autonomous Systems (RAS) sensor operations
E7	CORE	Provide recommendations for Robotic and Autonomous Systems (RAS) payload/sensor employment

VEHICLE OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Coordinate Robotic and Autonomous Systems (RAS) operations execution
E7	CORE	Direct Robotic and Autonomous Systems (RAS) Battlespace Management System (BMS) operations
E6	CORE	Manage Robotic and Autonomous Systems (RAS) operations execution