
Appendix E: Training and Testing Activities Matrices

TABLE OF CONTENTS

APPENDIX E TRAINING AND TESTING ACTIVITIES MATRICESE-1

E.1 COMPONENTS OF TRAINING ACTIVITIES.....E-3

E.2 COMPONENTS OF TESTING ACTIVITIES.....E-5

E.3 STRESSORS BY TRAINING ACTIVITYE-8

E.4 STRESSORS BY TESTING ACTIVITYE-10

E.5 STRESSORS BY RESOURCE.....E-13

LIST OF TABLES

TABLE E-1: COMPONENTS OF TRAINING ACTIVITIES E-3

TABLE E-2: COMPONENTS OF TESTING ACTIVITIES E-5

TABLE E-3: STRESSORS BY TRAINING ACTIVITY E-8

TABLE E-4: STRESSORS BY TESTING ACTIVITY E-10

TABLE E-5: STRESSORS BY RESOURCE E-13

LIST OF FIGURES

There are no figures in this section.

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APPENDIX E TRAINING AND TESTING ACTIVITIES MATRICES

This appendix contains tables that help to describe each of the training and testing activities in terms of their component parts (Table E-1 and Table E-2) and the stressors associated with each activity (Table E-3 and Table E-4). In addition, Table E-5 provides all of the resources analyzed in the Northwest Training and Testing (NWTT) Environmental Impact Statement (EIS)/Overseas EIS (OEIS) and indicates the stressors that could impact each resource area. For a complete explanation of the stressors used in the analysis, see Section 3.0.5.3 (Identification of Stressors for Analysis) in the NWTT EIS/OEIS.

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E.1 COMPONENTS OF TRAINING ACTIVITIES

Table E-1: Components of Training Activities

Training Activity	Electromagnetic Devices	Aircraft Carriers	Surface Combatants	Amphibious Warfare Ships	Support Craft	Submarines	Towed Devices	Unmanned Surface or Underwater Vehicles	Non-Explosive Small-Caliber Projectiles	Non-Explosive Medium-Caliber Projectiles	Non-Explosive Large-Caliber Projectiles	Non-Explosive Bombs	Non-Explosive Missiles	Non-Explosive Torpedoes	Aircraft Stores or Ballast	Non-Explosive Rockets	Non-Explosive Sonobuoys	Parachutes	Chaff	Flares	High-Explosive Munitions	Targets	Seafloor Devices	Fixed-Wing Aircraft	Rotary-Wing Aircraft	Unmanned Aircraft Systems	Fiber Optic Wire	Guidance Wire
ANTI-AIR WARFARE (AAW)																												
Air Combat Maneuver (ACM)																									✓			
Missile Exercise (Air-to-Air)																					✓	✓			✓		✓	
Gunnery Exercise (Surface-to-Air)		✓	✓							✓	✓												✓	✓		✓		
Missile Exercise (Surface-to-Air)		✓	✓										✓									✓	✓		✓		✓	
ANTI-SURFACE WARFARE (ASUW)																												
Gunnery Exercise (Surface-to-Surface) Ship			✓						✓	✓												✓	✓					
Missile Exercise (Air-to-Surface)													✓									✓	✓		✓	✓		
High-Speed Anti-Radiation Missile (HARM) Exercise (Non-firing)																									✓			
Bombing Exercise (Air-to-Surface)												✓										✓	✓		✓			
Sinking Exercise (SINKEX) ¹			✓			✓																✓	✓		✓	✓		✓
ANTI-SUBMARINE WARFARE (ASW)																												
Tracking Exercise – Submarine						✓	✓	✓															✓					
Tracking Exercise – Surface			✓			✓	✓	✓									✓	✓					✓					
Tracking Exercise – Helicopter						✓		✓									✓	✓					✓			✓		
Tracking Exercise – Maritime Patrol Aircraft						✓		✓						✓				✓	✓				✓		✓			
Tracking Exercise – Maritime Patrol (Extended Echo Ranging Sonobuoys)						✓		✓				✓					✓	✓				✓			✓			
ELECTRONIC WARFARE (EW)																												
Electronic Warfare Operations (EW Ops)		✓	✓			✓																			✓	✓		
MINE WARFARE (MIW)																												
Mine Neutralization – Explosive Ordnance Disposal (EOD)					✓																	✓						
Submarine Mine Exercise						✓																✓		✓				
Civilian Port Defense	✓				✓		✓	✓														✓				✓		✓

¹ SINKEX is proposed for the No Action Alternative only.

Table E-1: Components of Training Activities (continued)

Training Activity	Electromagnetic Devices	Aircraft Carriers	Surface Combatants	Amphibious Warfare Ships	Support Craft	Submarines	Towed Devices	Unmanned Surface or Underwater Vehicles	Non-Explosive Small-Caliber Projectiles	Non-Explosive Medium-Caliber Projectiles	Non-Explosive Large-Caliber Projectiles	Non-Explosive Bombs	Non-Explosive Missiles	Non-Explosive Torpedoes	Aircraft Stores or Ballast	Non-Explosive Rockets	Non-Explosive Sonobuoys	Parachutes	Chaff	Flares	High-Explosive Munitions	Targets	Seafloor Devices	Fixed-Wing Aircraft	Rotary-Wing Aircraft	Unmanned Aircraft Systems	Fiber Optic Wire	Guidance Wire	
NAVAL SPECIAL WARFARE (NSW)																													
Personnel Insertion/Extraction – Submarine					✓	✓																							
Personnel Insertion/Extraction – Non-submarine					✓																				✓	✓			
OTHER TRAINING EXERCISES																													
Maritime Security Operations			✓		✓	✓			✓																				
Precision Anchoring			✓																					✓					
Small Boat Attack					✓				Note 1	Note 1																			
Intelligence, Surveillance, Reconnaissance (ISR)																									✓				
Search and Rescue																										✓			
Surface Ship Sonar Maintenance			✓																										
Submarine Sonar Maintenance						✓																							

Note 1: "Blank" rounds only

E.2 COMPONENTS OF TESTING ACTIVITIES

Table E-2: Components of Testing Activities

Testing Activity	Electromagnetic Devices	Aircraft Carriers	Surface Combatants	Amphibious Warfare Ships	Support Craft	Submarines	Towed Devices	Unmanned Surface or Underwater Vehicles	Non-Explosive Small-Caliber Projectiles	Non-Explosive Medium-Caliber Projectiles	Non-Explosive Large-Caliber Projectiles	Non-Explosive Bombs	Non-Explosive Missiles	Non-Explosive Torpedoes	Aircraft Stores or Ballast	Non-Explosive Rockets	Non-Explosive Sonobuoys	Parachutes	Chaff	Flares	High-Explosive Munitions	Targets	Seafloor Devices	Fixed-Wing Aircraft	Rotary-Wing Aircraft	Unmanned Aircraft Systems	Fiber Optic Wire	Guidance Wire	
Naval Sea Systems Command																													
TORPEDO TESTING																													
Torpedo Non-Explosive Testing			✓		✓	✓								✓			✓						✓					✓	✓
AUTONOMOUS AND NON-AUTONOMOUS VEHICLES																													
Unmanned Underwater Vehicle Testing			✓		✓			✓															✓	✓				✓	✓
Unmanned Aircraft System					✓																						✓		
Unmanned Surface Vehicle			✓		✓			✓															✓	✓					
FLEET TRAINING/SUPPORT																													
Cold Water Training					✓																								
Post-Refit Sea Trial					✓	✓																							
Anti-Submarine Warfare (ASW) Testing			✓			✓	✓										✓	✓					✓	✓		✓	✓		
MAINTENANCE AND MISCELLANEOUS																													
Side Scan/Multibeam Sonar			✓		✓		✓	✓															✓	✓					
Non-Acoustic Tests					✓		✓	✓																					
ACOUSTIC COMPONENT TEST																													
Countermeasures Testing			✓		✓	✓	✓	✓															✓						
Acoustic Test Facility																													
Pierside Integrated Swimmer Defense					✓																								
SYSTEM, SUBSYSTEM, AND COMPONENT TESTING																													
Pierside Acoustic Testing					✓		✓	✓															✓	✓					
Performance Testing At Sea					✓		✓	✓															✓	✓					
Development Training and Testing					✓		✓	✓															✓	✓					
PROOF-OF-CONCEPT TESTING																													
Proof-of-Concept Testing					✓		✓	✓															✓	✓					

Table E-2: Components of Testing Activities (continued)

Testing Activity	Electromagnetic Devices	Aircraft Carriers	Surface Combatants	Amphibious Warfare Ships	Support Craft	Submarines	Towed Devices	Unmanned Surface or Underwater Vehicles	Non-Explosive Small-Caliber Projectiles	Non-Explosive Medium-Caliber Projectiles	Non-Explosive Large-Caliber Projectiles	Non-Explosive Bombs	Non-Explosive Missiles	Non-Explosive Torpedoes	Aircraft Stores or Ballast	Non-Explosive Rockets	Non-Explosive Sonobuoys	Parachutes	Chaff	Flares	High-Explosive Munitions	Targets	Seafloor Devices	Fixed-Wing Aircraft	Rotary-Wing Aircraft	Unmanned Aircraft Systems	Fiber Optic Wire	Guidance Wire	
ACOUSTIC MEASUREMENT TESTS																													
Surface Vessel Acoustic Measurement		✓	✓		✓																								
Underwater Vessel Acoustic Measurement					✓	✓																							
Underwater Vessel Hydrodynamic Performance Measurement					✓	✓																							
Cold Water Training					✓	✓																							
Component System Testing			✓		✓	✓																							
Countermeasures Testing			✓		✓	✓																							
Electromagnetic Measurement			✓		✓	✓																							
Measurement System Repair & Replacement			✓		✓	✓																							
Project Operations (POPS)			✓		✓	✓																							
Target Strength Trial					✓	✓																							
LIFE CYCLE ACTIVITIES																													
Pierside Sonar Testing		✓	✓			✓																							
SHIPBOARD PROTECTION SYSTEMS AND SWIMMER DEFENSE TESTING																													
Pierside Integrated Swimmer Defense		✓	✓		✓																								
UNMANNED VEHICLE TESTING																													
Unmanned Vehicle Development and Payload Testing					✓			✓																✓					
ANTI-SURFACE WARFARE (ASUW)/ANTI-SUBMARINE WARFARE (ASW) TESTING																													
Torpedo (Explosive) Testing			✓		✓	✓								✓			✓	✓				✓	✓		✓	✓			✓
Torpedo (Non-explosive) Testing			✓			✓	✓							✓			✓	✓					✓		✓	✓			✓
Countermeasure Testing		✓	✓		✓		✓							✓															
NEW SHIP CONSTRUCTION																													
Anti-Submarine Warfare (ASW) Mission Package Testing			✓			✓	✓							✓			✓	✓					✓			✓			

Table E-2: Components of Testing Activities (continued)

Testing Activity	Electromagnetic Devices	Aircraft Carriers	Surface Combatants	Amphibious Warfare Ships	Support Craft	Submarines	Towed Devices	Unmanned Surface or Underwater Vehicles	Non-Explosive Small-Caliber Projectiles	Non-Explosive Medium-Caliber Projectiles	Non-Explosive Large-Caliber Projectiles	Non-Explosive Bombs	Non-Explosive Missiles	Non-Explosive Torpedoes	Aircraft Stores or Ballast	Non-Explosive Rockets	Non-Explosive Sonobuoys	Parachutes	Chaff	Flares	High-Explosive Munitions	Targets	Seafloor Devices	Fixed-Wing Aircraft	Rotary-Wing Aircraft	Unmanned Aircraft Systems	Fiber Optic Wire	Guidance Wire	
Naval Air Systems Command																													
ANTI-SUBMARINE WARFARE (ASW)																													
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (Directional Command Activated Sonobuoy System [DICASS])			✓			✓		✓									✓	✓				✓		✓					
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (Multistatic Active Coherent [MAC])			✓			✓		✓									✓	✓				✓		✓					
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (Sound Underwater Signal [SUS])			✓			✓											✓	✓			✓			✓					
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (Improved Extended Echo Ranging [IEER])			✓			✓		✓									✓	✓			✓	✓		✓					
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (High Duty Cycle [HDC])			✓			✓		✓									✓	✓				✓		✓					
ELECTRONIC WARFARE (EW)																													
Flare Test																					✓			✓					

E.3 STRESSORS BY TRAINING ACTIVITY

Table E-3: Stressors by Training Activity

Northwest Training Activity	Biological Resources													Physical Resources						Human Resources									
	Acoustic Stressors						Energy Stressors		Physical Stressors			Entanglement Stressors		Ingestion Stressors	Air Quality Stressors		Sediment and Water Quality Stressors				Acoustics ¹	Physical Disturbance ¹	Accessibility ²	Airborne Acoustics ²	Physical Disturbance and Strikes ²	Underwater Energy ³	In-Air Energy ³	Physical Interactions ³	
	Tactical Acoustic Sonar	Other Acoustic Devices	Underwater Explosions	In-air Explosions	Weapons Firing Noise	Aircraft Noise	Vessel and Simulated Vessel Noise	Electromagnetic	Lasers	Aircraft and Aerial Target Strikes	Vessel and In-water Device Strikes	Military Expended Materials	Seafloor Devices	Cables and Wires	Parachutes	Military Expended Materials	Criteria Air Pollutants	Hazardous Air Pollutants	Explosives	Metals									Chemicals
ANTI-AIR WARFARE (AAW)																													
Air Combat Maneuver (ACM)						✓				✓						✓	✓	✓		✓		✓							
Missile Exercise (Air-to-Air)				✓		✓				✓		✓		✓		✓	✓	✓	✓	✓				✓	✓	✓	✓		✓
Gunnery Exercise (Surface-to-Air)				✓	✓	✓	✓			✓	✓	✓				✓	✓	✓	✓	✓				✓	✓	✓	✓		✓
Missile Exercise (Surface-to-Air)				✓		✓	✓			✓	✓	✓				✓	✓	✓	✓	✓	✓			✓	✓	✓	✓		✓
ANTI-SURFACE WARFARE (ASUW)																													
Gunnery Exercise (Surface-to-Surface) Ship – Small-Caliber					✓		✓				✓	✓				✓	✓	✓		✓					✓	✓	✓		✓
Gunnery Exercise (Surface-to-Surface) Ship – Medium and Large Caliber				✓		✓					✓	✓				✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓
Missile Exercise (Air-to-Surface)				✓		✓	✓			✓	✓	✓					✓	✓						✓	✓	✓		✓	✓
High-Speed Anti-Radiation Missile (HARM) Exercise (Non-firing)						✓				✓						✓	✓									✓			
Bombing Exercise (Air-to-Surface)				✓		✓				✓		✓				✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓
Sinking Exercise (SINKEX) ¹				✓		✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
ANTI-SUBMARINE WARFARE (ASW)																													
Tracking Exercise – Submarine	✓						✓				✓														✓			✓	✓
Tracking Exercise – Surface	✓						✓				✓					✓	✓	✓							✓	✓		✓	✓
Tracking Exercise – Helicopter	✓					✓	✓			✓	✓	✓		✓		✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓
Tracking Exercise – Maritime Patrol Aircraft	✓					✓	✓	✓		✓	✓	✓		✓		✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓
Tracking Exercise – Maritime Patrol (Extended Echo Ranging Sonobuoys)	✓			✓		✓				✓		✓		✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓

¹ SINKEX is proposed for the No Action Alternative only.

Table E-3: Stressors by Training Activity (continued)

Northwest Training Activity	Biological Resources													Physical Resources						Human Resources											
	Acoustic Stressors						Energy Stressors		Physical Stressors			Entanglement Stressors		Ingestion Stressors	Air Quality Stressors		Sediment and Water Quality Stressors				Acoustics ¹	Physical Disturbance ¹	Accessibility ²	Airborne Acoustics ²	Physical Disturbance and Strikes ²	Underwater Energy ³	In-Air Energy ³	Physical Interactions ³			
	Tactical Acoustic Sonar	Other Acoustic Devices	Underwater Explosions	In-air Explosions	Weapons Firing Noise	Aircraft Noise	Vessel and Simulated Vessel Noise	Electromagnetic	Lasers	Aircraft and Aerial Target Strikes	Vessel and In-water Device Strikes	Military Expended Materials	Seafloor Devices	Cables and Wires	Parachutes	Military Expended Materials	Criteria Air Pollutants	Hazardous Air Pollutants	Explosives	Metals									Chemicals	Other Materials	
ELECTRONIC WARFARE (EW)																															
Electronic Warfare Operations (EW Ops)						✓	✓			✓	✓						✓	✓								✓	✓	✓			✓
MINE WARFARE (MIW)																															
Mine Neutralization – Explosive Ordnance Disposal (EOD)			✓			✓	✓			✓	✓	✓	✓			✓	✓	✓						✓	✓	✓	✓	✓		✓	
Submarine Mine Exercise	✓									✓	✓	✓															✓		✓		
Civilian Port Defense	✓		✓			✓	✓	✓		✓	✓	✓				✓	✓	✓						✓	✓	✓	✓	✓		✓	
NAVAL SPECIAL WARFARE (NSW)																															
Personnel Insertion/Extraction – Submarine										✓																					
Personnel Insertion/Extraction – Non-submarine						✓			✓							✓	✓	✓								✓					
OTHER TRAINING EXERCISES																															
Maritime Security Operations					✓		✓			✓	✓				✓	✓	✓		✓					✓	✓	✓	✓			✓	
Precision Anchoring							✓			✓		✓				✓	✓							✓	✓	✓	✓			✓	
Small Boat Attack					✓		✓			✓	✓				✓	✓	✓		✓												
Intelligence, Surveillance, Reconnaissance						✓			✓							✓	✓								✓						
Search and Rescue						✓	✓		✓	✓						✓	✓								✓						
Surface Ship Sonar Maintenance	✓						✓			✓						✓	✓														
Submarine Sonar Maintenance	✓						✓			✓																					

¹ Cultural resources stressor

² Socioeconomics stressor

³ Public health and safety stressor

Note: A check indicates events that take place for all alternatives.

E.4 STRESSORS BY TESTING ACTIVITY

Table E-4: Stressors by Testing Activity

Northwest Testing Activity	Biological Resources													Physical Resources						Human Resources									
	Acoustic Stressors						Energy Stressors		Physical Stressors			Entanglement Stressors		Ingestion Stressors	Air Quality Stressors		Sediment and Water Quality Stressors				Acoustics ¹	Physical Disturbance ¹	Accessibility ²	Airborne Acoustics ²	Physical Disturbance and Strikes ²	Underwater Energy ³	In-Air Energy ³	Physical Interactions ³	
	Tactical Acoustic Sonar	Other Acoustic Devices	Underwater Explosions	In-air Explosions	Weapons Firing Noise	Aircraft Noise	Vessel and Simulated Vessel Noise	Electromagnetic	Lasers	Aircraft and Aerial Target Strikes	Vessel and In-water Device Strikes	Military Expended Materials	Seafloor Devices	Cables and Wires	Parachutes	Military Expended Materials	Criteria Air Pollutants	Hazardous Air Pollutants	Explosives	Metals									Chemicals
Naval Sea Systems Command																													
TORPEDO TESTING																													
Torpedo Non-Explosive Testing	✓	✓				✓				✓	✓		✓		✓	✓	✓		✓	✓	✓			✓		✓	✓		✓
AUTONOMOUS AND NON-AUTONOMOUS VEHICLES																													
Unmanned Underwater Vehicle Testing		✓				✓	✓	✓		✓	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓		✓			✓
Unmanned Aircraft System					✓	✓			✓	✓						✓	✓								✓			✓	
Unmanned Surface Vehicle		✓				✓				✓		✓				✓	✓						✓	✓		✓		✓	
FLEET TRAINING/SUPPORT																													
Cold Water Training		✓				✓				✓						✓	✓							✓		✓		✓	
Post-Refit Sea Trial		✓				✓				✓						✓	✓							✓		✓		✓	
Anti-Submarine Warfare (ASW) Testing	✓	✓			✓	✓			✓	✓			✓	✓	✓	✓	✓				✓		✓		✓			✓	
MAINTENANCE AND MISCELLANEOUS																													
Side Scan/Multibeam Sonar		✓				✓				✓		✓				✓	✓						✓	✓		✓		✓	
Non-Acoustic Tests						✓				✓		✓				✓	✓							✓		✓		✓	
ACOUSTIC COMPONENT TEST																													
Countermeasures Testing		✓				✓				✓	✓					✓	✓							✓		✓		✓	
Acoustic Test Facility		✓																											
Pierside Integrated Swimmer Defense		✓				✓				✓						✓	✓												

Table E-4: Stressors by Testing Activity (continued)

Northwest Testing Activity	Biological Resources														Physical Resources						Human Resources								
	Acoustic Stressors						Energy Stressors		Physical Stressors				Entanglement Stressors		Ingestion Stressors	Air Quality Stressors		Sediment and Water Quality Stressors				Acoustics ¹	Physical Disturbance ¹	Accessibility ²	Airborne Acoustics ²	Physical Disturbance and Strikes ²	Underwater Energy ³	In-Air Energy ³	Physical Interactions ³
	Tactical Acoustic Sonar	Other Acoustic Devices	Underwater Explosions	In-air Explosions	Weapons Firing Noise	Aircraft Noise	Vessel and Simulated Vessel Noise	Electromagnetic	Lasers	Aircraft and Aerial Target Strikes	Vessel and In-water Device Strikes	Military Expended Materials	Seafloor Devices	Cables and Wires,	Parachutes	Military Expended Materials	Criteria Air Pollutants	Hazardous Air Pollutants	Explosives	Metals	Chemicals								
SYSTEM, SUBSYSTEM AND COMPONENT TESTING																													
Pierside Acoustic Testing		✓				✓				✓		✓				✓	✓							✓					
Performance Testing At Sea		✓				✓				✓		✓				✓	✓						✓	✓		✓			✓
Development Training and Testing		✓				✓				✓		✓				✓	✓						✓	✓		✓			✓
PROOF-OF-CONCEPT TESTING																													
Proof-of-Concept Testing		✓				✓				✓		✓				✓	✓						✓	✓		✓			✓
ACOUSTIC MEASUREMENT TESTS																													
Surface Vessel Acoustic Measurement		✓				✓				✓						✓	✓									✓			✓
Underwater Vessel Acoustic Measurement		✓				✓				✓						✓	✓									✓			✓
Underwater Vessel Hydrodynamic Performance Measurement						✓				✓						✓	✓									✓			✓
Cold Water Training		✓				✓				✓						✓	✓									✓			✓
Component System Testing		✓				✓				✓						✓	✓									✓			✓
Countermeasures Testing		✓				✓				✓						✓	✓									✓			✓
Electromagnetic Measurement		✓				✓				✓						✓	✓									✓			✓
Measurement System Repair & Replacement		✓				✓				✓						✓	✓									✓			✓
Project Operations (POPS)		✓				✓				✓						✓	✓									✓			✓
Target Strength Trial		✓				✓				✓						✓	✓									✓			✓
LIFE CYCLE ACTIVITIES																													
Pierside Sonar Testing	✓	✓																											
SHIPBOARD PROTECTION SYSTEMS AND SWIMMER DEFENSE TESTING																													
Pierside Integrated Swimmer Defense		✓																											

Table E-4: Stressors by Testing Activity (continued)

Northwest Testing Activity	Biological Resources													Physical Resources						Human Resources										
	Acoustic Stressors						Energy Stressors		Physical Stressors			Entanglement Stressors		Ingestion Stressors	Air Quality Stressors		Sediment and Water Quality Stressors				Acoustics ¹	Physical Disturbance ¹	Accessibility ²	Airborne Acoustics ²	Physical Disturbance and Strikes ²	Underwater Energy ³	In-Air Energy ³	Physical Interactions ³		
	Tactical Acoustic Sonar	Other Acoustic Devices	Underwater Explosions	In-air Explosions	Weapons Firing Noise	Aircraft Noise	Vessel and Simulated Vessel Noise	Electromagnetic	Lasers	Aircraft and Aerial Target Strikes	Vessel and In-water Device Strikes	Military Expended Materials	Seafloor Devices	Cables and Wires,	Parachutes	Military Expended Materials	Criteria Air Pollutants	Hazardous Air Pollutants	Explosives	Metals									Chemicals	Other Materials
UNMANNED VEHICLE TESTING																														
Unmanned Vehicle Development and Payload Testing		✓				✓	✓	✓		✓		✓				✓	✓							✓	✓		✓		✓	
ANTI-SURFACE WARFARE (ASUW)/ANTI-SUBMARINE WARFARE (ASW) TESTING																														
Torpedo (Explosive) Testing	✓	✓	✓			✓	✓			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
Torpedo (Non-explosive) Testing	✓	✓				✓	✓			✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓		✓	✓		✓
Countermeasure Testing		✓				✓				✓	✓			✓		✓	✓		✓		✓			✓		✓			✓	
NEW SHIP CONSTRUCTION																														
Anti-Submarine Warfare (ASW) Mission Package Testing	✓	✓				✓				✓	✓			✓	✓	✓	✓									✓			✓	
Naval Air Systems Command																														
ANTI-SUBMARINE WARFARE (ASW)																														
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (DICASS)	✓					✓	✓			✓	✓			✓	✓	✓	✓		✓	✓	✓									
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (Multistatic Active Coherent [MAC])	✓	✓				✓	✓			✓	✓			✓	✓	✓	✓		✓	✓	✓									
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (SUS)	✓		✓			✓	✓			✓	✓			✓	✓	✓	✓		✓	✓	✓									
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (IEER)	✓		✓			✓	✓			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓									
Anti-Submarine Warfare Tracking Test – Maritime Patrol Aircraft (HDC)	✓					✓	✓			✓	✓			✓	✓	✓	✓		✓	✓	✓									
ELECTRONIC WARFARE (EW)																														
Flare Test						✓				✓					✓	✓	✓			✓										

¹ Cultural resources stressor

² Socioeconomics stressor

³ Public health and safety stressor

Notes: (1) A check indicates events that take place for all alternatives. (2) ASDS = Advanced Sea, Air, Land (SEAL) Delivery System

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