

United States with a focus on the COVID-19 pandemic. More specifically, the NSCH-LC will collect information related to the health and well-being of children, young adults, and their families, including access to and use of health care, family interactions, parental health, school, and after-school experiences.

Data will be collected using one of two modes. The first mode is an English web instrument (Centurion) survey. The web instrument first verifies that the survey has arrived at the correct address. The rest of the instrument will collect a roster of children and young adults then ask age-based questions about a specific focal child or young adult. The second mode is a mailout/mailback of a self-administered paper-and-pencil interviewing (PAPI) English or Spanish age-based screener and topical questionnaires.

The NSCH-LC sample will consist of 60,000 households that responded previously to the National Survey of Children's Health (NSCH) annual survey. Based on incentive use evaluation from many prior cycles of the NSCH annual survey, including a pre-paid unconditional cash incentive has proven to be a cost-effective intervention for increasing survey response and reducing nonresponse bias. Therefore, HRSA MCHB would like to ensure each sampled household is eligible for a \$5 cash incentive.

**Affected Public:** Parents, researchers, policymakers, and family advocates.

**Frequency:** This is the first administration of the NSCH-LC.

**Respondent's Obligation:** Voluntary.

**Legal Authority:** Census Authority: Title 13, United States Code (U.S.C.), section 8(b) (13 U.S.C. 8(b)).

HRSA MCHB Authority: Section 501(a)(2) of the Social Security Act (42 U.S.C. 701).

United States Department of Agriculture Authority: Agriculture Improvement Act of 2018, Public Law 115-334.

United States Department of Health and Human Services' Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities Authority: Public Health Service Act, section 301, 42 U.S.C. 241.

United States Department of Health and Human Services' National Institutes of Health, National Institute of Child Health and Human Development Authority: Public Health Service Act, section 301, 42 U.S.C. 242(b).

This information collection request may be viewed at [www.reginfo.gov](http://www.reginfo.gov). Follow the instructions to view the

Department of Commerce collections currently under review by OMB.

Written comments and recommendations for the proposed information collection should be submitted within 30 days of the publication of this notice on the following website [www.reginfo.gov/public/do/PRAMain](http://www.reginfo.gov/public/do/PRAMain). Find this particular information collection by selecting "Currently under 30-day Review—Open for Public Comments" or by using the search function and entering the title of the collection.

**Sheleen Dumas,**

*Department PRA Clearance Officer, Office of the Under Secretary for Economic Affairs, Commerce Department.*

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**BILLING CODE 3510-07-P**

## DEPARTMENT OF COMMERCE

### Foreign-Trade Zones Board

[B-46-2023]

#### Foreign-Trade Zone (FTZ) 168, Notification of Proposed Production Activity; Samsung Electronics America, Inc.; (Stylus for Mobile Phones and Tablets); Coppell, Texas

The Metroplex International Trade Development Corporation, grantee of FTZ 168, submitted a notification of proposed production activity to the FTZ Board (the Board) on behalf of Samsung Electronics America, Inc., located in Coppell, Texas within Subzone 168D. The notification conforming to the requirements of the Board's regulations (15 CFR 400.22) was received on July 19, 2023.

Pursuant to 15 CFR 400.14(b), FTZ production activity would be limited to the specific foreign-status material/component described in the submitted notification (summarized below) and subsequently authorized by the Board. The benefits that may stem from conducting production activity under FTZ procedures are explained in the background section of the Board's website—accessible via [www.trade.gov/ftz](http://www.trade.gov/ftz). The proposed material/component would be added to the production authority that the Board previously approved for the operation, as reflected on the Board's website.

The proposed foreign-status material/component is stylus pens (duty rate is duty-free).

Public comment is invited from interested parties. Submissions shall be addressed to the Board's Executive Secretary and sent to: [ftz@trade.gov](mailto:ftz@trade.gov). The closing period for their receipt is September 5, 2023.

A copy of the notification will be available for public inspection in the "Online FTZ Information System" section of the Board's website.

For further information, contact Juanita Chen [juanita.chen@trade.gov](mailto:juanita.chen@trade.gov).

Dated: July 19, 2023.

**Elizabeth Whiteman,**  
*Executive Secretary.*

[FR Doc. 2023-15659 Filed 7-24-23; 8:45 am]

**BILLING CODE 3510-DS-P**

## DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

[RTID 0648-XD092]

#### Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to Marine Site Characterization Surveys in the New York Bight

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

**ACTION:** Notice; issuance of an incidental harassment authorization.

**SUMMARY:** In accordance with the regulations implementing the Marine Mammal Protection Act (MMPA) as amended, notification is hereby given that NMFS has issued an incidental harassment authorization (IHA) to Invenergy Wind Offshore, LLC (IWO) to incidentally harass marine mammals during marine site characterization surveys in waters off of New Jersey and New York in the New York Bight.

**DATES:** This authorization is effective from July 31, 2023, through July 30, 2024.

**ADDRESSES:** Electronic copies of the application and supporting documents, as well as a list of the references cited in this document, may be obtained online at: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/incidental-take-authorizations-other-energy-activities-renewable>. In case of problems accessing these documents, please call the contact listed below.

**FOR FURTHER INFORMATION CONTACT:** Alyssa Clevestine, Office of Protected Resources, NMFS, (301) 427-8401.

#### SUPPLEMENTARY INFORMATION:

##### Background

The MMPA prohibits the "take" of marine mammals, with certain exceptions. Sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce

(as delegated to NMFS) to allow, upon request, the incidental, but not intentional, taking of small numbers 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 either regulations are proposed or, if the taking is limited to harassment, a notice of a proposed IHA is provided to the public for review.

Authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s) and will not have an unmitigable adverse impact on the availability of the species or stock(s) for taking for subsistence uses (where relevant). Further, NMFS must prescribe the permissible methods of taking and other “means of effecting the least practicable adverse impact” on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of the species or stocks for taking for certain subsistence uses (referred to in shorthand as “mitigation”); and requirements pertaining to the mitigation, monitoring and reporting of the takings are set forth. The definitions of all applicable MMPA statutory terms cited above are included in the relevant sections below.

#### Summary of Request

On February 3, 2023, NMFS received a request from IWO for an IHA to take marine mammals incidental to conducting marine site characterization surveys in waters off of New Jersey and New York in the New York Bight, specifically within the Bureau of Ocean Energy Management (BOEM) Commercial Lease of Submerged Lands for Renewable Energy Development on the Outer Continental Shelf (OCS) Lease

Area OCS–A 0542 (Lease Area) and associated Export Cable Route survey area (ECR Area). Following NMFS’ review of the application, IWO submitted a revised request on March 29, 2023. NMFS deemed the application adequate and complete on April 25, 2023. IWO’s request is for take of small numbers of 15 species (16 stocks) of marine mammals by Level B harassment only. Neither IWO nor NMFS expect serious injury or mortality to result from this activity and, therefore, an IHA is appropriate.

#### Description of the Specified Activity

##### Overview

IWO plans to conduct marine site characterization surveys, including high-resolution geophysical (HRG) surveys, in waters off of New Jersey and New York in the New York Bight, specifically within BOEM Lease Area OCS–A 0542 and associated ECR Area, collectively considered the Survey Area.

The planned marine site characterization surveys are designed to obtain data sufficient to meet BOEM guidelines for providing geophysical, geotechnical, and geohazard information for site assessment plan surveys and/or construction and operations plan development. The objective of the surveys is to support the site characterization, siting, and engineering design of offshore wind project facilities including wind turbine generators, offshore substations, and submarine cables within the Survey Area. Up to three vessels may conduct survey efforts concurrently. Underwater sound resulting from IWO’s marine site characterization survey activities, specifically HRG surveys, has the potential to result in incidental take of marine mammals in the form of Level B harassment.

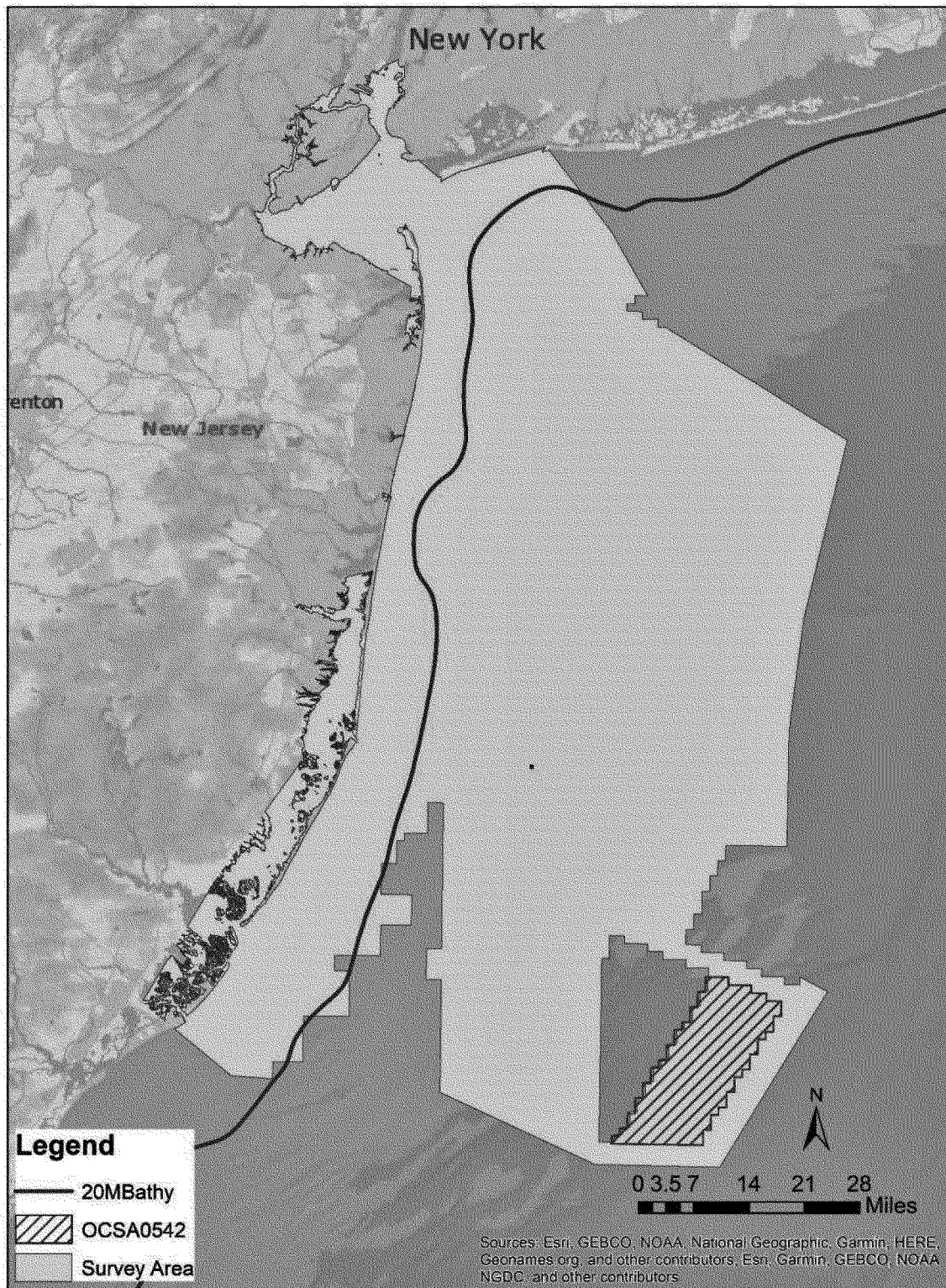
#### Dates and Duration

The surveys are planned to begin no earlier than July 31, 2023 and are estimated to require a maximum of 274 survey days within a single year across a maximum of three vessels operating concurrently, which includes up to two vessels operating offshore (greater than 20 meters (m); 65 feet (ft) depth) and one vessel operating nearshore (less than 20 m (65 ft) depth). The survey days may occur in any month throughout the year as the exact timing of the surveys during the year is not yet certain. A “survey day” is defined as a 24-hour (hr) activity period in which active acoustic sound sources are used offshore and a 12-hr activity period when a vessel is operating nearshore. It is expected that each offshore vessel will cover approximately 80 km of trackline per day surveyed at a speed of approximately 3.8 knots (kn; 7.0 kilometer (km) per hr (km/hr)), and the nearshore vessel would cover 25–30 km of trackline per day (inclusive of infills and line-turns), based on IWO’s expectations regarding data acquisition efficiency. There is up to 12,818 km of trackline survey effort planned: a maximum trackline length of 7,460 km is planned for the Lease Area and 5,358 km for the ECR Area. The IHA would be effective for 1 year from the date of issuance.

#### Specific Geographic Region

IWO’s survey activities will occur in waters off of New Jersey and New York in the New York Bight, specifically within BOEM Lease Area OCS–A 0542 and associated ECR Area (Figure 1). The Survey Area (9,470 square km (km<sup>2</sup>)) includes both the Lease Area (569 km<sup>2</sup>; 40–50 m depth) and ECR Area (8,901 km<sup>2</sup>; 1–55 m depth).

**BILLING CODE 3510–22–P**



**Figure 1 -- Survey Area**

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*Detailed Description of the Specified Activity*

IWO’s marine site characterization surveys within the Survey Area include geotechnical and geophysical surveys,

including depth sounding to determine water depth, site bathymetry, and general seafloor topography using a multibeam echosounder (MBES); seafloor imaging using a side-scan sonar; magnetic intensity measurements

using a gradiometer; shallow penetration sub-bottom profilers (SBPs); compressed high-intensity radiated pulse (CHIRP) and parametric); and medium penetration SBPs (sparkers).

NMFS does not expect geotechnical survey activities or HRG survey activities using MBES, side-scan sonar, gradiometer, or shallow SBP to present a reasonably anticipated risk of causing incidental take of marine mammals, so these activities are not discussed further in this notice.

The only acoustic sources planned for use during IWO's planned HRG surveys with the potential to cause incidental take of marine mammals are the sparkers. There are three sparker systems planned for use: Applied Acoustics Dura-Spark 240/400 (400 tip/500 joules (J)), Applied Acoustics Dura-Spark UHD 400+400 Seismic Sound Source (400 tip/500–800 J), and the Geo-Source 200–400 Marine Multi-Tip Sparker System (400 tip/400–500 J).

A detailed description of IWO's planned HRG surveys is provided in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023). Since that time, no changes have been made to the planned HRG survey activities. Therefore, a detailed description is not provided here. Please refer to that **Federal Register** notice for the detailed description of the specified activity.

#### Comments and Responses

A notice of NMFS' proposal to issue an IHA to IWO was published in the **Federal Register** on May 22, 2023 (88 FR 32735), beginning a 30-day public comment period. That notice described, in detail, IWO's proposed activities, the marine mammal species that may be affected by the activities, and the anticipated effects on marine mammals. In that notice, we requested public input on the request for authorization described therein, our analyses, the proposed authorization, and any other aspect of the notice of proposed IHA, and requested that interested persons submit relevant information, suggestions, and comments.

NMFS received 34 comment letters. Two of these comment letters were from non-governmental organizations: Clean Ocean Action (COA) and Oceana, and one from a private company (URN Surf Co.). The remaining 31 comment letters were from private citizens.

All comments from private citizens and the private company expressed general opposition to issuance of the IHA or to the underlying associated activities. We reiterate here that NMFS' action concerns only the authorization of marine mammal take incidental to the planned surveys—NMFS' authority under the MMPA does not extend to the surveys themselves, including the size of a survey area, or to wind energy development more generally. We reiterate here that no mortality is

anticipated or authorized. Many of the comments requested that NMFS not issue any IHAs related to wind energy development and/or expressed opposition for wind energy development generally without providing information relevant to NMFS' decision. We do not specifically address comments expressing general opposition to activities related to wind energy development or respond to comments that are out of scope of the proposed IHA (88 FR 32735), such as comments on other Federal agency processes and activities not planned under this IHA.

All substantive comments and NMFS' responses are provided below, and all comment letters are available online at: <https://www.fisheries.noaa.gov/action/incidental-take-authorization-invenewenergy-wind-offshore-llcs-site-characterization-surveys-new>. Please review the comment letters for full details regarding the comments and associated rationale.

*Comment:* Oceana raised objections to NMFS' proposed renewal process for potential extension of the 1-year IHA with an abbreviated 15-day public comment period. Oceana recommended that an additional 30-day public comment period is necessary for any IHA renewal request.

*Response:* NMFS' IHA renewal process meets all statutory requirements. In prior responses to comments about IHA renewals (e.g., 84 FR 52464, October 2, 2019; 85 FR 53342, August 28, 2020), NMFS explained the IHA renewal process is consistent with the statutory requirements contained in section 101(a)(5)(D) of the MMPA, and further, promotes NMFS' goals of improving conservation of marine mammals and increasing efficiency in the MMPA compliance process. Therefore, we intend to continue to implement the existing renewal process.

All IHAs issued, whether an initial IHA or a renewal, are valid for a period of not more than 1 year. The public has 30 days to comment on proposed IHAs, with a cumulative total of 45 days for IHA renewals. The notice of the proposed IHA published in the **Federal Register** on May 22, 2023 (88 FR 32735) provided a 30-day public comment period and made clear that NMFS was seeking comment on the proposed IHA and the potential issuance of an IHA renewal for this survey. As detailed in the **Federal Register** notice for the proposed IHA and on the agency's website, eligibility for renewal is determined on a case-by-case basis, renewals are subject to an additional 15-day public comment period, and the renewal is limited to up to another year

of identical or nearly identical activities as described in the Description of Proposed Activities section of the proposed IHA notice or the activities described in the Description of Proposed Activities section of the proposed IHA notice would not be completed by the time the IHA expires and a renewal would allow for completion of the activities beyond that described in the *Dates and Duration* section of this notice. NMFS' analysis of the anticipated impacts on marine mammals caused by the applicant's activities covers both the initial IHA period and the possibility of a 1-year renewal. Therefore, a member of the public considering commenting on a proposed initial IHA also knows exactly what activities (or subset of activities) would be included in a proposed renewal IHA, the potential impacts of those activities, the maximum amount and type of take that could be caused by those activities, the mitigation and monitoring measures that would be required, and the basis for the agency's negligible impact determinations, least practicable adverse impact findings, small numbers findings, and (if applicable) the no unmitigable adverse impact on subsistence use finding—all the information needed to provide complete and meaningful comments on a possible renewal at the time of considering the proposed initial IHA. Reviewers have the information needed to meaningfully comment on both the immediate proposed IHA and a possible 1-year renewal, should the IHA holder choose to request one.

While there would be additional documents submitted with a renewal request, for a qualifying renewal these would be limited to documentation that NMFS would make available and use to verify that the activities are identical to those in the initial IHA, are nearly identical such that the changes would have either no effect on impacts to marine mammals or decrease those impacts, or are a subset of activities already analyzed and authorized but not completed under the initial IHA. NMFS would also need to confirm, among other things, that the activities would occur in the same location; involve the same species and stocks; provide for continuation of the same mitigation, monitoring, and reporting requirements; and that no new information has been received that would alter the prior analysis. The renewal request would also contain a preliminary monitoring report, in order to verify that effects from the activities do not indicate impacts of a scale or nature not previously analyzed. The additional 15-

day public comment period, which includes NMFS' direct notice to anyone who commented on the proposed initial IHA, provides the public an opportunity to review these few documents, provide any additional pertinent information, and comment on whether they think the criteria for a renewal have been met. Combined together, the 30-day public comment period on the initial IHA and the additional 15-day public comment period on the renewal of the same or nearly identical activities, provides the public with a total of 45 days to comment on the potential for renewal of the IHA.

In addition to the IHA renewal process being consistent with all requirements under section 101(a)(5)(D) of the MMPA, it is also consistent with Congress' intent for issuance of IHAs to the extent reflected in statements in the legislative history of the MMPA. Through the description of the process and express invitation to comment on specific potential renewals in the Request for Public Comments section of each proposed IHA, the description of the process on NMFS' website, further elaboration on the process through responses to comments such as these, posting of substantive documents on the agency's website, and provision of 30 or 45 days for public review and comment on all proposed initial IHAs and renewals respectively, NMFS has ensured that the public is "invited and encouraged to participate fully in the agency's decision-making process," as Congress intended.

*Comment:* Multiple commenters expressed concern that negative impacts to the local fishing industry and coastal communities as a result of a potentially adverse impact to marine mammals (e.g., vessel strike resulting in death or severe injury) were not mentioned or evaluated in this IHA.

*Response:* NMFS has determined that no serious injury or mortality is anticipated to result from IWO's specified activities and as discussed in the Negligible Impact Analysis and Determination section in this notice, only low-level behavioral harassment is expected for any affected marine mammal species. Furthermore, neither the MMPA nor our implementing regulations require NMFS to analyze impacts to other industries (e.g., fisheries) or coastal communities from issuance of an incidental take authorization (ITA).

*Comment:* COA and Oceana stated that NMFS must utilize the best available science and suggested that NMFS has not done so, specifically referencing information regarding the North Atlantic right whale (NARW)

such as updated population estimates, habitat usage in the survey area, and seasonality information. COA and Oceana specifically assert that NMFS is not using the best available science with regards to the NARW population estimate.

*Response:* NMFS agrees that the best available science must be used in determining whether a request for incidental take of marine mammals will have a negligible impact on species or stocks of marine mammals and, where appropriate, will not have an unmitigable adverse impact on the availability of such species or stock for subsistence uses. NMFS considered all relevant information regarding NARW abundance estimates, including the commenter's cited information, and determined that the abundance estimate (338; 95 percent with a confidence interval of 325–350) included in the 2022 draft Stock Assessment Reports (SARs; <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessment-reports>), is the best available NARW abundance estimate (88 FR 32735, May 22, 2023).

NMFS also considered the best available science regarding both recent habitat usage patterns for the study area and up-to-date seasonality information in the notice of the proposed IHA, including consideration of existing Biologically Important Areas (BIAs) and densities provided by Roberts *et al.* (2022). While the commenters suggest that NMFS consider best available information for recent habitat usage patterns and seasonality, they did not offer any additional information for NMFS to consider in place of what NMFS considered the best available science in its notice of proposed IHA (88 FR 32735, May 22, 2023).

*Comment:* Oceana noted that chronic stressors are an emerging concern for NARW conservation and recovery and stated that chronic stress may result in energetic effects for NARW. Oceana suggested that NMFS has not fully considered both the use of the area and the effects of both acute and chronic stressors on the health and fitness of NARW, as disturbance responses in NARW could lead to chronic stress or habitat displacement, leading to an overall decline in their health and fitness.

*Response:* NMFS agrees with Oceana that both acute and chronic stressors are of concern for NARW conservation and recovery. We recognize that acute stress from acoustic exposure is one potential impact of these surveys, and that chronic stress can have fitness and reproductive impacts at the population-

level scale. NMFS has carefully reviewed the best available scientific information in assessing impacts to marine mammals and recognizes that the surveys have the potential to impact marine mammals through behavioral effects, stress responses, and auditory masking. However, NMFS does not expect that the generally short-term, intermittent, and transitory marine site characterization survey activities planned by IWO will create conditions of acute or chronic acoustic exposure leading to long-term physiological stress responses in marine mammals. NMFS has also prescribed a robust suite of mitigation measures, including extended distance shutdowns for NARW, that are expected to further reduce the duration and intensity of acoustic exposure while limiting the potential severity of any possible behavioral disruption. The potential for chronic stress was evaluated in making the determinations presented in NMFS' negligible impact analyses. NARW generally use this location in a transitory manner, specifically for migration, and any potential impacts from these surveys are lessened for other behaviors due to the brief periods where exposure is possible. In context of these expected low-level impacts, which are not expected to meaningfully affect important behavior, we refer to the large size of the migratory corridor (269, 488 km<sup>2</sup>) compared with the approximately 3,615 km<sup>2</sup> of total estimated Level B harassment ensonified area associated with the Survey Area. Thus, the transitory nature of NARW at this location means it is unlikely for any exposure to cause chronic effects, as IWO's planned survey area and ensonified zones are much smaller than the overall migratory corridor. As such, NMFS does not expect acute or cumulative stress to be a detrimental factor to NARW from IWO's described survey activities.

Lastly, NMFS does not find that the effects of IWO's survey may contribute to stunted growth rates as suggested by Oceana's comments. The activities associated with IWO's survey are outside the scope of activities described in the Stewart *et al.* (2021) paper, which finds that entanglements in fishing gear are associated with shorter whales. There is no evidence suggesting that the survey activities considered herein could have energetic effects similar to those caused by entanglement in fishing gear. Therefore, NMFS does not expect stunted growth rates to result from IWO's described survey activities.

*Comment:* COA states that there is no legal authority for permitting offshore geotechnical and geophysical survey

activities under BOEM, based on text from the proposed BOEM Renewable Energy Modernization proposed rule (88 FR 5968, January 30, 2023; 88 FR 19578, April 3, 2023). They further state that this has allowed for no oversight with regards to surveys off New Jersey and New York and that they do not understand how BOEM can make assertions without regulations/guidance for HRG survey work.

*Response:* NMFS' statutory authority for this particular action is limited to authorizing incidental take of marine mammals. NMFS respectfully refers the commenter to BOEM, the agency with responsibility for managing development of U.S. Outer Continental Shelf energy and mineral resources in an environmentally and economically responsible way.

*Comment:* Multiple commenters alleged that incidental take authorizations are in direct violation of the MMPA because they have not been demonstrated to do no harm and asserted that "numerous studies" or "the scientific consensus" exist that indicate survey activities are harmful.

*Response:* The MMPA directs NMFS to authorize the incidental, but not intentional, taking by harassment of small numbers of marine mammals by U.S. citizens engaged in a specified activity within a specific geographic region if NMFS finds, based on the best scientific evidence available, that the taking by harassment will have a negligible impact on species or stock of marine mammal(s) and where applicable, will not have an unmitigable adverse impact on the availability of such species or stock for taking for subsistence uses. We incorporate by reference our findings below in the Negligible Impact Analysis and Determination section.

Additionally, the commenters did not offer any additional scientific information for NMFS to consider in place of what NMFS considered the best available science in its notice of proposed IHA (88 FR 32735, May 22, 2023).

*Comment:* Multiple commenters urged NMFS to deny the proposed project and/or postpone any offshore wind (OSW) activities until NMFS determines effects of all OSW activities on marine mammals in the region and determines that the recent whale deaths are not related to OSW activities. Similarly, some commenters provided general concerns regarding recent whale stranding events on the Atlantic Coast, including speculation that the strandings may be related to wind energy development-related activities. However, the commenters did not

provide any specific information supporting these concerns.

*Response:* NMFS authorizes take of marine mammals incidental to marine site characterization surveys but does not authorize the surveys themselves. Therefore, while NMFS has the authority to modify, suspend, or revoke an IHA if the IHA holder fails to abide by the conditions prescribed therein (including, but not limited to, failure to comply with monitoring or reporting requirements), or if NMFS determines that (1) the authorized taking is having or is likely to have more than a negligible impact on the species or stocks of affected marine mammals, or (2) the prescribed measures are likely not or are not effecting the least practicable adverse impact on the affected species or stocks and their habitat, it is not within NMFS' jurisdiction to impose a moratorium on offshore wind development or to require surveys to cease.

NMFS reiterates that there is no evidence that noise resulting from offshore wind development-related site characterization surveys could potentially cause marine mammal stranding, and there is no evidence linking recent large whale mortalities and currently ongoing surveys. The commenters offer no such evidence. NMFS will continue to gather data to help us determine the cause of death for these stranded whales. We note the Marine Mammal Commission's recent statement: "There continues to be no evidence to link these large whale strandings to offshore wind energy development, including no evidence to link them to sound emitted during wind development-related site characterization surveys, known as HRG surveys. Although HRG surveys have been occurring off New England and the mid-Atlantic coast, HRG devices have never been implicated or causatively-associated with baleen whale strandings." (Marine Mammal Commission Newsletter, Spring 2023).

There is an ongoing Unusual Mortality Event (UME) for humpback whales along the Atlantic coast from Maine to Florida, which includes animals stranded since 2016. Partial or full necropsy examinations were conducted on approximately half of the whales. Necropsies were not conducted on other carcasses because they were too decomposed, not brought to land, or stranded on protected lands (e.g., national and state parks) with limited or no access. Of the whales examined (roughly 90), about 40 percent had evidence of human interaction, either vessel strike or entanglement. Vessel strikes and entanglement in fishing gear

are the greatest human threats to large whales. The remaining 50 necropsied whales either had an undetermined cause of death (due to a limited examination or decomposition of the carcass), or had other causes of death including parasite-caused organ damage and starvation.

As discussed herein, HRG sources may behaviorally disturb marine mammals (e.g., avoidance of the immediate area). These HRG surveys are very different from seismic airguns used in oil and gas surveys or tactical military sonar. They produce much smaller impact zones because, in general, they have lower source levels and produce output at higher frequencies. The area within which HRG sources might behaviorally disturb a marine mammal is orders of magnitude smaller than the impact areas for seismic airguns or military sonar. Any marine mammal exposure to HRG surveys would be at significantly lower levels and shorter duration compared to seismic airguns or military sonar, which is associated with less severe impacts to marine mammals.

*Comment:* Several commenters expressed concern that the proposed IHA and its associated specified activities would lead to mortality (death) of marine mammals.

*Response:* NMFS emphasizes that there is no credible scientific evidence available suggesting that mortality and/or serious injury is a potential outcome of the planned survey activity. Additionally, NMFS cannot authorize mortality or serious injury via an IHA, and such taking is prohibited under Condition 3(c) of the IHA and may result in modification, suspension, or revocation of the IHA. NMFS notes there has never been a report of any serious injuries or mortalities of a marine mammal associated with site characterization surveys.

The best available science indicates that Level B harassment, or disruption of behavioral patterns, may occur as a result of IWO's specified activities. We also refer to the Greater Atlantic Regional Fisheries Office (GARFO) 2021 Programmatic Consultation, which finds that these survey activities are in general not likely to adversely affect marine mammal species listed under the Endangered Species Act (ESA) (i.e., GARFO's analysis conducted pursuant to the ESA finds that marine mammals are not likely to be taken at all (as that term is defined under the ESA), much less be taken by serious injury or mortality). That document is found at <https://www.fisheries.noaa.gov/new-england-mid-atlantic/consultations/section-7-take-reporting-programmatics>

*greater-atlantic#offshore-wind-site-assessment-and-site-characterization-activities-programmatic-consultation.*

*Comment:* Two commenters asserted that NMFS must deny all actions until the cumulative impacts of every incidental take authorization on marine mammals are considered. COA and Oceana asserted that NMFS must fully consider the discrete effects of each activity and the cumulative effects of the suite of approved, proposed, and potential OSW activities on marine mammals and NARW, in particular, and ensure that the cumulative effects are not excessive before issuing or renewing an IHA.

*Response:* NMFS is required to authorize the requested incidental take if it finds the incidental take by harassment of small numbers of marine mammals by U.S. citizens “while engaging in that [specified] activity” within a specified geographic region will have a negligible impact on such species or stock and where appropriate, will not have an unmitigable adverse impact on the availability of such species or stock for subsistence uses. 16 U.S.C. 1371(a)(5)(D). Negligible impact is defined 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 effect on annual rates of recruitment or survival. 50 CFR 216.103. Neither the MMPA nor NMFS’ implementing regulations require consideration of other unrelated activities and their impacts on marine mammal populations in the negligible impact determination. Additionally, NMFS’ implementing regulations require applicants to include in their request a detailed description of the specified activity or class of activities that can be expected to result in incidental taking of marine mammals. 50 CFR 216.104(a)(1). Thus, the “specified activity” for which incidental take coverage is being sought under section 101(a)(5)(D) is generally defined and described by the applicant. Consistent with the preamble of NMFS’ implementing regulations (54 FR 40338, September 29, 1989), the impacts from other past and ongoing anthropogenic activities are factored into the baseline, which is used in the negligible impact analysis. Here, NMFS has factored into its negligible impact analysis the impacts of other past and ongoing anthropogenic activities via their impacts on the baseline (e.g., as reflected in the density, distribution and status of the species, population size and growth rate, and other relevant stressors).

The preamble of NMFS’ implementing regulations (54 FR 40338, September 29, 1989) also addresses cumulative effects from future, unrelated activities. Such effects are not considered in making the negligible impact determination under MMPA section 101(a)(5). NMFS considers 1) cumulative effects that are reasonably foreseeable when preparing a National Environmental Policy Act (NEPA) analysis, and (2) reasonably foreseeable cumulative effects under section 7 of the ESA for ESA-listed species, as appropriate. Accordingly, NMFS has written Environmental Assessments (EA) that addressed cumulative impacts related to substantially similar activities in similar locations (e.g., the 2019 Avangrid EA for survey activities offshore North Carolina and Virginia; the 2017 Ocean Wind, LLC EA for site characterization surveys off New Jersey; and the 2018 Deepwater Wind EA for survey activities offshore Delaware, Massachusetts, and Rhode Island). Cumulative impacts regarding issuance of IHAs for site characterization survey activities such as those planned by IWO have been adequately addressed under NEPA in prior environmental analyses that support NMFS’ determination that this action is appropriately categorically excluded from further NEPA analysis. NMFS independently evaluated the use of a categorical exclusion (CE) for issuance of IWO’s IHA, which included consideration of extraordinary circumstances.

Separately, the cumulative effects of substantially similar activities in the northwest Atlantic Ocean have been analyzed in the past under section 7 of the ESA when NMFS has engaged in formal intra-agency consultation, such as the 2013 programmatic Biological Opinion for BOEM Lease and Site Assessment Rhode Island, Massachusetts, New York, and New Jersey Wind Energy Areas (<https://repository.library.noaa.gov/view/noaa/29291>). Analyzed activities include those for which NMFS issued previous IHAs (82 FR 31562, July 7, 2017; 83 FR 28808, June 21, 2018; 83 FR 36539, July 30, 2018; and 86 FR 26465, May 10, 2021), which are similar to those planned by IWO under this current IHA request. This Biological Opinion (BiOp) determined that NMFS’ issuance of IHAs for site characterization survey activities associated with leasing, individually and cumulatively, are not likely to adversely affect listed marine mammals. NMFS notes that, while issuance of this IHA is covered under a different consultation, this BiOp remains valid.

*Comment:* COA provided concerns related to the required mitigation measures, assessing the effectiveness of the mitigation measures, and reporting the use of the mitigation measures in real-time, and questioned the feasibility of the shutdown mitigation requirements in real-world conditions and what would occur if the authorized take levels were exceeded.

*Response:* In regards to a scenario where IWO exceeds their authorized take level for a particular species, any further take of that species would be unauthorized and, therefore, prohibited under the MMPA. All mitigation measures stated in this notice and in the issued IHA are considered feasible. NMFS works with each ITA applicant, including IWO, to ensure that project-specific mitigation measures are possible in real-world conditions. This includes shutdown zones when there is reduced visibility. As stated in the IHA condition 5(d), IWO must ensure certain equipment is provided to protected species observers (PSOs), such as thermal (infrared) cameras, to allow PSOs to adequately complete their duties, including in reduced-visibility conditions. NMFS does not agree that additional wording is necessary within the IHA to further describe the requirement and implementation of shutdown zones. If NMFS determines during the effective period of the IHA that the prescribed measures are likely not or are not effecting the least practicable adverse impact on the affected species or stocks and their habitat, NMFS may modify, suspend, or revoke the IHA. NMFS disagrees that the IHA’s mitigation measures are insufficient.

NMFS reviews required reporting (see Monitoring and Reporting) and uses the information to evaluate the mitigation measure effectiveness. Additionally, the mitigation measures included in IWO’s IHA are not unique, and data from prior IHAs support the effectiveness of these mitigation measures. NMFS finds the level of reporting currently required is sufficient for managing the issued IHA and monitoring the affected stocks of marine mammals.

*Comment:* COA objected to NMFS’ “small numbers” determination for the numbers of marine mammals taken by Level B harassment under IWO’s planned activities.

*Response:* NMFS disagrees with the commenters’ arguments on the topic of small numbers. Although there is limited legislative history available to guide NMFS and an apparent lack of biological underpinning to the concept, we have worked to develop a reasoned approach to small numbers. NMFS

explains the concept of “small numbers” in recognition that there could also be quantities of individuals taken that would correspond with “medium” and “large” numbers. As such, NMFS considers that one-third of the most appropriate population abundance number—as compared with the assumed number of individuals taken—is an appropriate limit with regard to “small numbers.” This relative approach is consistent with the statement from the legislative history that “[small numbers] is not capable of being expressed in absolute numerical limits” (H.R. Rep. No. 97–228, at 19 (September 16, 1981)), and relevant case law (*Center for Biological Diversity v. Salazar*, 695 F.3d 893, 907 (9th Cir. 2012) (holding that the U.S. Fish and Wildlife Service reasonably interpreted “small numbers” by analyzing take in relative or proportional terms)). NMFS has made the necessary small numbers finding for all affected species and stocks in this case.

*Comment:* Oceana recommended that NMFS restrict all vessels of all sizes associated with the proposed survey activities to speeds less than 10 kn at all times due to the risk of vessel strikes to NARW and other large whales.

*Response:* While NMFS acknowledges that vessel strikes can result in serious injury or mortality of marine mammals, we have analyzed the potential for vessel strike resulting from IWO’s activity and have determined that based on the nature of the activity (*i.e.*, survey vessel speed is typically 4–5 kn while towing gear, smaller size of vessels, generally slower speeds during transit), the potential for vessel strike is so low as to be discountable. We also determined that the vessel strike avoidance measures (Condition 4(m)), along with all other mitigation and monitoring measures, in the IHA are sufficient to ensure the least practicable adverse impact on species or stocks and their habitat. Furthermore, no documented vessel strikes have occurred for any marine site characterization surveys which were issued IHAs from NMFS during HRG survey activities themselves or while transiting to and from survey sites.

*Comment:* COA expressed concern regarding ocean noise and the interference it has on communication between whales.

*Response:* NMFS has carefully reviewed the best available scientific information in assessing impacts to marine mammals and determined that the surveys have the potential to impact marine mammals through behavioral effects and auditory masking. NMFS agrees that noise pollution in marine waters is an issue and is affecting marine mammals, including their ability to communicate when noise reaches certain thresholds. However, NMFS does not expect that the generally short-term, intermittent, and transitory marine site characterization survey activities planned by IWO will create conditions of acute or chronic acoustic exposure leading to long-term physiological impacts in marine mammals. NMFS’ prescribed mitigation measures are expected to further reduce the duration and intensity of acoustic exposure while limiting the potential severity of any possible behavioral disruption.

*Comment:* One commenter claims NMFS failed to include Level B harassment impacts in its NEPA analysis.

*Response:* NMFS has determined that the issuance of this IHA qualifies to be categorically excluded from further NEPA review because it is consistent with categories of activities identified in Categorical Exclusion B4 (IHAs with no anticipated serious injury or mortality) of the Companion Manual for NOAA Administrative Order (NAO) 216–6A, which do not individually or cumulatively have the potential for significant impacts on the quality of the human environment and for which we have not identified any extraordinary circumstances that would preclude this categorical exclusion.

#### **Changes From the Proposed IHA to Final IHA**

One change was made from the proposed IHA as a result of consultation with GARFO: an addition to the Monitoring and Reporting section specifying requirements relating to the use of a “trained lookout” in lieu of a PSO during required breaks for the approved PSO on duty on space-limited nearshore vessels.

#### **Description of Marine Mammals in the Area of Specified Activities**

Sections 3 and 4 of the application summarize available information regarding status and trends, distribution

and habitat preferences, and behavior and life history of the potentially affected species. NMFS fully considered all of this information, and we refer the reader to these descriptions, incorporated here by reference, instead of reprinting the information. Additional information regarding population trends and threats may be found in NMFS’ SARs ([www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments](http://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments)) and more general information about these species (*e.g.*, physical and behavioral descriptions) may be found on NMFS’ website (<https://www.fisheries.noaa.gov/find-species>).

Table 1 lists all species or stocks for which take is authorized for this activity and summarizes information related to the species or stock, including regulatory status under the MMPA and ESA and potential biological removal (PBR), where known. PBR is defined by the MMPA as the maximum number of animals, not including natural mortalities, that may be removed from a marine mammal stock while allowing that stock to reach or maintain its optimum sustainable population (as described in NMFS’ SARs). While no serious injury or mortality is authorized here, PBR and annual serious injury and mortality from anthropogenic sources are included here as gross indicators of the status of the species or stocks and other threats.

Marine mammal abundance estimates presented in this document represent the total number of individuals that make up a given stock or the total number estimated within a particular study or survey area. NMFS’ stock abundance estimates for most species represent the total estimate of individuals within the geographic area, if known, that comprises that stock. For some species, this geographic area may extend beyond U.S. waters. All MMPA managed stocks in this region are assessed in NMFS’ U.S. Atlantic and Gulf of Mexico SARs. All values presented in Table 1 are the most recent available at the time of publication (including from the draft 2022 SARs) and are available online at: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments>.



TABLE 1—SPECIES AND STOCKS LIKELY IMPACTED BY THE SPECIFIED ACTIVITIES <sup>1</sup>

Common name	Scientific name	Stock	ESA/ MMP A status; Strategic (Y/N) <sup>2</sup>	Stock abundance (CV, N <sub>min</sub> , most recent abundance survey) <sup>3</sup>	PBR	Annual M/Sl <sup>4</sup>
<b>Order Artiodactyla—Infraorder Cetacea—Mysticeti (baleen whales)</b>						
<i>Family Balaenidae:</i>						
North Atlantic right whale	<i>Eubalaena glacialis</i> .....	Western North Atlantic .....	E/D; Y	338 (0; 332; 2020) .....	0.7	8.1
<i>Family Balaenopteridae (rorquals):</i>						
Fin whale .....	<i>Balaenoptera physalus</i> .....	Western North Atlantic .....	E/D; Y	6,802 (0.24; 5,573, 2016)	11	1.8
Humpback whale .....	<i>Megaptera novaeangliae</i> .....	Gulf of Maine .....	-/-; Y	1,396 (0; 1,380; 2016) .....	22	12.15
Minke whale .....	<i>Balaenoptera acutrostrata</i> .....	Canadian East Coastal .....	-/-; N	21,968 (0.31; 17,002; 2016).	170	10.6
Sei whale .....	<i>Balaenoptera borealis</i> .....	Nova Scotia .....	E/D; Y	6,292 (1.02; 3,098; 2016)	6.2	0.8
<b>Odontoceti (toothed whales, dolphins, and porpoises)</b>						
<i>Family Physeteridae:</i>						
Sperm whale .....	<i>Physeter macrocephalus</i> .....	North Atlantic .....	E/D; Y	4,349 (0.28; 3,451; 2016)	3.9	0
<i>Family Delphinidae:</i>						
Atlantic spotted dolphin .....	<i>Stenella frontalis</i> .....	Western North Atlantic .....	-/-; N	39,921 (0.27; 32,032; 2016).	320	0
Atlantic white-sided dolphin .....	<i>Lagenorhynchus acutus</i> .....	Western North Atlantic .....	-/-; N	93,233 (0.71; 54,443; 2016).	544	27
Bottlenose dolphin .....	<i>Tursiops truncatus</i> .....	Western North Atlantic, Off-shore.	-/-; N	62,851 (0.23; 51,914; 2016).	519	28
Bottlenose dolphin .....	<i>Tursiops truncatus</i> .....	Western North Atlantic, Northern Migratory Coastal.	-/D; Y	6,639 (0.41; 4,759; 2016)	48	12.2–21.5
Long-finned pilot whale .....	<i>Globicephala melas</i> .....	Western North Atlantic .....	-/-; N	39,215 (0.3; 30,627; 2016)	306	9
Risso's dolphin .....	<i>Grampus griseus</i> .....	Western North Atlantic .....	-/-; N	35,215 (0.19; 30,051; 2016).	301	34
Common dolphin .....	<i>Delphinus delphis</i> .....	Western North Atlantic .....	-/-; N	172,974 (0.21; 145,216; 2016).	1,452	390
<i>Family Phocoenidae (porpoises):</i>						
Harbor porpoise .....	<i>Phocoena phocoena</i> .....	Gulf of Maine/Bay of Fundy ..	-/-; N	95,543 (0.31; 74,034; 2016).	851	164
<b>Order Carnivora—Pinnipedia</b>						
<i>Family Phocidae (earless seals):</i>						
Gray seal <sup>5</sup> .....	<i>Halichoerus grypus</i> .....	Western North Atlantic .....	-/-; N	27,300 (0.22; 22,785; 2016).	1,389	4,453
Harbor seal .....	<i>Phoca vitulina</i> .....	Western North Atlantic .....	-/-; N	61,336 (0.08; 57,637; 2018).	1,729	329

<sup>1</sup> Information on the classification of marine mammal species can be found on the web page for The Society for Marine Mammalogy's Committee on Taxonomy (<https://marinemammalscience.org/science-and-publications/list-marine-mammal-species-subspecies/>; Committee on Taxonomy (2022)).

<sup>2</sup> ESA status: Endangered (E), Threatened (T)/MMPA status: Depleted (D). A dash (-) indicates that the species is not listed under the ESA or designated as depleted under the MMPA. Under the MMPA, a strategic stock is one for which the level of direct human-caused mortality exceeds PBR or which is determined to be declining and likely to be listed under the ESA within the foreseeable future. Any species or stock listed under the ESA is automatically designated under the MMPA as depleted and as a strategic stock.

<sup>3</sup> NMFS marine mammal stock assessment reports online at: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments>. CV is coefficient of variation; N<sub>min</sub> is the minimum estimate of stock abundance.

<sup>4</sup> These values, found in NMFS' SARs, represent annual levels of human-caused mortality plus serious injury (M/Sl) from all sources combined (e.g., commercial fisheries, vessel strike). Annual M/Sl often cannot be determined precisely and is in some cases presented as a minimum value or range. A CV associated with estimated mortality due to commercial fisheries is presented in some cases.

<sup>5</sup> NMFS's stock abundance estimate (and associated PBR value) applies to the U.S. population only. Total stock abundance (including animals in Canada) is approximately 451,600. The annual M/Sl given is for the total stock.

A detailed description of the species likely to be affected by this project, including brief introductions to the species and relevant stocks, population trends and threats, and local occurrence, were provided in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023). Since that time, we are not aware of any changes in the status of these species and stocks; therefore, detailed descriptions are not provided here. Please refer to the **Federal Register** notice (88 FR 32735, May 22, 2023) for these descriptions. Please also refer to the NMFS website (<https://www.fisheries.noaa.gov/find-species>) for generalized species accounts.

*species*) for generalized species accounts.

*Marine Mammal Hearing*

Hearing is the most important sensory modality for marine mammals underwater, and exposure to anthropogenic sound can have deleterious effects. To appropriately assess the potential effects of exposure to sound, it is necessary to understand the frequency ranges marine mammals are able to hear. Not all marine mammal species have equal hearing capabilities (e.g., Richardson *et al.*, 2005, Wartzok and Ketten, 1999, Au and Hastings,

2008). To reflect this, Southall *et al.* (2007), Southall *et al.* (2019) recommended that marine mammals be divided into hearing groups based on directly measured (behavioral or auditory evoked potential techniques) or estimated hearing ranges (behavioral response data, anatomical modeling, *etc.*). Note that no direct measurements of hearing ability have been successfully completed for mysticetes (*i.e.*, low-frequency cetaceans). Subsequently, NMFS (2018) described generalized hearing ranges for these marine mammal hearing groups. Generalized hearing ranges were chosen based on the

approximately 65 decibel (dB) threshold from the normalized composite audiograms, with the exception for lower limits for low-frequency cetaceans where the lower bound was deemed to be biologically implausible and the lower bound from Southall *et al.* (2007) retained. Marine mammal hearing groups and their associated hearing ranges are provided in Table 2.

TABLE 2—MARINE MAMMAL HEARING GROUPS [NMFS, 2018]

Hearing group	Generalized hearing range*
Low-frequency (LF) cetaceans (baleen whales)	7 Hz to 35 kHz.
Mid-frequency (MF) cetaceans (dolphins, toothed whales, beaked whales, bottlenose whales)	150 Hz to 160 kHz.
High-frequency (HF) cetaceans (true porpoises, <i>Kogia</i> , river dolphins, Cephalorhynchid, <i>Lagenorhynchus cruciger</i> & <i>L. australis</i> ).	275 Hz to 160 kHz.
Phocid pinnipeds (PW) (underwater) (true seals)	50 Hz to 86 kHz.
Otariid pinnipeds (OW) (underwater) (sea lions and fur seals)	60 Hz to 39 kHz.

\* Represents the generalized hearing range for the entire group as a composite (*i.e.*, all species within the group), where individual species' hearing ranges are typically not as broad. Generalized hearing range chosen based on ~65 dB threshold from normalized composite audiogram, with the exception for lower limits for LF cetaceans (Southall *et al.* 2007) and PW pinniped (approximation).

The pinniped functional hearing group was modified from Southall *et al.* (2007) on the basis of data indicating that phocid species have consistently demonstrated an extended frequency range of hearing compared to otariids, especially in the higher frequency range (Hemilä *et al.*, 2006, Kastelein *et al.*, 2009, Reichmuth *et al.*, 2013).

For more detail concerning these groups and associated frequency ranges, please see NMFS (2018) for a review of available information.

**Potential Effects of Specified Activities on Marine Mammals and Their Habitat**

A description of the potential effects of the specified activities on marine mammals and their habitat can be found in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023). There is no new information on the potential effects of the specified activities on marine mammals. Therefore, that information is not repeated here; please refer to the **Federal Register** notice (88 FR 32735, May 22, 2023).

**Estimated Take**

This section provides an estimate of the number of incidental takes authorized through the IHA, which informs both NMFS' "small numbers" and the negligible impact determinations.

Harassment is the only type of take expected to result from these activities. Except with respect to certain activities not pertinent here, section 3(18) of 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).

Authorized takes are by Level B harassment only, in the form of disruption of behavioral patterns for individual marine mammals resulting from exposure to sound produced by the sparkers. Based on the characteristics of the signals produced by the acoustic sources planned for use, Level A harassment is neither anticipated (even absent mitigation) nor authorized. As described previously, no serious injury or mortality is anticipated or authorized for this activity. Below, we describe how the take numbers are estimated.

For acoustic impacts, generally speaking, we estimate take by considering: (1) acoustic thresholds above which NMFS believes the best available science indicates marine mammals will be behaviorally harassed or incur some degree of permanent hearing impairment; (2) the area or volume of water that will be ensonified above these levels in a day; (3) the density or occurrence of marine mammals within these ensonified areas; and, (4) the number of days of activities. We note that while these factors can contribute to a basic calculation to provide an initial prediction of potential takes, additional information that can qualitatively inform take estimates is also sometimes available (*e.g.*, previous monitoring results or average group size). Below, we describe the factors considered here in more detail and present the authorized take estimates.

*Acoustic Thresholds*

NMFS recommends the use of acoustic thresholds that identify the received level of underwater sound

above which exposed marine mammals would be reasonably expected to be behaviorally harassed (equated to Level B harassment) or to incur permanent threshold shift (PTS) of some degree (equated to Level A harassment).

*Level B Harassment*—Though significantly driven by received level, the onset of behavioral disturbance from anthropogenic noise exposure is also informed to varying degrees by other factors related to the source or exposure context (*e.g.*, frequency, predictability, duty cycle, duration of the exposure, signal-to-noise ratio, distance to the source), the environment (*e.g.*, bathymetry, other noises in the area, predators in the area), and the receiving animals (hearing, motivation, experience, demography, life stage, depth) and can be difficult to predict (*e.g.*, Ellison *et al.*, 2012; Southall *et al.*, 2007; Southall *et al.*, 2021). Based on what the available science indicates and the practical need to use a threshold based on a metric that is both predictable and measurable for most activities, NMFS typically uses a generalized acoustic threshold based on received level to estimate the onset of behavioral harassment. NMFS generally predicts that marine mammals are likely to be behaviorally harassed in a manner considered to be Level B harassment when exposed to underwater anthropogenic noise above root mean squared (RMS) sound pressure level (SPL) of 120 dB (referenced to 1 microPascal (re 1 µPa)) for continuous (*e.g.*, vibratory pile driving, drilling) and above RMS SPL 160 dB re 1 µPa for non-explosive impulsive (*e.g.*, seismic airguns) or intermittent (*e.g.*, scientific sonar) sources.

Generally speaking, Level B harassment take estimates based on these behavioral harassment thresholds are expected to include any likely takes by temporary threshold shift (TTS) as, in most cases, the likelihood of TTS occurs at distances from the source less than those at which behavioral harassment is likely. TTS of a sufficient degree can manifest as behavioral harassment, as reduced hearing sensitivity and the potential reduced opportunities to detect important signals (conspecific communication, predators, prey) may result in changes in behavior patterns that would not otherwise occur.

IWO's marine site characterization surveys include the use of impulsive (*i.e.*, sparker) sources, and therefore the RMS SPL threshold of 160 dB re 1  $\mu$ Pa is applicable.

**Level A Harassment**—NMFS' Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 2.0) (Technical Guidance; NMFS, 2018) identifies dual criteria to assess auditory injury (Level A harassment) to five different marine mammal groups (based on hearing sensitivity) as a result of exposure to noise from two different types of sources (impulsive or non-impulsive).

The references, analysis, and methodology used in the development of the thresholds are described in NMFS (2018) Technical Guidance, which may be accessed at: [www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-acoustic-technical-guidance](http://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-acoustic-technical-guidance).

IWO's marine site characterization surveys include the use of impulsive (*i.e.*, sparker) sources. However, as discussed above, NMFS has concluded that Level A harassment is not a reasonably likely outcome for marine mammals exposed to noise through use of the sources planned for use here, and the potential for Level A harassment is not evaluated further in this document. Please see IWO's application for details of a quantitative exposure analysis exercise (*i.e.*, calculated Level A harassment isopleths and estimated Level A harassment exposures). IWO did not request authorization of take by Level A harassment, and no take by Level A harassment is authorized by NMFS.

#### *Ensonified Area*

Here, we describe operational and environmental parameters of the activity that are used in estimating the area ensonified above the acoustic thresholds, including source levels and transmission loss coefficient.

NMFS has developed a user-friendly methodology for estimating the extent of the Level B harassment isopleths associated with relevant HRG survey equipment (NMFS, 2020). This methodology incorporates frequency and directionality (when relevant) to refine estimated ensonified zones. For acoustic sources that operate with different beamwidths, the maximum beamwidth was used, and the lowest frequency of the source was used when calculating the frequency-dependent absorption coefficient. IWO used 180-degree beamwidth in the calculation for the sparker systems as is appropriate for an omnidirectional source.

NMFS considers the data provided by Crocker and Fratantonio (2016) to represent the best available information on source levels associated with HRG survey equipment and, therefore, recommends that source levels provided by Crocker and Fratantonio (2016) be incorporated in the method described above to estimate isopleth distances to harassment thresholds. In cases where the source level for a specific type of HRG equipment is not provided in Crocker and Fratantonio (2016), NMFS recommends either the source levels provided by the manufacturer be used, or, in instances where source levels provided by the manufacturer are unavailable or unreliable, a proxy from Crocker and Fratantonio (2016) be used instead. Table 1 in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023) shows the HRG equipment type used during the planned surveys and the source levels associated with those HRG equipment types.

IWO plans to use the Applied Acoustics Dura-Spark 240/400 (400 tip/500 Joules (J)), Applied Acoustics Dura-Spark UHD 400+400 (400 tip/500–800 J), and the Geo-Source 200–400 Marine Multi-tip Sparker System (400 tip/400–500 J). For the two Applied Acoustics source configurations (Table 1 in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023)), the maximum power expected to be discharged is 800 J. However, Crocker and Fratantonio (2016) did not measure the Dura-Spark with an energy of 800 J, only 500 J, 2,000 J, and 2,400 J, so the source level values for 500 J (provided in Table 10 of Crocker and Fratantonio, 2016) were used as a proxy, as this setting was anticipated to be more representative of the application of the equipment than the next level reported for 2,000 J. The Applied Acoustics Dura-Spark was also used as a proxy for the Geo-Source 200–400 Marine Multi-tip Sparker System (400 tip/400–500 J). Using the measured source level of 203

dB RMS SPL of the proxy, results of modeling indicated that all three sparkers would produce an estimated distance of 141 m to the Level B harassment isopleth.

Results of modeling using the methodology described above indicated that, of the HRG survey equipment proposed for use by the applicant (Table 1 in the **Federal Register** notice for the proposed IHA (88 FR 32735, May 22, 2023)) that has the potential to result in Level B harassment of marine mammals, all three systems would produce the same distance to the Level B harassment isopleth (141 m). More detail is provided on the acoustic sources and methodology in the **Federal Register** notice for the proposed IHA; please refer to the **Federal Register** notice (88 FR 32735, May 22, 2023).

#### *Marine Mammal Occurrence*

In this section, we provide information about the occurrence of marine mammals, including density or other relevant information that will inform the take calculations.

Habitat-based density models produced by the Duke University Marine Geospatial Ecology Laboratory (Roberts *et al.*, 2016, Roberts *et al.*, 2023) represent the best available information regarding marine mammal densities in the planned survey area. These density data incorporate aerial and shipboard line-transect survey data from NMFS and other organizations and incorporate data from numerous physiographic and dynamic oceanographic and biological covariates, and controls for the influence of sea state, group size, availability bias, and perception bias on the probability of making a sighting. These density models were originally developed for all cetacean taxa in the U.S. Atlantic in 2016 and models for all taxa were updated in 2022 (Roberts *et al.*, 2016, Roberts *et al.*, 2023). More information is available online at <https://seamap.env.duke.edu/models/Duke/EC/>. Marine mammal density estimates in the survey area (animals/km<sup>2</sup>) were obtained using the most recent model results for all taxa.

For the exposure analysis, density data from Roberts *et al.* (2023) were mapped using a geographic information system (GIS). For the survey area, the monthly densities of each species as reported by Roberts *et al.* (2023) were averaged by season; thus, a density was calculated for each species for spring, summer, fall, and winter. Density seasonal averages were calculated for both the Lease Area and the ECR Area for each species to assess the greatest average seasonal densities for each

species. To be conservative since the exact timing for the survey during the year is uncertain, the greatest average seasonal density calculated for each species was carried forward in the exposure analysis, with exceptions noted later in this discussion. Estimated greatest average seasonal densities (animals/km<sup>2</sup>) of marine mammal species that may be taken incidental to the planned survey can be found in Tables 6–1 and 6–2 of IWO’s IHA application. Below, we discuss how densities were assumed to apply to specific species for which the Roberts *et al.* (2023) models provide results at the genus or guild level.

There are two stocks of bottlenose dolphins that may be impacted by the surveys (Western North Atlantic Northern Migratory Coastal Stock (Coastal Stock) and Western North Atlantic Offshore Stock (Offshore Stock)), however, Roberts *et al.* (2023) do not differentiate by stock. The Coastal Stock is assumed to generally occur in waters less than 20 m (65 ft) and the Offshore Stock in waters greater than 20 m (65 ft) isobath. The Lease Area is in waters greater than 20 m (65 ft) depth and only the Offshore Stock would occur and potentially be taken by survey effort in that area. Both stocks could occur in the ECR Area, so IWO calculated separate mean seasonal densities for the portion that is less than 20 m depth and for the portion that is greater than 20 m depth to use for estimating take of the Coastal and Offshore Stocks of bottlenose dolphins, respectively.

Furthermore, the Roberts *et al.* (2023) density model does not differentiate between the different pinniped species. For seals, given their size and behavior when in the water, seasonality, and feeding preferences, there is limited information available on species-specific distribution. Density estimates

from Roberts *et al.* (2023) include all seal species that may occur in the Western North Atlantic combined (*i.e.*, gray, harbor, harp, hooded). For this IHA, only gray seals and harbor seals are reasonably expected to occur in the survey area; densities of seals were split evenly between these two species.

Finally, the Roberts *et al.* (2023) density model does not differentiate between pilot whale species. While the exact latitudinal ranges of the two species are uncertain, only long-finned pilot whales are expected to occur in this project area due to their more northerly distribution and tolerance of shallower, colder shelf waters (Hayes *et al.*, 2022). We assume that all pilot whales near the project area would be long-finned pilot whales due to their range overlapping and short-finned pilot whales are not anticipated to occur as far north as the survey area (Garrison and Rosel, 2017). For this IHA, densities of pilot whales are assumed to be only long-finned pilot whale.

**Take Estimation**

Here, we describe how the information provided above is synthesized to produce a quantitative estimate of the take that is reasonably likely to occur and authorized.

In order to estimate the number of marine mammals predicted to be exposed to sound levels that would result in harassment, radial distances to predicted isopleths corresponding to Level B harassment thresholds were calculated, as described above. The distance (*i.e.*, 141 m distance associated with the sparker systems) to the Level B harassment criterion and the total length of the survey trackline were then used to calculate the total ensonified area, or harassment zone, around the survey vessel.

IWO plans to conduct HRG surveys for a maximum total of 12,818 km

trackline length, of which 7,460 km are in the Lease Area and 5,358 km are in the ECR Area. Of the ECR Area trackline, 1,600 km are in waters less than 20 m depth. Based on the maximum estimated distance to the Level B harassment threshold (141 m) for all three sparker systems and maximum total survey length, the total ensonified area is 3,615 km<sup>2</sup> (2,104 km<sup>2</sup> Lease Area and 1,511 km<sup>2</sup> ECR Area (452 km<sup>2</sup> in waters less than 20 m depth; 1,059 km<sup>2</sup> in waters greater than 20 m depth)), based on the following formula, where the total estimated trackline length (*L*) in each area was used and buffered with the horizontal distance to the Level B harassment threshold (*R*) to determine the total area ensonified to 160 dB SPL.

$$Harassment\ Zone = (L \times 2R) + \pi R^2$$

The number of marine mammals expected to be incidentally taken during the total survey was then calculated by estimating the number of each species predicted to occur within the ensonified area (animals/km<sup>2</sup>), incorporating the greatest seasonal estimated marine mammal densities as described above. The product is then rounded to generate an estimate of the total number of instances of harassment expected for each species over the duration of the survey (up to 274 days). A summary of this method is illustrated in the following formula, where the Harassment Zone is multiplied by the highest seasonal mean density (*D*) of each species or stock (animals/km<sup>2</sup>; except for pilot whales where annual density was used based on data availability).

$$Estimated\ Take = Harassment\ Zone \times D$$

The resulting take of marine mammals (Level B harassment only) is shown in Table 3.

TABLE 3—ESTIMATED TAKE NUMBERS AND TOTAL TAKE AUTHORIZED

Species	Ensonified area (km <sup>2</sup> )	Density (animals/km <sup>2</sup> )	Estimated take	Total take authorized	Percent of abundance <sup>A</sup>
North Atlantic right whale .....	3,615	0.001748	6	6	1.87
Humpback whale .....	3,615	0.003657	13	13	0.95
Fin whale .....	3,615	0.004856	18	18	0.26
Sei whale .....	3,615	0.001813	7	7	0.10
Minke whale .....	3,615	0.025476	92	92	0.42
Sperm whale .....	3,615	0.000371	1	†2	0.03
Risso’s dolphin .....	3,615	0.002841	10	10	0.03
Long-finned pilot whale .....	3,615	0.003363	12	†15	0.03
Atlantic white-sided dolphin .....	3,615	0.027836	101	101	0.11
Common dolphin .....	3,615	0.245719	888	888	0.51
Atlantic spotted dolphin .....	3,615	0.011683	42	42	0.11
Harbor porpoise .....	3,615	0.262904	950	950	0.99
Common bottlenose dolphin (Offshore Stock) <sup>B</sup> .....	3,164	0.193127	611	611	0.97
Common bottlenose dolphin (Northern Migratory Coastal Stock) <sup>C</sup> .....	452	1.758553	795	795	11.97
Gray seal .....	3,615	<sup>D</sup> 0.262904	950	950	0.21

TABLE 3—ESTIMATED TAKE NUMBERS AND TOTAL TAKE AUTHORIZED—Continued

Species	Ensonified area (km <sup>2</sup> )	Density (animals/km <sup>2</sup> )	Estimated take	Total take authorized	Percent of abundance <sup>A</sup>
Harbor seal .....	3,615	<sup>D</sup> 0.262904	950	950	<sup>E</sup> 1.55

**Note:** Take request based on average group size using sightings data from (CETAP, 1982, Palka *et al.*, 2017, Palka *et al.*, 2021) (see Attachment 3 of application).

<sup>A</sup> Based on the 2022 draft marine mammal stock assessment reports (SAR).

<sup>B</sup> The ensonified area for the offshore stock is for greater than 20 m water depth includes all the lease area and portions of the ECR.

<sup>C</sup> The ensonified area for the migratory coastal stock is only the areas of less than 20 m water depth (found only in portions of the ECR).

<sup>D</sup> These each represent 50 percent of a generic seal density value.

<sup>E</sup> This abundance estimate is based on the total stock abundance (including animals in Canada). The NMFS stock abundance estimate for U.S. population is only 27,300.

**Mitigation**

In order to issue an IHA under section 101(a)(5)(D) of the MMPA, NMFS must set forth the permissible methods of taking pursuant to the activity, and other means of effecting the least practicable impact on the species or stock and its habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of the species or stock for taking for certain subsistence uses (latter not applicable for this action). NMFS regulations require applicants for incidental take authorizations to include information about the availability and feasibility (economic and technological) of equipment, methods, and manner of conducting the activity or other means of effecting the least practicable adverse impact upon the affected species or stocks, and their habitat (50 CFR 216.104(a)(11)).

In evaluating how mitigation may or may not be appropriate to ensure the least practicable adverse impact on species or stocks and their habitat, NMFS considers two primary factors:

(1) The manner in which, and the degree to which, the successful implementation of the measure(s) is expected to reduce impacts to marine mammals, marine mammal species or stocks, and their habitat. This considers the nature of the potential adverse impact being mitigated (likelihood, scope, range). It further considers the likelihood that the measure will be effective if implemented (probability of accomplishing the mitigating result if implemented as planned), the likelihood of effective implementation (probability implemented as planned); and,

(2) The practicability of the measures for applicant implementation, which may consider such things as cost and impact on operations.

The following mitigation measures must be implemented during IWO’s planned marine site characterization surveys. Pursuant to section 7 of the ESA, IWO would also be required to adhere to relevant Project Design

Criteria (PDC) of the NMFS’ GARFO programmatic consultation (specifically PDCs 4, 5, and 7) regarding geophysical surveys along the U.S. Atlantic coast (<https://www.fisheries.noaa.gov/new-england-mid-atlantic/consultations/section-7-take-reporting-programmatics-greater-atlantic#offshore-wind-site-assessment-and-site-characterization-activities-programmatic-consultation>).

*Visual Monitoring and Shutdown Zones*

IWO must employ independent, dedicated, trained PSOs, meaning that the PSOs must (1) be employed by a third-party observer provider, (2) have no tasks other than to conduct observational effort, collect data, and communicate with and instruct relevant vessel crew with regard to the presence of marine mammals and mitigation requirements (including brief alerts regarding maritime hazards), and (3) have successfully completed an approved PSO training course appropriate for geophysical surveys. Visual monitoring must be performed by qualified, NMFS-approved PSOs. PSO resumes must be provided to NMFS for review and approval prior to the start of survey activities.

During survey operations (*e.g.*, any day in which use of the sparker system is planned to occur, and whenever the sparker system is in the water, whether activated or not), a minimum of one visual PSO must be on duty on each source vessel and conducting visual observations at all times during daylight hours (*i.e.*, from 30 minutes (min) prior to sunrise through 30 min following sunset). A minimum of two PSOs must be on duty on each source vessel during nighttime hours. Visual monitoring must begin no less than 30 min prior to ramp-up (described below) and must continue until 30 min after use of the sparker system ceases.

Visual PSOs shall coordinate to ensure 360-degree visual coverage around the vessel from the most appropriate observation posts and shall conduct visual observations using binoculars and the naked eye while free

from distractions and in a consistent, systematic, and diligent manner. PSOs shall establish and monitor applicable shutdown zones (see below). These zones shall be based upon the radial distance from the sparker system (rather than being based around the vessel itself).

Two shutdown zones are defined, depending on the species and context. Here, an extended shutdown zone encompassing the area at and below the sea surface out to a radius of 500 m from the sparker system (0–500 m) is defined for NARW. For all other marine mammals, the shutdown zone encompasses a standard distance of 100 m (0–100 m) during the use of the sparker. Any observations of marine mammals by crew members aboard any vessel associated with the survey shall be relayed to the PSO team.

Visual PSOs may be on watch for a maximum of 4 consecutive hours followed by a break of at least 1 hr between watches and may conduct a maximum of 12 hr of observation per 24-hr period.

*Pre-Start Clearance and Ramp-Up*

A ramp-up procedure, involving a gradual increase in source level output, is required at all times as part of the activation of the sparker system when technically feasible. Operators should ramp up sparker to half power for 5 min and then proceed to full power. A 30 min pre-start clearance observation period of the shutdown zones must occur prior to the start of ramp-up. The intent of the pre-start clearance observation period (30 min) is to ensure no marine mammals are within the shutdown zones prior to the beginning of ramp-up. The intent of the ramp-up is to warn marine mammals of pending operations and to allow sufficient time for those animals to leave the immediate vicinity. All operators must adhere to the following pre-start clearance and ramp-up requirements:

- The operator must notify a designated PSO of the planned start of ramp-up as agreed upon with the lead

PSO; the notification time should not be less than 60 min prior to the planned ramp-up in order to allow the PSOs time to monitor the shutdown zones for 30 min prior to the initiation of ramp-up (pre-start clearance). During this 30 min pre-start clearance period the entire shutdown zone must be visible, except as indicated below.

- Ramp-ups shall be scheduled so as to minimize the time spent with the source activated.

- A visual PSO conducting pre-start clearance observations must be notified again immediately prior to initiating ramp-up procedures and the operator must receive confirmation from the PSO to proceed.

- Any PSO on duty has the authority to delay the start of survey operations if a marine mammal is detected within the applicable pre-start clearance zone.

- The operator must establish and maintain clear lines of communication directly between PSOs on duty and crew controlling the acoustic source to ensure that mitigation commands are conveyed swiftly while allowing PSOs to maintain watch.

The pre-start clearance requirement is waived for small delphinids and pinnipeds. Detection of a small delphinid (individual belonging to the following genera of the Family Delphinidae: *Steno*, *Delphinus*, *Lagenorhynchus*, *Stenella*, and *Tursiops*) or pinniped within the shutdown zone does not preclude beginning of ramp-up, unless the PSO confirms the individual to be of a genus other than those listed, in which case normal pre-clearance requirements apply.

If there is uncertainty regarding identification of a marine mammal species (*i.e.*, whether the observed marine mammal(s) belongs to one of the delphinid genera for which the pre-clearance requirement is waived), PSOs may use best professional judgment in making the decision to call for a shutdown.

- Ramp-up may not be initiated if any marine mammal to which the pre-start clearance requirement applies is within the shutdown zone. If a marine mammal is observed within the shutdown zone during the 30 min pre-start clearance period, ramp-up may not begin until the animal(s) has been observed exiting the zones or until an additional time period has elapsed with no further sightings (30 min for all baleen whale species and sperm whales, 15 min for all other species).

- PSOs must monitor the shutdown zones 30 min before and during ramp-up, and ramp-up must cease and the source must be shut down upon

observation of a marine mammal within the applicable shutdown zone.

- Ramp-up may occur at times of poor visibility, including nighttime, if appropriate visual monitoring has occurred with no detections of marine mammals in the 30 min prior to beginning ramp-up. Sparker activation may only occur at night where operational planning cannot reasonably avoid such circumstances.

If the acoustic source is shut down for brief periods (*i.e.*, less than 30 min) for reasons other than implementation of prescribed mitigation (*e.g.*, mechanical difficulty), it may be activated again without ramp-up if PSOs have maintained constant visual observation and no detections of marine mammals have occurred within the applicable shutdown zone. For any longer shutdown, pre-start clearance observation and ramp-up are required.

#### Shutdown Procedures

All operators must adhere to the following shutdown requirements:

- Any PSO on duty has the authority to call for shutdown of the sparker system if a marine mammal is detected within the applicable shutdown zone.

- The operator must establish and maintain clear lines of communication directly between PSOs on duty and crew controlling the source to ensure that shutdown commands are conveyed swiftly while allowing PSOs to maintain watch.

- When the sparker system is active and a marine mammal appears within or enters the applicable shutdown zone, the source must be shut down. When shutdown is instructed by a PSO, the sparker system must be immediately deactivated and any dispute resolved only following deactivation.

- Two shutdown zones are defined, depending on the species and context. An extended shutdown zone encompassing the area at and below the sea surface out to a radius of 500 m from the sparker system (0–500 m) is defined for NARW. For all other marine mammals, the shutdown zone encompasses a standard distance of 100 m (0–100 m) during the use of the sparker.

The shutdown requirement is waived for small delphinids and pinnipeds. If a small delphinid (individual belonging to the following genera of the Family Delphinidae: *Steno*, *Delphinus*, *Lagenorhynchus*, *Stenella*, and *Tursiops*) or pinniped is visually detected within the shutdown zone, no shutdown is required unless the PSO confirms the individual to be of a genus other than those listed, in which case a shutdown is required.

If there is uncertainty regarding identification of a marine mammal species (*i.e.*, whether the observed marine mammal(s) belongs to one of the delphinid genera for which shutdown is waived or one of the species with a larger shutdown zone), PSOs may use best professional judgment in making the decision to call for a shutdown.

Upon implementation of shutdown, the source may be reactivated after the marine mammal has been observed exiting the applicable shutdown zone or following a clearance period (30 min for all baleen whale species and sperm whales, 15 min for all other species) with no further detection of the marine mammal.

If a species for which authorization has not been granted, or a species for which authorization has been granted but the authorized number of takes have been met, approaches or is observed within the Level B harassment zone (141 m), shutdown must occur.

#### Vessel Strike Avoidance

Crew and supply vessel personnel must use an appropriate reference guide that includes identifying information on all marine mammals that may be encountered. Vessel operators must comply with the below measures except under extraordinary circumstances when the safety of the vessel or crew is in doubt or the safety of life at sea is in question. These requirements do not apply in any case where compliance would create an imminent and serious threat to a person or vessel or to the extent that a vessel is restricted in its ability to maneuver and, because of the restriction, cannot comply.

Vessel operators and crews must maintain a vigilant watch for all marine mammals and slow down, stop their vessel(s), or alter course, as appropriate and regardless of vessel size, to avoid striking any marine mammals. A single marine mammal at the surface may indicate the presence of submerged animals in the vicinity of the vessel; therefore, precautionary measures should always be exercised. A visual observer aboard the vessel must monitor a vessel strike avoidance zone around the vessel (species-specific distances are detailed below). Visual observers monitoring the vessel strike avoidance zone may be third-party observers (*i.e.*, PSOs) or crew members, but crew members responsible for these duties must be provided sufficient training to (1) distinguish marine mammal from other phenomena, and (2) broadly to identify a marine mammal as a NARW, other whale (defined in this context as sperm whales or baleen whales other

than NARWs), or other marine mammals.

All survey vessels, regardless of size, must observe a 10-kn (18.52 km/hr) speed restriction in specific areas designated by NMFS for the protection of NARWs from vessel strikes. These include all SMAs established under 50 CFR 224.105 (when in effect), any DMAs (when in effect), and Slow Zones. See [www.fisheries.noaa.gov/national/ endangered-species-conservation/ reducing-ship-strikes-north-atlantic-right-whales](https://www.fisheries.noaa.gov/national/ endangered-species-conservation/ reducing-ship-strikes-north-atlantic-right-whales) for specific detail regarding these areas.

- All vessels must reduce speed to 10 kn (18.52 km/hr) or less when mother/ calf pairs, pods, or large assemblages of cetaceans are observed near a vessel.
- All vessels must maintain a minimum separation distance of 500 m from NARWs, baleen whales (except humpback and minke), sperm whales, and any unidentified large whales. If a NARW, baleen whale (except humpback and minke), sperm whale, and any unidentified large whale is sighted

within the relevant separation distance, the vessel must steer a course away at 10 kn (18.52 km/hr) or less until the 500-m separation distance has been established. If a whale is observed but cannot be confirmed as a species other than a NARW, the vessel operator must assume that it is a NARW and take appropriate action.

- All vessels must maintain a minimum separation distance of 100 m from all humpback and minke whales.
- All vessels must, to the maximum extent practicable, attempt to maintain a minimum separation distance of 50 m from all other marine mammals, with an understanding that at times this may not be possible (e.g., for animals that approach the vessel).
- When marine mammals are sighted while a vessel is underway, the vessel must take action as necessary to avoid violating the relevant separation distance (e.g., attempt to remain parallel to the animal's course, avoid excessive speed or abrupt changes in direction until the animal has left the area, reduce

speed and shift the engine to neutral). This does not apply to any vessel towing gear or any vessel that is navigationally constrained.

Members of the PSO team will consult the NMFS NARW reporting system and Whale Alert, daily and as able, for the presence of NARWs throughout survey operations, and for the establishment of DMAs and/or Slow Zones. It is IWO's responsibility to maintain awareness of the establishment and location of any such areas and to abide by these requirements accordingly.

*Seasonal Operating Requirements*

As described above, a section of the Survey Area partially overlaps with a portion of a NARW SMA off the port of New York/New Jersey. This SMA is active from November 1 through April 30 of each year. The survey vessel, regardless of length, would be required to adhere to vessel speed restrictions (less than 10 kn (18.52 km/hr)) when operating within the SMA during times when the SMA is active (Table 4).

TABLE 4—NORTH ATLANTIC RIGHT WHALE DMA AND SMA RESTRICTIONS WITHIN THE SURVEY AREA

Survey area	Species	DMA restrictions	Slow zones	SMA restrictions
Lease Area .....	North Atlantic right whale.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	N/A.
ECR Area (within SMA).	North Atlantic right whale.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	November 1 through April 31 (Ports of New York/New Jersey).
ECR Area (outside SMA).	North Atlantic right whale.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	If established by NMFS, all of IWO's vessel will abide by the described restrictions.	N/A.

More information on Vessel Strike Reduction for the NARW can be found at NMFS' website: <https://www.fisheries.noaa.gov/national/ endangered-species-conservation/reducing-vessel-strikes-north-atlantic-right-whales>.

Based on our evaluation of the applicant's planned measures, as well as other measures considered by NMFS, NMFS has determined that the planned mitigation measures provide the means of effecting the least practicable impact on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance.

**Monitoring and Reporting**

In order to issue an IHA for an activity, section 101(a)(5)(D) of the MMPA states that NMFS must set forth requirements pertaining to the monitoring and reporting of such taking. The MMPA implementing regulations at 50 CFR 216.104(a)(13) indicate that requests for authorizations must include the suggested means of accomplishing the necessary monitoring and reporting that will result in increased knowledge

of the species and of the level of taking or impacts on populations of marine mammals that are expected to be present while conducting the activities. Effective reporting is critical both to compliance as well as ensuring that the most value is obtained from the required monitoring.

Monitoring and reporting requirements prescribed by NMFS should contribute to improved understanding of one or more of the following:

- Occurrence of marine mammal species or stocks in the area in which take is anticipated (e.g., presence, abundance, distribution, density);
- Nature, scope, or context of likely marine mammal exposure to potential stressors/impacts (individual or cumulative, acute or chronic), through better understanding of: (1) action or environment (e.g., source

characterization, propagation, ambient noise); (2) affected species (e.g., life history, dive patterns); (3) co-occurrence of marine mammal species with the activity; or (4) biological or behavioral context of exposure (e.g., age, calving or feeding areas);

- Individual marine mammal responses (behavioral or physiological) to acoustic stressors (acute, chronic, or cumulative), other stressors, or cumulative impacts from multiple stressors;
- How anticipated responses to stressors impact either: (1) long-term fitness and survival of individual marine mammals; or (2) populations, species, or stocks;
- Effects on marine mammal habitat (e.g., marine mammal prey species, acoustic habitat, or other important physical components of marine mammal habitat); and,

- Mitigation and monitoring effectiveness.

#### Monitoring Measures

Visual monitoring must be performed by qualified, NMFS-approved PSOs. IWO must submit PSO resumes for NMFS review and approval prior to commencement of the survey. Resumes should include dates of training and any prior NMFS approval, as well as dates and description of last experience, and must be accompanied by information documenting successful completion of an acceptable training course.

For prospective PSOs not previously approved, or for PSOs whose approval is not current, NMFS must review and approve PSO qualifications. Resumes should include information related to relevant education, experience, and training, including dates, duration, location, and description of prior PSO experience. Resumes must be accompanied by relevant documentation of successful completion of necessary training.

NMFS may approve PSOs as conditional or unconditional. A conditionally-approved PSO may be one who is trained but has not yet attained the requisite experience. An unconditionally-approved PSO is one who has attained the necessary experience. For unconditional approval, the PSO must have a minimum of 90 days at sea performing the role during a geophysical survey, with the conclusion of the most recent relevant experience not more than 18 months previous.

At least one of the visual PSOs aboard the vessel must be unconditionally-approved. One unconditionally-approved visual PSO shall be designated as the lead for the entire PSO team. This lead should typically be the PSO with the most experience, who would coordinate duty schedules and roles for the PSO team and serve as primary point of contact for the vessel operator. To the maximum extent practicable, the duty schedule shall be planned such that unconditionally-approved PSOs are on duty with conditionally-approved PSOs.

A “trained lookout” may be used on a space-limited nearshore vessel (generally operating in water less than 20 m (65 ft) depth for no more than 12 hr/day) during required breaks for the approved PSO on duty. Project-specific training must be conducted for all vessel crew with “lookout” responsibilities prior to the start of a survey and during any changes in crew such that all relevant survey personnel are fully aware and understand the mitigation, monitoring, and reporting requirements.

All vessel crew members operating as a trained lookout must be briefed in the identification of protected species that may occur in the survey area and in relevant mitigation requirements. Reference materials must be available aboard all project vessels for identification of protected species. Should a mitigation action be taken, the Trained Lookout will immediately notify the off-watch PSO to ensure that the appropriate response was taken and sightings and mitigation measures are properly documented (*i.e.*, if shutdown was called for or avoidance measures for large whales/vessel strike avoidance taken, the Trained Lookout immediately notifies the off-watch PSO). If the survey is operating within a DMA or Slow Zone, the survey may only operate with a PSO on-watch.

At least one PSO aboard each acoustic source vessel must have a minimum of 90 days at-sea experience working in the role, with no more than 18 months elapsed since the conclusion of the at-sea experience. One PSO with such experience must be designated as the lead for the entire PSO team and serve as the primary point of contact for the vessel operator. (Note that the responsibility of coordinating duty schedules and roles may instead be assigned to a shore-based, third-party monitoring coordinator.) To the maximum extent practicable, the lead PSO must devise the duty schedule such that experienced PSOs are on duty with those PSOs with appropriate training but who have not yet gained relevant experience.

PSOs must successfully complete relevant training, including completion of all required coursework and passing (80 percent or more) a written and/or oral examination developed for the training program.

PSOs must have successfully attained a bachelor’s degree from an accredited college or university with a major in one of the natural sciences, a minimum of 30 semester hours or equivalent in the biological sciences, and at least one undergraduate course in math or statistics. The educational requirements may be waived if the PSO has acquired the relevant skills through alternate experience. Requests for such a waiver shall be submitted to NMFS and must include written justification. Alternate experience that may be considered includes, but is not limited to (1) secondary education and/or experience comparable to PSO duties; (2) previous work experience conducting academic, commercial, or government-sponsored marine mammal surveys; and (3) previous work experience as a PSO (PSO must be in good standing and

demonstrate good performance of PSO duties).

IWO must work with the selected third-party PSO provider to ensure PSOs have all equipment (including backup equipment) needed to adequately perform necessary tasks, including accurate determination of distance and bearing to observed marine mammals, and to ensure that PSOs are capable of calibrating equipment as necessary for accurate distance estimates and species identification. Such equipment, at a minimum, shall include:

- At least one thermal (infrared) image device suited for the marine environment;
- Reticule binoculars (*e.g.*, 7 x 50) of appropriate quality (at least one per PSO, plus backups);
- Global positioning units (GPS) (at least one plus backups);
- Digital cameras with a telephoto lens that is at least 300-mm or equivalent on a full-frame single lens reflex, also known as SLR (at least one plus backups). The camera or lens should also have an image stabilization system;
- Equipment necessary for accurate measurement of distances to marine mammal;
- Compasses (at least one plus backups);
- Means of communication among vessel crew and PSOs; and,
- Any other tools deemed necessary to adequately and effectively perform PSO tasks.

The equipment specified above may be provided by an individual PSO, the third-party PSO provider, or the operator, but IWO is responsible for ensuring PSOs have the proper equipment required to perform the duties specified in the IHA.

The PSOs will be responsible for monitoring the waters surrounding the survey vessel to the farthest extent permitted by sighting conditions, including Shutdown Zones, during all HRG survey operations. PSOs will visually monitor and identify marine mammals, including those approaching or entering the established Shutdown Zones during survey activities. It will be the responsibility of the PSO(s) on duty to communicate the presence of marine mammals as well as to communicate the action(s) that are necessary to ensure mitigation and monitoring requirements are implemented as appropriate.

PSOs must be equipped with binoculars and have the ability to estimate distance and bearing to detect marine mammals, particularly in proximity to Shutdown Zones. Reticulated binoculars must also be



available to PSOs for use as appropriate based on conditions and visibility to support the sighting and monitoring of marine mammals. During nighttime operations, appropriate night-vision devices (e.g., night-vision goggles with thermal clip-ons and infrared technology) would be used. Position data would be recorded using hand-held or vessel GPS units for each sighting.

During good conditions (e.g., daylight hours; Beaufort sea state (BSS) 3 or less), to the maximum extent practicable, PSOs must also conduct observations when the acoustic source is not operating for comparison of sighting rates and behavior with and without use of the active acoustic sources and between acquisition periods, to the maximum extent practicable. Any observations of marine mammals by crew members aboard the vessel associated with the survey would be relayed to the PSO team.

Data on all PSO observations would be recorded based on standard PSO collection requirements (see *Reporting Measures*). This would include dates, times, and locations of survey operations; dates and times of observations, location and weather; details of marine mammal sightings (e.g., species, numbers, behavior); and details of any observed marine mammal behavior that occurs (e.g., noted behavioral disturbances). Members of the PSO team shall consult the NMFS NARW reporting system and Whale Alert, daily and as able, for the presence of NARWs throughout survey operations.

#### Reporting Measures

IWO shall submit a draft comprehensive report to NMFS on all activities and monitoring results within 90 days of the completion of the survey or expiration of the IHA, whichever comes sooner. The report must describe all activities conducted and sightings of marine mammals, must provide full documentation of methods, results, and interpretation pertaining to all monitoring, and must summarize the dates and locations of survey operations and all marine mammal sightings (dates, times, locations, activities, associated survey activities). The draft report shall also include geo-referenced, time-stamped vessel tracklines for all time periods during which acoustic sources were operating. Tracklines should include points recording any change in acoustic source status (e.g., when the sources began operating, when they were turned off, or when they changed operational status such as from full array to single gun or vice versa). GIS files shall be provided in

Environmental Systems Research Institute, Inc. (ESRI) shapefile format and include the Coordinated Universal Time (UTC) date and time, latitude in decimal degrees, and longitude in decimal degrees. All coordinates shall be referenced to the WGS84 geographic coordinate system. In addition to the report, all raw observational data shall be made available. The report must summarize the information. A final report must be submitted within 30 days following resolution of any comments on the draft report. All draft and final marine mammal monitoring reports must be submitted to [PR.ITP.MonitoringReports@noaa.gov](mailto:PR.ITP.MonitoringReports@noaa.gov), [nmfs.gar.incidental-take@noaa.gov](mailto:nmfs.gar.incidental-take@noaa.gov), [ITP.clevenstine@noaa.gov](mailto:ITP.clevenstine@noaa.gov).

PSOs must use standardized electronic data forms to record data. PSOs shall record detailed information about any implementation of mitigation requirements, including the distance of marine mammal to the acoustic source and description of specific actions that ensued, the behavior of the animal(s), any observed changes in behavior before and after implementation of mitigation, and if shutdown was implemented, the length of time before any subsequent ramp-up of the acoustic source. If required mitigation was not implemented, PSOs should record a description of the circumstances. At a minimum, the following information must be recorded:

1. Vessel names (source vessel), vessel size and type, maximum speed capability of vessel;
2. Dates of departures and returns to port with port name;
3. PSO names and affiliations;
4. Date and participants of PSO briefings;
5. Visual monitoring equipment used;
6. PSO location on vessel and height of observation location above water surface;
7. Dates and times (Greenwich Mean Time (GMT)) of survey on/off effort and times corresponding with PSO on/off effort;
8. Vessel location (decimal degrees) when survey effort begins and ends and vessel location at beginning and end of visual PSO duty shifts;
9. Vessel location at 30-second intervals if obtainable from data collection software, otherwise at practical regular interval;
10. Vessel heading and speed at beginning and end of visual PSO duty shifts and upon any change;
11. Water depth (if obtainable from data collection software);
12. Environmental conditions while on visual survey (at beginning and end of PSO shift and whenever conditions

change significantly), including BSS and any other relevant weather conditions including cloud cover, fog, sun glare, and overall visibility to the horizon;

13. Factors that may contribute to impaired observations during each PSO shift change or as needed as environmental conditions change (e.g., vessel traffic, equipment malfunctions); and,

14. Survey activity information (and changes thereof), such as acoustic source power output while in operation, number and volume of airguns operating in an array, tow depth of an acoustic source, and any other notes of significance (i.e., pre-start clearance, ramp-up, shutdown, testing, shooting, ramp-up completion, end of operations, streamers, etc.).

15. Upon visual observation of any marine mammal, the following information must be recorded:

- a. Watch status (sighting made by PSO on/off effort, opportunistic, crew, alternate vessel/platform);
- b. Vessel/survey activity at time of sighting (e.g., deploying, recovering, testing, shooting, data acquisition, other);
- c. PSO who sighted the animal;
- d. Time of sighting;
- e. Initial detection method;
- f. Sightings cue;
- g. Vessel location at time of sighting (decimal degrees);
- h. Direction of vessel's travel (compass direction);
- i. Speed of the vessel(s) from which the observation was made;
- j. Identification of the animal (e.g., genus/species, lowest possible taxonomic level or unidentified); also note the composition of the group if there is a mix of species;
- k. Species reliability (an indicator of confidence in identification);
- l. Estimated distance to the animal and method of estimating distance;
- m. Estimated number of animals (high/low/best);
- n. Estimated number of animals by cohort (adults, yearlings, juveniles, calves, group composition, etc.);
- o. Description (as many distinguishing features as possible of each individual seen, including length, shape, color, pattern, scars, or markings, shape and size of dorsal fin, shape of head, and blow characteristics);
- p. Detailed behavior observations (e.g., number of blows/breaths, number of surfaces, breaching, spyhopping, diving, feeding, traveling; as explicit and detailed as possible; note any observed changes in behavior before and after point of closest approach);
- q. Mitigation actions; description of any actions implemented in response to

the sighting (e.g., delays, shutdowns, ramp-up, speed or course alteration, etc.) and time and location of the action;

r. Equipment operating during sighting;

s. Animal's closest point of approach and/or closest distance from the center point of the acoustic source; and,

t. Description of any actions implemented in response to the sighting (e.g., delays, shutdown, ramp-up) and time and location of the action.

If a NARW is observed at any time by PSOs or personnel on the project vessel, during surveys or during vessel transit, IWO must report the sighting information to the NMFS NARW Sighting Advisory System (866-755-6622) within 2 hr of occurrence, when practicable, or no later than 24 hr after occurrence. NARW sightings in any location may also be reported to the U.S. Coast Guard via channel 16 and through the Whale Alert app (<https://www.whalealert.org>).

In the event that personnel involved in the survey activities discover an injured or dead marine mammal, the incident must be reported to NMFS as soon as feasible by phone (866-755-6622) and by email ([nmfs.gar.incidental-take@noaa.gov](mailto:nmfs.gar.incidental-take@noaa.gov) and [PR.ITP.MonitoringReports@noaa.gov](mailto:PR.ITP.MonitoringReports@noaa.gov)). The report must include the following information:

1. Time, date, and location (latitude/longitude) of the first discovery (and updated location information if known and applicable);
2. Species identification (if known) or description of the animal(s) involved;
3. Condition of the animal(s) (including carcass condition if the animal is dead);
4. Observed behaviors of the animal(s), if alive;
5. If available, photographs or video footage of the animal(s); and
6. General circumstances under which the animal was discovered.

In the event of a vessel strike of a marine mammal by any vessel involved in the activities, IWO must report the incident to NMFS by phone (866-755-6622) and by email ([nmfs.gar.incidental-take@noaa.gov](mailto:nmfs.gar.incidental-take@noaa.gov) and [PR.ITP.MonitoringReports@noaa.gov](mailto:PR.ITP.MonitoringReports@noaa.gov)) as soon as feasible. The report would include the following information:

1. Time, date, and location (latitude/longitude) of the incident;
2. Species identification (if known) or description of the animal(s) involved;
3. Vessel's speed during and leading up to the incident;
4. Vessel's course/heading and what operations were being conducted (if applicable);
5. Status of all sound sources in use;

6. Description of avoidance measures/requirements that were in place at the time of the strike and what additional measures were taken, if any, to avoid strike;

7. Environmental conditions (e.g., wind speed and direction, Beaufort sea state, cloud cover, visibility) immediately preceding the strike;

8. Estimated size and length of animal that was struck;

9. Description of the behavior of the marine mammal immediately preceding and/or following the strike;

10. If available, description of the presence and behavior of any other marine mammals immediately preceding the strike;

11. Estimated fate of the animal (e.g., dead, injured but alive, injured and moving, blood or tissue observed in the water, status unknown, disappeared); and

12. To the extent practicable, photographs or video footage of the animal(s).

#### Negligible Impact Analysis and Determination

NMFS has defined negligible impact 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 (50 CFR 216.103). A negligible impact finding is based on the lack of likely adverse effects on annual rates of recruitment or survival (i.e., population-level effects). An estimate of the number of takes alone is not enough information on which to base an impact determination. In addition to considering estimates of the number of marine mammals that might be "taken" through harassment, NMFS considers other factors, such as the likely nature of any impacts or responses (e.g., intensity, duration), the context of any impacts or responses (e.g., critical reproductive time or location, foraging impacts affecting energetics), as well as effects on habitat, and the likely effectiveness of the mitigation. We also assess the number, intensity, and context of estimated takes by evaluating this information relative to population status. Consistent with the 1989 preamble for NMFS' implementing regulations (54 FR 40338, September 29, 1989), the impacts from other past and ongoing anthropogenic activities are incorporated into this analysis via their impacts on the baseline (e.g., as reflected in the regulatory status of the species, population size and growth rate where known, ongoing sources of

human-caused mortality, or ambient noise levels).

To avoid repetition, the majority of our analysis applies to all the species listed in Table 1, given that some of the anticipated effects of this project on different marine mammal stocks are expected to be relatively similar in nature. Where there are meaningful differences between species or stocks, or groups of species, in anticipated individual responses to activities, impact of expected take on the population due to differences in population status, or impacts on habitat, they are included as separate subsections. Specifically, we provide additional discussion related to NARW and to other species currently experiencing UMEs.

NMFS does not anticipate that serious injury or mortality would occur as a result from HRG surveys, even in the absence of mitigation, and no serious injury or mortality is authorized. As discussed in the Potential Effects of Specified Activities on Marine Mammals and their Habitat section, non-auditory physical effects, auditory physical effects, and vessel strike are not expected to occur. NMFS expects that all potential takes would be in the form of Level B harassment in the form of temporary avoidance of the area or decreased foraging (if such activity was occurring), reactions that are considered to be of low severity and with no lasting biological consequences (e.g., Southall *et al.*, 2007; Ellison *et al.*, 2012).

In addition to being temporary, the maximum expected harassment zone around a survey vessel is 141 m. Therefore, the ensonified area surrounding each vessel is relatively small compared to the overall distribution of the animals in the area and their use of the habitat. Feeding behavior is not likely to be significantly impacted as prey species are mobile and are broadly distributed throughout the survey area; therefore, marine mammals that may be temporarily displaced during survey activities are expected to be able to resume foraging once they have moved away from areas with disturbing levels of underwater noise. Because of the temporary nature of the disturbance and the availability of similar habitat and resources in the surrounding area, the impacts to marine mammals and the food sources that they utilize are not expected to cause significant or long-term consequences for individual marine mammals or their populations.

There are no rookeries, mating, or calving grounds known to be biologically important to marine mammals within the planned survey

area and there are no feeding areas known to be biologically important to marine mammals within the survey area. There is no designated critical habitat for any ESA-listed marine mammals in the survey area.

#### *North Atlantic Right Whales*

The status of the NARW population is of heightened concern and, therefore, merits additional analysis. As noted previously, elevated NARW mortalities began in June 2017 and there is an active UME. Overall, preliminary findings attribute human interactions, specifically vessel strikes and entanglements, as the cause of death for the majority of NARWs. As noted previously, the survey area overlaps a migratory corridor BIA for NARWs that extends from Massachusetts to Florida and from the coast to beyond the shelf break. Due to the fact that the planned survey activities are temporary (will occur for up to 1 year) and the spatial extent of sound produced by the survey would be small relative to the spatial extent of the available migratory habitat in the BIA, NARW migration is not expected to be impacted by the survey. This important migratory area is approximately 269,488 km<sup>2</sup> in size (compared with the approximately 3,615 km<sup>2</sup> of total estimated Level B harassment ensonified area associated with the Survey Area) and is comprised of the waters of the continental shelf offshore the East Coast of the United States, extending from Florida through Massachusetts.

Given the relatively small size of the ensonified area, it is unlikely that prey availability would be adversely affected by HRG survey operations. Required vessel strike avoidance measures will also decrease risk of vessel strike during migration; no vessel strike is expected to occur during IWO's planned activities. Additionally, only very limited take by Level B harassment of NARWs has been requested and is authorized by NMFS as HRG survey operations are required to maintain and implement a 500-m shutdown zone. The 500-m shutdown zone for NARWs is conservative, considering the Level B harassment zone for the most impactful acoustic source (*i.e.*, sparker) is estimated to be 141 m, and thereby minimizes the intensity and duration of any potential incidents of behavioral harassment for this species. As noted previously, Level A harassment is not expected due to the small estimated zones in conjunction with the aforementioned shutdown requirements. NMFS does not anticipate NARW takes that would result from IWO's planned activities would impact annual rates of recruitment or survival.

Thus, any takes that occur would not result in population level impacts.

#### *Other Marine Mammal Species With Active UMEs*

As noted previously, there are several active UMEs occurring in the vicinity of IWO's Survey Area. Elevated humpback whale mortalities have occurred along the Atlantic coast from Maine through Florida since January 2016. Of the cases examined, approximately half had evidence of human interaction (*i.e.*, vessel strike, entanglement). The UME does not yet provide cause for concern regarding population-level impacts. Despite the UME, the relevant population of humpback whales (the West Indies breeding population, or distinct population segment) remains stable at approximately 12,000 individuals.

Beginning in January 2017, elevated minke whale strandings have occurred along the Atlantic coast from Maine through South Carolina, with highest numbers in Massachusetts, Maine, and New York. This event does not provide cause for concern regarding population level impacts, as the likely population abundance is greater than 20,000 whales.

Elevated numbers of harbor seal and gray seal mortalities were first observed from 2018–2020 and, as part of a separate UME, again in 2022. These have occurred across Maine, New Hampshire, and Massachusetts. Based on tests conducted so far, the main pathogen found in the seals is phocine distemper virus (2018–2020) and avian influenza (2022), although additional testing to identify other factors that may be involved in the UMEs is underway. The UMEs do not provide cause for concern regarding population-level impacts to any of these stocks. For harbor seals, the population abundance is over 60,000 and annual M/SI (339) is well below PBR (1,729) (Hayes *et al.*, 2022). The population abundance for gray seals in the United States is over 27,000, with an estimated abundance, including seals in Canada, of approximately 450,000. In addition, the abundance of gray seals is likely increasing in the U.S. Atlantic as well as in Canada (Hayes *et al.*, 2021, Hayes *et al.*, 2022).

The required mitigation measures are expected to reduce the number and/or severity of takes for all species listed in Table 1, including those with active UMEs, to the level of least practicable adverse impact. In particular, they would provide animals the opportunity to move away from the sound source before HRG survey equipment reaches full energy, thus preventing them from

being exposed to sound levels that have the potential to cause injury. No Level A harassment is anticipated, even in the absence of mitigation measures, or authorized.

NMFS expects that takes would be in the form of short-term Level B harassment by way of brief startling reactions and/or temporary vacating of the area, or decreased foraging (if such activity was occurring)—reactions that (at the scale and intensity anticipated here) are considered to be of low severity, with no lasting biological consequences. Since both the sources and marine mammals are mobile, animals would only be exposed briefly to a small ensonified area that might result in take. Additionally, required mitigation measures would further reduce exposure to sound that could result in more severe behavioral harassment.

In summary and as described above, the following factors primarily support our determination that the impacts resulting from this activity are not expected to adversely affect any of the species or stocks through effects on annual rates of recruitment or survival:

- No serious injury or mortality is anticipated or authorized;
  - No Level A harassment (PTS) is anticipated, even in the absence of mitigation measures, or authorized;
  - Foraging success is not likely to be significantly impacted as effects on species that serve as prey species for marine mammals from the survey are expected to be minimal;
  - The availability of alternate areas of similar habitat value for marine mammals to temporarily vacate the ensonified areas during the planned survey to avoid exposure to sounds from the activity;
  - Take is anticipated to be by Level B harassment only consisting of brief startling reactions and/or temporary avoidance of the ensonified area;
  - Survey activities would occur in such a comparatively small portion of the BIA for the NARW migration that any avoidance of the area due to survey activities would not affect migration. In addition, mitigation measures require shutdown at 500 m (over three times the size of the Level B harassment zone of 141 m) to minimize the effects of any Level B harassment take of the species; and,
  - The planned mitigation measures, including visual monitoring and shutdowns, are expected to minimize potential impacts to marine mammals.
- Based on the analysis contained herein of the likely effects of the specified activity on marine mammals and their habitat, and taking into

consideration the implementation of the required monitoring and mitigation measures, NMFS finds that the total marine mammal take from the planned activity will have a negligible impact on all affected marine mammal species or stocks.

### Small Numbers

As noted previously, only take of small numbers of marine mammals may be authorized under sections 101(a)(5)(A) and (D) of the MMPA for specified activities other than military readiness activities. The MMPA does not define small numbers and so, in practice, where estimated numbers are available, NMFS compares the number of individuals taken to the most appropriate estimation of abundance of the relevant species or stock in our determination of whether an authorization is limited to small numbers of marine mammals. When the predicted number of individuals to be taken is fewer than one-third of the species or stock abundance, the take is considered to be of small numbers. Additionally, other qualitative factors may be considered in the analysis, such as the temporal or spatial scale of the activities.

NMFS authorizes incidental take by Level B harassment only of 15 marine mammal species with 16 managed stocks. The total amount of takes authorized relative to the best available population abundance is less than 2 percent for 15 of the 16 managed stocks (less than 12 percent for the Western North Atlantic Northern Migratory Coastal Stock of bottlenose dolphins) (Table 3). The take numbers authorized are considered conservative estimates for purposes of the small numbers determination as they assume all takes represent different individual animals, which is unlikely to be the case.

Based on the analysis contained herein of the planned activity (including the planned mitigation and monitoring measures) and the anticipated take of marine mammals, NMFS finds that small numbers of marine mammals would be taken relative to the population size of the affected species or stocks.

### Unmitigable Adverse Impact Analysis and Determination

There are no relevant subsistence uses of the affected marine mammal stocks or species implicated by this action. Therefore, NMFS has determined that the total taking of affected species or stocks would not have an unmitigable adverse impact on the availability of such species or stocks for taking for subsistence purposes.

### Endangered Species Act

Section 7(a)(2) of the Endangered Species Act of 1973 (16 U.S.C. 1531 *et seq.*) requires that each Federal agency insure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of designated critical habitat. To ensure ESA compliance for the issuance of IHAs, NMFS consults internally whenever we propose to authorize take for endangered or threatened species.

NMFS Office of Protected Resources (OPR) has authorized take of four species of marine mammals which are listed under the ESA, including NARW, fin whale, sei whale, and sperm whale, and determined these activities fall within the scope of activities analyzed in the NMFS GARFO programmatic consultation regarding geophysical surveys along the U.S. Atlantic coast in the three Atlantic Renewable Energy Regions (completed June 29, 2021; revised September 2021).

### National Environmental Policy Act

To comply with the National Environmental Policy Act of 1969 (42 U.S.C. 4321 *et seq.*) and NAO 216–6A, NMFS must review our proposed action (*i.e.*, the issuance of an IHA) and alternatives with respect to potential impacts on the human environment.

This action is consistent with categories of activities identified in Categorical Exclusion B4 (IHAs with no anticipated serious injury or mortality) of the Companion Manual for NAO 216–6A, which do not individually or cumulatively have the potential for significant impacts on the quality of the human environment and for which we have not identified any extraordinary circumstances that would preclude this categorical exclusion. Accordingly, NMFS has determined that the issuance of this IHA qualifies to be categorically excluded from further NEPA review.

### Authorization

NMFS has issued an IHA to IWO for the potential harassment of small numbers of 15 marine mammal species (16 stocks) incidental to conducting marine site characterization surveys in waters off of New Jersey and New York in the New York Bight for a period of 1 year, that includes the previously explained mitigation, monitoring, and reporting requirements. The IHA can be found at: <https://www.fisheries.noaa.gov/action/incidental-take-authorization-invenergy-wind-offshore-llcs-site-characterization-surveys-new>.

Dated: July 20, 2023.

**Kimberly Damon-Randall,**

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

[FR Doc. 2023–15718 Filed 7–24–23; 8:45 am]

**BILLING CODE 3510–22–P**

## DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

[RTID 0648–XD175]

### New England Fishery Management Council; Public Meeting

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

**ACTION:** Notice of public meeting.

**SUMMARY:** The New England Fishery Management Council is convening its Scientific and Statistical Committee (SSC) via webinar to consider actions affecting New England fisheries in the exclusive economic zone (EEZ). Recommendations from this group will be brought to the full Council for formal consideration and action, if appropriate. **DATES:** This webinar will be held on Thursday, August 10, 2023, beginning at 8:30 a.m.

**ADDRESSES:** Webinar registration information: <https://attendee.gotowebinar.com/register/4897229620166984284>. Call in information: 1 (562) 247–8422, Access Code: 208–654–676.

*Council address:* New England Fishery Management Council, 50 Water Street, Mill 2, Newburyport, MA 01950.

**FOR FURTHER INFORMATION CONTACT:** Thomas A. Nies, Executive Director, New England Fishery Management Council; telephone: (978) 465–0492.

### SUPPLEMENTARY INFORMATION:

#### Agenda

The Scientific and Statistical Committee will meet to review the information provided by the Council's Red Crab Plan Development Team and recommend the overfishing limits (OFLs) and acceptable biological catches (ABCs) for red crab for fishing years 2024–27. They will also review draft analyses provided by Council contractors on recruitment assumptions used in stock projections for white hake and comment on their utility when modifying the rebuilding plan and setting specifications. They will provide comment on the draft NOAA technical memorandum: Technical Guidance for Estimating Status Determination