



INCIDENTAL HARASSMENT AUTHORIZATION

Vineyard Northeast, LLC (Vineyard Northeast) and their designees are hereby authorized under section 101(a)(5)(D) of the Marine Mammal Protection Act (MMPA; 16 U.S.C. 1371(a)(5)(D)) to incidentally harass marine mammals, under the following conditions:

1. This incidental harassment authorization (IHA) is valid for one year from July 27, 2024 through July 26, 2025.
2. This IHA authorizes take incidental to marine site characterization surveys in the Outer Continental Shelf Lease Area OCS-A 0522 and OCS-A 0544 and potential offshore export cable corridor (OECC) routes to landfall locations from Massachusetts to New Jersey.
3. General Conditions
 - (a) A copy of this IHA must be in the possession of Vineyard Northeast, the vessel operators, the lead protected species observers (PSO), and any other relevant designees of Vineyard Northeast while conducting activities subject to this IHA.
 - (b) The species and/or stocks authorized for taking are listed in Table 1. Taking is authorized for Level B harassment only and is limited to the species and/or stocks and numbers listed in Table 1.
 - (c) The taking by injury, serious injury, or death of any of the species/stocks listed in Table 1 or any taking of any species/stock of marine mammal not listed in Table 1 is prohibited and may result in the modification, suspension, or revocation of this IHA. Any taking exceeding the authorized amounts listed in Table 1 is prohibited and may result in the modification, suspension, or revocation of this IHA.
 - (d) Vineyard Northeast must instruct relevant vessel personnel with regard to the authority of the protected species monitoring team, and must ensure that relevant vessel personnel and the protected species monitoring team participate in a joint onboard briefing (hereafter PSO briefing), led by the vessel operator and lead PSO, prior to beginning survey activities to ensure that responsibilities, communication procedures, monitoring protocols, safety and operational procedures, and IHA requirements are clearly understood. This PSO briefing must be repeated when relevant new personnel (*e.g.*, PSOs, acoustic source operator) join the survey operations before work commences.
 - (e) The acoustic source must be deactivated when not acquiring data or preparing to acquire data, except as necessary for testing. Unnecessary use of the acoustic source must be avoided.



- (f) Vineyard Northeast must abide by the relevant Project Design Criteria (PDC 4, 5 and 7) of the programmatic consultation completed by NMFS' Greater Atlantic Regional Fisheries Office on June 29, 2021 (revised September 2021), pursuant to section 7 of the Endangered Species Act (ESA). To the extent that any relevant Best Management Practices (BMPs) described in these PDCs are more stringent than the requirements herein, those BMPs supersede these requirements.

4. Mitigation Requirements

- (a) Vineyard Northeast must employ qualified, NMFS-approved visual PSOs (see Section 5 of this IHA). When specified acoustic sources (impulsive: sparkers and boomers; non-impulsive: non-parametric sub-bottom profilers) are operating, a minimum of one PSO must be on duty, per source vessel, during daylight hours (civil sunrise to civil sunset) and two PSOs must be on duty, per source vessel, during nighttime hours.
- (b) Visual monitoring must begin no less than 30 minutes prior to initiation of specified acoustic sources (see condition 4(a) of this IHA) and must continue until 30 minutes after use of specified acoustic sources ceases.
- (c) PSOs must establish and monitor applicable Shutdown Zones (see Table 3). These zones must be based upon the radial distance from the acoustic source (rather than being based around the vessel itself).
- (d) Pre-start clearance and ramp-up – PSOs must establish and monitor applicable pre-start clearance zones (see Table 3) A ramp-up procedure, involving a gradual increase in source level output, is required at all times as part of the activation of the acoustic source, when technically feasible. Operators must ramp up sources to half power for 5 minutes and then proceed to full power. A 30-minute pre-start clearance observation period must occur prior to the start of ramp-up (or initiation of source use if ramp-up is not technically feasible). All operators must adhere to the following pre-start clearance and ramp-up requirements:
 - (i) The operator must notify a designated PSO of the planned start of ramp-up as agreed upon with the lead PSO; the notification time must not be less than 60 minutes prior to the planned ramp-up to allow the PSOs time to monitor the Shutdown Zones for 30 minutes prior to the initiation of ramp-up (pre-start clearance). During this 30-minute pre-start clearance period, the entire applicable Shutdown Zone must be visible, except as indicated in (viii) below.
 - (ii) Ramp-ups must be scheduled so as to minimize the time the source is activated.
 - (iii) A 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 that the Shutdown Zone is clear prior to proceeding.

- (iv) 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.
 - (v) The operator must establish and maintain clear lines of communication directly between PSO(s) on duty and crew controlling the acoustic source to ensure that mitigation commands are conveyed swiftly while allowing PSOs to maintain watch.
 - (vi) Ramp-up must not be initiated if any marine mammal is within the applicable Shutdown Zone. If a marine mammal is observed within the applicable Shutdown Zone during the 30-minute pre-start clearance period, ramp-up must not begin until the animal(s) has been observed exiting the zones or until an additional period has elapsed with no further sightings (15 minutes for small odontocetes and pinnipeds and 30 minutes for all other species).
 - (vii) PSOs must monitor the Shutdown Zone 30 minutes 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.
 - (viii) 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 minutes prior to beginning ramp-up. Acoustic source activation may only occur at night where operational planning cannot reasonably avoid nighttime activation.
 - (ix) If the acoustic source is shut down for brief periods (*i.e.*, less than 30 minutes) 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.
- (e) Shutdown requirements
- (i) Any PSO on duty has the authority to call for shut down of the acoustic source if a marine mammal is detected within the applicable Shutdown Zone.
 - (ii) The operator must establish and maintain clear lines of communication directly between PSOs on duty and crew controlling the acoustic source to

ensure that shutdown commands are conveyed and implemented swiftly while allowing PSOs to maintain watch.

- (iii) When the acoustic source is active and a marine mammal appears within or enters the applicable Shutdown Zone, the acoustic source must be shut down (Table 3). When shutdown is instructed by a PSO, the acoustic source must be immediately deactivated and any dispute resolved only following deactivation.
- (iv) The shutdown requirement is waived for small delphinids¹ and pinnipeds, as provided in paragraphs (A) and (B) below.
 - (A) If a delphinid (individual belonging to the genera of the Family *Delphinidae*) or pinniped included in Table 1 is visually detected within the Shutdown Zone, no shutdown is required.
 - (B) 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 must use best professional judgment in making the decision to call for a shutdown.
- (v) 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 (15 minutes for harbor porpoises and 30 minutes for all other species; Table 3) with no further detection of the marine mammal.
- (vi) Shutdown of acoustic sources is required upon observation of either a species for which incidental take is not authorized or a species for which incidental take has been authorized but the authorized number of takes has been met entering or within the Level B harassment zone (Table 2).
- (f) Vessel Strike Avoidance – 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.
 - (i) Vessel operators and crews must maintain a vigilant watch for all marine mammals and slow down, stop their vessel, or alter course, as appropriate and regardless of vessel size, to avoid striking any marine mammal. A

¹ Small delphinids include members of the following genera: *Delphinus*, *Lagenorhynchus*, *Stenella*, or *Tursiops*.

single marine mammal at the surface may indicate the presence of additional 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 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 a marine mammal from other phenomena and 2) broadly to identify a marine mammal as a right whale, other whale (defined in this context as sperm whales or baleen whales other than right whales), or other marine mammals.

- (ii) All vessels, regardless of size, must observe a 10-knot speed restriction in specific areas designated by NMFS for the protection of North Atlantic right whales from vessel strikes. These include all Seasonal Management Areas (SMA) (when in effect) and any Dynamic Management Areas (DMA) and Slow Zones (when in effect). See www.fisheries.noaa.gov/national/endangered-species-conservation/reducing-ship-strikes-north-atlantic-right-whales for specific detail regarding these areas.
- (iii) Vessel speeds must be reduced to 10 knots or less when mother/calf pairs, pods, or large assemblages of cetaceans are observed near a vessel.
- (iv) All vessels must maintain a minimum separation distance of 500-m from right whales and other ESA-listed species. If an ESA-listed species is sighted within the relevant separation distance, the vessel must steer a course away at 10-knots or less until the 500-m separation distance has been established (Table 3). If a whale is observed but cannot be confirmed as a species that is not ESA-listed, the vessel operator must assume that it is an ESA-listed species and take appropriate action.
- (v) All vessels must maintain a minimum separation distance of 100-m from non-ESA-listed whales (Table 3).
- (vi) 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; Table 3).
- (vii) When a marine mammal is 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.

5. Monitoring Requirements

- (a) Vineyard Northeast must use independent, dedicated, trained PSOs, meaning that the PSOs must be employed by a third-party observer provider, must 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 mammal and mitigation requirements (including brief alerts regarding maritime hazards), and must have successfully completed an approved PSO training course for geophysical surveys. Except as provided under condition 4(f)(i) above and paragraph (b) below, 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.
- (b) On a case-by-case basis, non-independent observers (*e.g.*, crew members) may be approved by NMFS to act as PSOs for limited, specific duties (*i.e.*, conduct visual monitoring while the independent NMFS-approved PSO takes the required 2-hour break between 4-hour shifts) on smaller vessels with limited occupancy. Non-independent observers may be approved only for surveys operating in nearshore waters and only for daylight operations. In order to be approved to act as PSOs, non-independent observers must have no duties other than marine mammal monitoring while on watch, and must be trained on protected species detection and identification, vessel strike minimization procedures, and reporting requirements in this IHA. If a whale is observed but cannot be confirmed as a species other than a right whale, the non-independent observer must assume that it is a right whale and take appropriate action (*i.e.*, call for a delay or shutdown).
- (c) PSO names must be provided to NMFS by Vineyard Northeast for review and confirmation of their approval for specific roles prior to commencement of the survey². For prospective PSOs not previously approved, or for PSOs whose approval is not current, NMFS must review and approve PSO qualifications. Resumes must 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.
- (d) 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

² PSO-related inquiries should be directed to nmfs.psoreview@noaa.gov.

conclusion of the most recent relevant experience not more than 18 months previous.

- (e) At least one of the visual PSOs aboard the vessel must be unconditionally-approved. One unconditionally-approved visual PSO must be designated as the lead for the entire PSO team. This lead should typically be the PSO with the most experience, would coordinate duty schedules and roles for the PSO team³, and serve as the primary point of contact for the vessel operator. To the maximum extent practicable, the duty schedule must be planned such that unconditionally-approved PSOs are on duty with conditionally-approved PSOs.
- (f) 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 must 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).
- (g) PSOs must successfully complete relevant training, including completion of all required coursework and passing (80 percent or greater) a written and/or oral examination developed for the training program.
- (h) PSOs must coordinate to ensure 360° visual coverage around the vessel from the most appropriate observation posts and must conduct visual observations using binoculars or night-vision equipment and the naked eye while free from distractions and in a consistent, systematic, and diligent manner.
- (i) PSOs may be on watch for a maximum of four consecutive hours followed by a break of at least two hours between watches and may conduct a maximum of 12 hours of observation per 24-hour period.
- (j) Any observations of marine mammals by crew members aboard any vessel associated with the survey must be relayed to the PSO team.
- (k) Vineyard Northeast 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

³ Responsibility for coordination of duty schedules and roles may be delegated, such as to a shore-based monitoring coordinator employed by the third-party observer provider.

calibrating equipment as necessary for accurate distance estimates and species identification. Such equipment, at a minimum, must include:

- (i) At least one thermal (infrared) imaging device suited for the marine environment;
 - (ii) Reticle binoculars (*e.g.*, 7x50) of appropriate quality (at least one per PSO, plus backups);
 - (iii) Global Positioning Units (GPS) (at least one plus backups);
 - (iv) Digital cameras with a telephoto lens that is at least 300 mm or equivalent on a full-frame single lens reflex (SLR) (at least one plus backups). The camera or lens must also have an image stabilization system;
 - (v) Equipment necessary for accurate measurement of distances to marine mammals;
 - (vi) Compasses (at least one plus backups);
 - (vii) Means of communication among vessel crew and PSOs; and
 - (viii) Any other tools deemed necessary to adequately and effectively perform PSO tasks.
- (l) Equipment specified in (i) through (viii) above may be provided by an individual PSO, the third-party PSO provider, or the operator, but Vineyard Northeast is responsible for ensuring PSOs have the proper equipment required to perform the duties specified within this IHA.
- (m) During good conditions (*e.g.*, daylight hours; Beaufort sea state 3 or less), PSOs must conduct observations when the specified acoustic sources (see condition 4(a) of this IHA) are not operating for comparison of sighting rates and behavior with and without use of the specified acoustic sources and between acquisition periods, to the maximum extent practicable.
- (n) Vineyard Northeast must consult the NMFS North Atlantic right whale reporting system and Whale Alert, daily and as able, for the presence of North Atlantic right whales before and throughout survey operations, and for the establishment of a DMA. If NMFS should establish a DMA in the Lease Areas during the survey, the vessels must abide by speed restrictions in the DMA.

6. Reporting Requirements

- (a) Vineyard Northeast must submit a draft comprehensive report 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 must also include geo-referenced, time-stamped vessel tracklines for all time periods during which acoustic sources were operating. Tracklines must 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 must be provided in ESRI shapefile format and include the UTC date and time, latitude in decimal degrees, and longitude in decimal degrees. All coordinates must be referenced to the WGS84 geographic coordinate system. In addition to the report, all raw observational data must be made available. 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*, *nmfs.gar.incidental-take@noaa.gov* and *ITP.Taylor@noaa.gov*.

- (b) PSOs must use standardized electronic data forms to record data. PSOs must 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 must record a description of the circumstances. At a minimum, the following information must be recorded:
- (i) Vessel names (source vessel and other vessels associated with survey), vessel size and type, maximum speed capability of vessel;
 - (ii) Dates of departures and returns to port with port name;
 - (iii) The lease number;
 - (iv) PSO names and affiliations;
 - (v) Date and participants of PSO briefings;
 - (vi) Visual monitoring equipment used;
 - (vii) PSO location on vessel and height of observation location above water surface;
 - (viii) Dates and times (Greenwich Mean Time) of survey on/off effort and times corresponding with PSO on/off effort;

- (ix) Vessel location (decimal degrees) when survey effort begins and ends and vessel location at beginning and end of visual PSO duty shifts;
 - (x) Vessel location at 30-second intervals if obtainable from data collection software, otherwise at practical regular interval;
 - (xi) Vessel heading and speed at beginning and end of visual PSO duty shifts and upon any change;
 - (xii) Water depth (if obtainable from data collection software);
 - (xiii) 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;
 - (xiv) 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
 - (xv) Survey activity information (and changes thereof), such as acoustic source power output while in operation, tow depth of an acoustic source, and any other notes of significance (*i.e.*, pre-start clearance, ramp-up, shutdown, end of operations, etc.).
- (c) Upon visual observation of any marine mammal, the following information must be recorded:
1. Watch status (sighting made by PSO on/off effort, opportunistic, crew, alternate vessel/platform);
 2. Vessel/survey activity at time of sighting (*e.g.*, deploying, recovering, testing, shooting, data acquisition, other);
 3. PSO name who sighted the animal;
 4. Time of sighting (local time military format);
 5. Initial detection method;
 6. Sightings cue;
 7. Vessel location at time of sighting (decimal degrees);
 8. Direction of vessel's travel (compass direction);
 9. Speed of the vessel(s) from which the observation was made;

10. 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;
11. Species reliability (an indicator of confidence in identification);
12. Estimated distance to the animal and method of estimating distance;
13. Estimated number of animals (high/low/best);
14. Estimated number of animals by cohort (adults, yearlings, juveniles, calves, group composition, etc.);
15. 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);
16. 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);
17. 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;
18. Equipment operating during sighting;
19. Animal's closest point of approach and/or closest distance from the center point of the acoustic source; and
20. Description of any actions implemented in response to the sighting (*e.g.*, delays, shutdown, ramp-up) and time and location of the action.

(d) Reporting sightings of North Atlantic right whales:

- (i) If a North Atlantic right whale is observed at any time by PSOs or personnel on any project vessels, during surveys or during vessel transit, Vineyard Northeast must immediately report the sighting information to the NMFS North Atlantic Right Whale Sighting Advisory System (866-755-6622).
- (ii) North Atlantic right whale sightings in any location may also be reported to the U.S. Coast Guard via Channel 16.

(e) Reporting injured or dead marine mammals:

- (i) Sightings of any injured or dead marine mammal must be reported to NMFS, regardless of the cause of injury or death. In the event that personnel involved in the survey activities discover an injured or dead marine mammal, Vineyard Northeast must report the incident as soon as feasible to the NMFS Office of Protected Resources (*PR.ITP.MonitoringReports@noaa.gov*), and the NMFS Greater Atlantic Stranding Hotline (866-755-6622) as soon as feasible. The incident must also be reported to the NMFS Greater Atlantic Regional Fisheries Office (*nmfs.gar.incidental-take@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.
- (ii) In the event of a ship strike of a marine mammal by any vessel involved in the survey activities, Vineyard Northeast must report the incident to the NMFS Office of Protected Resources (*PR.ITP.MonitoringReports@noaa.gov*) and the NMFS Greater Atlantic Stranding Hotline (866-755-6622) as soon as feasible but within 24 hours. The incident must also be reported to the GARFO (*nmfs.gar.incidental-take@noaa.gov*). The report must 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).
7. This Authorization may be modified, suspended or revoked if the holder fails to abide by the conditions prescribed herein (including, but not limited to, failure to comply with monitoring or reporting requirements), or if NMFS determines: (1) the authorized taking is having 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.

Kimberly Damon-Randall,
Director, Office of Protected Resources,
National Marine Fisheries Service.

Date

Table 1— Authorized Take by Level B Harassment

Taxonomic group	Common name	Scientific name	Stock	ESA-listed?	Marine mammal category as it applies to mitigation requirements in the IHA	Authorized take by Level B harassment
Cetacean (Mysticete)	North Atlantic right whale	<i>Eubalaena glacialis</i>	Western Atlantic Stock	Yes	North Atlantic right whale	12
	Blue whale	<i>Balaenoptera musculus</i>	Western Atlantic Stock	Yes	Large whale	1
	Fin whale	<i>Balaenoptera physalus</i>	Western North Atlantic Stock	Yes	Large whale	20
	Sei whale	<i>Balaenoptera borealis</i>	Nova Scotia Stock	Yes	Large whale	5
	Minke whale	<i>Balaenoptera acutorostrata</i>	Canadian East Coastal Stock	No	Large whale	45
	Humpback whale	<i>Megaptera novaeangliae</i>	West Indies DPS	No	Large whale	12
Cetacean (Odontocete)	Sperm whale	<i>Physeter macrocephalus</i>	North Atlantic Stock	Yes	Large whale	2
	Atlantic white-sided dolphin	<i>Lagenorhynchus acutus</i>	Western North Atlantic Stock	No	Small odontocete	126
	Atlantic spotted dolphin	<i>Stenella frontalis</i>	Western North Atlantic Stock	No	Small odontocete	29
	Common bottlenose dolphin	<i>Tursiops truncatus</i>	Western North Atlantic Offshore Stock	No	Small odontocete	165
			Western North Atlantic Northern Migratory Coastal Stock			44
	Common dolphin (short-beaked)	<i>Delphinus delphis</i>	Western North Atlantic Stock	No	Small odontocete	7,296
	White-beaked dolphin	<i>Lagenorhynchus albirostris</i>	Western North Atlantic Stock	No	Small odontocete	30
	Risso's dolphin	<i>Grampus griseus</i>	Western North Atlantic Stock	No	Large odontocete	9
Long-finned pilot whale	<i>Globicephala melas</i>	Western North Atlantic Stock	No	Large odontocete	17	

	Killer whale	<i>Orcinus orca</i>	Western North Atlantic Stock	No	Large odontocete	4
	False killer whale	<i>Pseudorca crassidens</i>	Western North Atlantic Stock	No	Large odontocete	5
	Harbor porpoise	<i>Phocoena phocoena</i>	Western North Atlantic Stock	No	Small odontocete	339
Pinniped (Phocid)	Gray seal	<i>Halichoerus grypus</i>	Western North Atlantic Stock	No	Seal	408
	Harbor seal	<i>Phoca vitulina</i>	Western North Atlantic Stock	No	Seal	917

Table 2—Level B Harassment Zones

Equipment	Distance to Level B harassment threshold (m)
ET 216 CHIRP	4
GeoMarine Geo Sparker	141
Applied Acoustics AA 251 Boomer	178

Table 3—Distances for Clearance, Vessel Separation, and Shutdown Zones

Species	ESA-listed?	Clearance zone (m)	Vessel separation zone (m)	Shutdown zone (m)
North Atlantic right whale	Yes	500	500	500
Blue whale				100
Fin whale				
Sei whale				
Sperm whale				
Humpback whale	No	100	100	100
Minke whale				
Long-finned pilot whale				
Risso's dolphin				
Harbor porpoise			50 (as feasible)	
Killer whale				
False killer whale				
Gray seal				
Harbor seal				
Atlantic white-sided dolphin				Not required. See condition 4(e)(iv) in this IHA.
Atlantic spotted dolphin				

Common bottlenose dolphin (coastal and offshore stocks)				
Common dolphin				
White-beaked dolphin				

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