collection request to the Office of Management and Budget (OMB) for review and clearance in accordance with the Paperwork Reduction Act of 1995, on or after the date of publication of this notice. We invite the general public and other Federal agencies to comment on proposed, and continuing information collections, which helps us assess the impact of our information collection requirements and minimize the public's reporting burden. Public comments were previously requested via the Federal Register on October 3, 2024, during a 60-day comment period. This notice allows for an additional 30 days for public comments.

Agency: International Trade Administration, Commerce.

Title: Interim Procedures for Considering Requests under the Commercial Availability.

Provision of the United States— Colombia Trade Promotion Agreement. Form Number(s): None.

OMB Control Number: 0625–0272. Type of Request: Regular submission, extension of a current information collection.

Burden Hours: 89.

Number of Respondents: 16 (10 for Requests; 3 for Responses; 3 for Rebuttals).

Average Hours per Response: 8 hours per Request; 2 hours per Response; and 1 hour per Rebuttal.

Needs and Uses: Title II, Section 203(o) of the United States-Colombia Trade Promotion Agreement Implementation Act (the "Act") [Public Law 112-42] implements the commercial availability provision provided for in Article 3.3 of the United States-Colombia Trade Promotion Agreement (the "Agreement"). The Agreement entered into force on May 15, 2012. Subject to the rules of origin in Annex 4.1 of the Agreement, and pursuant to the textile provisions of the Agreement, a fabric, yarn, or fiber produced in Colombia or the United States and traded between the two countries is entitled to duty-free tariff treatment. Annex 3-B of the Agreement also lists specific fabrics, varns, and fibers that the two countries agreed are not available in commercial quantities in a timely manner from producers in Colombia or the United States. The fabrics listed are commercially unavailable fabrics, yarns, and fibers, which are also entitled to duty-free treatment despite not being produced in Colombia or the United States.

The list of commercially unavailable fabrics, yarns, and fibers may be changed pursuant to the commercial availability provision in Chapter 3, Article 3.3, Paragraphs 5–7 of the

Agreement. Under this provision, interested entities from Colombia or the United States have the right to request that a specific fabric, yarn, or fiber be added to, or removed from, the list of commercially unavailable fabrics, yarns, and fibers in Annex 3–B of the Agreement.

Chapter 3, Article 3.3, paragraph 7 of the Agreement requires that the President "promptly" publish procedures for parties to exercise the right to make these requests. Section 203(o)(4) of the Act authorizes the President to establish procedures to modify the list of fabrics, yarns, or fibers not available in commercial quantities in a timely manner in either the United States or Colombia as set out in Annex 3-B of the Agreement. The President delegated the responsibility for publishing the procedures and administering commercial availability requests to the Committee for the Implementation of Textile Agreements ("CITA"), which issues procedures and acts on requests through the U.S. Department of Commerce, Office of Textiles and Apparel ("OTEXA") (See Proclamation No. 8818, 77 FR 29519, May 18, 2012).

The intent of the Commercial Availability Procedures is to foster the use of U.S. and regional products by implementing procedures that allow products to be placed on or removed from a product list, on a timely basis, and in a manner that is consistent with normal business practice. The procedures are intended to facilitate the transmission of requests; allow the market to indicate the availability of the supply of products that are the subject of requests; make available promptly, to interested entities and the public, information regarding the requests for products and offers received for those products; ensure wide participation by interested entities and parties; allow for careful review and consideration of information provided to substantiate requests and responses; and provide timely public dissemination of information used by CITA in making commercial availability determinations.

CITA must collect certain information about fabric, yarn, or fiber technical specifications and the production capabilities of Colombian and U.S. textile producers to determine whether certain fabrics, yarns, or fibers are available in commercial quantities in a timely manner in the United States or Colombia, subject to Section 203(o) of the Act.

Affected Public: Business or other forprofit organizations.

Frequency: As needed. Respondent's Obligation: Voluntary.

Legal Authority: Title II, Section 203(o) of the United States-Colombia Trade Promotion Agreement Implementation Act (Pub. L. 112–42).

This information collection request may be viewed at 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. Find this particular information collection by selecting "Currently under 30-day Review—Open for Public Comments" or by using the search function and entering either the title of the collection or the OMB Control Number 0625–0272.

Sheleen Dumas,

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

[FR Doc. 2024–29573 Filed 12–13–24; 8:45 am] BILLING CODE 3510–DS-P

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648-XE461]

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to a Marine Geophysical Survey in the Nauru Basin of Greater Micronesia in the Northwest Pacific Ocean

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 the Scripps Institution of Oceanography (SIO) to incidentally harass marine mammals during survey activities associated with a marine geophysical survey in the Nauru Basin of greater Micronesia in the northwest (NW) Pacific Ocean.

DATES: This authorization is effective from December 11, 2024 through December 10, 2025.

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/incidentaltake-authorizations-research-and-otheractivities. In case of problems accessing these documents, please call the contact listed below.

FOR FURTHER INFORMATION CONTACT:

Rachel Wachtendonk, 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 sea.) 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 specific geographic 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 monitoring and reporting of the takings. The definitions of all applicable MMPA statutory terms cited above are included in the relevant sections below.

Summary of Request

On June 6, 2024, NMFS received a request from the SIO for an IHA to take marine mammals incidental to a marine geophysical survey in the Nauru Basin of greater Micronesia in the NW Pacific Ocean. The application was deemed adequate and complete on July 30, 2024. SIO's request is for take of 27 species of marine mammals, by Level B harassment only. Neither SIO nor NMFS

expect serious injury or mortality to result from this activity and, therefore, an IHA is appropriate. There are no changes from the proposed IHA to the final IHA.

Description of Activity

Researchers from the Woods Hole Oceanographic Institution (WHOI) and University of Houston, with funding from the National Science Foundation (NSF), and implementation by SIO, plan to conduct a low-energy marine seismic survey using airguns as the acoustic source from the research vessel (R/V) Sikuliag (Sikuliag), which is owned by NSF and operated by the University of Alaska Fairbanks (UAF). The planned survey will occur in the Nauru Basin of greater Micronesia in the NW Pacific Ocean from approximately December 2024 to January 2025. The planned survey will occur in International Waters and within the Exclusive Economic Zone (EEZ) of the Republic of Marshall Islands, in water depths ranging from approximately 4,000–6,000 meters (m). To complete this 2dimensional (2-D) multi-channel seismic (MCS) reflection survey, the Sikuliaq will tow a 4-airgun array with a total discharge volume of ~420 cubic inches (in3) at a depth of 3 m, operated by marine technicians from SIO. The airgun array receiver will consist of a 1,200 m long solid-state hydrophone streamer. The airguns will fire at a shot interval of 30 m. Approximately 3,158 kilometers (km) of seismic acquisition is planned. Airgun arrays will introduce underwater sounds that may result in take, by Level B harassment, of marine

A detailed description of the planned geophysical survey was provided in the Federal Register notice of the proposed IHA (89 FR 81429, October 8, 2024). Since that time, no changes have been made to the planned survey activities. Therefore, a detailed description is not provided here. Please refer to that Federal Register notice for the description of the specified activity.

Comments and Responses

A notice of NMFS' proposal to issue an IHA to SIO was published in the **Federal Register** on October 8, 2024 (89 FR 81429). That notice described, in detail, SIO's activity, the marine mammal species that may be affected by the activity, 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. The proposed notice was available for a 30-day public comment period. NMFS received no public comments.

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, instead of reprinting the information. Additional information about these species (e.g., physical and behavioral descriptions) may be found on NMFS' website (https://www.fisheries.noaa.gov/findspecies). NMFS refers the reader to the aforementioned source for general information regarding the species listed in table 1.

The populations of marine mammals found in the survey area do not occur within the U.S. EEZ and therefore, are not assessed in NMFS' Stock Assessment Reports (SAR). For most species, there are no stocks defined for management purposes in the survey area, and NMFS is evaluating impacts at the species level and ranges for most species evaluated here are considered to be the North Pacific. As such, information on potential biological removal level (PBR; 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) and annual levels of serious injury and mortality from anthropogenic sources are not available for these marine mammal populations. Abundance estimates for marine mammals in the survey location were calculated using density data for marine mammals from a U.S. Navy Technical Report for the region (DoN, 2018). The area covered in this report include the Mariana Islands Training and Testing (MITT) Study Area, within approximately 6-23° N, 122–150° E, and the transit corridor which spans from the MITT Study Area to the International Date Line. These abundance estimates are considered the best scientific information available on the abundance of marine mammal populations in the area.

Table 1 lists all species that occur in the survey area that may be taken as a result of the planned survey and summarizes information related to the population, including regulatory status under the MMPA and Endangered Species Act (ESA).

TABLE 1—Species Likely Impacted by the Specified Activities

Common name	Common name Scientific name		ESA/ MMPA status; strategic (Y/N) 1	Abundance ²
	Order Artiodactyla—Cetacea—My	sticeti (baleen whales)		
Family Balaenopteridae (rorquals):				
Blue Whale	Balaenoptera musculus	NA	E, D, Y	150
Bryde's Whale	Balaenoptera edeni	NA	-, -, N	1,596
Fin Whale	Balaenoptera physalus	NA	E, D, Y	46
Humpback Whale	Megaptera novaeangliae	Western North Pacific DPS	E, D, Y	2,673
·		Oceania DPS	-, -, N	
Minke Whale	Balaenoptera acutorostrata	NA	-, -, N	450
Sei Whale	Balaenoptera borealis	NA	E, D, Y	821
Omura's Whale	Balaenoptera omurai	NA	-, -, N	160
	Odontoceti (toothed whales, dol	phins, and porpoises)		
Family Physeteridae:				
Sperm Whale	Physeter macrocephalus	NA	E, D, Y	5,146
Family Kogiidae:	Triyotor maorooopriarao	10.	_, _, .	0,110
Dwarf Sperm Whale	Kogia sima	NA	-, -, N	27,395
Pygmy Sperm Whale	Kogia breviceps	NA	-, -, N	11,168
Family Ziphiidae (beaked whales):	9		, ,	,
Blainville's Beaked Whale	Mesoplodon densirostris	NA	-, -, N	3.376
Cuvier's Beaked Whale	Ziphius cavirostris	NA	-, -, N	2,642
Longman's Beaked Whale	Indopacetus pacificus	NA	-, -, N	11,253
Ginko-Toothed Beaked Whale	Mesoplodon ginkgodens	NA	-, -, N	7,567
Deraniyagala's Beaked Whale	Mesoplodon hotaula	NA	-, -, N	NA
Family Delphinidae:	,		' '	
False Killer Whale	Pseudorca crassidens	NA	-, -, N	4,218
Killer Whale	Orcinus orca	NA	-, -, N	253
Melon-Headed Whale	Peponocephala electra	NA	-, -, N	16,551
Pygmy Killer Whale	Feresa attenuata	NA	-, -, N	527
Short-Finned Pilot Whale	Globicephala macrorhynchus	NA	-, -, N	6,583
Bottlenose Dolphin	Tursiops truncatus	NA	-, -, N	1,076
Fraser's Dolphin	Lagenodelphis hosei	NA	-, -, N	76,476
Pantropical Spotted Dolphin	Stenella attenuata	NA	-, -, N	85,755
Risso's Dolphin	Grampus griseus	NA	-, -, N	17,184
Rough-Toothed Dolphin	Steno bredanensis	NA	-, -, N	1,815
Spinner Dolphin	Stenella longirostris	NA	-, -, N	5,232
Striped Dolphin	Stenella coeruleoalba	NA	-, -, N	24,528

¹ Endangered Species Act (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.

²Abundance estimates for marine mammals in the survey location were calculated using density data for marine mammals from the U.S. Navy Marine Species Density Database Phase III for the Mariana Islands Training and Testing Study Area report (DoN 2018).

As indicated above, all 27 species in table 1 temporally and spatially cooccur with the activity to the degree that take is reasonably likely to occur. All species that could potentially occur in the planned survey areas are included in table 3 of the IHA application.

A detailed description of the of the species likely to be affected by the geophysical survey, including brief introductions to the species and relevant stocks as well as available information regarding population trends and threats, and information regarding local occurrence, were provided in the **Federal Register** notice for the proposed IHA (89 FR 81429, October 8, 2024).

Since that time, we are not aware of any changes in the status of these species; therefore, detailed descriptions are not provided here. Please refer to that **Federal Register** notice for these descriptions. Please also refer to NMFS' website (https://www.fisheries .noaa.gov/find-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., 1995; Wartzok and Ketten, 1999; Au and Hastings, 2008). To reflect this, Southall et al., (2007, 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.). On October 24, 2024, NMFS published (89 FR 84872) the final Updated Technical Guidance, which includes updated thresholds and

weighting functions to inform auditory injury estimates, and has replaced the 2018 Technical Guidance used previously (NMFS 2018). The updated hearing groups are presented below (table 2). The references, analysis, and methodology used in the development of the hearing groups are described in NMFS' 2024 Technical Guidance, which may be accessed at: https://

www.fisheries.noaa.gov/national/ marine-mammal-protection/marinemammal-acoustic-technical-guidance.

TABLE 2—MARINE MAMMAL HEARING GROUPS [NMFS, 2024]

Hearing group ^	Generalized hearing range *
UNDERWATER: Low-frequency (LF) cetaceans (baleen whales) +	7 Hz to 36 * kHz. 150 Hz to 160 kHz. 200 Hz to 165 kHz.
Phocid pinnipeds (PW) (underwater) (true seals)	40 Hz to 90 kHz. 60 Hz to 68 kHz.

^Southall et al., 2019 indicates that as more data become available there may be separate hearing group designations for Very Low-Frequency cetaceans (blue, fin, right, and bowhead whales) and Mid-Frequency cetaceans (sperm, killer, and beaked whales). However, at this point, all baleen whales are part of the LF cetacean hearing group, and sperm, killer, and beaked whales are part of the HF cetacean hearing group. Additionally, recent data indicates that as more data become available for Monachinae seals, separate hearing group designations may be appropriate for the two phocid subfamilies (Ruscher et al., 2021; Sills et al., 2021).

*Represents the generalized hearing range for the entire group as a composite (i.e., all species within the group), where individual species' hearing ranges may not be as broad. Generalized hearing range chosen based on ~65 dB threshold from composite audiogram, previous analysis in NMFS 2018, and/or data from Southall et al., 2007; Southall et al., 2019. Additionally, animals are able to detect very loud sounds above

and below that "generalized" hearing range.

+NMFS is aware that the National Marine Mammal Foundation successfully collected preliminary hearing data on two minke whales during their third field season (2023) in Norway. These data have implications for not only the generalized hearing range for low-frequency cetaceans but also on their weighting function. However, at this time, no official results have been published. Furthermore, a fourth field season (2024) is proposed, where more data will likely be collected. Thus, it is premature for us to propose any changes to our current Updated Technical Guidance. However, mysticete hearing data is identified as a special circumstance that could merit re-evaluating the acoustic criteria in this document. Therefore, we anticipate that once the data from both field seasons are published, it will likely necessitate updating this document (*i.e.*, likely after the data gathered in the summer 2024 field season and associated analysis are published).

Potential Effects of Specified Activities on Marine Mammals and Their Habitat

The effects of underwater noise from SIO's survey activities have the potential to result in behavioral harassment of marine mammals in the vicinity of the survey area. The notice of proposed IHA (89 FR 81429, October 8, 2024) included a discussion of the effects of anthropogenic noise on marine mammals and the potential effects of underwater noise from SIO on marine mammals and their habitat. That information and analysis is incorporated by reference into this final IHA determination and is not repeated here; please refer to the notice of proposed IHA (89 FR 81429, October 8, 2024).

Estimated Take of Marine Mammals

This section provides an estimate of the number of incidental takes authorized through the IHA, which will inform NMFS' consideration of "small numbers," the negligible impact determinations, and impacts on subsistence uses.

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

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 will be by Level B harassment only, in the form of behavioral reactions and/or temporary threshold shift (TTS) for individual marine mammals resulting from exposure to noise from the use of seismic airguns. Based on the nature of the activity and the anticipated effectiveness of the mitigation measures (i.e., shutdown) discussed in detail below in the Mitigation section, Level A harassment is neither anticipated nor authorized. As described previously, no serious injury or mortality is anticipated or authorized for this activity. Below, we describe how the authorized 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 likely 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 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 auditory injury 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., Southall et al., 2007, 2021, Ellison et al., 2012). 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-meansquared pressure received levels (RMS SPL) of 120 decibel (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 nonexplosive 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 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.

SIO's planned activity includes the use of impulsive seismic sources (i.e., airguns), and therefore the 160 dB re 1 μ Pa is applicable.

Level A harassment—NMFS' Updated Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (NMFS, 2024 (2024 Updated Technical Guidance)) 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 nonimpulsive). NMFS defines auditory injury as "damage to the inner ear that can result in destruction of tissue...

which may or may not result in permanent threshold shift (PTS)" (NMFS, 2024). NMFS defines PTS as a permanent, irreversible increase in the threshold of audibility at a specified frequency or portion of an individual's hearing range above a previously established reference level (NMFS, 2024). PTS does not generally affect more than a limited frequency range, and an animal that has incurred PTS has incurred some level of hearing loss at the relevant frequencies; typically, animals with PTS are not functionally deaf (Au and Hastings, 2008; Finneran, 2016).

These thresholds are provided in the tables below. The references, analysis, and methodology used in the development of the thresholds are described in NMFS' 2024 Updated Technical Guidance, which may be accessed at: https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-acoustic-technical-guidance.

SIO's planned activity includes the use of impulsive seismic sources (*i.e.*, airguns).

TABLE 3—NMFS' 2024 THRESHOLDS IDENTIFYING THE ONSET OF AUDITORY INJURY (AUD INJ)

Hearing group	PTS onset acoustic thresholds* (received level)			
	Impulsive	Non-impulsive		
Low-Frequency (LF) Cetaceans High-Frequency (HF) Cetaceans Very High-Frequency (VHF) Cetaceans Phocid Pinnipeds (PW) (Underwater) Otariid Pinnipeds (OW) (Underwater)	Cell 5: L _{pk, 0-pk, flat} : 202 dB; L _{E, p, VHF,24h} : 159 dB	Cell 4: L _{E, p. HF,24h} : 201 dB. Cell 6: L _{E, p.VHF, 24h} : 181 dB. Cell 8: L _{E, p. PW,24h} : 195 dB.		

*Dual metric criteria for impulsive sounds: Use whichever criteria results in the larger isopleth for calculating AUD INJ onset. If a non-impulsive sound has the potential of exceeding the peak sound pressure level criteria associated with impulsive sounds, the PK SPL criteria are recommended for consideration for non-impulsive sources.

Note: Peak sound pressure level (Lp,0-pk) has a reference value of 1 μPa (underwater) and 20 μPa (in air), and weighted cumulative sound exposure level (LE,p) has a reference value of 1 μPa2s (underwater) and 20 μPa2s (in air). In this table, criteria are abbreviated to be more reflective of International Organization for Standardization standards (ISO 2017; ISO 2020). The subscript "flat" is being included to indicate peak sound pressure are flat weighted or unweighted within the generalized hearing range of marine mammals underwater (*i.e.*, 7 Hz to 165 kHz) or in air (*i.e.*, 42 Hz to 52 kHz). The subscript associated with cumulative sound exposure level criteria indicates the designated marine mammal auditory weighting function (LF, HF, and VHF cetaceans, and PW, OW, PA, and OA pinnipeds) and that the recommended accumulation period is 24 hours. The weighted cumulative sound exposure level criteria could be exceeded in a multitude of ways (*i.e.*, varying exposure levels and durations, duty cycle). When possible, it is valuable for action proponents to indicate the conditions under which these criteria will be exceeded.

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.

When the Technical Guidance was published (NMFS, 2016), in recognition of the fact that ensonified area/volume could be more technically challenging to predict because of the duration component in the new thresholds, we developed a user spreadsheet that includes tools to help predict a simple

isopleth that can be used in conjunction with marine mammal density or occurrence to help predict takes. We note that because of some of the assumptions included in the methods used for these tools, we anticipate that isopleths produced are typically going to be overestimates of some degree, which may result in some degree of overestimation of Level A harassment take. However, these tools offer the best way to predict appropriate isopleths when more sophisticated 3–D modeling methods are not available, and NMFS continues to develop ways to

quantitatively refine these tools and will qualitatively address the output where appropriate.

The planned survey will entail the use of a 4-airgun array with a total discharge volume of 420 in³ at a tow depth of 3 m. SIO used modeling by the L–DEO, which determines the 160 dB_{rms} radius for the airgun source down to a maximum depth of 2,000 m. Received sound levels have been predicted by L–DEO's model (Diebold *et al.*, 2010) as a function of distance from the 4-airgun array. This modeling approach uses ray tracing for the direct wave traveling

from the array to the receiver and its associated source ghost (reflection at the air-water interface in the vicinity of the array), in a constant-velocity half-space (infinite homogeneous ocean layer, unbounded by a seafloor). In addition, propagation measurements of pulses from the 36-airgun array at a tow depth of 6 m have been reported in deep water (~1,600 m), intermediate water depth on the slope (~600–1,100 m), and shallow water (~50 m) in the Gulf of Mexico (Tolstoy *et al.*, 2009; Diebold *et al.*, 2010).

For deep and intermediate water cases, the field measurements cannot be used readily to derive the harassment isopleths, as at those sites the calibration hydrophone was located at a roughly constant depth of 350–550 m, which may not intersect all the SPL isopleths at their widest point from the sea surface down to the assumed maximum relevant water depth (~2,000 m) for marine mammals. At short ranges, where the direct arrivals

dominate and the effects of seafloor interactions are minimal, the data at the deep sites are suitable for comparison with modeled levels at the depth of the calibration hydrophone. At longer ranges, the comparison with the model—constructed from the maximum SPL through the entire water column at varying distances from the airgun array—is the most relevant.

In deep and intermediate water depths at short ranges, sound levels for direct arrivals recorded by the calibration hydrophone and L-DEO model results for the same array tow depth are in good alignment (see figures 12 and 14 in Diebold et al., 2010). Consequently, isopleths falling within this domain can be predicted reliably by the L-DEO model, although they may be imperfectly sampled by measurements recorded at a single depth. At greater distances, the calibration data show that seafloor-reflected and sub-seafloorrefracted arrivals dominate, whereas the direct arrivals become weak and/or

incoherent (see figures 11, 12, and 16 in Diebold *et al.*, 2010). Aside from local topography effects, the region around the critical distance is where the observed levels rise closest to the model curve. However, the observed sound levels are found to fall almost entirely below the model curve. Thus, analysis of the Gulf of Mexico calibration measurements demonstrates that although simple, the L–DEO model is a robust tool for conservatively estimating isopleths.

The planned low-energy survey will acquire data with the 4-airgun array at a tow depth of 3 m. For deep water (>1,000 m), we use the deep-water radii obtained from L-DEO model results down to a maximum water depth of 2,000 m for the airgun array.

L—DEO's modeling methodology is described in greater detail in SIO's application. The estimated distances to the Level B harassment isopleth for the planned airgun configuration are shown in table 4.

TABLE 4—PREDICTED RADIAL DISTANCES FROM THE R/V SIKULIAQ SEISMIC SOURCE TO ISOPLETH CORRESPONDING TO LEVEL B HARASSMENT THRESHOLD

Airgun configuration 105-in ³ airguns	Tow depth (m)	Water depth (m)	Predicted distances (in m) to the Level B harassment threshold
4 105-in ³ airguns	3	>1,000	1,408

TABLE 5—MODELED RADIAL DISTANCE TO ISOPLETHS CORRESPONDING TO LEVEL A HARASSMENT THRESHOLDS [NMFS 2024]

	Low	High	Very high
	frequency	frequency	frequency
	cetaceans	cetaceans	cetaceans
AUD INJ SEL _{cum}	50.6	0	0
	8.44	NA/0	88

The largest distance (in bold) of the dual criteria (SEL cum or Peak) was used to estimate threshold distances and potential takes by Level A harassment.

NA not applicable or available and assumed to be 0.

Table 5 presents the modeled auditory injury isopleths for each cetacean hearing group based on L–DEO modeling incorporated in the companion user spreadsheet, for the low-energy surveys with the shortest shot interval (*i.e.*, greatest potential to cause auditory injury based on accumulated sound energy) (NMFS 2024).

Predicted distances to Level A harassment isopleths, which vary based on marine mammal hearing groups, were calculated based on modeling performed by L–DEO using the Nucleus software program and the NMFS user spreadsheet, described below. The

acoustic thresholds for impulsive sounds contained in the NMFS
Technical Guidance were presented as dual metric acoustic thresholds using both cumulative SEL (SEL_{cum}) and peak sound pressure metrics (NMFS, 2024). As dual metrics, NMFS considers onset of auditory injury (Level A harassment) to have occurred when either one of the two metrics is exceeded (*i.e.*, metric resulting in the largest isopleth). The SEL_{cum} metric considers both level and duration of exposure, as well as auditory weighting functions by marine mammal hearing group.

The SEL_{cum} for the 4-airgun array is derived from calculating the modified

farfield signature. The farfield signature is often used as a theoretical representation of the source level. To compute the farfield signature, the source level is estimated at a large distance (right) below the array (e.g., 9 km), and this level is back projected mathematically to a notional distance of 1 m from the array's geometrical center. However, it has been recognized that the source level from the theoretical farfield signature is never physically achieved at the source when the source is an array of multiple airguns separated in space (Tolstoy et al., 2009). Near the source (at short ranges, distances <1 km), the pulses of sound pressure from each

individual airgun in the source array do not stack constructively as they do for the theoretical farfield signature. The pulses from the different airguns spread out in time such that the source levels observed or modeled are the result of the summation of pulses from a few airguns, not the full array (Tolstoy et al., 2009). At larger distances, away from the source array center, sound pressure of all the airguns in the array stack coherently, but not within one time sample, resulting in smaller source levels (a few dB) than the source level derived from the farfield signature. Because the farfield signature does not take into account the large array effect near the source and is calculated as a point source, the farfield signature is not an appropriate measure of the sound source level for large arrays. See SIO's application for further detail on acoustic modeling.

Auditory injury is unlikely to occur for high-frequency cetaceans, given the very small modeled zones of injury for those species (all estimated zones are less than 1 m for high-frequency cetaceans), in context of distributed source dynamics.

In consideration of the received sound levels in the near-field as described above, we expect the potential for Level A harassment of high-frequency cetaceans to be de minimis, even before the likely moderating effects of aversion and/or other compensatory behaviors (e.g., Nachtigall et al., 2018) are considered. We do not anticipate that Level A harassment is a likely outcome for any high-frequency cetacean and do not authorize any take by Level A harassment for these species.

The Level A and Level B harassment estimates are based on a consideration of the number of marine mammals that could be within the area around the operating airgun array where received levels of sound ≥160 dB re 1 µPa rms are predicted to occur. The estimated numbers are based on the densities (numbers per unit area) of marine mammals expected to occur in the area in the absence of seismic surveys. To

the extent that marine mammals tend to move away from seismic sources before the sound level reaches the criterion level and tend not to approach an operating airgun array, these estimates likely overestimate the numbers actually exposed to the specified level of sound.

Marine Mammal Occurrence

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

For the planned survey area, SIO used density data from the U.S. Navy's Marine Species Density Database Phase III for the Mariana Islands Training and Testing (MITT) Study Area (DoN, 2018). The U.S. Navy modeled densities for two areas within the MITT: the Mariana Islands Training and Testing Representative Study Area, ~580 km to the west of the planned survey area, and the Transit Corridor Representative Study Area surrounding Wake Island, ~120 km to the east of the planned survey area (DoN, 2018). The planned survey area lies between the two MITT modeled areas and does not overlap either area. As the planned tracklines are located closer to Wake Island than the Mariana Islands, the MITT seasonal density estimates for the Transit Corridor Representative Study Area were used here. As the survey is planned for December 2024 to January 2025, the densities for winter (December through February) were used to calculate takes for marine mammals. No densities were available for Deraniyagala's beaked whale. However, the density for ginkgo-toothed beaked whale was applied to Deraniyagala's beaked whale and ginkgo-toothed beaked whale as a combined group, as these two species are difficult to distinguish.

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 Level A or Level B harassment, radial distances from the airgun array to the predicted isopleth corresponding to the Level A harassment and Level B harassment thresholds are calculated, as described above. Those radial distances were then used to calculate the area(s) around the airgun array predicted to be ensonified to sound levels that exceed the harassment thresholds. The distance for the 160-dB Level B harassment threshold and auditory injury (Level A harassment) thresholds (based on L-DEO model results) was used to draw a buffer around the area expected to be ensonified (i.e., the survey area). The ensonified areas were then increased by 25 percent to account for potential delays, which is equivalent to adding 25 percent to the planned line km to be surveyed. The density for each species was then multiplied by the daily ensonified areas (increased as described above) and then multiplied by the number of survey days (14) to estimate potential takes (see appendix B of SIO's application for more information).

SIO assumed that their estimates of marine mammal exposures above harassment thresholds equate to take and requested authorization of those takes. Those estimates in turn form the basis for our take authorization numbers. Based on the nature of the activity and the anticipated effectiveness of the mitigation measures (i.e., shutdown) discussed in detail below in the Mitigation section, Level A harassment is neither anticipated nor authorized. Therefore we have added SIO's estimated exposures above Level A harassment thresholds to their estimated exposures above the Level B harassment threshold to produce a total number of incidents of take by Level B harassment that are authorized. Estimated exposures and authorized take numbers are shown in table 6.

TABLE 6—AUTHORIZED TAKE

Common name	Estimat	ed take	Authorized take ¹ Abundance	Abundanas	Percent of abundance
	Level B	Level A	Level B	Abundance	
Blue Whale	1	0	1	150	0.67
Bryde's Whale	3	0	3	1,596	0.19
Fin Whale	1	0	1	46	2.17
Humpback Whale ²	10	0	10	2,673	0.37
Minke Whale	2	0	2	450	0.44
Sei Whale	1	0	32	821	0.24
Omura's Whale	0	0	³ 1	160	0.63
Sperm Whale	25	0	25	5,146	0.49
Dwarf Sperm Whale	45	3	48	27,395	0.18
Pygmy Sperm Whale	18	1	19	11,168	0.17

TABLE 6-	-AUTHORIZED	TAKE-	-Continued

Common name	Estimat	ed take	Authorized take ¹ Abundance		Percent of
	Level B	Level A	Level B	Abundance	abundance
Blainville's Beaked Whale	8	0	8	3,376	0.24
Cuvier's Beaked Whale	41	0	41	2,642	1.56
Longman's Beaked Whale	3	0	3	11,253	0.03
Ginko-Toothed Beaked Whale	21	0	21	7,567	0.28
Deraniyagala's Beaked Whale.					
False Killer Whale	6	0	³ 10	4,218	0.24
Killer Whale	1	0	³ 5	253	1.98
Melon-Headed Whale	30	0	³ 95	16,551	0.57
Pygmy Killer Whale	1	0	³ 6	527	1.14
Short-Finned Pilot Whale	23	0	23	6,583	0.35
Bottlenose Dolphin	9	0	9	1,076	0.84
Fraser's Dolphin	28	0	28	76,476	0.04
Pantropical Spotted Dolphin	125	0	125	85,755	0.15
Risso's Dolphin	5	0	27	17,184	0.16
Rough-Toothed Dolphin	20	0	20	1,815	1.10
Spinner Dolphin	21	0	³ 98	5,232	1.87
Striped Dolphin	65	0	65	24,528	0.27

¹ Authorized take is Level A plus Level B calculated takes.

² All takes are assumed to be from the Western North Pacific DPS.

³Takes have been increased to mean group size for the Mariana Islands based on Fulling *et al.*, (2011) where available or for Hawaii (*e.g.*, Risso's dolphin and killer whale) as reported by Bradford *et al.*, (2017), or Jefferson *et al.*, (2015).

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, as well as subsistence uses where applicable, 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.

Vessel-Based Visual Mitigation Monitoring

Visual monitoring requires the use of trained observers (herein referred to as visual protected species observers (PSO)) to scan the ocean surface for the presence of marine mammals. The area to be scanned visually includes primarily the shutdown zone (SZ), within which observation of certain marine mammals requires shutdown of the acoustic source, a buffer zone, and to the extent possible depending on conditions, the surrounding waters. The buffer zone means an area beyond the SZ to be monitored for the presence of marine mammals that may enter the SZ. During pre-start clearance monitoring (*i.e.*, before ramp-up begins), the buffer zone also acts as an extension of the SZ in that observations of marine mammals within the buffer zone will also prevent airgun operations from beginning (i.e., ramp-up). The buffer zone encompasses the area at and below the sea surface from the edge of the 0-100 m SZ, out to a radius of 200 m from the edges of the airgun array (100-200 m). This 200m zone (SZ plus buffer) represents the pre-start clearance zone. Visual monitoring of the SZ and adjacent waters (buffer plus surrounding waters) is intended to establish and, when

visual conditions allow, maintain zones around the sound source that are clear of marine mammals, thereby reducing or eliminating the potential for injury and minimizing the potential for more severe behavioral reactions for animals occurring closer to the vessel. Visual monitoring of the buffer zone is intended to (1) provide additional protection to marine mammals that may be in the vicinity of the vessel during pre-start clearance, and (2) during airgun use, aid in establishing and maintaining the SZ by alerting the visual observer and crew of marine mammals that are outside of, but may approach and enter, the SZ.

During survey operations (e.g., any day on which use of the airgun array is planned to occur and whenever the airgun array is in the water, whether activated or not), a minimum of two visual PSOs must be on duty and conducting visual observations at all times during daylight hours (i.e., from 30 minutes prior to sunrise through 30 minutes following sunset). Visual monitoring of the pre-start clearance zone must begin no less than 30 minutes prior to ramp-up and monitoring must continue until 1 hour after use of the airgun array ceases or until 30 minutes past sunset. Visual PSOs shall coordinate to ensure 360° 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 the SZ and buffer zone. These zones shall

be based upon the radial distance from the edges of the airgun array (rather than being based on the center of the array or around the vessel itself). During use of the airgun array (i.e., anytime airguns are active, including ramp-up), detections of marine mammals within the buffer zone (but outside the SZ) shall be communicated to the operator to prepare for the potential shutdown of the airgun array. Any observations of marine mammals by crew members shall be relayed to the PSO team. During good conditions (e.g., daylight hours; Beaufort sea state (BSS) 3 or less), visual PSOs shall conduct observations when the airgun array is not operating for comparison of sighting rates and behavior with and without use of the airgun array and between acquisition periods, to the maximum extent practicable.

Visual PSOs may be on watch for a maximum of 4 consecutive hours followed by a break of at least 1 hour between watches and may conduct a maximum of 12 hours of observation per 24-hour period. Observational duties may not exceed 12 hours per 24-hour period for any individual PSO.

Establishment of Shutdown and Pre-Start Clearance Zones

A SZ is a defined area within which occurrence of a marine mammal triggers mitigation action intended to reduce the potential for certain outcomes (e.g., auditory injury, disruption of critical behaviors). The PSOs will establish a minimum SZ with a 100-m radius. The 100-m SZ will be based on radial distance from the edge of the airgun array (rather than being based on the center of the array or around the vessel itself). With certain exceptions (described below), if a marine mammal appears within or enters this zone, the airgun array will be shut down.

The pre-start clearance zone is defined as the area that must be clear of marine mammals prior to beginning ramp-up of the airgun array and includes the SZ plus the buffer zone. Detections of marine mammals within the pre-start clearance zone will prevent airgun operations from beginning (*i.e.*, ramp-up).

The 100-m SZ is intended to be precautionary in the sense that it will be expected to contain sound exceeding the injury criteria for all cetacean hearing groups, (based on the dual criteria of SEL_{cum} and peak SPL), while also providing a consistent, reasonably observable zone within which PSOs will typically be able to conduct effective observational effort. Additionally, a 100-m SZ is expected to minimize the likelihood that marine mammals will be

exposed to levels likely to result in more severe behavioral responses. Although significantly greater distances may be observed from an elevated platform under good conditions, we expect that 100 m is likely regularly attainable for PSOs using the naked eye during typical conditions. The pre-start clearance zone simply represents the addition of a buffer to the SZ, doubling the SZ size during pre-clearance.

An extended SZ of 500 m must be implemented for all beaked whales, a large whale with a calf, and groups of six or more large whales. No buffer of this extended SZ is required, as NMFS concludes that this extended SZ is sufficiently protective to mitigate harassment to these groups.

Pre-Start Clearance and Ramp-Up

Ramp-up (sometimes referred to as "soft start") means the gradual and systematic increase of emitted sound levels from an airgun array. The intent of pre-start clearance observation (30 minutes) is to ensure no marine mammals are observed within the prestart clearance zone (or extended SZ, for beaked whales, a large whale with a calf, and groups of six or more large whales) prior to the beginning of rampup. During the pre-start clearance period is the only time observations of marine mammals in the buffer zone would prevent operations (*i.e.*, the beginning of ramp-up). The intent of the ramp-up is to warn marine mammals of pending seismic survey operations and to allow sufficient time for those animals to leave the immediate vicinity prior to the sound source reaching full intensity. A ramp-up procedure, involving a stepwise increase in the number of airguns firing and total array volume until all operational airguns are activated and the full volume is achieved, is required at all times as part of the activation of the airgun array. 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 minutes prior to the planned ramp-up in order to allow the PSOs time to monitor the pre-start clearance zone (and extended SZ) for 30 minutes prior to the initiation of ramp-up (pre-start clearance);
- Ramp-ups shall be scheduled so as to minimize the time spent with the source activated prior to reaching the designated run-in;
- One of the PSOs conducting prestart clearance observations must be notified again immediately prior to

initiating ramp-up procedures and the operator must receive confirmation from the PSO to proceed;

- Ramp-up may not be initiated if any marine mammal is within the applicable shutdown or buffer zone. If a marine mammal is observed within the pre-start clearance zone (or extended SZ, for beaked whales, a large whale with a calf, and groups of six or more large whales) during the 30 minute 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 (15 minutes for small odontocetes, and 30 minutes for all mysticetes and all other odontocetes, including sperm whales, beaked whales, and large delphinids, such as pilot whales);
- Ramp-up must begin by activating one GI airgun and shall continue in stages, doubling the number of active elements at the commencement of each stage, with each stage lasting no less than five minutes. The operator must provide information to the PSO documenting that appropriate procedures were followed;
- PSOs must monitor the pre-start clearance zone and extended SZ during ramp-up, and ramp-up must cease and the source must be shut down upon detection of a marine mammal within the applicable zone. Once ramp-up has begun, detections of marine mammals within the buffer zone do not require shutdown, but such observation shall be communicated to the operator to prepare for the potential shutdown;
- Ramp-up may occur at times of poor visibility, including nighttime, if appropriate visual monitoring has occurred with no detections in the 30 minutes prior to beginning ramp-up. Airgun array activation may only occur at times of poor visibility where operational planning cannot reasonably avoid such circumstances;
- If the airgun array 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 visual detections of marine mammals have occurred within the pre-start clearance zone (or extended SZ, where applicable). For any longer shutdown, pre-start clearance observation and ramp-up are required; and
- Testing of the airgun array involving all elements requires rampup. Testing limited to individual source elements or strings does not require

ramp-up but does require pre-start clearance of 30 minutes.

Shutdown

The shutdown of an airgun array requires the immediate de-activation of all individual airgun elements of the array. Any PSO on duty will have the authority to call for shutdown of the airgun array if a marine mammal is detected within the applicable SZ. The operator must also establish and maintain clear lines of communication directly between PSOs on duty and crew controlling the airgun array to ensure that shutdown commands are conveyed swiftly while allowing PSOs to maintain watch. When the airgun array is active (i.e., anytime one or more airguns is active, including during ramp-up) and (1) a marine mammal appears within or enters the applicable SZ, the airgun array will be shut down. When shutdown is called for by a PSO, the airgun array will be immediately deactivated and any dispute resolved only following deactivation.

Following a shutdown, airgun activity will not resume until the marine mammal has cleared the SZ. The animal will be considered to have cleared the SZ if it is visually observed to have departed the SZ (*i.e.*, animal is not required to fully exit the buffer zone where applicable), or it has not been seen within the SZ for 15 minutes for small odontocetes or 30 minutes for all mysticetes and all other odontocetes, including sperm whales, beaked whales, and large delphinids, such as pilot

whales.

The shutdown requirement is waived for specific genera of small dolphins if an individual is detected within the SZ. The small dolphin group is intended to encompass those members of the Family Delphinidae most likely to voluntarily approach the source vessel for purposes of interacting with the vessel and/or airgun array (e.g., bow riding). This exception to the shutdown requirement applies solely to the specific genera of small dolphins (Lagenodelphis, Stenella, Steno, and Tursiops).

We include this small dolphin exception because shutdown requirements for these species under all circumstances represent practicability concerns without likely commensurate benefits for the animals in question. Small dolphins are generally the most commonly observed marine mammals in the specific geographic region and would typically be the only marine mammals likely to intentionally approach the vessel. As described above, auditory injury is extremely unlikely to occur for high-frequency cetaceans (e.g., delphinids), as this

group is relatively insensitive to sound produced at the predominant frequencies in an airgun pulse while also having a relatively high threshold for the onset of auditory injury (*i.e.*, permanent threshold shift).

A large body of anecdotal evidence indicates that small dolphins commonly approach vessels and/or towed arrays during active sound production for purposes of bow riding with no apparent effect observed (e.g., Barkaszi et al., 2012; Barkaszi and Kelly, 2018). The potential for increased shutdowns resulting from such a measure would require the Sikuliaq to revisit the missed track line to reacquire data, resulting in an overall increase in the total sound energy input to the marine environment and an increase in the total duration over which the survey is active in a given area. Although other highfrequency hearing specialists (e.g., large delphinids) are no more likely to incur auditory injury than are small dolphins, they are much less likely to approach vessels. Therefore, retaining a shutdown requirement for large delphinids would not have similar impacts in terms of either practicability for the applicant or corollary increase in sound energy output and time on the water. We do anticipate some benefit for a shutdown requirement for large delphinids in that it simplifies somewhat the total range of decision-making for PSOs and may preclude any potential for physiological effects other than to the auditory system as well as some more severe behavioral reactions for any such animals in close proximity to the Sikuliag.

Visual PSOs shall use best professional judgment in making the decision to call for a shutdown if there is uncertainty regarding identification (*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 SZ).

SIO must implement shutdown if a marine mammal species for which take was not authorized or a species for which authorization was granted but the authorized takes have been met approaches the Level A or Level B harassment zones. SIO must also implement shutdown if any large whale (defined as a sperm whale or any mysticete species) with a calf (defined as an animal less than two-thirds the body size of an adult observed to be in close association with an adult) and/or an aggregation of six or more large whales are observed at any distance.

Vessel Strike Avoidance Mitigation Measures

Vessel personnel should 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, or alter course, as appropriate and regardless of vessel size, to avoid striking any marine mammal. 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 (separation distances stated 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 mammals 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.

Vessel speeds must be reduced to 10 knots (kn) (18.5 kn per hour) 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 100 m from sperm whales and all other baleen 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 shall 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). If marine mammals are sighted within the

relevant separation distance, the vessel must reduce speed and shift the engine to neutral, not engaging the engines until animals are clear of the area. This does not apply to any vessel towing gear or any vessel that is navigationally constrained.

Based on our evaluation of the applicant's planned measures, as well as other measures considered by NMFS, NMFS has determined that the 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.

Vessel-Based Visual Monitoring

As described above, PSO observations will take place during daytime airgun operations. During seismic survey operations, at least five visual PSOs will be based aboard the Sikuliaq. Two visual PSOs will be on duty at all times during daytime hours. The operator will work with the selected third-party observer 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. SIO must use dedicated, trained, and NMFS-approved PSOs. At least one visual PSO aboard the vessel must have a minimum of 90 days at-sea experience working in those roles, respectively, with no more than 18 months elapsed since the conclusion of the at-sea experience. One visual PSO with such experience shall be designated as the lead for the entire protected species observation team. The lead PSO shall serve as primary point of contact for the vessel operator and ensure all PSO requirements per the IHA are met. To the maximum extent practicable, the experienced PSOs should be scheduled to be on duty with those PSOs with appropriate training but who have not vet gained relevant experience. The PSOs must have no tasks other than to conduct observational effort, record observational data, and communicate with and instruct relevant vessel crew with regard to the presence of marine mammals and mitigation requirements. PSO resumes shall be provided to NMFS for approval. Monitoring shall be conducted in accordance with the following requirements:

- PSOs shall be independent, dedicated, trained visual PSOs and must be employed by a third-party observer provider;
- PSOs shall 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 protected species and mitigation requirements (including brief alerts regarding maritime hazards);
- PSOs shall have successfully completed an approved PSO training course appropriate for their designated task (visual);

- NMFS must review and approve PSO resumes accompanied by a relevant training course information packet that includes the name and qualifications (*i.e.*, experience, training completed, or educational background) of the instructor(s), the course outline or syllabus, and course reference material as well as a document stating successful completion of the course;
- 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;
- 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. Requests shall be granted or denied (with justification) by NMFS within 1 week of receipt of submitted information. 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 protected species surveys; or (3) previous work experience as a PSO; the PSO should demonstrate good standing and consistently good performance of PSO duties;
- For data collection purposes, PSOs shall use standardized electronic data collection forms. PSOs shall record detailed information about any implementation of mitigation requirements, including the distance of animals to the airgun array 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 airgun array. If required mitigation was not implemented, PSOs should record a description of the circumstances. At a minimum, the following information must be recorded:
- Vessel name, vessel size and type, maximum speed capability of vessel;
- Dates (MM/DD/YYYY) of departures and returns to port with port name;

- PSO names and affiliations, PSO ID (initials or other identifier);
- Date (MM/DD/YYYY) and participants of PSO briefings;

Visual monitoring equipment used (description);

 PSO location on vessel and height (meters) of observation location above water surface;

Watch status (description);

 Dates (MM/DD/YYYY) and times (Greenwich Mean Time/UTC) of survey on/off effort and times (GMC/UTC) corresponding with PSO on/off effort;

 Vessel location (decimal degrees) when survey effort began and ended and vessel location at beginning and end of

visual PSO duty shifts;

 Vessel location (decimal degrees) at 30-second intervals if obtainable from data collection software, otherwise at practical regular interval;

 Vessel heading (compass heading) and speed (kn) at beginning and end of visual PSO duty shifts and upon any

change;

• Water depth (meters) (if obtainable

from data collection software);

• Environmental conditions while on visual survey (at beginning and end of PSO shift and whenever conditions changed significantly), including BSS and any other relevant weather conditions including cloud cover, fog, sun glare, and overall visibility to the horizon;

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

- Vessel/Survey activity information (and changes thereof) (description), such as airgun power output while in operation, number and volume of airguns operating in the array, tow depth of the array, and any other notes of significance (*i.e.*, pre-start clearance, ramp-up, shutdown, testing, shooting, ramp-up completion, end of operations, streamers, *etc.*); and
- Upon visual observation of any marine mammals, the following information must be recorded:

Sighting ID (numeric);

 Watch status (sighting made by PSO on/off effort, opportunistic, crew, alternate vessel/platform);

Location of PSO/observer

- Vessel activity at the time of the sighting (e.g., deploying, recovering, testing, shooting, data acquisition, other):
 - PSO who sighted the animal/ID;Time/date of sighting (GMT/UTC,
- MM/DD/YYYY);
- Initial detection method (description);

- Sighting cue (description);
- Vessel location at time of sighting (decimal degrees);
 - Water depth (meters);
- Direction of vessel's travel (compass direction);
- Speed (kn) of the vessel from which the observation was made;
- Direction of animal's travel relative to the vessel (description, compass heading):

• Bearing to sighting (degrees);

O Identification of the animal (e.g., genus/species, lowest possible taxonomic level, or unidentified) and the composition of the group if there is a mix of species;

- Species reliability (an indicator of confidence in identification) (1 = unsure/possible, 2 = probable, 3 = definite/sure, 9 = unknown/not recorded):
- Estimated distance to the animal (meters) and method of estimating distance;
- Estimated number of animals (high/ low/best) (numeric);
- Estimated number of animals by cohort (adults, yearlings, juveniles, calves, group composition, etc.);
- Obscription (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);
- Obtailed 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);

 Animal's closest point of approach (meters) and/or closest distance from any element of the airgun array;

- Obscription of any actions implemented in response to the sighting (e.g., delays, shutdown, ramp-up) and time and location of the action.
 - Photos (Yes/No);
- Photo Frame Numbers (List of numbers); and
- Conditions at time of sighting (Visibility; Beaufort Sea State).

Reporting

SIO shall 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 shall also include geo-referenced timestamped vessel tracklines for all time periods during which airgun arrays were operating. Tracklines should include points recording any change in airgun array 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). Geographic Information System files shall be provided in Environmental Systems Research Institute shapefile format and include the 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 data collected as described above in Monitoring and Reporting. A final report must be submitted within 30 days following resolution of any comments on the draft report.

Reporting Injured or Dead Marine Mammals

Discovery of injured or dead marine mammals—In the event that personnel involved in the survey activities discover an injured or dead marine mammal, the SIO shall report the incident to the Office of Protected Resources (OPR) and NMFS as soon as feasible. The report must include the following information:

• Time, date, and location (latitude/ longitude) of the first discovery (and updated location information if known and applicable);

• Species identification (if known) or description of the animal(s) involved;

- Condition of the animal(s) (including carcass condition if the animal is dead);
- Observed behaviors of the animal(s), if alive;
- If available, photographs or video footage of the animal(s); and
- General circumstances under which the animal was discovered.

Vessel strike—In the event of a strike of a marine mammal by any vessel involved in the activities covered by the authorization, SIO shall report the incident to OPR and NMFS as soon as feasible. The report must include the following information:

- Time, date, and location (latitude/longitude) of the incident;
- Vessel's speed during and leading up to the incident;
- Vessel's course/heading and what operations were being conducted (if applicable);

- Status of all sound sources in use:
- Description of avoidance measures/ requirements that were in place at the time of the strike and what additional measure were taken, if any, to avoid strike;
- Environmental conditions (e.g., wind speed and direction, BSS, cloud cover, visibility) immediately preceding the strike;
- Species identification (if known) or description of the animal(s) involved;
- Estimated size and length of the animal that was struck;
- Description of the behavior of the marine mammal immediately preceding and following the strike;
- If available, description of the presence and behavior of any other marine mammals present immediately preceding the strike;
- 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
- 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., populationlevel 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 discussion of our analysis applies to all the species listed in table 1, given that the anticipated effects of this activity on these different marine mammal stocks are expected to be similar, except where a species- or stock-specific discussion is warranted. NMFS does not anticipate that serious injury or mortality would occur as a result of SIO's planned survey, 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 above, nonauditory physical effects and vessel strike are not expected to occur. NMFS expects that all potential take would be in the form of Level B behavioral harassment in the form of temporary avoidance of the area or decreased foraging (if such activity was occurring), responses that are considered to be of low severity, and with no lasting biological consequences (e.g., Southall et al., 2007, 2021). These low-level impacts of behavioral harassment are not likely to impact the overall fitness of any individual or lead to population level effects of any species. As described above, Level A harassment is not expected to occur given the estimated small size of the Level A harassment

In addition, the maximum expected Level B harassment zone around the survey vessel is 1,408 m. Therefore, the ensonified area surrounding the vessel is relatively small compared to the overall distribution of 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 short duration (14 survey days) and temporary nature of the disturbance and the availability of similar habitat and resources in the surrounding area, the impacts to marine mammals and marine mammal prey species are not expected to cause significant or long-term fitness consequences for individual marine mammals or their populations.

Additionally, the acoustic "footprint" of the planned survey will be very small relative to the ranges of all marine mammals that would potentially be

affected. Sound levels will increase in the marine environment in a relatively small area surrounding the vessel compared to the range of the marine mammals within the planned survey area. The seismic array will be active 24 hours per day throughout the duration of the survey. However, the very brief overall duration of the planned survey (14 survey days) will further limit potential impacts that may occur as a result of the planned activity.

Of the marine mammal species that are likely to occur in the project area, the following species are listed as endangered under the ESA: humpback whales (Western North Pacific DPS), blue whales, fin whales, sei whales, and sperm whales. The take numbers authorized for these species (table 6) are minimal relative to their modeled population sizes; therefore, we do not expect population-level impacts to any of these species. Moreover, the actual range of the populations extends past the area covered by the model, so modeled population sizes are likely smaller than their actual population size. The other marine mammal species that may be taken by harassment during SIO's seismic survey are not listed as threatened or endangered under the ESA. There is no designated critical habitat for any ESA-listed marine mammals within the project area.

There are no rookeries, mating, or calving grounds known to be biologically important to marine mammals within the survey area, and there are no feeding areas known to be biologically important to marine mammals within the survey area.

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;
- The planned activity is temporary and of relatively short duration (27 days total with 14 days of planned survey activity);
- The anticipated impacts of the planned activity on marine mammals would be temporary behavioral changes due to avoidance of the ensonified area, which is relatively small (see tables 4 and 5):
- The availability of alternative areas of similar habitat value for marine mammals to temporarily vacate the survey area during the planned survey to avoid exposure to sounds from the activity is readily abundant;
- The potential adverse effects on fish or invertebrate species that serve as prey

species for marine mammals from the planned survey would be temporary and spatially limited and impacts to marine mammal foraging would be minimal; and

• The planned mitigation measures are expected to reduce the number and severity of takes, to the extent practicable, by visually detecting marine mammals within the established zones and implementing corresponding mitigation measures (e.g., delay; shutdown).

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 planned 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.

The number of takes NMFS is authorizing is below one-third of the modeled abundance for all relevant populations (specifically, take of individuals is less than 3 percent of the modeled abundance of each affected population, see table 6). This is conservative because the modeled abundance represents a population of the species and we assume all takes are of different individual animals, which is likely not the case. Some individuals may be encountered multiple times in a day, but PSOs would count them as separate individuals if they cannot be identified.

Based on the analysis contained herein of the planned activity (including the 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 ESA 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.

The NMFS Office of Protected Resources (OPR) ESA Interagency Cooperation Division has issued a Biological Opinion under section 7 of the ESA, on the issuance of an IHA to NSF under section 101(a)(5)(D) of the MMPA by the NMFS OPR ESA Interagency Cooperation Division. The Biological Opinion concluded that the action is not likely to jeopardize the continued existence of ESA-listed humpback whales (Western North Pacific DPS), blue whales, fin whales, sei whales, and sperm whales.

National Environmental Policy Act

To comply with the National Environmental Policy Act of 1969 (NEPA; 42 U.S.C. 4321 et seq.) and NOAA Administrative Order (NAO) 216–6A, NMFS must review our action (i.e., the issuance of an IHA) 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 the IHA qualifies to be categorically excluded from further NEPA review.

Authorization

NMFS has issued an IHA to L–DEO for the potential harassment of small numbers of 28 marine mammal species incidental to the marine geophysical survey in the Nauru Basin of greater Micronesia in the NW Pacific Ocean that includes the previously explained mitigation, monitoring and reporting requirements.

Dated: December 11, 2024.

Kimberly Damon-Randall,

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

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648-XE428]

Fisheries Off West Coast States; Pacific Coast Groundfish Fishery; Trawl Rationalization Program; 2025 Cost Recovery Fee Notice

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

ACTION: Notice; 2025 cost recovery fee percentages and average mothership cooperative program pricing.

SUMMARY: This action provides participants in the Pacific Coast Groundfish Trawl Rationalization Program with the 2025 cost recovery fee percentages and the average mothership (MS) price per pound to be used in the catcher/processor (C/P) Co-op program to calculate the fee amount for the upcoming calendar year. For the 2025 calendar year, NMFS announces the following fee percentages by sector specific program: 3.0 percent for the Shorebased Individual Fishing Quota (IFQ) Program; 0.1 percent for the C/P Co-op Program; and 3.0 percent for the MS Co-op Program. For 2025, the MS pricing to be used as a proxy by the C/ P Co-op Program is \$0.09/lb for Pacific whiting.

DATES: Applicable January 1, 2025.

FOR FURTHER INFORMATION CONTACT: Christopher Biegel, (503) 231–6291, christopher.biegel@noaa.gov.

SUPPLEMENTARY INFORMATION: Section 304(d)(2)(A) of the Magnuson-Stevens Fishery Conservation and Management Act (MSA) authorizes and requires NMFS to collect fees to recover the costs