

APPENDIX K ACTIVITY IMPACT DETERMINATIONS

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Final

**Supplemental Environmental Impact Statement/
Overseas Environmental Impact Statement
Atlantic Fleet Training and Testing**

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K ACTIVITY-LEVEL SIGNIFICANCE DETERMINATIONS

K.1 INTRODUCTION

The purpose of this appendix is to document impact significance determinations made under the National Environmental Policy Act (i.e., whether potential impacts are significant or not), for each military readiness activity in the Proposed Action. Conclusions under other applicable regulations, such as effects determinations under the Endangered Species Act, are separate and determined through their respective consultation processes.

K.2 METHODOLOGY

This section discusses the methodology used to make the significance determinations for each military readiness activity.

K.2.1 CONVERSION OF IMPACT DESCRIPTOR TO SIGNIFICANCE DETERMINATION

The stressor-based impact assessment included in Chapter 3 (Affected Environment and Environmental Consequences) for each resource area considered the context and intensity of stressor impacts. Four impact descriptors were used to categorize impacts: Negligible, Minor, Moderate, and Major. An impact descriptor was assigned to training and testing activities under Alternative 1 and Alternative 2, assuming implementation of mitigation measures described in Chapter 5 (Mitigation) when making the assignment. The impact descriptors were then converted to a corresponding impact significance determination of “less than significant” or “significant” for all stressors to each resource area. This conversion is shown below for each resource in Table K-1 through Table K-12.

Three resource areas were not analyzed in detail in the Supplemental Environmental Impact Statement/Overseas Environmental Impact Statement (EIS/OEIS), including Cultural Resources, Socioeconomics, and Public Health and Safety. The impact descriptors assigned to these three resource areas were based on the detailed analysis included in the 2018 [Final Atlantic Fleet Training and Testing Environmental Impact Statement/Overseas Environmental Impact Statement](#).

Table K-1: Air Quality Impact Descriptor Conversion

Stressors		Impact Descriptor				Significance Determination			
		Alternative 1		Alternative 2		Alternative 1		Alternative 2	
		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Air Quality Stressors	Criteria Pollutants	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Hazardous Pollutants	Minor	Minor	Minor	Minor	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Minor	Minor	Minor	Minor	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant
Secondary stressors not applicable to this resource area.

Table K-2: Sediments and Water Quality Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Sediment and Water Quality Stressors	Explosives and Explosives Byproducts	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Metals	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Chemicals Other than Explosives	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Other Materials	Minor	Minor	Minor	Minor	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Minor	Minor	Minor	Minor	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-3: Habitats Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Explosive Stressor	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Military Expended Materials	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Seafloor Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Pile Driving	Minor	N/A	Minor	N/A	NS	N/A	NS	N/A
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-4: Vegetation Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Explosive Stressor	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Military Expended Materials	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Seafloor Devices	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Pile Driving	Moderate	N/A	Moderate	N/A	NS	N/A	NS	N/A
Secondary Stressors	Secondary Stressors	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-5: Invertebrates Impact Descriptor Conversion

		Impact Descriptor				Significance Determination			
		Alternative 1		Alternative 2		Alternative 1		Alternative 2	
Stressors		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Acoustic Stressors	Sonar & Other Transducers	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Air Guns	N/A	Negligible	N/A	Negligible	N/A	NS	N/A	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Weapons Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Explosive Stressor	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Energy Stressors	In-Water Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Military Expended Materials	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Seafloor Devices	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Pile Driving	Moderate	N/A	Moderate	N/A	NS	N/A	NS	N/A
Entanglement Stressors	Wires & Cables	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Decelerators/ Parachutes	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Biodegradable Polymers	N/A	Minor	N/A	Minor	N/A	NS	N/A	NS
Ingestion Stressors	Military Expended Materials – Munitions	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Military Expended Materials – Other than Munitions	Minor	Minor	Minor	Minor	NS	NS	NS	NS
Secondary Stressors	Secondary Stressors	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-6: Fishes Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
Stressors		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Acoustic Stressors	Sonar & Other Transducers	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Air Guns	N/A	Minor	N/A	Minor	N/A	NS	N/A	NS
	Pile Driving	Minor	N/A	Minor	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Weapons Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Explosive Stressor	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Energy Stressors	In-Water Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Military Expended Materials	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Seafloor Devices	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
Entanglement Stressors	Wires & Cables	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Decelerators/ Parachutes	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Biodegradable Polymers	N/A	Negligible	N/A	Negligible	N/A	NS	N/A	NS
Ingestion Stressors	Military Expended Materials – Munitions	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Military Expended Materials – Other than Munitions	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
Secondary Stressors	Secondary Stressors	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-7: Marine Mammals Impact Descriptor Conversion

Stressors		Impact Descriptor				Significance Determination			
		Alternative 1		Alternative 2		Alternative 1		Alternative 2	
		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Acoustic Stressors	Sonar & Other Transducers	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Air Guns	N/A	Negligible to Moderate	N/A	Negligible to Moderate	N/A	NS	N/A	NS
	Pile Driving	Negligible to Minor	N/A	Negligible to Minor	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Weapons Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Explosive Stressor	Explosions in Water	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
Energy Stressors	In-Water Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	High-Energy Lasers	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Military Expended Materials	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Seafloor Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Entanglement Stressors	Wires & Cables	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Decelerators/ Parachutes	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Biodegradable Polymers	N/A	Negligible	N/A	Negligible	N/A	NS	N/A	NS
Ingestion Stressors	Military Expended Materials – Munitions	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Military Expended Materials – Other than Munitions	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Secondary Stressors	Secondary Stressors	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-8: Reptiles Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Acoustic Stressors	Sonar & Other Transducers	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Air Guns	N/A	Minor	N/A	Minor	N/A	NS	N/A	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Weapons Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Explosive Stressor	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Energy Stressors	In-Water Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	High-Energy Lasers	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Military Expended Materials	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Seafloor Devices	Negligible to Minor	Negligible to Minor	Negligible to Minor	Negligible to Minor	NS	NS	NS	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
Entanglement Stressors	Wires & Cables	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Decelerators/ Parachutes	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Biodegradable Polymers	N/A	Negligible	N/A	Negligible	N/A	NS	N/A	NS
Ingestion Stressors	Military Expended Materials – Munitions	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
	Military Expended Materials – Other than Munitions	Minor to Moderate	Minor to Moderate	Minor to Moderate	Minor to Moderate	NS	NS	NS	NS
Secondary Stressors	Secondary Stressors	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-9: Birds and Bats Impact Descriptor Conversion

Stressors		Impact Descriptor				Significance Determination			
		Alternative 1		Alternative 2		Alternative 1		Alternative 2	
		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Acoustic Stressors	Sonar & Other Transducers	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Air Guns	N/A	Negligible	N/A	Negligible	N/A	NS	N/A	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft Noise	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	Weapons Noise	Minor	Minor	Minor	Minor	NS	NS	NS	NS
Explosive Stressor	Explosions in Air	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Explosions in Water	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
Energy Stressors	In-Water Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	In-Air Electromagnetic Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	High-Energy Lasers	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft and Aerial Targets	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS
	Military Expended Materials	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Entanglement Stressors	Wires & Cables	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Decelerators/ Parachutes	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Ingestion Stressors	Military Expended Materials – Other than Munitions	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Secondary Stressors	Secondary Stressors	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	Negligible to Moderate	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Moderate	Moderate	Moderate	Moderate	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant

Table K-10: Cultural Resources Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Explosive Stressor	Explosions in Water	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Supersonic Overflights (causing sonic booms)	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Vessel & In-Water Device Strike	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Military Expended Materials	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Seafloor Devices	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant
Secondary stressors not applicable to this resource area.

Table K-11: Socioeconomics Impact Descriptor Conversion

		<i>Impact Descriptor</i>				<i>Significance Determination</i>			
		<i>Alternative 1</i>		<i>Alternative 2</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
<i>Stressors</i>		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Accessibility Stressors	Access on the Ocean	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Access in the Air	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Airborne Acoustics Stressors	Weapons Firing	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Aircraft	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Pile Driving	Negligible	N/A	Negligible	N/A	NS	N/A	NS	N/A
	Vessel Noise	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Physical Disturbance & Strike Stressors	Aircraft Strike	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Vessel & In-Water Device Strike	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
	Military Expended Materials	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Negligible	Negligible	Negligible	Negligible	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant
Secondary stressors not applicable to this resource area.

Table K-12: Public Health and Safety Impact Descriptor Conversion

Stressors		Impact Descriptor				Significance Determination			
		Alternative 1		Alternative 2		Alternative 1		Alternative 2	
		Training	Testing	Training	Testing	Training	Testing	Training	Testing
Energy Stressors	In-Water Energy	Minor	Minor	Minor	Minor	NS	NS	NS	NS
	In-Air Energy	Minor	Negligible	Minor	Negligible	NS	NS	NS	NS
Physical Interaction Stressors	Physical Interactions	Minor	Minor	Minor	Minor	NS	NS	NS	NS
Combined Impacts of all Stressors	Combined Impacts of all Stressors	Minor	Minor	Minor	Minor	NS	NS	NS	NS

Notes: N/A = Not Applicable; NS = Less than Significant; S = Significant
Secondary stressors not applicable to this resource area.

K.3 ACTIVITY-LEVEL SIGNIFICANCE DETERMINATION

The significance determinations for stressors and their resource-specific impacts made in [Section K.2.1](#) (Conversion and Impact Descriptor to Significance Determination) were then mapped to each military readiness activity to make activity-level significance determinations using the Appendix B (Activity Stressor Matrices) stressor tables that identify the stressors and the resources potentially impacted for each of the 158 military readiness activities.

[Section K.3.1](#) (Training Activity Significance Determinations) and [Section K.3.2](#) (Testing Activity Significance Determinations) below combine these two data elements into a significance determination summary table for each military readiness activity. Each table indicates (1) which stressors are associated with the activity, and (2) whether the stressor has a significant impact on each applicable resource.

The significance conclusions from Chapter 3 (Affected Environment and Environmental Consequences) represent the combined impacts to a resource from all the military readiness activities. If a significance conclusion is found to be less than significant for a resource from all military readiness activities analyzed collectively, then each individual activity associated with that stressor also has less than significant impacts to that resource. By mapping the stressors and their resource-specific significance conclusions back to each activity separately, an overall impact significance determination can be made for each military readiness activity.

A finding of no significant impact under the National Environmental Policy Act is applicable to any military readiness activity within 12 nautical miles of the coast of the United States with stressors that each have less than significant impacts to all applicable resource areas. When activities occur beyond 12 nautical miles, the “less than significant” impact determination is assumed to be more stringent than the threshold for a Finding of No Significant Harm under Executive Order 12114, *Environmental Effects Abroad of Major Federal Actions*. Therefore, all activities with a less than significant impact determination will also have no significant harm to the global commons within the Study Area under Executive Order 12114.

K.3.1 TRAINING ACTIVITY SIGNIFICANCE DETERMINATIONS

K.3.1.1 Major Training Exercise – Large Integrated Anti-Submarine Warfare

Table K-13: Composite Training Unit Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.2 Major Training Exercise – Medium Integrated Anti-Submarine Warfare

Table K-14: Sustainment/Task Force Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.3 Small Integrated Anti-Submarine Warfare Training

Table K-15: Navy Undersea Warfare Training Assessment Course – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-16: Surface Warfare Advanced Tactical Training – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.4 Medium Coordinated Anti-Submarine Warfare Training

Table K-17: Anti-Submarine Warfare Tactical Development Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.5 Small Coordinated Anti-Submarine Warfare Training

Table K-18: Amphibious Ready Group Marine Expeditionary Unit Composite Training Unit Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-19: Group Sail – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.6 Air Warfare

Table K-20: Air Combat Maneuvers – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-21: Air Defense Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-22: Gunnery Exercise Air-to-Air Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-23: Gunnery Exercise Air-to-Air Small-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-24: Gunnery Exercise Surface-to-Air Large-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-25: Gunnery Exercise Surface-to-Air Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-26: Missile Exercise – Man-Portable Air Defense System – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Air									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-27: Missile Exercise Air-to-Air – Significance Determination Summary

<i>Stressor</i>	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-28: Missile Exercise Surface-to-Air – Significance Determination Summary

<i>Stressor</i>	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.7 Amphibious Warfare**Table K-29: Amphibious Assault – Significance Determination Summary**

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-30: Amphibious Operations in a Contested Environment – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-31: Amphibious Raid – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-32: Amphibious Ready Group Marine Expeditionary Unit Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-33: Amphibious Squadron Marine Expeditionary Unit Integration Training – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-34: Amphibious Vehicle Maneuvers – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-35: Naval Surface Fire Support Exercise – At Sea – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-36: Naval Surface Fire Support Exercise – Land-Based Target – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-37: Non-Combat Evacuation Operation – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.8 Anti-Submarine Warfare

Table K-38: Anti-Submarine Warfare Torpedo Exercise – Helicopter – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-39: Anti-Submarine Warfare Torpedo Exercise – Maritime Patrol Aircraft –
Significance Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-40: Anti-Submarine Warfare Torpedo Exercise – Ship – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-41: Anti-Submarine Warfare Torpedo Exercise – Submarine – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-42: Anti-Submarine Warfare Tracking Exercise – Helicopter – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-43: Anti-Submarine Warfare Tracking Exercise – Maritime Patrol Aircraft –
Significance Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-44: Anti-Submarine Warfare Tracking Exercise – Ship – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-45: Anti-Submarine Warfare Tracking Exercise – Submarine – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.9 Electronic Warfare

Table K-46: Counter Targeting Chaff Exercise – Aircraft – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-47: Counter Targeting Chaff Exercise – Ship – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-48: Counter Targeting Flare Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-49: Electronic Warfare Operations – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-50: High-Speed Anti-Radiation Missile Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.10 Expeditionary Warfare

Table K-51: Dive and Salvage Operations – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-52: Personnel Insertion/Extraction – Air – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-53: Personnel Insertion/Extraction – Surface and Subsurface – Significance
Determination Summary**

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-54: Personnel Insertion/Extraction – Swimmer/Diver – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-55: Port Damage Repair – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Pile Driving Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Pile Driving			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-56: Underwater Construction Team Training – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-57: Airborne Mine Countermeasures – Mine Detection – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-58: Airborne Mine Countermeasures – Towed Mine Neutralization – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-59: Airborne Mine Laying – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-60: Civilian Port Defense – Homeland Security Anti-Terrorism/Force Protection Exercises – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-61: Coordinated Unit Level Helicopter Airborne Mine Countermeasures Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-62: Installation and Maintenance of Mine Training Areas – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike												
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-63: Mine Neutralization Explosive Ordnance Disposal – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-64: Submarine Mine Laying – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-65: Surface Ship Object Detection – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-66: Underwater Mine Countermeasure Raise, Tow, Beach and Exploitation Operations – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.12 Surface Warfare

Table K-67: Bombing Exercise Air-to-Surface – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-68: Gunnery Exercise Air-to-Surface Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-69: Gunnery Exercise Air-to-Surface Small-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-70: Gunnery Exercise Surface-to-Surface Boat Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-71: Gunnery Exercise Surface-to-Surface Boat Small-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-72: Gunnery Exercise Surface-to-Surface Ship Large-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-73: Gunnery Exercise Surface-to-Surface Ship Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-74: Gunnery Exercise Surface-to-Surface Ship Small-Caliber – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-75: Integrated Live Fire Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-76: Laser Targeting – Aircraft – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-77: Laser Targeting – Ship – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-78: Long Range Unmanned Surface Vessel Training – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-79: Maritime Security Operations – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-80: Missile Exercise Air-to-Surface – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Vessels and In-Water Devices			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-81: Missile Exercise Air-to-Surface - Rocket – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Vessels and In-Water Devices			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-82: Missile Exercise Surface-to-Surface – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-83: Sinking Exercise – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-84: Small Boat Attack – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.1.13 Other Training

Table K-85: Precision Anchoring – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-86: Search and Rescue – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-87: Submarine Navigation – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-88: Submarine Sonar Maintenance and Systems Checks – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-89: Submarine Under Ice Certification – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-90: Surface Ship Sonar Maintenance and Systems Checks – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-91: Unmanned Aerial System Training and Certification – Significance
Determination Summary**

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-92: Unmanned Underwater Vehicle Training - Certification and Development – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-93: Waterborne Training – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2 TESTING ACTIVITY SIGNIFICANCE DETERMINATIONS

K.3.2.1 Acoustic and Oceanographic Science and Technology

Table K-94: Acoustic and Oceanographic Research – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Air Guns					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-95: Large Displacement Unmanned Undersea Vehicle Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-96: Mine Countermeasure Technology Research Testing – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.2 Air Warfare

Table K-97: Air Combat Maneuvers Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Materials			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment and Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-98: Air Platform Vehicle Test – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-99: Air Platform Weapons Integration Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Vessels and In-Water Devices			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-100: Air-to-Air Gunnery Test – Medium-Caliber – Significance Determination
Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-101: Air-to-Air Missile Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-102: Air-to-Air Weapons System Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-103: Intelligence, Surveillance, and Reconnaissance Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance and Strikes										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health and Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.3 Amphibious Warfare

Table K-104: Amphibious Vessel Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.4 Anti-Submarine Warfare

Table K-105: Anti-Submarine Warfare Mission Package Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-106: Anti-Submarine Warfare Torpedo Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-107: Anti-Submarine Warfare Tracking Test (Fixed-Wing) – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-108: Anti-Submarine Warfare Tracking Test (Rotary Wing) – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-109: At-Sea Sonar Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Device			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-110: Kilo Dip Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-111: Pierside Sonar Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-112: Sonobuoy Lot Acceptance Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-113: Surface Ship Sonar Testing/Maintenance – Significance Determination
Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-114: Torpedo (Explosive) Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-115: Torpedo (Non-Explosive) Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-116: Chaff Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-117: Electronic Systems Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-118: Flare Test – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-119: Radar and Other Systems Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Air									NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessels and In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Device			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials - Munitions					NS	NS	NS	NS				
Military Expended Materials - Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives and Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.6 Mine Warfare

Table K-120: Airborne Dipping Sonar Minehunting Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-121: Airborne Laser Mine Detection System Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-122: Airborne Mine Neutralization System Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-123: Airborne Sonobuoy Minehunting Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-124: Mine Countermeasure and Neutralization Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-125: Mine Countermeasure Mission Package Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-126: Mine Detection and Classification Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-127: Mine Laying Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-128: Air-to-Surface Bombing Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-129: Air-to-Surface Gunnery Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-130: Air-to-Surface High-Energy Laser Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other Than Munitions					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediments and Water Quality Stressors												
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-131: Air-to-Surface Missile Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-132: Gun Testing - Large-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-133: Gun Testing - Medium-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-134: Gun Testing – Small-Caliber – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-135: Laser Targeting Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-136: Maritime Security Operations – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-137: Missile and Rocket Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-138: Rocket Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.8 Unmanned Systems

Table K-139: Underwater Search, Deploy, and Recovery – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-140: Unmanned Aerial System Testing – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-141: Unmanned Surface Vehicle System Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-142: Unmanned Underwater Vehicle Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-143: Air Defense Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-144: In-Port Maintenance Testing – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-145: Propulsion Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

**Table K-146: Signature Analysis Operations – Propulsion Testing – Significance
Determination Summary**

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-147: Small Ship Shock Trial – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-148: Submarine Sea Trials – Propulsion Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-149: Submarine Sea Trials – Weapons System Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-150: Surface Warfare Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-151: Undersea Warfare Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Explosions in Air									NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-152: Vessel Signature Evaluation – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.3.2.10 Other Testing Activities

Table K-153: Acoustic and Oceanographic Research – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-154: Acoustic Component Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
High-Energy Lasers							NS	NS	NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-155: Air Platform Shipboard Integration Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-156: Simulant Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-157: Countermeasure Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Water Electromagnetic Devices					NS	NS	NS	NS	NS			
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Biodegradable Polymers					NS	NS	NS	NS				
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-158: Insertion/Extraction – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-159: Intelligence, Surveillance, Reconnaissance – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Air Guns					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Wires & Cables					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-160: Line Charge Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-161: Non-Acoustic Component Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Aircraft Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Aircraft & Aerial Target Strike									NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Cultural Resource Stressors												
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-162: Payload Deployer Testing – Significance Determination Summary

<i>Stressor</i>	<i>Resource Areas</i>											
	<i>Physical</i>		<i>Biological</i>							<i>Human</i>		
	<i>Air Quality</i>	<i>Sediment & Water Quality</i>	<i>Habitats</i>	<i>Vegetation</i>	<i>Invertebrates</i>	<i>Fishes</i>	<i>Marine Mammals</i>	<i>Reptiles</i>	<i>Birds & Bats</i>	<i>Cultural Resources</i>	<i>Socioeconomics</i>	<i>Public Health & Safety</i>
Acoustic Stressors												
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Munitions					NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Chemicals Other than Explosives		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-163: Semi-Stationary Equipment Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Weapons Noise					NS	NS	NS	NS	NS			
Air Guns					NS	NS	NS	NS	NS			
Explosive Stressors												
Explosions in Water			NS	NS	NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Entanglement Stressors												
Decelerators/Parachutes					NS	NS	NS	NS	NS			
Ingestion Stressors												
Military Expended Materials – Other					NS	NS	NS	NS	NS			
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Explosives & Explosive By-Products		NS										
Metals		NS										
Chemicals Other than Explosives		NS										
Other Materials		NS										
Cultural Resource Stressors												
Explosives										NS		
Physical Disturbance & Strike										NS		
Socioeconomic Resource Stressors												
Accessibility											NS	
Airborne Acoustics											NS	
Physical Disturbance & Strike											NS	
Public Health & Safety Stressors												
In-Water Energy												NS
In-Air Energy												NS
Physical Interactions												NS

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-164: Towed Equipment Testing – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

Table K-165: Undersea Range System Test – Significance Determination Summary

Stressor	Resource Areas											
	Physical		Biological							Human		
	Air Quality	Sediment & Water Quality	Habitats	Vegetation	Invertebrates	Fishes	Marine Mammals	Reptiles	Birds & Bats	Cultural Resources	Socioeconomics	Public Health & Safety
Acoustic Stressors												
Sonar & Other Transducers					NS	NS	NS	NS	NS			
Vessel Noise					NS	NS	NS	NS	NS			
Energy Stressors												
In-Air Electromagnetic Devices									NS			
Physical Disturbance & Strike Stressors												
Vessel & In-Water Device Strike			NS	NS	NS	NS	NS	NS	NS			
Military Expended Material			NS	NS	NS	NS	NS	NS	NS			
Seafloor Devices			NS	NS	NS	NS	NS	NS				
Air Quality Stressors												
Criteria Air Pollutants	NS											
Sediment & Water Quality Stressors												
Metals		NS										
Other Materials		NS										

Notes: Blank = Not Applicable; NS = Less than Significant; S = Significant

K.4 ACTIVITY-LEVEL SIGNIFICANCE DETERMINATIONS

Based on methodology described in [Section K.2](#) (Methodology) and using the summary tables in [Section K.3.1](#) (Training Activity Significance Determinations) and [Section K.3.2](#) (Testing Activity Significance

Determinations), the military readiness activities with less than significant impacts to the quality of the human environment under the National Environmental Policy Act are listed in Table K-166 and Table K-167.¹ Activity-level significance determinations assume implementation of mitigation measures described in Chapter 5 (Mitigation). Mitigation was developed in coordination with regulators and cooperating agencies, and was designed to be implemented under every action alternative carried forward.

Table K-166: Training Activities with Less than Significant Impacts

Warfare Area	Training Activity
Major Training Exercise - Large Integrated Anti-Submarine Warfare	<ul style="list-style-type: none"> Composite Training Unit Exercise
Major Training Exercise - Medium Integrated Anti-Submarine Warfare	<ul style="list-style-type: none"> Sustainment/Task Force Exercise
Small Integrated Anti-Submarine Warfare Training	<ul style="list-style-type: none"> Navy Undersea Warfare Training Assessment Course Surface Warfare Advanced Tactical Training
Medium Coordinated Anti-Submarine Warfare Training	<ul style="list-style-type: none"> Anti-Submarine Warfare Tactical Development Exercise
Small Coordinated Anti-Submarine Warfare Training	<ul style="list-style-type: none"> Amphibious Ready Group Marine Expeditionary Unit Composite Training Unit Exercise Group Sail
Air Warfare	<ul style="list-style-type: none"> Air Combat Maneuvers Air Defense Exercise Gunnery Exercise Air-to-Air Medium-Caliber Gunnery Exercise Air-to-Air Small-Caliber Gunnery Exercise Surface-to-Air Large-Caliber Gunnery Exercise Surface-to-Air Medium-Caliber Missile Exercise – Man-Portable Air Defense System Missile Exercise Air-to-Air Missile Exercise Surface-to-Air
Amphibious Warfare	<ul style="list-style-type: none"> Amphibious Assault Amphibious Operations in a Contested Environment Amphibious Raid Amphibious Ready Group Marine Expeditionary Unit Exercise Amphibious Squadron Marine Expeditionary Unit Integration Training Amphibious Vehicle Maneuvers Naval Surface Fire Support Exercise – At Sea Naval Surface Fire Support Exercise – Land-Based Target Non-combat Evacuation Operation

¹ The National Environmental Policy Act threshold for a Finding of No Significant Impact determination is assumed to be more stringent than the threshold for a Finding of No Significant Harm under Executive Order 12114, *Environmental Effects Abroad of Major Federal Actions*. Therefore, all activities with a less than significant impact to the human environment under the National Environmental Policy Act will also have no significant harm to the global commons within the Study Area under Executive Order 12114.

Table K-166: Training Activities with Less than Significant Impacts (continued)

Warfare Area	Training Activity
Anti-Submarine Warfare	<ul style="list-style-type: none"> • Anti-Submarine Warfare Torpedo Exercise – Helicopter • Anti-Submarine Warfare Torpedo Exercise – Maritime Patrol Aircraft • Anti-Submarine Warfare Torpedo Exercise – Ship • Anti-Submarine Warfare Torpedo Exercise – Submarine • Anti-Submarine Warfare Tracking Exercise – Helicopter • Anti-Submarine Warfare Tracking Exercise – Maritime Patrol Aircraft • Anti-Submarine Warfare Tracking Exercise – Ship • Anti-Submarine Warfare Tracking Exercise – Submarine
Electronic Warfare	<ul style="list-style-type: none"> • Counter Targeting Chaff Exercise – Aircraft • Counter Targeting Chaff Exercise – Ship • Counter Targeting Flare Exercise • Electronic Warfare Operations • High Speed Anti-Radiation Missile Exercise
Expeditionary Warfare	<ul style="list-style-type: none"> • Dive and Salvage Operations • Personnel Insertion/Extraction – Air • Personnel Insertion/Extraction – Surface and Subsurface • Personnel Insertion/Extraction – Swimmer/Diver • Port Damage Repair • Underwater Construction Team Training
Mine Warfare	<ul style="list-style-type: none"> • Airborne Mine Countermeasures - Mine Detection • Airborne Mine Countermeasures – Towed Mine Neutralization • Airborne Mine Laying • Civilian Port Defense – Homeland Security Anti-Terrorism/Force Protection Exercises • Coordinated Unit Level Helicopter Airborne Mine • Installation and Maintenance of Mine Training Areas • Mine Countermeasures – Mine Neutralization – Remotely Operated Vehicles • Mine Countermeasures – Ship Sonar • Mine Neutralization Explosive Ordnance Disposal • Submarine Mine Laying • Surface Ship Object Detection • Underwater Mine Countermeasure Raise, Tow, Beach and Exploitation Operations
Surface Warfare	<ul style="list-style-type: none"> • Bombing Exercise Air-to-Surface • Gunnery Exercise Air-to-Surface Medium-Caliber • Gunnery Exercise Air-to-Surface Small-Caliber • Gunnery Exercise Surface-to-Surface Boat Medium-Caliber • Gunnery Exercise Surface-to-Surface Boat Small-Caliber • Gunnery Exercise Surface-to-Surface Ship - Large-Caliber • Gunnery Exercise Surface-to-Surface Ship - Medium-Caliber • Gunnery Exercise Surface-to-Surface Ship Small-Caliber • Integrated Live Fire Exercise • Laser Targeting – Aircraft • Laser Targeting – Ship • Long-Range Unmanned Surface Vessel Training

Table K-166: Training Activities with Less than Significant Impacts (continued)

Warfare Area	Training Activity
Surface Warfare (continued)	<ul style="list-style-type: none"> • Maritime Security Operations • Missile Exercise Air-to-Surface • Missile Exercise Air-to-Surface – Rocket • Missile Exercise Surface-to-Surface • Sinking Exercise • Small Boat Attack
Other Training Activities	<ul style="list-style-type: none"> • Precision Anchoring • Search and Rescue • Submarine Navigation • Submarine Sonar Maintenance and Systems Checks • Submarine Under Ice Certification • Surface Ship Sonar Maintenance and Systems Checks • Unmanned Aerial System Training and Certification • Unmanned Underwater Vehicle Training - Certification and Development • Waterborne Training

Table K-167: Testing Activities with Less than Significant Impacts

Warfare Area	Testing Activity
Acoustic and Oceanographic Science and Technology	<ul style="list-style-type: none"> • Acoustic and Oceanographic Research • Large Displacement Unmanned Undersea Vehicle Testing • Mine Countermeasure Technology Research
Air Warfare	<ul style="list-style-type: none"> • Air Combat Maneuvers Test • Air Platform Vehicle Test • Air Platform Weapons Integration Test • Air-to-Air Gunnery Test – Medium-Caliber • Air-to-Air Missile Test • Air-to-Air Weapons System Test • Intelligence, Surveillance, and Reconnaissance Test
Amphibious Warfare	<ul style="list-style-type: none"> • Amphibious Vessel Testing
Anti-Submarine Warfare	<ul style="list-style-type: none"> • Anti-Submarine Warfare Mission Package Testing • Anti-Submarine Warfare Torpedo Test • Anti-Submarine Warfare Tracking Test (Fixed-Wing) • Anti-Submarine Warfare Tracking Test (Rotary Wing) • At-Sea Sonar Testing • Kilo Dip Test • Pierside Sonar Testing • Sonobuoy Lot Acceptance Test • Surface Ship Sonar Testing/Maintenance • Torpedo (Explosive) Testing • Torpedo (Non-Explosive) Testing
Electronic Warfare	<ul style="list-style-type: none"> • Chaff Test • Electronic Systems Test • Flare Test • Radar and Other Systems Testing

Table K-167: Testing Activities with Less than Significant Impacts (continued)

Warfare Area	Testing Activity
Mine Warfare	<ul style="list-style-type: none"> • Airborne Dipping Sonar Minehunting Test • Airborne Laser Mine Detection System Test • Airborne Mine Neutralization System Test • Airborne Sonobuoy Minehunting Test • Mine Countermeasure and Neutralization Testing • Mine Countermeasure Mission Package Testing • Mine Detection and Classification Testing • Mine Laying Test
Surface Warfare	<ul style="list-style-type: none"> • Air-to-Surface Bombing Test • Air-to-Surface Gunnery Test • Air-to-Surface High-Energy Laser Test • Air-to-Surface Missile Test • Gun Testing - Large-Caliber • Gun Testing - Medium-Caliber • Gun Testing - Small-Caliber • Laser Targeting Test • Maritime Security Operations • Missile and Rocket Testing • Rocket Test
Unmanned Systems	<ul style="list-style-type: none"> • Underwater Search, Deployment, and Recovery • Unmanned Aerial System Testing • Unmanned Surface Vehicle System Testing • Unmanned Underwater Vehicle Testing
Vessel Evaluation	<ul style="list-style-type: none"> • Air Defense Testing • In-Port Maintenance Testing • Propulsion Testing • Signature Analysis Operations • Small Ship Shock Trial • Submarine Sea Trials – Propulsion Testing • Submarine Sea Trials – Weapons System Testing • Surface Warfare Testing • Undersea Warfare Testing • Vessel Signature Evaluation
Other Testing Activities	<ul style="list-style-type: none"> • Acoustic and Oceanographic Research • Acoustic Component Testing • Air Platform Shipboard Integration Test • Simulant Testing • Non-Acoustic Component Testing • Countermeasure Testing • Insertion/Extraction • Intelligence, Surveillance, Reconnaissance • Line Charge Testing • Non-Acoustic Component Testing • Payload Deployer Testing • Semi-Stationary Equipment Testing

Table K-167: Testing Activities with Less than Significant Impacts (continued)

Warfare Area	Testing Activity
Other Testing Activities (continued)	<ul style="list-style-type: none">• Towed Equipment Testing• Undersea Range System Test