

## **APPENDIX B**

### **ACTIVITY STRESSOR MATRICES**

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**Draft**

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

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B ACTIVITY STRESSORS

Table B-1: Stressors by Training Activity

| Atlantic Fleet Training Activity                                                  | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        | Physical Resources |                         |                                         |                                                    |                                       |                                      | Human Resources |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
|-----------------------------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|------------------------|--------------------|-------------------------|-----------------------------------------|----------------------------------------------------|---------------------------------------|--------------------------------------|-----------------|---------------------------------|-----------------------------|----------------------------------|---------------------------------|---------------|------------------------------------|---------------------------------|-----------------|---------------|-----------------------|---|
|                                                                                   | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 | Entanglement Stressors |                    | Ingestion Stressors     |                                         | Air Quality Stressors                              | Sediments and Water Quality Stressors |                                      |                 |                                 | Cultural Resource Stressors | Socioeconomic Resource Stressors |                                 |               | Public Health and Safety Stressors |                                 |                 |               |                       |   |
|                                                                                   | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving           | Wires and Cables   | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants               | Explosives and Explosive By-Products | Metals          | Chemicals Other than explosives | Other Materials             | Explosives                       | Physical Disturbance and Strike | Accessibility | Airborne Acoustics                 | Physical Disturbance and Strike | In-Water Energy | In-Air Energy | Physical Interactions |   |
| Major Training Exercise - Large Integrated Anti-Submarine Warfare                 |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Composite Training Unit Exercise                                                  | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Major Training Exercise - Medium Integrated Anti-Submarine Warfare                |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Sustainment/Task Force Exercise                                                   | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Small Integrated Anti-Submarine Warfare Training                                  |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Navy Undersea Warfare Training Assessment Course                                  | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Surface Warfare Advanced Tactical Training                                        | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Medium Coordinated Anti-Submarine Warfare Training                                |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Anti-Submarine Warfare Tactical Development Exercise                              | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Small Coordinated Anti-Submarine Warfare Training                                 |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Amphibious Ready Group Marine Expeditionary Unit Composite Training Unit Exercise | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Group Sail                                                                        | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |                        | ✓                  | ✓                       | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓               | ✓                               | ✓                           | ✓                                |                                 |               |                                    |                                 |                 |               |                       |   |
| Air Warfare                                                                       |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                    |                         |                                         |                                                    |                                       |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Air Combat Maneuvers                                                              |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 |                            | ✓               |                        |                    |                         |                                         |                                                    | ✓                                     |                                      |                 |                                 |                             |                                  |                                 | ✓             | ✓                                  |                                 | ✓               |               | ✓                     | ✓ |
| Air Defense Exercise                                                              |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            |                 |                        |                    |                         |                                         |                                                    | ✓                                     |                                      |                 |                                 |                             |                                  |                                 |               |                                    |                                 |                 |               |                       |   |
| Gunnery Exercise Air-to-Air Medium-Caliber                                        |                             |              |              | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |                        |                    |                         | ✓                                       |                                                    | ✓                                     |                                      | ✓               |                                 | ✓                           |                                  |                                 |               |                                    |                                 |                 |               |                       |   |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                                   | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                      |                                       |                                 | Human Resources |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
|--------------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|---------------------------------------|---------------------------------|-----------------|------------|---------------------------------|---------------|----------------------------------|---------------------------------|-----------------|------------------------------------|-----------------------|---|
|                                                                    | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   |                                      | Sediments and Water Quality Stressors |                                 |                 |            | Cultural Resource Stressors     |               | Socioeconomic Resource Stressors |                                 |                 | Public Health and Safety Stressors |                       |   |
|                                                                    | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                                | Chemicals Other than Explosives | Other Materials | Explosives | Physical Disturbance and Strike | Accessibility | Airborne Acoustics               | Physical Disturbance and Strike | In-Water Energy | In-Air Energy                      | Physical Interactions |   |
| Gunnery Exercise Air-to-Air – Small-Caliber                        |                             |              |              | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         |                                         | ✓                                                  |                         | ✓                                    |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Gunnery Exercise Surface-to-Air Large-Caliber                      |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  |                         | ✓                                    |                                       |                                 | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Gunnery Exercise Surface-to-Air Large-Caliber (USCG)               |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  |                         | ✓                                    | ✓                                     |                                 | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Gunnery Exercise Surface-to-Air Medium-Caliber                     |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  |                         |                                      | ✓                                     |                                 | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Gunnery Exercise Surface-to-Air Medium-Caliber (USCG)              |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  |                         |                                      | ✓                                     |                                 | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Missile Exercise – Man-Portable Air Defense System                 |                             |              |              | ✓              | ✓             |          |                     | ✓                 |                                  |                                |                    |                                           | ✓                                 | ✓                          | ✓               |              |                        |                         |                                         | ✓                                                  |                         | ✓                                    | ✓                                     | ✓                               | ✓               |            |                                 | ✓             | ✓                                | ✓                               | ✓               |                                    | ✓                     | ✓ |
| Missile Exercise Air-to-Air                                        |                             |              |              | ✓              | ✓             |          |                     | ✓                 |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        | ✓                       |                                         | ✓                                                  |                         | ✓                                    | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Missile Exercise Surface-to-Air                                    |                             |              | ✓            |                | ✓             |          |                     | ✓                 |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        | ✓                       |                                         | ✓                                                  |                         | ✓                                    | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Amphibious Warfare                                                 |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |
| Amphibious Assault                                                 |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |
| Amphibious Operations in a Contested Environment                   |                             |              | ✓            | ✓              | ✓             |          | ✓                   | ✓                 |                                  | ✓                              | ✓                  | ✓                                         | ✓                                 | ✓                          | ✓               |              |                        |                         |                                         | ✓                                                  |                         | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |
| Amphibious Raid                                                    |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |
| Amphibious Ready Group Marine Expeditionary Unit Exercise          |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |
| Amphibious Squadron Marine Expeditionary Unit Integration Training |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                                    | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                       |        |                                 | Human Resources |                             |                                 |                                  |                    |                                 |                                    |               |                       |
|---------------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|---------------------------------------|--------|---------------------------------|-----------------|-----------------------------|---------------------------------|----------------------------------|--------------------|---------------------------------|------------------------------------|---------------|-----------------------|
|                                                                     | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   | Sediments and Water Quality Stressors |        |                                 |                 | Cultural Resource Stressors |                                 | Socioeconomic Resource Stressors |                    |                                 | Public Health and Safety Stressors |               |                       |
|                                                                     | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products  | Metals | Chemicals Other than Explosives | Other Materials | Explosives                  | Physical Disturbance and Strike | Accessibility                    | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy                    | In-Air Energy | Physical Interactions |
| Amphibious Vehicle Maneuvers                                        |                             |              | ✓            |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                       |        |                                 |                 |                             | ✓                               | ✓                                | ✓                  | ✓                               | ✓                                  | ✓             | ✓                     |
| Naval Surface Fire Support Exercise - At Sea                        |                             |              | ✓            |                | ✓             |          |                     |                   | ✓                                |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                       | ✓      | ✓                               | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |
| Naval Surface Fire Support Exercise - Land-Based Target             |                             |              | ✓            |                | ✓             |          | ✓                   |                   | ✓                                |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                     | ✓      |                                 |                 | ✓                           | ✓                               | ✓                                | ✓                  | ✓                               | ✓                                  | ✓             | ✓                     |
| Non-Combat Evacuation Operation                                     |                             |              | ✓            | ✓              |               |          |                     |                   | ✓                                |                                |                    | ✓                                         | ✓                                 |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                       |        |                                 |                 |                             | ✓                               | ✓                                | ✓                  | ✓                               | ✓                                  | ✓             | ✓                     |
| Anti-Submarine Warfare                                              |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                       |        |                                 |                 |                             |                                 |                                  |                    |                                 |                                    |               |                       |
| 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                | ✓                           |              |              |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          | ✓               |              | ✓                      |                         |                                         | ✓                                                  | ✓                       |                                       | ✓      | ✓                               | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                        | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                      |                                       |                                 | Human Resources |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
|---------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|---------------------------------------|---------------------------------|-----------------|------------|---------------------------------|---------------|----------------------------------|---------------------------------|-----------------|------------------------------------|-----------------------|--|
|                                                         | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   |                                      | Sediments and Water Quality Stressors |                                 |                 |            | Cultural Resource Stressors     |               | Socioeconomic Resource Stressors |                                 |                 | Public Health and Safety Stressors |                       |  |
|                                                         | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                                | Chemicals Other than Explosives | Other Materials | Explosives | Physical Disturbance and Strike | Accessibility | Airborne Acoustics               | Physical Disturbance and Strike | In-Water Energy | In-Air Energy                      | Physical Interactions |  |
| Electronic Warfare                                      |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Counter Targeting Chaff Exercise - Aircraft             |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Counter Targeting Chaff Exercise - Ship                 |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Counter Targeting Chaff Exercise - Ship (USCG)          |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Counter Targeting Flare Exercise                        |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Electronic Warfare Operations                           |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 |                            |                 |              |                        |                         |                                         | ✓                                                  |                         |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| High-Speed Anti-Radiation Missile Exercise              |                             |              |              | ✓              | ✓             |          | ✓                   |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| Expeditionary Warfare                                   |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |  |
| 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                   |                             |              | ✓            |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   |                            | ✓               |              |                        |                         |                                         | ✓                                                  |                         |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     |  |



Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                                                   | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                       |        |                                 | Human Resources |                             |                                  |               |                    |                                    |                 |               |                       |   |  |  |  |  |
|------------------------------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|---------------------------------------|--------|---------------------------------|-----------------|-----------------------------|----------------------------------|---------------|--------------------|------------------------------------|-----------------|---------------|-----------------------|---|--|--|--|--|
|                                                                                    | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   | Sediments and Water Quality Stressors |        |                                 |                 | Cultural Resource Stressors | Socioeconomic Resource Stressors |               |                    | Public Health and Safety Stressors |                 |               |                       |   |  |  |  |  |
|                                                                                    | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products  | Metals | Chemicals Other than Explosives | Other Materials | Explosives                  | Physical Disturbance and Strike  | Accessibility | Airborne Acoustics | Physical Disturbance and Strike    | In-Water Energy | In-Air Energy | Physical Interactions |   |  |  |  |  |
| Mine Warfare                                                                       |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                       |        |                                 |                 |                             |                                  |               |                    |                                    |                 |               |                       |   |  |  |  |  |
| Airborne Mine Countermeasures - Mine Detection                                     | ✓                           |              |              | ✓              |               |          |                     |                   | ✓                                | ✓                              |                    |                                           | ✓                                 | ✓                          | ✓               |              | ✓                      |                         |                                         |                                                    | ✓                       |                                       | ✓      |                                 | ✓               |                             | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |  |  |
| Airborne Mine Countermeasures - Towed Mine Neutralization                          |                             |              |              | ✓              |               |          |                     |                   | ✓                                | ✓                              |                    |                                           | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                       |        |                                 |                 |                             | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |  |  |
| Airborne Mine Laying                                                               |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         |                                         |                                                    | ✓                       |                                       | ✓      | ✓                               | ✓               | ✓                           | ✓                                | ✓             | ✓                  | ✓                                  | ✓               |               | ✓                     | ✓ |  |  |  |  |
| Civilian Port Defense - Homeland Security Anti-Terrorism/Force Protection Exercise | ✓                           |              | ✓            | ✓              |               |          |                     |                   | ✓                                | ✓                              |                    | ✓                                         | ✓                                 |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                       | ✓      |                                 | ✓               |                             | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |  |  |
| Coordinated Unit Level Helicopter Airborne Mine Countermeasures Exercise           |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                       |        |                                 |                 |                             | ✓                                | ✓             | ✓                  | ✓                                  |                 | ✓             | ✓                     | ✓ |  |  |  |  |
| 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      |                             |              | ✓            |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          | ✓               |              | ✓                      |                         |                                         |                                                    | ✓                       |                                       | ✓      |                                 | ✓               |                             | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |  |  |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                               | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                       |        |                                 | Human Resources |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
|----------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|---------------------------------------|--------|---------------------------------|-----------------|-----------------------------|---------------------------------|----------------------------------|--------------------|---------------------------------|------------------------------------|---------------|-----------------------|--|--|--|--|
|                                                                | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   | Sediments and Water Quality Stressors |        |                                 |                 | Cultural Resource Stressors |                                 | Socioeconomic Resource Stressors |                    |                                 | Public Health and Safety Stressors |               |                       |  |  |  |  |
|                                                                | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products  | Metals | Chemicals Other than explosives | Other Materials | Explosives                  | Physical Disturbance and Strike | Accessibility                    | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy                    | In-Air Energy | Physical Interactions |  |  |  |  |
| Surface Warfare                                                |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                       |        |                                 |                 |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Bombing Exercise Air-to-Surface                                |                             |              | ✓            | ✓              |               |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      | ✓                               | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Air-to-Surface Medium-Caliber                 |                             |              |              | ✓              | ✓             |          | ✓                   |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      | ✓                               | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Air-to-Surface Medium-Caliber (USCG)          |                             |              |              | ✓              | ✓             |          | ✓                   |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      | ✓                               | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Air-to-Surface Small-Caliber                  |                             |              |              | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      | ✓                               | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Boat Medium-Caliber        |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      | ✓                               | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Boat Medium-Caliber (USCG) |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      | ✓                               | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Boat Small-Caliber         |                             |              | ✓            |                | ✓             |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      | ✓                               | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Boat Small-Caliber (USCG)  |                             |              | ✓            |                | ✓             |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      | ✓                               | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship - Large-Caliber       |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                     | ✓      |                                 | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship Large-Caliber (USCG)  |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                     | ✓      |                                 | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship Medium-Caliber        |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                     | ✓      |                                 | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship Medium-Caliber (USCG) |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      |                                 | ✓               | ✓                           |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship Small-Caliber         |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      |                                 | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |
| Gunnery Exercise Surface-to-Surface Ship Small-Caliber (USCG)  |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                       | ✓      |                                 | ✓               |                             |                                 |                                  |                    |                                 |                                    |               |                       |  |  |  |  |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                  | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                      |                                       |                                 | Human Resources |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
|---------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|---------------------------------------|---------------------------------|-----------------|------------|---------------------------------|---------------|----------------------------------|---------------------------------|-----------------|------------------------------------|-----------------------|---|---|
|                                                   | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   |                                      | Sediments and Water Quality Stressors |                                 |                 |            | Cultural Resource Stressors     |               | Socioeconomic Resource Stressors |                                 |                 | Public Health and Safety Stressors |                       |   |   |
|                                                   | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                                | Chemicals Other than explosives | Other Materials | Explosives | Physical Disturbance and Strike | Accessibility | Airborne Acoustics               | Physical Disturbance and Strike | In-Water Energy | In-Air Energy                      | Physical Interactions |   |   |
| Integrated Live Fire Exercise                     |                             |              | ✓            | ✓              |               |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Laser Targeting - Aircraft                        |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Laser Targeting - Ship                            |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              | ✓                  | ✓                                         | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Laser Targeting - Ship (USCG)                     |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              | ✓                  | ✓                                         |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Long Range Unmanned Surface Vessel Training       |                             |              | ✓            |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  |                       | ✓ |   |
| Maritime Security Operations                      |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |   |
| Maritime Security Operations (USCG)               |                             |              | ✓            | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ |   |
| Missile Exercise Air-to-Surface                   |                             |              |              | ✓              | ✓             |          | ✓                   |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Missile Exercise Air-to-Surface - Rocket          |                             |              |              | ✓              |               |          | ✓                   |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Missile Exercise Surface-to-Surface               |                             |              | ✓            |                | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Sinking Exercise                                  | ✓                           |              | ✓            | ✓              | ✓             |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              | ✓                      |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓                                     | ✓                               | ✓               | ✓          |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Small Boat Attack                                 |                             |              | ✓            |                | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |              |                        |                         | ✓                                       |                                                    | ✓                       |                                      | ✓                                     |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Other Training Activities                         |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    |                         |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Precision Anchoring                               |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                      | ✓                                     |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Precision Anchoring (USCG)                        |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   |                            | ✓               |              |                        |                         |                                         |                                                    | ✓                       |                                      | ✓                                     |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Search and Rescue                                 |                             |              | ✓            | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Search and Rescue (USCG)                          |                             |              | ✓            | ✓              | ✓             |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          |                 |              |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Submarine Navigation                              | ✓                           |              |              |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Submarine Sonar Maintenance and Systems Checks    | ✓                           |              |              |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |
| Submarine Under Ice Certification                 | ✓                           |              |              |                |               |          |                     |                   |                                  |                                |                    | ✓                                         |                                   | ✓                          |                 |              | ✓                      |                         |                                         |                                                    | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                    |                       |   |   |
| Surface Ship Sonar Maintenance and Systems Checks | ✓                           |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                  | ✓                     | ✓ | ✓ |

Table B-1: Stressors by Training Activity (continued)

| Atlantic Fleet Training Activity                                            | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |              |                        |                         | Physical Resources                      |                                                    |                         |                                      |                                       |                                 | Human Resources |            |                                 |               |                                  |                                 |                 |                                  |                       |   |
|-----------------------------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|--------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|---------------------------------------|---------------------------------|-----------------|------------|---------------------------------|---------------|----------------------------------|---------------------------------|-----------------|----------------------------------|-----------------------|---|
|                                                                             | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 |              | Entanglement Stressors |                         | Ingestion Stressors                     |                                                    | Air Quality Stressors   |                                      | Sediments and Water Quality Stressors |                                 |                 |            | Cultural Resource Stressors     |               | Socioeconomic Resource Stressors |                                 |                 | Public Health & Safety Stressors |                       |   |
|                                                                             | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving | Wires and Cables       | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                                | Chemicals Other than Explosives | Other Materials | Explosives | Physical Disturbance and Strike | Accessibility | Airborne Acoustics               | Physical Disturbance and Strike | In-Water Energy | In-Air Energy                    | Physical Interactions |   |
| Unmanned Aerial System Training and Certification                           |                             |              |              | ✓              |               |          |                     |                   | ✓                                |                                | ✓                  | ✓                                         | ✓                                 |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      | ✓                                     | ✓                               | ✓               |            |                                 |               |                                  |                                 |                 |                                  |                       |   |
| Unmanned Aerial System Training and Certification (USCG)                    |                             |              |              | ✓              |               |          |                     |                   | ✓                                |                                |                    | ✓                                         |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            |                                 |               |                                  |                                 |                 |                                  |                       |   |
| Unmanned Underwater Vehicle Training - Certification and Development        | ✓                           |              | ✓            |                |               |          |                     |                   | ✓                                |                                | ✓                  |                                           | ✓                                 | ✓                          |                 |              | ✓                      |                         |                                         |                                                    | ✓                       |                                      | ✓                                     |                                 | ✓               |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                | ✓                     | ✓ |
| Unmanned Underwater Vehicle Training - Certification and Development (USCG) | ✓                           |              | ✓            |                |               |          |                     |                   |                                  |                                | ✓                  |                                           | ✓                                 | ✓                          |                 |              | ✓                      |                         |                                         |                                                    | ✓                       |                                      | ✓                                     |                                 | ✓               |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                | ✓                     | ✓ |
| Waterborne Training                                                         |                             |              | ✓            |                |               |          |                     |                   |                                  |                                | ✓                  |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                | ✓                     | ✓ |
| Waterborne Training (USCG)                                                  |                             |              | ✓            |                |               |          |                     |                   |                                  |                                | ✓                  |                                           |                                   |                            |                 |              |                        |                         |                                         |                                                    | ✓                       |                                      |                                       |                                 |                 |            | ✓                               | ✓             | ✓                                | ✓                               | ✓               | ✓                                | ✓                     | ✓ |

Note: USCG = U.S. Coast Guard

Table B-2: Stressors by Testing Activity

| Atlantic Fleet Testing Activity                      | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        | Physical Resources      |                                         |                                                    |                         |                                      | Human Resources             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
|------------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------------|------------------------------------|-----------------------------------|----------------------------|------------------------|--------------|------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|-----------------------------|----------------------------------|-----------------|------------|------------------------------------|---------------|--------------------|---------------------------------|-----------------|---------------|-----------------------|---|--|--|
|                                                      | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                | Physical Disturbance and Strike Stressors |                                    |                                   |                            | Entanglement Stressors |              |                  | Ingestion Stressors    |                         | Air Quality Stressors                   | Sediments and Water Quality Stressors              |                         |                                      | Cultural Resource Stressors | Socioeconomic Resource Stressors |                 |            | Public Health and Safety Stressors |               |                    |                                 |                 |               |                       |   |  |  |
|                                                      | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers                        | Vessels and In-Water Device Strike | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device        | Pile Driving | Wires and Cables | Biodegradable Polymers | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                      | Chemicals Other than Explosives  | Other Materials | Explosives | Physical Disturbance and Strikes   | Accessibility | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy | In-Air Energy | Physical Interactions |   |  |  |
| Acoustic and Oceanographic Science and Technology    |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Acoustic and Oceanographic Research                  | ✓                           |              | ✓            |                | ✓             | ✓        | ✓                   |                   |                                  | ✓                              |                                           | ✓                                  |                                   | ✓                          | ✓                      |              |                  |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                    | ✓                           |                                  | ✓               | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Large Displacement Unmanned Undersea Vehicle Testing |                             |              | ✓            |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   | ✓                          |                        |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 |            | ✓                                  | ✓             |                    | ✓                               | ✓               |               | ✓                     |   |  |  |
| Mine Countermeasure Technology Research              | ✓                           |              | ✓            |                |               |          |                     |                   |                                  |                                |                                           | ✓                                  |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Air Warfare                                          |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| 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                                   |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Amphibious Vessel Testing                            |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Anti-Submarine Warfare                               |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Anti-Submarine Warfare Mission Package Testing       | ✓                           |              | ✓            | ✓              | ✓             |          |                     | ✓                 |                                  | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          |                        |              | ✓                |                        | ✓                       | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓                           | ✓                                |                 | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Anti-Submarine Warfare Torpedo Test                  | ✓                           |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          |                        |              | ✓                |                        | ✓                       |                                         | ✓                                                  | ✓                       |                                      | ✓                           | ✓                                | ✓               |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Anti-Submarine Warfare Tracking Test - Fixed-Wing    | ✓                           |              |              | ✓              |               |          | ✓                   |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          |                        |              | ✓                |                        | ✓                       |                                         | ✓                                                  | ✓                       |                                      | ✓                           | ✓                                | ✓               |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |

Table B-2: Stressors by Testing Activity (continued)

| Atlantic Fleet Testing Activity                    | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         | Physical Resources                      |                                                    |                         |                                      |        | Human Resources                 |                                  |            |                                  |                                    |                    |                                 |                 |               |                       |   |
|----------------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------------|------------------------------------|-----------------------------------|----------------------------|------------------------|--------------|------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|--------|---------------------------------|----------------------------------|------------|----------------------------------|------------------------------------|--------------------|---------------------------------|-----------------|---------------|-----------------------|---|
|                                                    | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                | Physical Disturbance and Strike Stressors |                                    |                                   |                            | Entanglement Stressors |              |                  | Ingestion Stressors    |                         | Air Quality Stressors                   | Sediments and Water Quality Stressors              |                         |                                      |        | Cultural Resource Stressors     | Socioeconomic Resource Stressors |            |                                  | Public Health and Safety Stressors |                    |                                 |                 |               |                       |   |
|                                                    | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers                        | Vessels and In-Water Device Strike | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device        | Pile Driving | Wires and Cables | Biodegradable Polymers | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals | Chemicals Other than Explosives | Other Materials                  | Explosives | Physical Disturbance and Strikes | Accessibility                      | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy | In-Air Energy | Physical Interactions |   |
| 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                                 |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |        |                                 |                                  |            |                                  |                                    |                    |                                 |                 |               |                       |   |
| Chaff Test                                         |                             |              |              | ✓              |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 |                            |                        |              |                  |                        |                         | ✓                                       | ✓                                                  |                         | ✓                                    | ✓      | ✓                               |                                  |            |                                  |                                    |                    |                                 |                 |               |                       |   |
| Electronic Systems Test                            |                             |              | ✓            |                |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 |                            |                        |              |                  | ✓                      |                         |                                         | ✓                                                  |                         | ✓                                    | ✓      | ✓                               |                                  | ✓          | ✓                                | ✓                                  | ✓                  |                                 | ✓               | ✓             | ✓                     |   |
| Flare Test                                         |                             |              | ✓            |                |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 |                            |                        |              |                  |                        |                         | ✓                                       | ✓                                                  |                         | ✓                                    | ✓      | ✓                               |                                  |            |                                  |                                    |                    |                                 |                 |               |                       |   |
| Radar and Other Systems Testing                    |                             |              | ✓            | ✓              | ✓             |          | ✓                   | ✓                 | ✓                                | ✓                              | ✓                                         | ✓                                  | ✓                                 | ✓                          |                        | ✓            |                  | ✓                      | ✓                       | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓      | ✓                               |                                  | ✓          | ✓                                | ✓                                  | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |
| Mine Warfare                                       |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |        |                                 |                                  |            |                                  |                                    |                    |                                 |                 |               |                       |   |
| 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     | ✓                           |              | ✓            | ✓              |               |          | ✓                   |                   | ✓                                |                                | ✓                                         | ✓                                  | ✓                                 | ✓                          |                        | ✓            |                  | ✓                      |                         | ✓                                       | ✓                                                  | ✓                       | ✓                                    | ✓      | ✓                               | ✓                                | ✓          | ✓                                | ✓                                  | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |



Table B-2: Stressors by Testing Activity (continued)

| Atlantic Fleet Testing Activity             | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                  |                        |                         | Physical Resources                      |                                                    |                                       |                                      |        | Human Resources                 |                             |            |                                  |               |                    |                                    |                 |               |                       |   |  |  |
|---------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|--------------------|-------------------------------------------|-----------------------------------|----------------------------|-----------------|------------------------|------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|---------------------------------------|--------------------------------------|--------|---------------------------------|-----------------------------|------------|----------------------------------|---------------|--------------------|------------------------------------|-----------------|---------------|-----------------------|---|--|--|
|                                             | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                |                    | Physical Disturbance and Strike Stressors |                                   |                            |                 | Entanglement Stressors |                  |                        | Ingestion Stressors     |                                         | Air Quality Stressors                              | Sediments and Water Quality Stressors |                                      |        |                                 | Cultural Resource Stressors |            | Socioeconomic Resource Stressors |               |                    | Public Health and Safety Stressors |                 |               |                       |   |  |  |
|                                             | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers | Vessels and In-Water Device Strike        | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device | Pile Driving           | Wires and Cables | Biodegradable Polymers | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants               | Explosives and Explosive By-Products | Metals | Chemicals Other than Explosives | Other Materials             | Explosives | Physical Disturbance and Strikes | Accessibility | Airborne Acoustics | Physical Disturbance and Strike    | In-Water Energy | In-Air Energy | Physical Interactions |   |  |  |
| Mine Countermeasure Mission Package Testing | ✓                           |              | ✓            | ✓              |               |          | ✓                   |                   | ✓                                | ✓                              |                    | ✓                                         | ✓                                 | ✓                          | ✓               |                        | ✓                |                        |                         | ✓                                       |                                                    | ✓                                     | ✓                                    | ✓      | ✓                               | ✓                           | ✓          | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |
| Mine Detection and Classification Testing   | ✓                           |              | ✓            | ✓              |               |          | ✓                   |                   | ✓                                | ✓                              |                    | ✓                                         | ✓                                 | ✓                          | ✓               |                        | ✓                |                        | ✓                       |                                         | ✓                                                  | ✓                                     | ✓                                    | ✓      | ✓                               | ✓                           | ✓          | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |
| Mine Laying Test                            |                             |              |              | ✓              |               |          |                     |                   |                                  | ✓                              |                    |                                           | ✓                                 | ✓                          |                 |                        |                  |                        |                         |                                         |                                                    | ✓                                     |                                      | ✓      | ✓                               | ✓                           |            | ✓                                | ✓             | ✓                  | ✓                                  | ✓               |               | ✓                     | ✓ |  |  |
| Surface Warfare                             |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                  |                        |                         |                                         |                                                    |                                       |                                      |        |                                 |                             |            |                                  |               |                    |                                    |                 |               |                       |   |  |  |
| 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                            |                             |              |              |                |               |          |                     |                   |                                  |                                |                    |                                           |                                   |                            |                 |                        |                  |                        |                         |                                         |                                                    |                                       |                                      |        |                                 |                             |            |                                  |               |                    |                                    |                 |               |                       |   |  |  |
| Underwater Search, Deployment, and Recovery |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          | ✓               |                        | ✓                |                        |                         |                                         |                                                    | ✓                                     |                                      | ✓      |                                 | ✓                           |            | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |
| Unmanned Aerial System Testing              |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 |                            |                 |                        |                  |                        |                         |                                         |                                                    | ✓                                     |                                      |        |                                 |                             | ✓          | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |
| Unmanned Surface Vehicle System Testing     |                             |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                    | ✓                                         |                                   | ✓                          |                 |                        |                  |                        |                         | ✓                                       | ✓                                                  | ✓                                     |                                      |        | ✓                               |                             | ✓          | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |
| Unmanned Underwater Vehicle Testing         | ✓                           |              | ✓            | ✓              |               |          | ✓                   |                   |                                  | ✓                              |                    | ✓                                         | ✓                                 | ✓                          | ✓               |                        | ✓                |                        |                         | ✓                                       | ✓                                                  | ✓                                     |                                      | ✓      | ✓                               | ✓                           | ✓          | ✓                                | ✓             | ✓                  | ✓                                  | ✓               | ✓             | ✓                     | ✓ |  |  |

Table B-2: Stressors by Testing Activity (continued)

| Atlantic Fleet Testing Activity               | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         | Physical Resources                      |                                                    |                         |                                      |                             | Human Resources                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
|-----------------------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------------|------------------------------------|-----------------------------------|----------------------------|------------------------|--------------|------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|-----------------------------|----------------------------------|-----------------|------------|------------------------------------|---------------|--------------------|---------------------------------|-----------------|---------------|-----------------------|---|--|--|
|                                               | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                | Physical Disturbance and Strike Stressors |                                    |                                   |                            | Entanglement Stressors |              |                  | Ingestion Stressors    |                         | Air Quality Stressors                   | Sediments and Water Quality Stressors              |                         |                                      | Cultural Resource Stressors | Socioeconomic Resource Stressors |                 |            | Public Health and Safety Stressors |               |                    |                                 |                 |               |                       |   |  |  |
|                                               | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers                        | Vessels and In-Water Device Strike | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device        | Pile Driving | Wires and Cables | Biodegradable Polymers | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                      | Chemicals Other than Explosives  | Other Materials | Explosives | Physical Disturbance and Strikes   | Accessibility | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy | In-Air Energy | Physical Interactions |   |  |  |
| Vessel Evaluation                             |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| 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                      |                             |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        |                         |                                         |                                                    |                         |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Acoustic and Oceanographic Research           | ✓                           |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          | ✓                      |              |                  |                        |                         |                                         |                                                    | ✓                       | ✓                                    | ✓                           |                                  | ✓               |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Acoustic Component Testing                    | ✓                           |              | ✓            | ✓              |               |          | ✓                   |                   |                                  | ✓                              | ✓                                         | ✓                                  | ✓                                 |                            | ✓                      |              |                  |                        |                         |                                         |                                                    | ✓                       | ✓                                    | ✓                           | ✓                                | ✓               | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Air Platform Shipboard Integration Test       |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 |                            |                        |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Simulant Testing                              |                             |              | ✓            | ✓              |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 |                            |                        |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |  |  |
| Countermeasure Testing                        | ✓                           |              | ✓            | ✓              |               |          |                     |                   | ✓                                | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          |                        |              | ✓                | ✓                      | ✓                       |                                         | ✓                                                  | ✓                       |                                      | ✓                           | ✓                                | ✓               |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Insertion/Extraction                          | ✓                           |              | ✓            |                |               |          |                     |                   |                                  | ✓                              |                                           | ✓                                  |                                   | ✓                          |                        |              | ✓                |                        | ✓                       |                                         |                                                    | ✓                       |                                      | ✓                           |                                  | ✓               |            | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |
| Intelligence, Surveillance, Reconnaissance    | ✓                           |              | ✓            | ✓              | ✓             | ✓        | ✓                   |                   |                                  | ✓                              |                                           | ✓                                  | ✓                                 | ✓                          | ✓                      |              | ✓                |                        |                         |                                         |                                                    | ✓                       | ✓                                    | ✓                           | ✓                                | ✓               | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |  |  |



Table B-2: Stressors by Testing Activity (continued)

| Atlantic Fleet Testing Activity   | Biological Resources        |              |              |                |               |          |                     |                   |                                  |                                |                                           |                                    |                                   |                            |                        |              |                  |                        | Physical Resources      |                                         |                                                    |                         |                                      | Human Resources             |                                  |                 |            |                                    |               |                    |                                 |                 |               |                       |   |
|-----------------------------------|-----------------------------|--------------|--------------|----------------|---------------|----------|---------------------|-------------------|----------------------------------|--------------------------------|-------------------------------------------|------------------------------------|-----------------------------------|----------------------------|------------------------|--------------|------------------|------------------------|-------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|--------------------------------------|-----------------------------|----------------------------------|-----------------|------------|------------------------------------|---------------|--------------------|---------------------------------|-----------------|---------------|-----------------------|---|
|                                   | Acoustic Stressors          |              |              |                |               |          | Explosive Stressors |                   | Energy Stressors                 |                                | Physical Disturbance and Strike Stressors |                                    |                                   |                            | Entanglement Stressors |              |                  | Ingestion Stressors    |                         | Air Quality Stressors                   | Sediments and Water Quality Stressors              |                         |                                      | Cultural Resource Stressors | Socioeconomic Resource Stressors |                 |            | Public Health and Safety Stressors |               |                    |                                 |                 |               |                       |   |
|                                   | Sonar and Other Transducers | Pile Driving | Vessel Noise | Aircraft Noise | Weapons Noise | Air Guns | Explosions in Water | Explosions in Air | In-Water Electromagnetic Devices | In-Air Electromagnetic Devices | High-Energy Lasers                        | Vessels and In-Water Device Strike | Aircraft and Aerial Target Strike | Military Expended Material | Seafloor Device        | Pile Driving | Wires and Cables | Biodegradable Polymers | Decelerators/Parachutes | Military Expended Materials - Munitions | Military Expended Materials - Other than Munitions | Criteria Air Pollutants | Explosives and Explosive By-Products | Metals                      | Chemicals Other than Explosives  | Other Materials | Explosives | Physical Disturbance and Strikes   | Accessibility | Airborne Acoustics | Physical Disturbance and Strike | In-Water Energy | In-Air Energy | Physical Interactions |   |
| Line Charge Testing               |                             |              | ✓            |                |               |          | ✓                   |                   |                                  | ✓                              |                                           | ✓                                  |                                   |                            | ✓                      |              |                  |                        |                         | ✓                                       |                                                    | ✓                       | ✓                                    | ✓                           | ✓                                | ✓               | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |
| Non-Acoustic Component Testing    |                             |              | ✓            | ✓              |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 |                            | ✓                      |              |                  |                        |                         |                                         |                                                    | ✓                       |                                      |                             |                                  |                 | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |
| Payload Deployer Testing          |                             |              | ✓            |                |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  |                                   | ✓                          |                        |              |                  |                        |                         |                                         | ✓                                                  | ✓                       | ✓                                    |                             | ✓                                |                 |            |                                    |               |                    |                                 |                 |               |                       |   |
| Semi-Stationary Equipment Testing | ✓                           |              | ✓            |                | ✓             | ✓        | ✓                   |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 | ✓                          |                        |              |                  |                        | ✓                       |                                         | ✓                                                  | ✓                       | ✓                                    | ✓                           | ✓                                | ✓               | ✓          | ✓                                  | ✓             | ✓                  | ✓                               | ✓               | ✓             | ✓                     | ✓ |
| Towed Equipment Testing           | ✓                           |              | ✓            |                |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 | ✓                          |                        |              |                  |                        |                         |                                         | ✓                                                  | ✓                       |                                      | ✓                           |                                  | ✓               |            |                                    |               |                    |                                 |                 |               |                       |   |
| Undersea Range System Test        | ✓                           |              | ✓            |                |               |          |                     |                   | ✓                                |                                |                                           | ✓                                  | ✓                                 | ✓                          |                        |              |                  |                        |                         |                                         | ✓                                                  |                         | ✓                                    |                             | ✓                                |                 |            |                                    |               |                    |                                 |                 |               |                       |   |

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