

Savage Neck Dunes Natural Area Preserve.

Washington

Admiralty Head Preserve.
Argyle Lagoon San Juan Islands Marine Preserve.
Blake Island Underwater Park.
Brackett's Landing Shoreline Sanctuary Conservation Area.
Cherry Point Aquatic Reserve.
Cypress Island Aquatic Reserve.
Deception Pass Underwater Park.
False Bay San Juan Islands Marine Preserve.
Fidalgo Bay Aquatic Reserve.
Friday Harbor San Juan Islands Marine Preserve.
Haro Strait Special Management Fishery Area.
Maury Island Aquatic Reserve.
San Juan Channel & Upright Channel Special Management Fishery Area.
Orchard Rocks Conservation Area.
Shaw Island San Juan Islands Marine Preserve.
South Puget Sound Wildfire Area.
Sund Rock Conservation Area.
Yellow and Low Islands San Juan Islands Marine Preserve.
Zelia Schultz/Protection Island Marine Preserve.

Review and Approval

Following this public comment period, the MPA Center will forward public comments to the relevant managing entity or entities, which will reaffirm or withdraw (in writing to the MPA Center) the nomination. After final MPA Center review, mutually agreed upon MPAs will be accepted into the national system and the List of National System MPAs will be posted at <http://www.mpa.gov>.

Dated: March 3, 2009.

John H. Dunnigan,

Assistant Administrator.

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

RIN 0648-XN24

Taking and Importing Marine Mammals; Operations of a Liquefied Natural Gas Port Facility in Massachusetts Bay

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice; proposed incidental harassment authorization and receipt of

application for five-year regulations; request for comments and information.

SUMMARY: NMFS has received a request from the Northeast Gateway Energy Bridge L.L.C. (Northeast Gateway or NEG) and its partner, Algonquin Gas Transmission, LLC (Algonquin), for authorization to take marine mammals incidental to operating and maintaining a liquefied natural gas (LNG) port facility and its associated Pipeline Lateral by NEG and Algonquin, in Massachusetts Bay for the period of May 2009 through May 2014. Pursuant to the Marine Mammal Protection Act (MMPA), NMFS is requesting comments on its proposal to issue an authorization to Northeast Gateway and Algonquin to incidentally take, by harassment, small numbers of marine mammals for a period of 1 year. NMFS is also requesting comments, information, and suggestions concerning Northeast Gateway's application and the structure and content of future regulations.

DATES: Comments and information must be received no later than April 6, 2009.

ADDRESSES: Comments should be addressed to P. Michael Payne, Chief, Permits, Conservation and Education Division, Office of Protected Resources, National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910-3226. The mailbox address for providing email comments on this action is PR1.0648-XN24@noaa.gov. Comments sent via email, including all attachments, must not exceed a 10-megabyte file size. A copy of the application and a list of references used in this document may be obtained by writing to this address, by telephoning the contact listed here (see **FOR FURTHER INFORMATION CONTACT**) and is also available at: <http://www.nmfs.noaa.gov/pr/permits/incidental.htm>.

The Maritime Administration (MARAD) and U.S. Coast Guard (USCG) Final Environmental Impact Statement (Final EIS) on the Northeast Gateway Energy Bridge LNG Deepwater Port license application is available for viewing at <http://dms.dot.gov> under the docket number 22219.

FOR FURTHER INFORMATION CONTACT: Shane Guan, Office of Protected Resources, NMFS, (301) 713-2289, ext 137.

SUPPLEMENTARY INFORMATION:

Background

Sections 101(a)(5)(A) and 101(a)(5)(D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce (Secretary) to allow, upon request, the incidental, but not intentional taking of marine mammals by U.S. citizens who

engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and regulations are issued or, if the taking is limited to harassment, a notice of a proposed authorization is provided to the public for review.

Authorization shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s), will not have an unmitigable adverse impact on the availability of the species or stock(s) for subsistence uses, and if the permissible methods of taking and requirements pertaining to the mitigation, monitoring and reporting of such taking are set forth.

NMFS has defined "negligible impact" in 50 CFR 216.103 as:

an impact resulting from the specified activity that cannot be reasonably expected to, and is not reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival.

Section 101(a)(5)(D) of the MMPA established an expedited process by which citizens of the United States can apply for an authorization to incidentally take small numbers of marine mammals by harassment. Except with respect to certain activities not pertinent here, the MMPA defines "harassment" as:

any act of pursuit, torment, or annoyance which (i) has the potential to injure a marine mammal or marine mammal stock in the wild [Level A harassment]; or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering [Level B harassment].

Section 101(a)(5)(D) establishes a 45-day time limit for NMFS review of an application followed by a 30-day public notice and comment period on any proposed authorizations for the incidental harassment of marine mammals. Within 45 days of the close of the comment period, NMFS must either issue or deny issuance of the authorization.

Summary of Request

On August 15, 2008, NMFS received an application from Tetra Tech EC, Inc., on behalf of Northeast Gateway and Algonquin for an authorization to take 12 species of marine mammals by Level B harassment incidental to operation and maintenance of an LNG port facility in Massachusetts Bay. Since LNG Port operation and maintenance activities have the potential to take marine mammals, a marine mammal take authorization under the MMPA is warranted. NMFS has already issued a one-year incidental harassment

authorization for this activity pursuant to section 101(a)(5)(D) of the MMPA (73 FR 29485, May 21, 2008), which expires on May 20, 2009. In order to for Northeast Gateway and Algonquin to continue their operation and maintenance of the LNG port facility in Massachusetts Bay, both companies are seeking a renewal of their IHA. On January 26, 2009, Northeast Gateway and Algonquin submitted a revised MMPA permit application with modified activities. The modified activities will also include certain operation and maintenance (O&M) activities to the Algonquin Pipeline Lateral for a limited time. Because the LNG Port facility and Algonquin Pipeline Lateral operation and maintenance activities will be ongoing in the foreseeable future, NMFS will propose regulations pursuant to section 101(a)(5)(A) of the MMPA, which would govern these incidental takes under a Letter of Authorization for up to five years. Under section 101(a)(5)(A), NMFS also must prescribe mitigation, monitoring, and reporting requirements in its regulations.

Description of the Activity

The Northeast Gateway Port is located in Massachusetts Bay and consists of a submerged buoy system to dock specially designed LNG carriers approximately 13 mi (21 km) offshore of Massachusetts in federal waters approximately 270 to 290 ft (82 to 88 m) in depth. This facility delivers regasified LNG to onshore markets via a 16.06-mi (25.8-km) long, 24-in (61-cm) outside diameter natural gas pipeline lateral (Pipeline Lateral) owned and operated by Algonquin and interconnected to Algonquin's existing offshore natural gas pipeline system in Massachusetts Bay (HubLine).

The Northeast Gateway Port consists of two subsea Submerged Turret Loading (STL) buoys, each with a flexible riser assembly and a manifold connecting the riser assembly, via a steel flowline, to the subsea Pipeline Lateral. Northeast Gateway utilizes vessels from its current fleet of specially designed Liquefied Natural Gas Regasification Vessels (LNGRVs), each capable of transporting approximately 2.9 billion ft³ (82 million m³) of natural gas condensed to 4.9 million feet³ (138,000 m³) of LNG. Northeast Gateway would also be adding vessels to its fleet that will have a cargo capacity of approximately 151,000 cubic m³. The mooring system installed at the Northeast Gateway Port is designed to handle both the existing vessels and any of the larger capacity vessels that may come into service in the future. The

LNGRVs would dock to the STL buoys, which would serve as both the single-point mooring system for the vessels and the delivery conduit for natural gas. Each of the STL buoys is secured to the seafloor using a series of suction anchors and a combination of chain/cable anchor lines.

The proposed activity includes Northeast Gateway LNG Port operation and maintenance.

NEG Port Operations

During NEG Port operations, LNGRVs servicing the Northeast Gateway Port will utilize the newly configured and International Maritime Organization-approved Boston Traffic Separation Scheme (TSS) on their approach to and departure from the Northeast Gateway Port at the earliest practicable point of transit. LNGRVs will maintain speeds of 12 knots or less while in the TSS, unless transiting the Off Race Point Seasonal Management Area between the dates of March 1 and April 30, or the Great South Channel Seasonal Management Area between the dates of April 1 and July 31, when they will not exceed 10-knots or when there have been active right whale sightings, active acoustic detections, or both, in the vicinity of the transiting LNGRV in the TSS or at the Northeast Gateway Port, in which case the vessels also will slow their speeds to 10 knots or less.

As an LNGRV makes its final approach to the Northeast Gateway Port, vessel speed will gradually be reduced to 3 knots at 1.86 mi (3 km) out to less than 1 knot at a distance of 1,640 ft (500 m) from the Northeast Gateway Port. When an LNGRV arrives at the Northeast Gateway Port, it would retrieve one of the two permanently anchored submerged STL buoys. It would make final connection to the buoy through a series of engine and bow thruster actions. The LNGRV would require the use of thrusters for dynamic positioning during docking procedure. Typically, the docking procedure is completed over a 10- to 30-minute period, with the thrusters activated as necessary for short periods of time in second bursts, not a continuous sound source. Once connected to the buoy, the LNGRV will begin vaporizing the LNG into its natural gas state using the onboard regasification system. As the LNG is regasified, natural gas will be transferred at pipeline pressures off the LNGRV through the STL buoy and flexible riser via a steel flowline leading to the connecting Pipeline Lateral. When the LNG vessel is on the buoy, wind and current effects on the vessel would be allowed to "weathervane" on the single-point mooring system;

therefore, thrusters will not be used to maintain a stationary position.

It is estimated that the NEG Port could receive approximately 65 cargo deliveries a year. During this time period thrusters would be engaged in use for docking at the NEG Port approximately 10 to 30 minutes for each vessel arrival and departure.

NEG Port Maintenance

The specified design life of the NEG Port is about 40 years, with the exception of the anchors, mooring chain/rope, and riser/umbilical assemblies, which are based on a maintenance-free design life of 20 years. The buoy pick-up system components are considered consumable and would be inspected following each buoy connection, and replaced (from inside the STL compartment during the normal cargo discharge period) as deemed necessary. The underwater components of the NEG Port would be inspected once yearly in accordance with Classification Society Rules (American Bureau of Shipping) using either divers or remotely operated vehicles (ROVs) to inspect and record the condition of the various STL system components. These activities would be conducted using the NEG Port's normal support vessel (125-foot, 99 gross ton, 2,700 horsepower, aluminum mono-hull vessel), and to the extent possible would coincide with planned weekly visits to the NEG Port. Helicopters would not be used for marker line maintenance inspections.

Detailed information on the operations and maintenance activities can be found in the MARAD/USCG Final EIS on the Northeast Gateway Project (see **ADDRESSES** for availability) and in the take application. Detailed information on the LNG facility's operation and maintenance activities, and noise generated from operations was also published in the **Federal Register** for the proposed IHA for Northeast Gateway's LNG Port construction and operations on March 13, 2007 (72 FR 11328).

Algonquin Pipeline Lateral Operation and Maintenance (O&M)

The O&M activities associated with the Algonquin Pipeline Lateral can be subdivided into two categories, Routine O&M Activities and Unplanned Repair Work.

A. Routine O&M Activities

The planned activities required for the O&M of the Algonquin Pipeline Lateral and Flowlines over a one year period are limited. Similar to the inspection of the NEG Port underwater components, the only planned O&M

activity is the annual inspection of the cathodic protection monitors by a ROV. The monitors are located at the ends of the Algonquin Pipeline Lateral and the adjacent Flowlines. Each inspection activity will take approximately three days and will utilize a ROV launched from a vessel of opportunity. The most likely vessel will be similar to the NEG Port's normal support vessel referenced in NEG Port Maintenance section. This vessel is self-positioning and requires no anchors or use of thrusters. It will mobilize from Salem, Massachusetts, and will inspect the monitors in the vicinity of the NEG Port and at the point where the Algonquin Pipeline Lateral interconnects with Algonquin's HubLine. These activities will be performed during daylight hours and during periods of good weather.

B. Unplanned Pipeline Repair Activities

Unplanned O&M activities may be required from time to time at a location along the Algonquin Pipeline Lateral or along one of the Flowlines should the line become damaged or malfunction.

Should repair work be required, it is likely a dive vessel would be the main vessel used to support the repair work. The type of diving spread and the corresponding vessel needed to support the spread would be dictated by the type of repair work required and the water depth at the work location. In addition, the type of vessel used may vary depending upon availability. The duration of an unplanned activity would also vary depending upon the repair work involved (e.g., repairing or replacing a section of the pipeline, connection, or valve) but can generally be assumed to take less than 40 work days to complete based on industry experience with underwater pipeline repairs.

A diving spread required to execute an unplanned activity might necessitate several vessels. Most likely the dive vessel would support a saturation diving spread and be moored at the work location using four anchors. This vessel would likely be accompanied by an attendant tug to assist with anchor placement. Once secured at the work location, the dive vessel would remain on site through the completion of the work, weather permitting. A crew/supply boat would be utilized to intermittently provide labor and supply transfers. Once or twice during the work, a tug may be required to bring a material barge to and from the location. While unlikely, there is a small possibility that a second dive vessel would be required to support the main dive vessel, depending upon the work activity. The second dive vessel would

be on-site for a shorter work duration. These vessels would be supported from an onshore base located between Quincy, Massachusetts and Gloucester, Massachusetts.

The selection of a dive vessel will be driven by the technical requirements of the work. In addition, the degree of urgency required to address the work and the availability of vessels will also enter into the decision process for securing a dive vessel. It may be that a four point moored dive vessel is either not available or doesn't meet the technical capabilities required by the work. It then becomes possible that a dynamically positioned (DP) dive vessel may have to be utilized. The use of a DP dive vessel removes the need for an attendant tug to support the vessel since no anchors will be deployed. However, potential impacts related to noise are increased when a DP dive vessel is used. The noise generated by a DP dive vessel varies, and results from the use of the thrusters at various levels to maintain the vessel's position during the work depending upon currents, winds, waves and other forces acting on the vessel at the time of the work.

Description of Marine Mammals in the Area of the Specified Activities

Marine mammal species that potentially occur in the vicinity of the Northeast Gateway facility include several species of cetaceans and pinnipeds:

- North Atlantic right whale (*Eubalaena glacialis*),
- humpback whale (*Megaptera novaeangliae*),
- fin whale (*Balaenoptera physalus*),
- minke whale (*B. acutorostrata*),
- long-finned pilot whale (*Globicephala melas*),
- Atlantic white-sided dolphin (*Lagenorhynchus acutus*),
- bottlenose dolphin (*Tursiops truncatus*),
- common dolphin (*Delphinus delphis*),
- killer whale (*Orcinus orca*),
- harbor porpoise (*Phocoena phocoena*),
- harbor seal (*Phoca vitulina*), and
- gray seal (*Halichoerus grypus*).

Information on those species that may be affected by this activity are discussed in detail in the USCG Final EIS on the Northeast Gateway LNG proposal. Please refer to that document for more information on these species and potential impacts from construction and operation of this LNG facility. In addition, general information on these marine mammal species can also be found in Wursig *et al.* (2000) and in the NMFS Stock Assessment Reports (Waring *et al.*, 2007). This latter

document is available at: <http://www.nefsc.noaa.gov/nefsc/publications/tm/tm201/>. An updated summary on several commonly sighted marine mammal species distribution and abundance in the vicinity of the proposed action area is provided below.

Humpback Whale

The highest abundance for humpback whales is distributed primarily along a relatively narrow corridor following the 100-m (328 ft) isobath across the southern Gulf of Maine from the northwestern slope of Georges Bank, south to the Great South Channel, and northward alongside Cape Cod to Stellwagen Bank and Jeffreys Ledge. The relative abundance of whales increases in the spring with the highest occurrence along the slope waters (between the 40- and 140-m, or 131- and 459-ft, isobaths) off Cape Cod and Davis Bank, Stellwagen Basin and Tillies Basin and between the 50- and 200-m (164- and 656-ft) isobaths along the inner slope of Georges Bank. High abundance is also estimated for the waters around Platts Bank. In the summer months, abundance increases markedly over the shallow waters (<50 m, or <164 ft) of Stellwagen Bank, the waters (100 - 200 m, or 328 - 656 ft) between Platts Bank and Jeffreys Ledge, the steep slopes (between the 30- and 160-m isobaths) of Phelps and Davis Bank north of the Great South Channel towards Cape Cod, and between the 50- and 100-m (164- and 328-ft) isobath for almost the entire length of the steeply sloping northern edge of Georges Bank. This general distribution pattern persists in all seasons except winter, when humpbacks remain at high abundance in only a few locations including Porpoise and Neddick Basins adjacent to Jeffreys Ledge, northern Stellwagen Bank and Tillies Basin, and the Great South Channel.

Fin Whale

Spatial patterns of habitat utilization by fin whales are very similar to those of humpback whales. Spring and summer high-use areas follow the 100-m (328 ft) isobath along the northern edge of Georges Bank (between the 50- and 200-m (164- and 656-ft) isobaths), and northward from the Great South Channel (between the 50- and 160-m, or 164- and 525-ft, isobaths). Waters around Cashes Ledge, Platts Bank, and Jeffreys Ledge are all high-use areas in the summer months. Stellwagen Bank is a high-use area for fin whales in all seasons, with highest abundance occurring over the southern Stellwagen Bank in the summer months. In fact, the southern portion of the Stellwagen Bank

National Marine Sanctuary (SBNMS) is used more frequently than the northern portion in all months except winter, when high abundance is recorded over the northern tip of Stellwagen Bank. In addition to Stellwagen Bank, high abundance in winter is estimated for Jeffrey's Ledge and the adjacent Porpoise Basin (100- to 160-m, 328- to 656-ft, isobaths), as well as Georges Basin and northern Georges Bank.

Minke Whale

Like other piscivorous baleen whales, highest abundance for minke whale is strongly associated with regions between the 50- and 100-m (164- and 328-ft) isobaths, but with a slightly stronger preference for the shallower waters along the slopes of Davis Bank, Phelps Bank, Great South Channel and Georges Shoals on Georges Bank. Minke whales are sighted in the SBNMS in all seasons, with highest abundance estimated for the shallow waters (approximately 40 m, or 131 ft) over southern Stellwagen Bank in the summer and fall months. Platts Bank, Cashes Ledge, Jeffrey's Ledge, and the adjacent basins (Neddick, Porpoise and Scantium) also support high relative abundance. Very low densities of minke whales remain throughout most of the southern Gulf of Maine in winter.

North Atlantic Right Whale

North Atlantic right whales are generally distributed widely across the southern Gulf of Maine in spring with highest abundance locate over the deeper waters (100- to 160-m, or 328- to 525-ft, isobaths) on the northern edge of the Great South Channel and deep waters (100-300 m, 328-984 ft) parallel to the 100-m (328-ft) isobath of northern Georges Bank and Georges Basin. High abundance is also found in the shallowest waters (<30 m, or <98 ft) of Cape Cod Bay, over Platts Bank and around Cashes Ledge. Lower relative abundance is estimated over deep-water basins including Wilkinson Basin, Rodgers Basin and Franklin Basin. In the summer months, right whales move almost entirely away from the coast to deep waters over basins in the central Gulf of Maine (Wilkinson Basin, Cashes Basin between the 160- and 200-m, or 525- and 656-ft, isobaths) and north of Georges Bank (Rogers, Crowell and Georges Basins). Highest abundance is found north of the 100-m (328-ft) isobath at the Great South Channel and over the deep slope waters and basins along the northern edge of Georges Bank. The waters between Fippennies Ledge and Cashes Ledge are also estimated as high-use areas. In the fall months, right whales are sighted

infrequently in the Gulf of Maine, with highest densities over Jeffrey's Ledge and over deeper waters near Cashes Ledge and Wilkinson Basin. In winter, Cape Cod Bay, Scantium Basin, Jeffrey's Ledge, and Cashes Ledge were the main high-use areas. Although SBNMS does not appear to support the highest abundance of right whales, sightings within SBNMS are reported for all four seasons, albeit at low relative abundance. Highest sighting within SBNMS occurred along the southern edge of the Bank.

Long-finned Pilot Whale

The long-finned pilot whale is more generally found along the edge of the continental shelf (a depth of 330 to 3,300 ft, or 100 to 1,000 m), choosing areas of high relief or submerged banks in cold or temperate shoreline waters. This species is split between two subspecies: the Northern and Southern subspecies. The Southern subspecies is circumpolar with northern limits of Brazil and South Africa. The Northern subspecies, which could be encountered during operation of the NEG Port, ranges from North Carolina to Greenland (Reeves *et al.*, 2002; Wilson and Ruff, 1999). In the western North Atlantic, long-finned pilot whales are pelagic, occurring in especially high densities in winter and spring over the continental slope, then moving inshore and onto the shelf in summer and autumn following squid and mackerel populations (Reeves *et al.*, 2002). They frequently travel into the central and northern Georges Bank, Great South Channel, and Gulf of Maine areas during the summer and early fall (May and October) (NOAA, 1993). According to the species stock report, the population estimate for the Gulf of Maine/Bay of Fundy long-finned pilot whale is 14,524 individuals (Waring *et al.*, 2004).

Atlantic White-Sided Dolphin

In spring, summer and fall, Atlantic white-sided dolphins are widespread throughout the southern Gulf of Maine, with the high-use areas widely located either side of the 100-m (328-ft) isobath along the northern edge of Georges Bank, and north from the Great South Channel to Stellwagen Bank, Jeffrey's Ledge, Platts Bank and Cashes Ledge. In spring, high-use areas exist in the Great South Channel, northern Georges Bank, the steeply sloping edge of Davis Bank and Cape Cod, southern Stellwagen Bank and the waters between Jeffrey's Ledge and Platts Bank. In summer, there is a shift and expansion of habitat toward the east and northeast. High-use areas are identified along most of the northern edge of Georges Bank between

the 50- and 200-m (164- and 656-ft) isobaths and northward from the Great South Channel along the slopes of Davis Bank and Cape Cod. High sightings are also recorded over Truxton Swell, Wilkinson Basin, Cashes Ledge and the bathymetrically complex area northeast of Platts Bank. High sightings of white-sided dolphin are recorded within SBNMS in all seasons, with highest density in summer and most widespread distributions in spring locate mainly over the southern end of Stellwagen Bank. In winter, high sightings are recorded at the northern tip of Stellwagen Bank and Tillies Basin.

A comparison of spatial distribution patterns for all baleen whales (Mysticeti) and all porpoises and dolphins combined show that both groups have very similar spatial patterns of high- and low-use areas. The baleen whales, whether piscivorous or planktivorous, are more concentrated than the dolphins and porpoises. They utilize a corridor that extended broadly along the most linear and steeply sloping edges in the southern Gulf of Maine indicated broadly by the 100 m (328 ft) isobath. Stellwagen Bank and Jeffrey's Ledge support a high abundance of baleen whales throughout the year. Species richness maps indicate that high-use areas for individual whales and dolphin species co-occur, resulting in similar patterns of species richness primarily along the southern portion of the 100-m (328-ft) isobath extending northeast and northwest from the Great South Channel. The southern edge of Stellwagen Bank and the waters around the northern tip of Cape Cod are also highlighted as supporting high cetacean species richness. Intermediate to high numbers of species are also calculated for the waters surrounding Jeffrey's Ledge, the entire Stellwagen Bank, Platts Bank, Fippennies Ledge and Cashes Ledge.

Killer Whale, Common Dolphin, Bottlenose Dolphin, and Harbor Porpoise

Although these four species are some of the most widely distributed small cetacean species in the world (Jefferson *et al.*, 1993), they are not commonly seen in the vicinity of the proposed project area in Massachusetts Bay (Wiley *et al.*, 1994; NCCOS, 2006; Northeast Gateway Marine Mammal Monitoring Weekly Reports, 2007).

Harbor Seal and Gray Seal

In the U.S. waters of the western North Atlantic, both harbor and gray seals are usually found from the coast of

Maine south to southern New England and New York (Warrings *et al.*, 2007).

Along the southern New England and New York coasts, harbor seals occur seasonally from September through late May (Schneider and Payne, 1983). In recent years, their seasonal interval along the southern New England to New Jersey coasts has increased (deHart, 2002). In U.S. waters, harbor seal breeding and pupping normally occur in waters north of the New Hampshire/Maine border, although breeding has occurred as far south as Cape Cod in the early part of the 20th century (Temte *et al.*, 1991; Katona *et al.*, 1993).

Although gray seals are often seen off the coast from New England to Labrador, within the U.S. waters, only small numbers of gray seals have been observed pupping on several isolated islands along the Maine coast and in Nantucket-Vineyard Sound, Massachusetts (Katona *et al.*, 1993; Rough, 1995). In the late 1990s, a year-round breeding population of approximately over 400 gray seals was documented on outer Cape Cod and Muskeget Island (Warring *et al.*, 2007).

Potential Effects of Noise on Marine Mammals

The effects of noise on marine mammals are highly variable, and can be categorized as follows (based on Richardson *et al.*, 1995): (1) The noise may be too weak to be heard at the location of the animal (i.e., lower than the prevailing ambient noise level, the hearing threshold of the animal at relevant frequencies, or both); (2) The noise may be audible but not strong enough to elicit any overt behavioral response; (3) The noise may elicit reactions of variable conspicuousness and variable relevance to the well being of the marine mammal; these can range from temporary alert responses to active avoidance reactions such as vacating an area at least until the noise event ceases; (4) Upon repeated exposure, a marine mammal may exhibit diminishing responsiveness (habituation), or disturbance effects may persist; the latter is most likely with sounds that are highly variable in characteristics, infrequent and unpredictable in occurrence, and associated with situations that a marine mammal perceives as a threat; (5) Any anthropogenic noise that is strong enough to be heard has the potential to reduce (mask) the ability of a marine mammal to hear natural sounds at similar frequencies, including calls from conspecifics, and underwater environmental sounds such as surf noise; (6) If mammals remain in an area because it is important for feeding,

breeding or some other biologically important purpose even though there is chronic exposure to noise, it is possible that there could be noise-induced physiological stress; this might in turn have negative effects on the well-being or reproduction of the animals involved; and (7) Very strong sounds have the potential to cause temporary or permanent reduction in hearing sensitivity. In terrestrial mammals, and presumably marine mammals, received sound levels must far exceed the animal's hearing threshold for there to be any temporary threshold shift (TTS) in its hearing ability. For transient sounds, the sound level necessary to cause TTS is inversely related to the duration of the sound. Received sound levels must be even higher for there to be risk of permanent hearing impairment. In addition, intense acoustic (or explosive events) may cause trauma to tissues associated with organs vital for hearing, sound production, respiration and other functions. This trauma may include minor to severe hemorrhage.

There are three general categories of sounds recognized by NMFS: continuous (such as shipping sounds), intermittent (such as vibratory pile driving sounds), and impulse. No impulse noise activities, such as blasting or standard pile driving, are associated with this project. The noise sources of potential concern are regasification/offloading (which is a continuous sound) and dynamic positioning of vessels using thrusters (an intermittent sound) from LNGRVs during docking at the NEG port facility and from repair vessels during Algonquin Pipeline Lateral repair and maintenance for diving support. Based on research by Malme *et al.* (1983; 1984), for both continuous and intermittent sound sources, Level B harassment is presumed to begin at received levels of 120-dB. The detailed description of the noise that would result from the proposed LNG Port operations and Pipeline Lateral O&M activities is provided in the **Federal Register** for the initial construction and operations of the NEG LNG Port facility and Pipeline Lateral in 2007 (72 FR 27077; May 14, 2007).

NEG Port Activities

Underwater noise generated at the NEG Port has the potential to result from two distinct actions, including closed-loop regasification of LNG and/or LNGRV maneuvering during coupling and decoupling with STL buoys. To evaluate the potential for these activities to result in underwater noise that could harass marine mammals, Excelerate

Energy, L.L.C. (Excelerate) conducted field sound survey studies during periods of March 21 to 25, 2005 and August 6 to 9, 2006 while the LNGRV Excelsior was both maneuvering and moored at the operational Gulf Gateway Port located 116 mi (187 km) offshore in the Gulf of Mexico (the Gulf) (see Appendices B and C of the NEG and Algonquin application). LNGRV maneuvering conditions included the use of both stern and bow thrusters required for dynamic positioning during coupling. These data were used to model underwater sound propagation at the NEG Port. The pertinent results of the field survey are provided as underwater sound source pressure levels as follows:

- Sound levels during closed-loop regasification ranged from 104 to 110 decibel linear (dBL). Maximum levels during steady state operations were 108 dBL.
- Sound levels during coupling operations were dominated by the periodic use of the bow and stern thrusters and ranged from 160 to 170 dBL.

Figures 1–1 and 1–2 of the NEG and Algonquin's revised MMPA permit application present the net acoustic impact of one LNGRV operating at the NEG Port. Thrusters are operated intermittently and only for relatively short durations of time. The resulting area within the 120 dB isopleth is less than 1 km² with the linear distance to the isopleths extending 430 m (1,411 ft). The area within the 180 dB isopleth is very localized and will not extend beyond the immediate area where LNGRV coupling operations are occurring.

The potential impacts to marine mammals associated with sound propagation from vessel movements, anchors, chains and LNG regasification/offloading could be the temporary and short-term displacement of seals and whales from within the 120-dB zones ensounded by these noise sources. Animals would be expected to re-occupy the area once the noise ceases.

Unplanned Pipeline Lateral Repair Activities

As discussed previously, pipeline repairs may be required from time to time should the pipeline become damaged or malfunction. While the need for repairs to underwater pipelines is typically infrequent, in the event that a pipeline repair is required, it is most likely that anchor-moored vessels will be used. If so, underwater noise will not be generated at the level of concern for marine mammals.

However, there is the potential that underwater noise will be generated within the 120 dB threshold for level B harassment for marine mammals if DP vessels are used to perform the work. Given the limited availability of DP dive support vessels, it is most likely that an anchor-moored dive vessel will be used, though the possibility that a DP vessel would be used cannot be ruled out. Depending on the nature of the repair, the work could last for up to 40 work days. The possibility that a DP vessel would be used to perform a pipeline repair is the only instance in which underwater noise will be generated within the 120 dB threshold for level B harassment in connection with Algonquin's ownership or operation of the Algonquin Pipeline Lateral.

In general, DP vessels are fitted with six thrusters of three main types: main propellers, tunnel thrusters and azimuth thrusters. Two or three tunnel thrusters are usually fitted in the bow. Stern tunnel thrusters are also common, operating together but controlled individually, as are azimuth or compass thrusters placed in the rear. Azimuth thrusters are located beneath the bottom of the vessel and can be rotated to provide thrust in any direction. During vessel operation, the thrusters engage in varying numbers and at varying intensity levels, as needed to control and maintain vessel location based on sea and weather conditions. While at least one thruster is always engaged in at least partial capacity, higher noise levels are generated periodically when greater numbers of thrusters need to engage, and when thrusters are at closer to their full capacity. Thruster underwater noise levels are principally caused by cavitation, which is a combination of broadband noise and tonal sounds at discrete frequencies.

In August 2007, during construction of the NEG Port and Algonquin Pipeline Lateral, Northeast Gateway collected sound measurements of vessels used to support construction including crew boats, support tugs, and diver support vessels which required the steady use of thrusters as well as unassociated boat movements routinely occurring outside the immediate construction zone. These vessels are similar to those which may be employed during pipeline repair.

Based upon the measurement data collected, results showed no exceedance of the 180 dBL level for potential Level B harassment that could cause TTS during any of the monitoring periods in the acoustic far field ranging from 605 to 1,050 m (1,985 to 3,445 ft) (see Figure 1–3 of the NEG and Algonquin MPA permit application). However, construction activities involving the use

of DP vessels did exceed the 120 dBL Level B behavioral harassment threshold for this sound type, principally at low and mid-range frequencies.

It is important to note, however, that even though measurements showed construction activities periodically resulted in the exceedances of the Level B behavioral harassment threshold, such received sound pressure levels may not in every instance be perceptible to marine life, as hearing thresholds are largely frequency-dependent and vary considerably from species to species. In addition, though ambient noise in shallow waters such as the Gulf of Maine tends to be highly variable in both time and location, existing elevated ambient conditions inherent within the Massachusetts Bay environment may effectively mask noise generated by future offshore repair work at short to moderate distances from where the work is occurring. This is particularly true during elevated wind and seastate conditions when the use of thrusters is more predominant. At the same time, the ambient underwater noise intensity levels will be higher during these periods as well.

Estimates of Take by Harassment

Although Northeast Gateway stated that the ensonified area of 120–dB isopleths by LNGRV's decoupling would be less than 1 km² as measured in the Gulf of Mexico in 2005, due to the lack of more recent sound source verification and the lack of source measurement in Massachusetts Bay, NMFS uses a more conservative spreading model to calculate the 120 dB isopleth received sound level. This model was also used to establish 120–dB zone of influence (ZOI) for the previous IHAs issued to Northeast Gateway. In the vicinity of the LNG Port, where the water depth is about 80 m (262 ft), the 120–dB radius is estimated to be 2.56 km (1.6 mi) maximum from the sound source during dynamic positioning for the container ship, making a maximum ZOI of 21 km² (8.1 mi²). For shallow water depth (40 m or 131 ft) representative of the northern segment of the Algonquin Pipeline Lateral, the 120–dB radius is estimated to be 3.31 km (2.06 mi), the associated ZOI is 34 km² (13.1 mi²).

The basis for Northeast Gateway and Algonquin's "take" estimate is the number of marine mammals that would be exposed to sound levels in excess of 120 dB. For the NEG port facility operations, the take estimates are determined by multiplying the area of the LNGRV's ZOI (21 km²) by local marine mammal density estimates,

corrected to account for 50 percent more marine mammals that may be underwater, and then multiplying by the estimated LNG container ship visits per year. For the Algonquin Pipeline Lateral O&M activities, the take estimates are determined by multiplying the area of ZOI (34 km²) resulting from the DP vessel used in repair by local marine mammal density estimates, corrected to account for 50 percent more marine mammals that may be underwater, and then multiplying by the number of dates O&M activities are conducted per year. In the case of data gaps, a conservative approach was used to ensure the potential number of takes is not underestimated, as described next.

NMFS recognizes that baleen whale species other than North Atlantic right whales have been sighted in the project area from May to November. However, the occurrence and abundance of fin, humpback, and minke whales is not well documented within the project area. Nonetheless, NMFS uses the data on cetacean distribution within Massachusetts Bay, such as those published by the National Centers for Coastal Ocean Science (NCCOS, 2006), to estimate potential takes of marine mammals species in the vicinity of project area.

The NCCOS study used cetacean sightings from two sources: (1) the North Atlantic Right Whale Consortium (NARWC) sightings database held at the University of Rhode Island (Kenney, 2001); and (2) the Manomet Bird Observatory (MBO) database, held at NMFS Northeast Fisheries Science Center (NEFSC). The NARWC data contained survey efforts and sightings data from ship and aerial surveys and opportunistic sources between 1970 and 2005. The main data contributors included: Cetacean and Turtles Assessment Program (CETAP), Canadian Department of Fisheries and Oceans, PCCS, International Fund for Animal Welfare, NOAA's NEFSC, New England Aquarium, Woods Hole Oceanographic Institution, and the University of Rhode Island. A total of 653,725 km (406,293 mi) of survey track and 34,589 cetacean observations were provisionally selected for the NCCOS study in order to minimize bias from uneven allocation of survey effort in both time and space. The sightings-per-unit-effort (SPUE) was calculated for all cetacean species by month covering the southern Gulf of Maine study area, which also includes the project area (NCCOS, 2006).

The MBO's Cetacean and Seabird Assessment Program (CSAP) was contracted from 1980 to 1988 by NMFS NEFSC to provide an assessment of the

relative abundance and distribution of cetaceans, seabirds, and marine turtles in the shelf waters of the northeastern United States (MBO, 1987). The CSAP program was designed to be completely compatible with NMFS NEFSC databases so that marine mammal data could be compared directly with fisheries data throughout the time series during which both types of information were gathered. A total of 5,210 km (8,383 mi) of survey distance and 636 cetacean observations from the MBO data were included in the NCCOS analysis. Combined valid survey effort for the NCCOS studies included 567,955 km (913,840 mi) of survey track for small cetaceans (dolphins and porpoises) and 658,935 km (1,060,226 mi) for large cetaceans (whales) in the southern Gulf of Maine. The NCCOS study then combined these two data sets by extracting cetacean sighting records, updating database field names to match the NARWC database, creating geometry to represent survey tracklines and applying a set of data selection criteria designed to minimize uncertainty and bias in the data used.

Owing to the comprehensiveness and total coverage of the NCCOS cetacean distribution and abundance study, NMFS calculated the estimated take number of marine mammals based on the most recent NCCOS report published in December 2006. A summary of seasonal cetacean distribution and abundance in the project area is provided above, in the Marine Mammals Affected by the Activity section. For a detailed description and calculation of the cetacean abundance data and sighting per unit effort (SPUE), please refer to the NCCOS study (NCCOS, 2006). These data show that the relative abundance of North Atlantic right, fin, humpback, minke, and pilot whales, and Atlantic white-sided dolphins for all seasons, as calculated by SPUE in number of animals per square kilometer, is 0.0082, 0.0097, 0.0265, 0.0059, 0.0407, and 0.1314 n/km, respectively.

In calculating the area density of these species from these linear density data, NMFS used 0.4 km (0.25 mi), which is a quarter the distance of the radius for visual monitoring (see Proposed Monitoring, Mitigation, and Reporting section below), as a conservative hypothetical strip width (W). Thus the area density (D) of these species in the project area can be obtained by the following formula:

$$D = SPUE/2W.$$

Based on this calculation method, the estimated take numbers per year for North Atlantic right, fin, humpback, minke, and pilot whales, and Atlantic

white-sided dolphins by the NEG Port facility operations, which is an average of 65 visits by LNG container ships to the project area per year (or approximately 1.25 visits per week), operating the vessels' thrusters for dynamic positioning before offloading natural gas, corrected for 50 percent underwater, are 21, 25, 68, 15, 104, and 336, respectively.

The estimated take number per year for North Atlantic right, fin, humpback, minke, and pilot whales, and Atlantic white-side dolphin by the Algonquin Pipeline Lateral O&M activities, based on a maximum of 40 days by the operation of DP vessels for diver support, corrected for 50 percent underwater, are 21, 25, 68, 15, 104, and 335, respectively.

The total estimated take numbers of these species per year are: 42 North Atlantic right, 50 fin, 136 humpback, 30 minke, 208 pilot whales, and 671 Atlantic white-sided dolphins. These numbers represent maximum of 12.9, 2.2, 15.0, 0.9, 0.7, and 1.1 percent of the populations for these species, respectively. Since it is very likely that individual animals could be "taken" by harassment multiple times, these percentages are the upper boundary of the animal population that could be affected. Therefore, the actual number of individual animals being exposed or taken would be far less. There is no danger of injury, death, or hearing impairment from the exposure to these noise levels.

In addition, bottlenose dolphins, common dolphins, killer whales, harbor porpoises, harbor seals, and gray seals could also be taken by Level B harassment as a result of deepwater LNG port operations and Pipeline Lateral O&M activities. The numbers of estimated take of these species are not available because they are rare in the project area. The population estimates of these marine mammal species and stock in the west North Atlantic basin are 81,588; 120,743; 89,700; 99,340; and 195,000 for bottlenose dolphins, common dolphins, harbor porpoises, harbor seals, and gray seals, respectively (Waring *et al.*, 2007). No population estimate is available for the North Atlantic stock of killer whales, however, their occurrence within the proposed project area is rare. Since the Massachusetts Bay represents only a small fraction of the west North Atlantic basin where these animals occur, and these animals do not congregate in the vicinity of the project area, NMFS believes that only relatively small numbers of these marine mammal species would be potentially affected by the Northeast Gateway LNG deepwater

project. From the most conservative estimates of both marine mammal densities in the project area and the size of the 120-dB zone of (noise) influence, the calculated number of individual marine mammals for each species that could potentially be harassed annually is small relative to the overall population size.

Potential Impact on Habitat

Operation of the NEG Port and Algonquin Pipeline Lateral will result in long-term effects on the marine environment, including alteration of seafloor conditions, continued disturbance of the seafloor, regular withdrawal of sea water, and regular generation of underwater noise. A small area (0.14 acre) along the Pipeline Lateral will be permanently altered (armored) at two cable crossings. In addition, the structures associated with the Port will occupy 4.8 acres of seafloor. An additional area of the seafloor of up to 38 acres will be subject to disturbance due to chain sweep while the buoys are occupied. The benthic community in the up-to 38 acres of soft bottom that may be swept by the anchor chains while EBRVs are docked will have limited opportunity to recover, so this area will experience a long-term reduction in benthic productivity.

Each LNGRV will require the withdrawal of an average of 4.97 million gallons per day of sea water for general ship operations during its 8-day stay at the Port. Plankton associated with the sea water will not likely survive this activity. Based on densities of plankton in Massachusetts Bay, it is estimated that sea water used during operations will consume, on a daily basis, about three 200 x 1,010 phytoplankton cells (about several hundred grams of biomass), 6.5 x 10⁸ zooplankters (equivalent to about 1.2 kg of copepods), and on the order of 30,000 fish eggs and 5,000 fish larvae. Also, the daily removal of sea water will reduce the food resources available for planktivorous organisms. However, the removal of these species is minor relative to the overall area they occupy and unlikely to measurably affect the food sources available to marine mammals.

Proposed Monitoring and Mitigation Measures

For the proposed NEG LNG port operations and Algonquin Pipeline Lateral O&M activities, NMFS proposes the following monitoring and mitigation measures.

Marine Mammal Observers

For activities related to the NEG LNG port operations, all individuals onboard the LNGRVs responsible for the navigation and lookout duties on the vessel must receive training prior to assuming navigation and lookout duties, a component of which will be training on marine mammal sighting/reporting and vessel strike avoidance measures. Crew training of LNGRV personnel will stress individual responsibility for marine mammal awareness and reporting.

If a marine mammal is sighted by a crew member, an immediate notification will be made to the Person-in-Charge on board the vessel and the Northeast Port Manager, who will ensure that the required vessel strike avoidance measures and reporting procedures are followed.

For activities related to the Algonquin Pipeline Lateral O&M, two qualified Maine Mammal Observers (MMOs) will be assigned to each DP vessel (each operating individually in designated shifts to accommodate adequate rest schedules). Their exclusive responsibility is to watch for marine mammals and to alert the construction crew supervisor if marine mammals are visually detected within the most conservatively estimated ZOI, within 2 mi (3.31 km) of the DP vessel, to allow for mitigating responses. MMOs will maintain logs at all times while on watch. All personnel will have experience in marine mammal detection and observation during marine construction. MMOs will maintain in situ records while on watch and therefore visual observation will not be affected. Additional MMOs may be assigned to additional vessels if auto-detection buoy (AB) data shows sound levels from additional vessels in excess of 120 dB re 1 microPa, further than 100 m (328 ft) from the vessel.

Each MMO will scan the area surrounding the construction vessel for visual signs of non-vocalizing whales that may enter the construction area. Observations will take place from the highest available vantage point on the vessels. General 360 scanning will occur during the monitoring periods, and target scanning by the observer will occur when alerted of a whale presence.

Searching will take place at all hours of the day. Night-time observations will be conducted with the aid of a night-vision scope where practical. Observers, using binoculars, will estimate distances to marine mammals either visually or by using reticled binoculars. If higher vantage points (>25 ft or 7.6 m) are available, distances can be measured

using inclinometers. Position data will be recorded using hand-held or vessel global positioning system (GPS) units for each sighting, vessel position change, and any environmental change.

Environmental data to be collected will include Beaufort sea state, wind speed, wind direction, ambient temperature, precipitation, glare, and percent cloud cover. Wind and temperature data will be extracted from onboard meteorological stations (when available). Animal data to be collected includes number, species, position, distance, behavior, direction of movement, and apparent reaction to construction activity. All data will be entered at the time of observation. Notes of activities will be kept and a daily report will be prepared and attached to the daily field form.

Distance and Noise Level for Cut-Off

For all whales near DP vessels, the MMO observation will be the principal detection tool available. If a North Atlantic right whale or other marine mammal is seen within the 2 mi (3.31 km) ZOI of a DP vessel or other construction vessel that has been shown to emit noises in excess of 120 dB re 1 microPa, then the MMO will alert the construction crew to minimize the use of thrusters until the animal has moved away unless there are divers in the water or an ROV is deployed.

During Algonquin Pipeline Lateral O&M, the following procedures would be followed upon detection of a marine mammal within 0.5 mi (0.8 km) of the repair vessels:

(1) The vessel superintendent or on-deck supervisor will be notified immediately. The vessel's crew will be put on a heightened state of alert. The marine mammal will be monitored constantly to determine if it is moving toward the Pipeline Lateral repair area. The observer is required to report all North Atlantic right whale sightings to NMFS, as soon as possible.

(2) If a marine mammal other than a right whale is sighted within or approaching at a distance of 100 yd (91 m), or if a right whale is sighted within or approaching to a distance of 500 yd (457 m) from the operating construction vessel and the nature of the repair activity at the time would not compromise either the health and safety of divers on the bottom or the integrity of the pipeline, construction vessel(s) will cease any movement and cease all activities that emit sounds reaching a received level of 120 dB re 1 microPa or higher as soon as practicable. The back-calculated source level, based on the most conservative cylindrical model of acoustic energy spreading, is estimated

to be 139 dB re 1 microPa. Vessels transiting the repair area will also be required to maintain these separation distances.

(3) Repair work may resume after the marine mammal is positively reconfirmed outside the established zones (either 500 yd (457 m) or 100 yd (91 m), depending upon species).

Vessel Strike Avoidance

(1) All LNGRVs approaching or departing the port will comply with the Mandatory Ship Reporting (MSR) system to keep apprised of right whale sightings in the vicinity. Vessel operators will also receive active detections from an existing passive acoustic array prior to and during transit through the northern leg of the Boston TSS where the buoys are installed.

(2) In response to active right whale sightings (detected acoustically or reported through other means such as the MSR or Sighting Advisory System (SAS)), and taking into account safety and weather conditions, LNGRVs will take appropriate actions to minimize the risk of striking whales, including reducing speed to 10 knots or less and alerting personnel responsible for navigation and lookout duties to concentrate their efforts.

(3) LNGRVs will maintain speeds of 12 knots or less while in the TSS until reaching the vicinity of the buoys (except during the seasons and areas defined below, when speed will be limited to 10 knots or less). At 1.86 mi (3 km) from the NEG port, speed will be reduced to 3 knots, and to less than 1 knot at 1,640 ft (500 m) from the buoy.

(4) LNGRVs will reduce transit speed to 10 knots or less over ground from March 1 - April 30 in all waters bounded by straight lines connecting the following points in the order stated below. This area is known as the Off Race Point Seasonal Management Area (SMA) and tracks NMFS regulations at 50 CFR 224.105:

42°30'00.0" N -069° 45'00.0" W;
thence to 42° 30'00.0" N 070 30'00.0" W;
thence to 42° 12'00.0" N-070° 30'00.0" W;
thence to 42° 12'00.0" N-070° 12'00.0" W;
thence to 42° 04'56.5" N-070° 12'00.0" W;
thence along charted mean high water line and inshore limits of COLREGS limit to a latitude of 41° 40'00.0" N;
thence due east to 41° 41'00.0" N-069° 45'00.0" W;
thence back to starting point.

(5) LNGRVs will reduce transit speed to 10 knots or less over ground from April 1 - July 31 in all waters bounded by straight lines connecting the following points in the order stated below. This area is also known as the

Great South Channel SMA and tracks NMFS regulations at 50 CFR 224.105:
 42°30'00.0" N 69°45'00.0" W
 41°40'00.0" N 69°45'00.0" W
 41°00'00.0" N 69°05'00.0" W
 42°09'00.0" N 67°08'24.0" W
 42°30'00.0" N 67°27'00.0" W
 42°30'00.0" N 69°45'00.0" W

(6) LNGRVs are not expected to transit Cape Cod Bay. However, in the event transit through Cape Cod Bay is required, LNGRVs will reduce transit speed to 10 knots or less over ground from January 1 - May 15 in all waters in Cape Cod Bay, extending to all shorelines of Cape Cod Bay, with a northern boundary of 42°12'00.0" N latitude.

(7) A vessel may operate at a speed necessary to maintain safe maneuvering speed instead of the required ten knots only if justified because the vessel is in an area where oceanographic, hydrographic and/or meteorological conditions severely restrict the maneuverability of the vessel and the need to operate at such speed is confirmed by the pilot on board or, when a vessel is not carrying a pilot, the master of the vessel. If a deviation from the ten-knot speed limit is necessary, the reasons for the deviation, the speed at which the vessel is operated, the latitude and longitude of the area, and the time and duration of such deviation shall be entered into the logbook of the vessel. The master of the vessel shall attest to the accuracy of the logbook entry by signing and dating it.

Research Passive Acoustic Monitoring (PAM) Program

Northeast Gateway shall monitor the noise environment in Massachusetts Bay in the vicinity of the NEG Port and Algonquin Pipeline Lateral using an array of 19 Marine Autonomous Recording Units (MARUs) that were deployed initially in April 2007 to collect data during the preconstruction and active construction phases of the NEG Port and Algonquin Pipeline Lateral. A description of the MARUs can be found in Appendix A of the NEG application. These 19 MARUs will remain in the same configuration during full operation of the NEG Port and Algonquin Pipeline Lateral. The MARUs collect archival noise data and are not designed to provide real-time or near-real-time information about vocalizing whales. Rather, the acoustic data collected by the MARUs shall be analyzed to document the seasonal occurrences and overall distributions of whales (primarily fin, humpback, and right whales) within approximately 10 nautical miles of the NEG Port, and shall measure and document the noise

“budget” of Massachusetts Bay so as to eventually assist in determining whether an overall increase in noise in the Bay associated with the NEG Port and Algonquin Pipeline Lateral might be having a potentially negative impact on marine mammals. The overall intent of this system is to provide better information for both regulators and the general public regarding the acoustic footprint associated with long-term operation of the NEG Port and Algonquin Pipeline Lateral in Massachusetts Bay, and the distribution of vocalizing marine mammals during NEG Port and Algonquin Pipeline Lateral O&M activities (analyzed to assess impacts of former on latter). In addition to the 19 MARUs, Northeast Gateway will deploy 10 ABs within the TSS for the operational life of the NEG Port and Algonquin Pipeline Lateral. A description of the ABs is provided in Appendix A of this NEG and Algonquin’s application. The purpose of the ABs shall be to detect a calling North Atlantic right whale an average of 5 nm (9.26 km) from each AB (detection ranges will vary based on ambient underwater conditions). The AB system shall be the primary detection mechanism that alerts the LNGRV Master and/or Algonquin Pipeline support vessel captains to the occurrence of right whales, heightens LNGRV or pipeline support vessel awareness, and triggers necessary mitigation actions as described in the Marine Mammal Detection, Monitoring, and Response Plan included as Appendix A of the NEG application.

Northeast Gateway has engaged representatives from Cornell University’s Bioacoustics Research Program (BRP) and the Woods Hole Oceanographic Institution (WHOI) as the consultants for developing, implementing, collecting, and analyzing the acoustic data; reporting; and maintaining the acoustic monitoring system.

Further information detailing the deployment and operation of arrays of 19 passive seafloor acoustic recording units (MARUs) centered on the terminal site and the 10 ABs that are to be placed at approximately 5–m (8.0–km) intervals within the recently modified TSS can be found in the Marine Mammal Detection, Monitoring, and Response Plan included as Appendix A of the NEG application.

Reporting

The Project area is within the Mandatory Ship Reporting Area (MSRA), so all vessels entering and exiting the MSRA will report their activities to WHALESNORTH. During

all phases of the Northeast Gateway LNG Port operations and the Algonquin Pipeline Lateral O&M activities, sightings of any injured or dead marine mammals will be reported immediately to the USCG or NMFS, regardless of whether the injury or death is caused by project activities.

An annual report on marine mammal monitoring and mitigation would be submitted to NMFS Office of Protected Resources and NMFS Northeast Regional Office within 90 days after the expiration of an LOA. The annual report shall include data collected for each distinct marine mammal species observed in the project area in the Massachusetts Bay during the period of LNG facility operation. Description of marine mammal behavior, overall numbers of individuals observed, frequency of observation, and any behavioral changes and the context of the changes relative to operation activities shall also be included in the annual report.

ESA

On February 5, 2007, NMFS concluded consultation with MARAD and the USCG, under section 7 of the ESA, on the proposed construction and operation of the Northeast Gateway LNG facility and issued a biological opinion. The finding of that consultation was that the construction and operation of the Northeast Gateway LNG terminal may adversely affect, but is not likely to jeopardize, the continued existence of northern right, humpback, and fin whales, and is not likely to adversely affect sperm, sei, or blue whales and Kemp’s ridley, loggerhead, green or leatherback sea turtles. An incidental take statement (ITS) was issued following NMFS’ issuance of the IHA.

On November 15, 2007, Northeast Gateway and Algonquin submitted a letter to NMFS requesting an extension for the LNG Port construction into December 2007. Upon reviewing Northeast Gateway’s weekly marine mammal monitoring reports submitted under the previous IHA, NMFS recognized that the potential take of some marine mammals resulting from the LNG Port and Pipeline Lateral by Level B behavioral harassment likely had exceeded the original take estimates. Therefore, NMFS Northeast Region (NER) reinitiated consultation with MARAD and USCG on the construction and operation of the Northeast Gateway LNG facility. On November 30, 2007, NMFS NER issued a revised biological opinion, reflecting the revised construction time period and including a revised ITS. This revised biological opinion concluded

that the construction and operation of the Northeast Gateway LNG terminal may adversely affect, but is not likely to jeopardize, the continued existence of northern right, humpback, and fin whales, and is not likely to adversely affect sperm, sei, or blue whales. Currently, NMFS is consulting with NMFS NER on to determine whether the modified activities with the inclusion of Algonquin Pipeline Lateral O&M activities would have any adverse impact to listed species.

NEPA

MARAD and the USCG released a Final EIS/Environmental Impact Report (EIR) for the proposed Northeast Gateway Port and Pipeline Lateral. A notice of availability was published by MARAD on October 26, 2006 (71 FR 62657). The Final EIS/EIR provides detailed information on the proposed project facilities, construction methods and analysis of potential impacts on marine mammal.

NMFS was a cooperating agency (as defined by the Council on Environmental Quality (40 CFR 1501.6)) in the preparation of the Draft and Final EISs. NMFS has reviewed the Final EIS and has adopted it. Therefore, the preparation of another EIS or EA is not warranted.

Preliminary Determinations

NMFS has preliminarily determined that the impact of operation of the Northeast Gateway LNG Port facility and the Algonquin Pipeline Lateral O&M activities may result, at worst, in a temporary modification in behavior of small numbers of certain species of marine mammals that may be in close proximity to the Northeast Gateway LNG facility and associated pipeline during its operation, maintenance, and repair. These activities are expected to result in some local short-term displacement and will have no more than a negligible impact on the affected species or stocks of marine mammals.

This preliminary determination is supported by proposed mitigation, monitoring, and reporting measures described in this document on this action.

As a result of the described proposed mitigation and monitoring measures, no take by injury or death would be requested, anticipated or authorized, and the potential for temporary or permanent hearing impairment is very unlikely due to the relatively low noise levels (and consequently small zone of impact).

While the number of marine mammals that may be harassed will depend on the distribution and

abundance of marine mammals in the vicinity of the LNG Port facility and the Pipeline Lateral, the estimated numbers of marine mammals to be harassed is small relative to the affected species or stock sizes. Please see Estimate of Take by Harassment section below for the calculation of these take numbers.

Proposed Authorization

NMFS proposes to issue an IHA to Northeast Gateway and Algonquin for conducting LNG Port facility and Pipeline Lateral operations and maintenance in Massachusetts Bay, provided the previously mentioned mitigation, monitoring, and reporting requirements are incorporated.

Information Solicited

NMFS requests interested persons to submit comments and information concerning this proposed IHA and Northeast Gateway and Algonquin's application for incidental take regulations (see **ADDRESSES**). NMFS requests interested persons to submit comments, information, and suggestions concerning both the request and the structure and content of future regulations to allow this taking. NMFS will consider this information in developing proposed regulations to govern the taking.

Dated: February 26, 2009.

James H Lecky,

*Director, Office of Protected Resources,
National Marine Fisheries Service.*

[FR Doc. E9-4799 Filed 3-5-09; 8:45 am]

BILLING CODE 3510-22-S

COMMISSION OF FINE ARTS

Notice of Meeting

Established By Congress 17 May 1910:
National Building Museum, 401 F Street, NW., Suite 312, Washington, DC 20001-2728, 202-504-2200, 202-504-2195 fax.

BAC: 6330-01.

Commission of Fine Arts

The next meeting of the U.S. Commission of Fine Arts is scheduled for 19 March 2009, at 10 a.m. in the Commission offices at the National Building Museum, Suite 312, Judiciary Square, 401 F Street, NW., Washington DC, 20001-2728. Items of discussion may include buildings, parks and memorials.

Draft agendas and additional information regarding the Commission are available on our Web site: <http://www.cfa.gov>. Inquiries regarding the agenda and requests to submit written or oral statements should be addressed

to Thomas Luebke, Secretary, U.S. Commission of Fine Arts, at the above address or call 202-504-2200. Individuals requiring sign language interpretation for the hearing impaired should contact the Secretary at least 10 days before the meeting date.

Dated: February 23, 2009 in Washington, DC.

Thomas Luebke,

Secretary.

[FR Doc. E9-4578 Filed 3-5-09; 8:45 am]

BILLING CODE 6330-01-M

DEPARTMENT OF DEFENSE

Office of the Secretary

Meeting of the Defense Department Advisory Committee on Women in the Services (DACOWITS)

AGENCY: Department of Defense.

ACTION: Notice.

SUMMARY: Pursuant to Section 10(a), Public Law 92-463, as amended, notice is hereby given of a forthcoming meeting of the Defense Department Advisory Committee on Women in the Services (DACOWITS). The purpose of the Committee meeting is to receive briefings and hear panels on women's roles in deployment, review 2009 topics, and develop protocols. The meeting is open to the public, subject to the availability of space.

DATES: March 23-24, 2009, 8:30 a.m.-5 p.m.

ADDRESSES: Double Tree Hotel Crystal City National Airport, 300 Army Navy Drive, Arlington, VA 22202.

FOR FURTHER INFORMATION CONTACT:

MSgt Robert Bowling, USAF, DACOWITS, 4000 Defense Pentagon, Room 2C548A, Washington, DC 20301-4000. Robert.bowling@osd.mil; Telephone (703) 697-2122; Fax (703) 614-6233.

SUPPLEMENTARY INFORMATION:

Meeting Agenda

Monday, March 23, 2009 8:30 a.m.-5 p.m.

- Welcome and announcements
- Women's roles in deployment panels
- Briefings
- Public Forum

Tuesday, March 24, 2009 8:30 a.m.-5 p.m.

- Review research questions
- Develop Protocol questions
- Discuss 2009 topics and schedule

Interested persons may submit a written statement for consideration by