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## Incidental Take Authorizations

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### Overview

This page is designed to provide information on why the marine mammal non-fishery interaction program was created, how the program operates under current laws and regulations, and to provide guidance on how to obtain marine mammal small take authorizations for non-fishery activities. The marine mammal non-fishery interaction program is tasked with implementation of section 101(a)(5) (A-D) of the [Marine Mammal Protection Act of 1972](#) (MMPA), as amended (16 U.S.C. 1371(a)(5)), which provides a mechanism for allowing, upon request, the "incidental", but not intentional, taking, of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographic region.

### MMPA Incidental Take Authorization or Letter of Authorization (LOA)

In 1981, Congress amended the MMPA to provide for "incidental take" authorizations for maritime activities, provided NMFS found the takings would be of small numbers and have no more than a "[negligible impact](#)" on those marine mammal species not listed as depleted under the MMPA (i.e., listed under the [Endangered Species Act \(ESA\)](#), and not having an "[unmitigable adverse impact](#)" on subsistence harvests of these species. These "incidental take" authorizations, also known as Letters of Authorization or LOAs, require that regulations be promulgated and published in the *Federal Register* outlining:

- Permissible methods and the specified geographical region of taking;
- The means of effecting the least practicable adverse impact on the species or stock and its habitat and on the availability of the species or stock for "[subsistence](#)" uses; and,
- Requirements for monitoring and reporting, including requirements for the independent peer-review of proposed monitoring plans where the proposed activity may affect the availability of a species or stock for taking for subsistence uses.

In 1986, Congress amended both the MMPA, under the incidental take program, and the ESA to authorize takings of depleted (and endangered or threatened) marine mammals, again provided the taking (lethal, injurious, or harassment) was small in number and had a negligible impact on marine mammals.

### MMPA Incidental Harassment Authorization (IHA)

In 1994, MMPA section 101(a)(5) was amended to establish an expedited process by which citizens of the U.S. can apply for an authorization to incidentally take small numbers of marine mammals by "[harassment](#)", referred to as Incidental Harassment Authorizations or IHAs. It established specific time limits for public notice and comment on any requests for authorization which would be granted under this new provision. According to the legislative history, Congress expected NMFS to act expeditiously in complying with the notice and comment requirements and expected NMFS to use the general rule making authority available under section 112 of the MMPA to establish a process for granting authorization in the case of incidental takes by harassment in "[Arctic waters](#)". In 1996 NMFS published an interim final rule (50 CFR Part 216.101-108) implementing this aspect of the program. The interim rule will be amended and written upon completion of NMFS' criteria for [acoustic harassment](#).

Because the incidental harassment authorization process has eliminated the need for

promulgating specific regulations on the incidental taking, IHAs have been of increasing interest since 1994 for those individuals with relatively short-term activities that might inadvertently harass marine mammals. This program allows authorizations to be issued in 120 days, instead of the 8-18 months typically needed for LOAs issued under regulations.

Regarding activities that occur in Arctic waters, the MMPA requires that monitoring plans be peer reviewed where the activity has the potential to affect the availability of a species or stock of marine mammals for subsistence uses. In order to aid NOAA Fisheries Service in its review of the monitoring plans, NOAA Fisheries Service holds an annual [Open Water Meeting](#) in Anchorage, Alaska, each spring.

#### **Types of Activities**

Most LOAs and IHAs to date have involved the incidental harassment of marine mammals by noise. Activities with the greatest potential to harass by noise include:

- seismic airguns
- ship and aircraft noise
- high energy sonars
- explosives detonations

#### **Applying for an LOA or IHA**

First the applicant must ask: **Do I need an LOA or an IHA?**

The applicant should apply for an **IHA** and does not need an LOA for the activity if it can be shown that:

1. there is no potential for serious injury or mortality; or,
2. the potential for serious injury or mortality can be negated through mitigation requirements that could be required under the authorization

If these two requirements cannot be met, or in other words, if the potential for "[serious injury](#)" and/or mortalities exists and there are no mitigating measurements that could be taken to prevent this form of 'take' from occurring, then the applicant must obtain an **LOA**.

After the type of authorization is determined, the applicant must submit a written request to the NMFS Office of Protected Resources AND the appropriate NMFS [Regional Office](#) where the specified activity is planned. These requests must include items 1-14 below before being considered by NMFS.

{Note that incomplete applications and applications that do not contain or refer to the necessary [NEPA](#) documentation, if applicable, will be returned to the applicant with explanation.}

#### **All applications for marine mammal incidental take authorizations, whether an LOA or an IHA, must include the following information in sufficient detail for NOAA Fisheries to meet the requirements mandated by section 7 of the Endangered Species Act and the National Environmental Policy Act (NEPA):**

1. A detailed description of the specific activity or class of activities that can be expected to result in incidental taking of marine mammals;
2. The date(s) and duration of such activity and the specific geographical region where it will occur;
3. The species and numbers of marine mammals likely to be found within the activity area;
4. A description of the status, distribution, and seasonal distribution (when applicable) of the affected species or stocks of marine mammals likely to be affected by such activities;
5. The type of incidental taking authorization that is being requested (i.e., takes by harassment only; takes by harassment, injury and/or death) and the method of incidental taking;
6. By age, sex, and reproductive condition (if possible), the number of marine mammals (by species) that may be taken by each type of taking identified in paragraph (a)(5) of this section, and the number of times such takings by each type of taking are likely to occur;

7. The anticipated impact of the activity upon the species or stock;
8. The anticipated impact of the activity on the availability of the species or stocks of marine mammals for subsistence uses;
9. The anticipated impact of the activity upon the habitat of the marine mammal populations, and the likelihood of restoration of the affected habitat;
10. The anticipated impact of the loss or modification of the habitat on the marine mammal populations involved;
11. The availability and feasibility (economic and technological) of equipment, methods, and manner of conducting such activity or other means of effecting the least practicable adverse impact upon the affected species or stocks, their habitat, and on their availability for subsistence uses, paying particular attention to rookeries, mating grounds, and areas of similar significance;
12. Where the proposed activity would take place in or near a traditional Arctic subsistence hunting area and/or may affect the availability of a species or stock of marine mammal for Arctic subsistence uses, the applicant must submit either a "[plan of cooperation](#)" or information that identifies what measures have been taken and/or will be taken to minimize any adverse effects on the availability of marine mammals for subsistence uses.
13. The suggested means of accomplishing the necessary monitoring and reporting that will result in increased knowledge of the species, the level of taking or impacts on populations of marine mammals that are expected to be present while conducting activities and suggested means of minimizing burdens by coordinating such reporting requirements with other schemes already applicable to persons conducting such activity. Monitoring plans should include a description of the survey techniques that would be used to determine the movement and activity of marine mammals near the activity site(s) including migration and other habitat uses, such as feeding. Guidelines for developing a site-specific monitoring plan may be obtained by writing to the Director, Office of Protected Resources; and
14. Suggested means of learning of, encouraging, and coordinating research opportunities, plans, and activities relating to reducing such incidental taking and evaluating its effects.

All documentation, including the application, reports, and any other associated documents are considered public information and as such, are subject to the Freedom of Information Act. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

OMB No. 0648-0151  
Expires: January 31, 2014

#### **How long does it take to get an authorization once the application is complete?**

Please note that decisions on **LOA** applications (includes two comment periods, possible public hearings, and consultations) may take from 8-18 months. **IHA** decisions normally involve one comment period and, depending on the issues and species involved, can take anywhere from 4-8 months.

#### **Endangered Species Act Authorizations Involving Marine Mammals**

The 1986 MMPA Amendments provided for an authorization to incidentally take ESA-listed marine mammals provided the taking (including mortality) was authorized under section 101(a)(5) of the MMPA.

Any takings of marine mammals listed as threatened or endangered under the ESA must be authorized under both the ESA and MMPA. The ESA takes are authorized by either an Incidental Take Statement or ITS under Section 7 (for Federal agency actions) or a Section 10 permit (for private citizens).

#### **Federal Agency Actions**

Section 7 of the ESA requires a Federal authorizing or action agency to consult with NMFS on any actions that might affect listed species. If the agency or NMFS determines an action is likely to adversely affect a species (this would include any taking actions under the MMPA), formal consultation is required. Here, NMFS prepares a "[Biological Opinion](#)" (BO) which assesses whether the action is likely to

jeopardize the existence of the species. The BO may include binding and/or discretionary recommendations to reduce impact. An ITS is attached to the BO as an appendix, and it is this statement which allows the incidental take. An ITS cannot be authorized for a listed marine mammal until the MMPA authorization is completed.

#### Non-Federal Actions

A private citizen or State action not involving a Federal agency which would result in an incidental taking of a listed species must be authorized under section 10 of the ESA. The applicant is required to develop a [conservation plan](#) which describes the action, evaluates the effect of the take, and establishes the level of take. The Federal action of NMFS issuing a permit under section 10 is considered an action which itself requires section 7 consultation (in which case NMFS consults with itself).

#### LOA/IHA Applications for Public Review

Applicant	Application	EA/EIS	Documents
<b>2012 L-DEO Seismic Survey in the Northeast Pacific Ocean</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">EA - NSF</a> [pdf]  <a href="#">EA - LGL</a> [pdf]	<a href="#">Federal Register Notice and Request for Comments by 05/31/2012</a> [pdf]
<b>2012 Shell Chukchi Sea Exploratory Drilling Program</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]  <a href="#">FONSI</a> [pdf]  <a href="#">Draft EA</a> [pdf] [3.3 MB]	<a href="#">Biological Opinion</a> [pdf]  <a href="#">Final Monitoring Plan</a> [pdf]  <a href="#">Federal Register Notice of Draft EA</a> [pdf]  <a href="#">Comments Received</a> [pdf] [10.9 MB]  <a href="#">Federal Register Notice</a> [pdf]
<b>2012 Shell Beaufort Sea Exploratory Drilling Program</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]  <a href="#">FONSI</a> [pdf]  <a href="#">Draft EA</a> [pdf] [3.3 MB]	<a href="#">Biological Opinion</a> [pdf]  <a href="#">Final Monitoring Plan</a> [pdf]  <a href="#">Federal Register Notice of Draft EA</a> [pdf]  <a href="#">Comments Received</a> [pdf] [10.2 MB]  <a href="#">Federal Register Notice</a> [pdf]
<b>2012 Naval Base Kitsap Bangor Pile Replacement Program</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">FONSI</a> [pdf]  <a href="#">SEA</a> [pdf]	<a href="#">Acoustic Monitoring Report</a> [pdf]  <a href="#">Marine Mammal Report</a> [pdf]

		<a href="#">Adoption Memo</a> [pdf]  <a href="#">Environmental Assessment (EA)</a> [pdf] [15.9 MB]	<a href="#">Federal Register Notice and Request for Comments by 05/30/2012</a> [pdf]
<b>2012 BP Open Water Seismic Survey</b>	<a href="#">IHA Application</a> [pdf]		<a href="#">Federal Register Notice and Request for Comments by 05/31/2012</a> [pdf]  <a href="#">Conflict Avoidance Agreement</a> [pdf]  <a href="#">Panel Report</a> [pdf]
<b>2013-18 Columbia River Crossing Bridge Construction</b>	<a href="#">LOA Application</a> [pdf] [16.6 MB]		<a href="#">Federal Register Notice and Request for Comments through 05/21/2012</a> [pdf] * <a href="#">comment online</a>  <a href="#">Marine Mammal Monitoring Report</a> [pdf]  <a href="#">Hydroacoustic Monitoring Report</a> [pdf]  <a href="#">Pile Extraction Report</a> [pdf]  <a href="#">Federal Register Notice of Receipt</a> [pdf]
<b>U.S. Fish and Wildlife Service (USFWS) Gulf Sturgeon Research in the Gulf of Mexico</b>	<a href="#">LOA Application</a> [pdf]		<a href="#">Federal Register notice</a> [pdf]
<b>2012 Monterey Bay National Marine Sanctuary (MBNMS) Fireworks Displays</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">FONSI</a> [pdf] [1.5 MB]  <a href="#">EA (2006)</a> [pdf] [5.8 MB]	<a href="#">Federal Register notice</a> [pdf]  <a href="#">2011 Fireworks Reporting</a> [pdf]  <a href="#">Maps of Fireworks Launch Sites in MBNMS</a> [pdf] [1.0 MB]  <a href="#">Assessment of Pyrotechnic</a>

			<a href="#">Displays and Impacts within the MBNMS 1993-2001</a> [pdf] » <a href="#">Appendix to Assessment</a> [pdf] [1.3 MB]
<b>2012 L-DEO Marine Low-Energy Seismic Survey in the Pacific Ocean, Line Islands</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">NSF EA</a> [pdf]	<a href="#">Federal Register notice</a> [pdf]
<b>2012 Sonoma County Water Agency's Russian River Estuary Management project</b>	<a href="#">Issued IHA</a> [pdf] <a href="#">IHA Renewal Application</a> [pdf]	<a href="#">EA (2010)</a> [pdf] <a href="#">FONSI (2010)</a> [pdf]	<a href="#">Federal Register notice</a> [pdf] <a href="#">Monitoring Report</a> [pdf] <a href="#">Management Plan</a> [pdf]
<b>2012 Scripps Institution of Oceanography low-energy marine seismic survey by the R/V <i>Melville</i> in the South-Eastern Pacific Ocean</b>	<a href="#">Issued IHA</a> [pdf] <a href="#">Revised IHA Application</a> [pdf] <a href="#">IHA Application</a> [pdf]	<a href="#">NSF EA</a> [pdf] <a href="#">Attachment to NSF EA</a> [pdf] <a href="#">NMFS EA</a> [pdf] <a href="#">NSF Draft EA</a> [pdf] <a href="#">Draft EA Attachment</a> [pdf]	<a href="#">Federal Register notice of issuance</a> [pdf] <a href="#">Federal Register notice of proposed IHA</a> [pdf]
<b>2012 Black Abalone Research by Dr. VanBlaricom on San Nicolas Island, CA</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">EA (2005)</a> [pdf] <a href="#">FONSI (2005)</a> [pdf]	<a href="#">Federal Register notice</a> [pdf]
<b>2012 Pile Placement for Fishermen's Atlantic City Windfarm</b>	<a href="#">IHA Application</a> [pdf] [4.1 MB]		<a href="#">Federal Register notice</a> [pdf]
<b>2012 Testing AN/AQS-20A Mine Reconnaissance Sonar System in the Navy's NSWC PCD Testing Range</b>	<a href="#">IHA Application</a> [pdf] [1.5 MB]	<a href="#">EA</a> [pdf] [2.7 MB]	
<b>Navy's Gulf of Mexico (GOMEX) Range Complex Training Exercises</b>	<a href="#">Renewal Request for LOA</a> [pdf] <a href="#">Issued LOA</a> [pdf] <a href="#">LOA Application Addendum</a> [pdf]		<a href="#">2011 Monitoring Report (East Coast and Gulf Range Complexes)</a> [pdf] [6.3 MB] <a href="#">2011 Exercise Report (East Coast and Gulf</a>


	<p><a href="#">LOA</a> [pdf] [1.8 MB]</p>		<p><a href="#">Range Complexes</a> [pdf]</p> <p><a href="#">Monitoring Plan</a> [pdf]</p> <p><a href="#">Final Rule</a> [pdf]</p> <p><a href="#">Proposed Rule</a> [pdf]</p>
<p><b>Navy's Atlantic Fleet Active Sonar Training (AFAST)</b></p>	<p><a href="#">2012 LOA Renewal Application</a> [pdf]</p> <p><a href="#">2012 LOA</a> [pdf] [1.2 MB]</p> <p><a href="#">2011 LOA</a> [pdf] [1.2 MB]</p> <p><a href="#">2011 LOA Renewal Application</a> [pdf]</p> <p><a href="#">2010 AFAST LOA Renewal Application</a> [pdf]</p> <p><a href="#">AFAST Final Rule</a> [pdf] [1.9 MB]</p> <p><a href="#">2009 AFAST LOA</a> [pdf] [1.3 MB]</p> <p><a href="#">LOA</a> [pdf] [4.1 MB]</p> <p><a href="#">Addendum to Application</a> [pdf]</p>	<p><a href="#">Final Mitigation EA</a> [pdf]</p> <p><a href="#">Final EIS</a> [pdf] [13.6 MB]</p> <p><a href="#">Appendices to Final EIS</a> [pdf] [29.0 MB]</p>	<p><a href="#">2011 AFAST Exercise Report</a> [pdf]</p> <p><a href="#">2011 AFAST Monitoring Report</a> [pdf] [3.2 MB]</p> <p><a href="#">2010 AFAST Monitoring Report</a> [pdf] [97.9 MB]</p> <p><a href="#">2010 AFAST Exercise Report</a> [pdf]</p> <p><a href="#">2010 Integrated Comprehensive Management Program Plan</a> [pdf] [2.2 MB]</p> <p><a href="#">2009 AFAST Monitoring Report</a> [pdf] [11.8 MB]</p> <p><a href="#">2009 AFAST Exercise Report</a> [pdf]</p> <p><a href="#">Final Stranding Response Plan</a> [pdf]</p> <p><a href="#">Final Monitoring Plan</a> [pdf]</p> <p><a href="#">Biological Opinion for AFAST regulations</a> [pdf] [1.6 MB]</p> <p><a href="#">Biological Opinion for AFAST 2009 LOA</a> [pdf] [2.5 MB]</p> <p><a href="#">After Action Reports (AARs)</a> [pdf] [4.1 MB]</p>

<p><b>2012 L-DEO Marine Seismic Survey in the Pacific Ocean, off Shatsky Rise</b></p>	<p><a href="#">IHA Application</a> [pdf]</p>	<p><a href="#">NSF DEA</a> [pdf]</p> <p><a href="#">NSF Report</a> (Attachment 1) [pdf]</p>	<p><a href="#">Federal Register Notice</a> [pdf]</p>
<p><b>2012 Ocean Renewable Power Company (ORPC) Maine's Pile Placement in Cobscook Bay</b></p>	<p><a href="#">IHA Application</a> [pdf] [1.5 MB]</p>	<p><a href="#">EA</a> [pdf]</p> <p><a href="#">FONSI</a> [pdf]</p>	<p><a href="#">Federal Register Notice of Issuance</a> [pdf]</p> <p><a href="#">Federal Register Notice of Receipt</a> [pdf]</p>
<p><b>2012 Naval Base Kitsap Bangor Wharf Construction Project</b></p>	<p><a href="#">IHA Application</a> [pdf]</p>		<p><a href="#">Federal Register Notice</a> [pdf]</p>
<p><b>2011 St. George Reef Lighthouse Restoration in Del Norte, CA</b></p>	<p><a href="#">Issued IHA</a> [pdf]</p> <p><a href="#">IHA Application</a> [pdf]</p>	<p><a href="#">Final EA</a> [pdf]</p> <p><a href="#">FONSI</a> [pdf] [1.7 MB]</p>	<p><a href="#">Comments Received (MMC)</a> [pdf]</p> <p><a href="#">Federal Register Notice</a> [pdf]</p>
<p><b>2012 U.S. Navy's Southern California Range Complex (SOCAL)</b></p>	<p><a href="#">2012 SOCAL Application</a> [pdf] [3.8 MB]</p> <p><a href="#">2011 SOCAL LOA renewal application</a> [pdf]</p> <p><a href="#">2010 SOCAL LOA renewal application</a> [pdf] [1.3 MB]</p> <p><a href="#">2010 SOCAL LOA renewal application addendum</a> [pdf] [1.3 MB]</p> <p><a href="#">SOCAL Final Rule</a> [pdf]</p> <p><a href="#">2008 LOA application</a> [pdf]</p>	<p><a href="#">EIS Vol 1</a> [pdf] [51.9 MB]</p> <p><a href="#">EIS Vol 2</a> [pdf] [28.2 MB]</p> <p><a href="#">Final SOCAL Mitigation EA</a> [pdf]</p>	<p><a href="#">Federal Register Notice</a> [pdf]</p> <p><a href="#">2011 SOCAL-HRC Exercise Report</a> [pdf]</p> <p><a href="#">2011 SOCAL Monitoring Report</a> [pdf] [64.4 MB]</p> <p><a href="#">2010 HRC-SOCAL Monitoring Report</a> [pdf] [58.0 MB]</p> <p><a href="#">2011 LOA</a> [pdf] [1.1 MB]</p> <p><a href="#">2010 HRC-SOCAL Exercise Report</a> [pdf] [1.5 MB]</p> <p><a href="#">2009 HRC-SOCAL Exercise Report</a> [pdf] [1.3 MB]</p> <p><a href="#">2009 SOCAL Exercise Report addendum</a> [pdf] [1.3 MB]</p> <p><a href="#">2009 HRC-SOCAL Monitoring Report</a> [pdf] [1.3 MB]</p> <p><a href="#">2009 SOCAL LOA</a> [pdf] [1.3 MB]</p>



			<a href="#">2010 Integrated Comprehensive Management Program Plan</a> [pdf] [2.2 MB]  <a href="#">Biological Opinion for SOCAL regulations</a> [pdf] [1.6 MB]  <a href="#">Biological Opinion for SOCAL 2009 LOA</a> [pdf] [1.8 MB]  <a href="#">Final SOCAL Monitoring Plan</a> [pdf] [3.4 MB]  <a href="#">Final SOCAL Stranding Response Plan</a> [pdf]  <a href="#">Supplementary Doc (Updated Draft Monitoring Plan)</a> [pdf] [2.2 MB]
<b>2012 L-DEO Marine Seismic Survey in the Commonwealth of the Northern Mariana Islands (CNMI)</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]	<a href="#">NSF EA (2012)</a> [pdf]  <a href="#">LGL EA (2012)</a> [pdf]  <a href="#">2010 NSF EA</a> [pdf]  <a href="#">2010 LGL EA</a> [pdf]	<a href="#">Comments Received (MMC)</a> [pdf]  <a href="#">Federal Register notice of issuance</a> [pdf]  <a href="#">Federal Register Notice</a> [pdf]  <a href="#">2010 Federal Register notice</a> [pdf]
<b>2012 U.S. Navy Agulhas Return Current Research Project (ARC12)</b>	<a href="#">IHA Application</a> [pdf]		<a href="#">Federal Register Notice</a> [pdf]
<b>2011 U.S. Army Corps of Engineers Blasting Operations during the Port of Miami Construction Project</b>	<a href="#">IHA Application</a> [pdf]		<a href="#">Comments Received</a> [pdf] <a href="#">MMC Comments</a> [pdf]  <a href="#">Federal Register Notice</a> [pdf]  <a href="#">Biological Opinion</a> [pdf]  <a href="#">Record of Decision (ROD)</a>

			<p>[pdf]</p> <p><a href="#">Monitoring Report</a> [pdf]</p> <p><a href="#">2005 Federal Register Notice</a> [pdf]</p> <p><a href="#">2003 Federal Register Notice</a> [pdf]</p>
<b>2011 U.S. Marine Corps Training Activities in Pamlico Sound, NC</b>	<p><a href="#">Issued IHA</a> [pdf]</p> <p><a href="#">IHA Application</a> [pdf]</p>	<p><a href="#">EA</a> [pdf] [9.3 MB]</p> <p><a href="#">FONSI</a> [pdf]</p>	<p><a href="#">Federal Register Notice of Issuance</a> [pdf]</p> <p><a href="#">Federal Register Notice of Receipt</a> [pdf]</p> <p><a href="#">2010 Monitoring Report</a> [pdf]</p>
<b>2012 Navy Training in 12 Range Complexes and U.S. Air Force Space Vehicle and Test Flight Activities in California</b>			<p><a href="#">Final Rule in Federal Register</a> [pdf]</p> <p><a href="#">Proposed Rule in Federal Register</a> [pdf]</p>
<b>2011 Navy's Training in Mariana Islands Range Complex (MIRC)</b>	<p><a href="#">LOA Application</a> [pdf] [1.2 MB]</p>		<p><a href="#">2011 Exercise Report</a> [pdf]</p> <p><a href="#">2011 Monitoring Report</a> [pdf] [1.1 MB]</p>
<b>2012 Army Corps of Engineers Pier 36/ Brannan Street Wharf Project</b>	<p><a href="#">IHA Application</a> [pdf]</p>	<p><a href="#">EA</a> [pdf]</p> <p><a href="#">FONSI</a> [pdf]</p>	<p><a href="#">Comments Received</a> [pdf]</p> <p><a href="#">Proposed IHA Federal Register Notice</a> [pdf]</p>
<b>2012 Navy Training in the Hawaii Range Complex</b>	<p><a href="#">LOA Application</a> [pdf]</p>		<p><a href="#">Federal Register Notice of proposed modification to LOA</a> [pdf]</p> <p><a href="#">2011 Exercise Report</a> [pdf]</p> <p><a href="#">2011 Monitoring Report</a> [pdf] [64.4 MB]</p>
<b>2011 Navy Training in the Northwest</b>	<p><a href="#">LOA Application</a> [pdf]</p>		<p><a href="#">Federal Register Notice of Issuance</a></p>

<b>Training Range Complex</b>			[pdf] <a href="#">Monitoring Report</a> [pdf] <a href="#">Exercise Report</a> [pdf]
<b>2011 Apache Alaska Corp. Seismic Survey in Cook Inlet, Alaska</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.6 MB]	<a href="#">Final EA</a> [pdf]  <a href="#">FONSI</a> [pdf]  <a href="#">Draft EA</a> [pdf] [2.1 MB]	<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">Federal Register Notice of Proposed IHA</a> [pdf]
<b>2011 Lamont-Doherty Earth Observatory (L-DEO) Marine Seismic Survey in Central Pacific Ocean</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]	<a href="#">EA- LGL</a> [pdf] [1.5 MB]  <a href="#">EA- NSF</a> [pdf]	<a href="#">Comments Received</a> [pdf]  <a href="#">Federal Register Notice</a> [pdf]
<b>2011 Cape Wind Associates' High Resolution Geophysical Survey in Nantucket Sound, MA</b>	<a href="#">IHA Application</a> [pdf] [1.8 MB]	<a href="#">EA</a> [pdf]  <a href="#">FONSI</a> [pdf]	<a href="#">Comments Received</a> [pdf] [1.3 MB]  <a href="#">Federal Register Notice</a> [pdf]
<b>2011 Washington DNR Woodard Bay</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]		<a href="#">Monitoring Report</a> [pdf]
<b>2012-2017 Navy Operations of Surveillance Towed Array Sensor System Low Frequency Active (SURTASS LFA) Sonar</b>	<a href="#">2012-2017 LOA Application</a> [pdf] [2.5 MB]	<a href="#">Draft Supplemental EIS</a> 	<a href="#">Federal Register Notice of Extension of Comment Period (closed 02/21/2012)</a> [pdf]  <a href="#">Federal Register Notice</a> [pdf]
<b>2011 Port of Vancouver</b>	<a href="#">IHA Application</a> [pdf] [8.2 MB]		<a href="#">Federal Register Notice</a> [pdf]
<b>2011 Navy Operations of Surveillance Towed Array Sensor System Low Frequency Active (SURTASS LFA) Sonar</b>	<a href="#">Issued LOA for USNS Able</a> [pdf]  <a href="#">Issued LOA for USNS Effective</a> [pdf]  <a href="#">Issued LOA for USNS Impeccable</a> [pdf]		<a href="#">Annual Report #3</a> [pdf] [3.2 MB]  <a href="#">Annual Report #2</a> [pdf] [1.9 MB]  <a href="#">Annual Report #1</a> [pdf] [1.7 MB]  <a href="#">Final Rule (2007)</a> [pdf]  <a href="#">Acoustic</a>

	<a href="#">Issued LOA for USNS Victorious</a> [pdf]  <a href="#">2010 Issued LOAs</a> [pdf]  <a href="#">LOA Application</a> [pdf]  <a href="#">Appendices to Application</a> [pdf]  <a href="#">Issued LOAs (2008)</a> [pdf]		<a href="#">Integration Model Report</a> [pdf] [1.3 MB]  <a href="#">Final Report</a> [pdf] [2.6 MB]
<b>2011 Scripps Institution of Oceanography Low-Energy Marine Seismic Survey in the Western Tropical Pacific Ocean</b>	<a href="#">Issued IHA</a> [pdf] [3.6 MB]  <a href="#">IHA Application</a> [pdf] [1.2 MB]	<a href="#">NSF EA</a> [pdf] [2.5 MB]  <a href="#">LGL EA</a> [pdf] [1.3 MB]	<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">Comments Received</a> [pdf] [12.1 MB]  <a href="#">Federal Register Notice of Receipt</a> [pdf]
<b>2011 Northeast Gateway Liquefied Natural Gas (LNG) Port Facility in Massachusetts Bay</b>	<a href="#">IHA Application</a> [pdf]		<a href="#">Federal Register Notice</a> [pdf]
<b>2011 Eglin AFB-Gunnery Exercises</b>	<a href="#">Issued IHA</a> [pdf] [1.1 MB]  <a href="#">Application</a> [pdf] [1.2 MB]	<a href="#">EA</a> [pdf]  <a href="#">FONSI</a> [pdf]	<a href="#">Federal Register Notice</a> [pdf]
<b>2011 UAGI Marine Seismic Survey in the Arctic</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf]	<a href="#">Draft EA</a> [pdf] [7.4 MB]	<a href="#">90-day Monitoring Report</a> [pdf] [1.9 MB]  <a href="#">Comments Received</a> [pdf] [1.3 MB]  <a href="#">Federal Register Notice</a> [pdf]  <a href="#">Plan of Cooperation</a> [pdf]
<b>Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE, formerly Minerals Management Service (MMS)) Seismic Surveys in the Gulf of</b>	<a href="#">2011 Application, including Appendices</a> [pdf] [2.4 MB]  <a href="#">-2011 Application (without Appendices)</a>	<a href="#">2004 MMS PEA</a> [pdf] [8.8 MB]	<a href="#">Comments Received</a> [pdf] [20.4 MB]  <a href="#">2011 Federal Register Notice of Receipt (BOEMRE)</a>  [pdf]

<b>Mexico</b>	<p>[pdf]</p> <p><a href="#">-Appendix A: Acoustic Modeling Approach and Methodology</a> [pdf] [1.9 MB]</p> <p><a href="#">-Appendix B: Current Seismic Surveys Mitigation Measures in the Gulf</a> [pdf]</p> <p><a href="#">-Appendix C: Methodology for recalculation of new take estimates for the period 2012-7</a> [pdf]</p> <p><a href="#">2004 MMS Application</a> [pdf]</p> <p><a href="#">2002 MMS Application</a> [pdf] [1.1 MB]</p>		<p><a href="#">2004 Federal Register Notice of Intent for an EIS (MMS)</a> [pdf]</p> <p><a href="#">2003 Federal Register Notice of Receipt (MMS)</a> [pdf]</p> <p><a href="#">2003 Federal Register Notice of extension of comment deadline (MMS)</a> [pdf]</p>
<b>2011 USGS Marine Geophysical Survey in the Central-Western Bering Sea</b>	<p><a href="#">Issued IHA</a> [pdf]</p> <p><a href="#">IHA Application</a> [pdf] [1.3 MB]</p>	<p><a href="#">Draft EA</a> [pdf] [3.4 MB]</p>	<p><a href="#">Federal Register notice of issuance</a> [pdf]</p> <p><a href="#">Federal Register notice</a> [pdf]</p> <p>*<a href="#">Correction to Federal Register notice</a> [pdf]</p>
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<b>2011 Statoil Shallow Hazards Survey in the Alaskan Chukchi Sea</b>	<p><a href="#">Issued IHA</a> [pdf]</p> <p><a href="#">IHA Application</a> [pdf] [1.6 MB]</p>	<p><a href="#">FONSI</a> [pdf]</p> <p><a href="#">Supplemental EA</a> [pdf]</p>	<p><a href="#">90-day Monitoring Report</a> [pdf] [5.8 MB]</p> <p><a href="#">Biological Opinion</a> [pdf]</p> <p><a href="#">Plan of Cooperation</a> [pdf] [17.6 MB]</p> <p><a href="#">Federal Register notice of issuance</a> [pdf]</p> <p><a href="#">AEWC Comments</a></p>

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<p><b>2011 Pile-Driving and Renovation Operations on the Trinidad Pier by the Cher-Ae Heights Indian Community for the Trinidad Rancheria in Trinidad, CA</b></p>	<p><a href="#">Issued IHA</a> [pdf] [1.4 MB]</p> <p><a href="#">IHA Application</a> [pdf]</p>	<p><a href="#">EA</a> [pdf]</p>	<p><a href="#">Federal Register notice of issuance</a> [pdf]</p> <p><a href="#">Federal Register notice and request for comments</a> [pdf]</p> <p><a href="#">Biological Assessment</a> [pdf]</p> <p><a href="#">Monitoring Plan</a> [pdf]</p> <p><a href="#">NMFS Letter: November 2009</a> [pdf]</p> <p><a href="#">NMFS Letter: October 2009</a> [pdf]</p>
<p><b>2011 Lamont-Doherty Earth Observatory (LDEO) Marine Seismic Survey in Western Gulf of Alaska</b></p>	<p><a href="#">Issued IHA</a> [pdf] [1.7 MB]</p> <p><a href="#">IHA Application</a> [pdf] [1.2 MB]</p>	<p><a href="#">L-DEO EA</a> [pdf] [3.5 MB]</p> <p><a href="#">NSF EA</a> [pdf] [3.3 MB]</p>	<p><a href="#">90-day Monitoring Report</a> [pdf]</p> <p><a href="#">Federal Register Notice of Issuance</a> [pdf]</p> <p><a href="#">MMC Comments</a> [pdf]</p> <p><a href="#">Federal Register Notice; Request for Comments</a> [pdf]</p>
<p><b>2011 United Launch Alliance Harbor Activities Related to the Delta IV/EEL Vehicle at VAFB, CA</b></p>	<p><a href="#">Issued IHA</a> [pdf] [1.1 MB]</p> <p><a href="#">IHA Application</a> [pdf]</p>		<p><a href="#">Public Comment</a> [pdf]</p> <p><a href="#">MMC Comments</a> [pdf]</p> <p><a href="#">Federal Register notice</a></p>

			[pdf] <a href="#">2010 Monitoring Report</a> [pdf] [2.3 MB]
<b>2011 USGS Marine Geophysical Survey in the Central Gulf of Alaska</b>	<a href="#">Issued IHA</a> [pdf] [4.5 MB]  <a href="#">IHA Application</a> [pdf]	<a href="#">Draft EA</a> [pdf] [2.2 MB]	<a href="#">90-day Monitoring Report</a> [pdf] [1.2 MB]  <a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">MMC Comments</a> [pdf] [4.1 MB]  <a href="#">Federal Register Notice of Proposed IHA; Request for Comments</a> [pdf]
<b>2012-2017 Port Dolphin LNG Construction and Operation, Florida</b>	<a href="#">LOA Application</a> [pdf] [2.6 MB]		<a href="#">Federal Register notice of receipt; request for comments</a> [pdf]
<b>2011 Naval Base Kitsap Bangor Pile Replacement Program</b>	<a href="#">IHA Application</a> [pdf] [4.4 MB]	<a href="#">Environmental Assessment (EA)</a> [pdf] [15.9 MB]  <a href="#">Draft EA</a> [pdf] [8.2 MB]	<a href="#">Federal Register notice of issuance</a> [pdf]  <a href="#">Federal Register notice of Proposed IHA</a> [pdf]
<b>2011 L-DEO Marine Seismic Survey in the Pacific Ocean, off Costa Rica</b>	<a href="#">Issued IHA</a> [pdf] [5.8 MB]  <a href="#">IHA Application</a> [pdf] [1.3 MB]	<a href="#">NMFS EA</a> [pdf]  <a href="#">NMFS FONSI</a> [pdf] [7.8 MB]  <a href="#">NSF Report</a> [pdf] [2.2 MB]  <a href="#">NSF FONSI</a> [pdf] [3.2 MB]	<a href="#">MMC Comments</a> [pdf]  <a href="#">Federal Register Notice of Receipt; Request for Comments and Information</a> [pdf]
<b>2011 Naval Base Kitsap Bangor Test Pile Program</b>	<a href="#">Modified IHA</a> [pdf]  <a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [2.8 MB]	<a href="#">Final EA</a> [pdf] [17.3 MB]  <a href="#">FONSI (NMFS)</a> [pdf]  <a href="#">Draft EA</a> [pdf] [10.8 MB]	<a href="#">Acoustics Monitoring Report</a> [pdf] [64.1 MB]  <a href="#">Marine Mammal Monitoring Report</a> [pdf] [16.6 MB]
<b>2011 USFWS Polar Bear Captures</b>	<a href="#">Issued IHA</a> [pdf] [1.6 MB]  <a href="#">IHA Application</a> [pdf]	<a href="#">EA (final)</a> [pdf] [1.7 MB]  <a href="#">FONSI</a> [pdf]	<a href="#">Federal Register Notice of Proposed IHA</a> [pdf]
<b>2011-2016 Neptune</b>	<a href="#">Issued LOA</a>		<a href="#">Correction to</a>

<b>Deepwater Port Operation and Maintenance/ Repair</b>	[pdf] [2.1 MB] <a href="#">LOA Application</a> [pdf] [4.5 MB]		<a href="#">Federal Register Notice of Final Rule</a> [pdf]  <a href="#">Federal Register Notice of Final Rule</a> [pdf]  <a href="#">Federal Register Notice of Proposed Rule</a> [pdf]
<b>2010 San Francisco-Oakland Bay Bridge East Span Seismic Safety Project</b>	<a href="#">2011 IHA</a> [pdf]  <a href="#">IHA Renewal Clarification</a> [pdf]  <a href="#">IHA Renewal</a> [pdf]		<a href="#">Federal Register; Notice of Issuance</a> [pdf]  <a href="#">Comments from the Marine Mammal Commission</a> [pdf]  <a href="#">Federal Register notice</a> [pdf]  <a href="#">Marine Mammal Monitoring Report</a> [pdf] [1.3 MB]
<b>2010 St. George Reef Lighthouse Restoration in Del Norte, CA</b>	<a href="#">Issued IHA</a> [pdf] [4.5 MB]  <a href="#">IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]  <a href="#">FONSI</a> [pdf] [1.7 MB]	<a href="#">MMC Comments</a> [pdf] [1.3 MB]  <a href="#">Federal Register Notice of Receipt; Request for Comments</a> [pdf]  <a href="#">2010 Monitoring Report</a> [pdf]
<b>2010 US Navy Training Conducted within the Silver Strand Training Complex</b>	<a href="#">LOA Addendum</a> [pdf] [2.5 MB]  <a href="#">IHA Application</a> [pdf] [6.9 MB]  <a href="#">IHA Application version 2</a> [pdf] [5.0 MB]  <a href="#">IHA Application version 3</a> [pdf] [6.8 MB]		<a href="#">Comments from the Marine Mammal Commission</a> [pdf]  <a href="#">Federal Register Notice of Receipt; Request for Comments</a> [pdf]
<b>2010 Parsons Slough Sill Project in Monterey County, CA</b>	<a href="#">IHA Application</a> [pdf] [3.7 MB]		<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">Federal Register Notice of Receipt;</a>



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<b>2010 Knik Arm Crossing Project in Upper Cook Inlet, Alaska</b>	<a href="#">LOA Application</a> [pdf] [5.1 MB]		<a href="#">Federal Register Notice of Receipt; Request for Comments</a> [pdf]
<b>2010 Exploratorium Relocation in San Francisco, CA</b>	<a href="#">IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]	<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">Federal Register notice of receipt; request for comments</a> [pdf]
<b>2010 Northeast Gateway for the operations of an LNG port facility in Massachusetts Bay</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [3.8 MB]		<a href="#">Comments from the Marine Mammal Commission</a> [pdf] [2.1 MB]  <a href="#">Federal Register Notice of Issuance</a>  [pdf]  <a href="#">Federal Register notice of receipt; request for comments</a> [pdf]
<b>2010 Bluewater Meteorological Tower Installation, New Jersey/ Delaware</b>	<a href="#">Issued IHA</a> [pdf] [3.0 MB]  <a href="#">IHA Application: Delaware</a> [pdf]  <a href="#">IHA Application: New Jersey</a> [pdf]		<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">Federal Register notice of receipt; request for comments</a> [pdf]
<b>2010 Alaska Aerospace Corporation Space Vehicle and Missile Launch Operations at Kodiak Launch Complex, AK</b>	<a href="#">LOA Application</a> [pdf]		<a href="#">2011-2 Monitoring Report</a> [pdf]  <a href="#">Final Rule</a> [pdf]  <a href="#">2011 LOA Notice</a> [pdf]  <a href="#">Federal Register proposed rule; request for comments</a> [pdf]  <a href="#">Federal Register notice of receipt; request for</a>

			<a href="#">comments</a> [pdf]
<b>2010 USGS Seismic Survey in the Arctic Ocean</b>	<a href="#">Issued IHA</a> [pdf] [4.5 MB]  <a href="#">IHA Application</a> [pdf] [1.6 MB]  <a href="#">Addendum to IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf] [6.9 MB]  <a href="#">Draft EA</a> [pdf] [1.7 MB]	<a href="#">USGS 2010 Monitoring Report</a> [pdf] [7.8 MB]  <a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">AEWC Comments</a> [pdf]  <a href="#">Federal Register notice &amp; request for comments</a> [pdf]  <a href="#">Comments Received</a> [pdf] [4.1 MB]
<b>2010 Statoil 3D Marine Seismic Survey in Chukchi Sea, AK</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.7 MB]	<a href="#">EA</a> [pdf] [3.9 MB]  <a href="#">FONSI</a> [pdf]	<a href="#">Peer Review Report</a> [pdf]  <a href="#">Peer Review Rec Letter</a> [pdf]  <a href="#">Comments Received</a> [pdf] [2.9 MB]  <a href="#">Federal Register notice of receipt; request for comments</a> [pdf]  <a href="#">Biological Opinion for Shell and Statoil's Marine and Seismic Surveys</a> [pdf] [1.7MB]  <a href="#">Statoil 90-day monitoring report</a> [pdf] [13 MB] <a href="#">Addendum to the 90-day Report</a> [pdf]
<b>2010 Shell Open Water Marine Survey Program in the Beaufort and Chukchi Seas, AK</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.7 MB]	<a href="#">EA</a> [pdf] [3.9 MB]  <a href="#">FONSI</a> [pdf]	<a href="#">90-day monitoring report with appendices</a> [pdf] [37.9 MB] <a href="#">*Report only</a> [pdf] [7.4 MB]  <a href="#">Peer Review Report</a> [pdf]

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<b>2010 Shell Chukchi Sea, AK, Exploratory Drilling Program</b>	<p><a href="#">IHA Application</a> [pdf] [1.2 MB]</p>		<p><a href="#">Comments Received</a> [pdf]</p> <p><a href="#">Federal Register notice of receipt; request for comments</a> [pdf]</p> <p><a href="#">Communication Plan</a> [pdf]</p> <p><a href="#">Plan of Cooperation (POC)</a> [pdf]</p>
<b>2010-2011 Neptune Deepwater Port Operation and Maintenance/ Repair</b>	<p><a href="#">2010 Issued IHA</a> [pdf] [1.9 MB]</p> <p><a href="#">IHA Application</a> [pdf] [4.1 MB]</p>		<p><a href="#">Comments Received</a> [pdf] [1.9 MB]</p> <p><a href="#">Federal Register notice of receipt; request for comments</a> [pdf]</p>
<b>2010 Shell Camden Bay, Beaufort Sea, AK, Exploratory Drilling Program</b>	<p><a href="#">IHA Application</a> [pdf] [1.3 MB]</p>		<p><a href="#">Comments Received</a> [pdf] [38.9 MB]</p> <p><a href="#">Communications Plan</a> [pdf]</p> <p><a href="#">Plan of Cooperation (POC)</a> [pdf]</p> <p><a href="#">Federal Register notice of receipt; request for comments</a></p>

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<b>2011-2016 BP Operation of Northstar Oil and Gas Facility in the Beaufort Sea, AK</b>	<a href="#">LOA Application</a> [pdf]		<a href="#">Peer Review Panel Report</a> [pdf]  <a href="#">Federal Register Notice of Proposed Rule</a> [pdf]  <a href="#">Federal Register notice of receipt</a> [pdf]
<b>2010 NMFS Alaska Region Replacement and Repair of Fur Seal Research Observation Towers and Walkways on St. Paul Island, AK</b>	<a href="#">Issued IHA</a> [pdf] [1.1 MB]  <a href="#">IHA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]  <a href="#">Draft EA</a> [pdf]	<a href="#">90-Day Monitoring Report</a> [pdf]  <a href="#">Federal Register notice of issuance</a> [pdf]  <a href="#">MMC Comments</a> [pdf]  <a href="#">Maps</a> [pdf] [4.8 MB]  <a href="#">Photos</a> [pdf]  <a href="#">Federal Register notice of receipt; request for comments</a> [pdf]
<b>2009 Navy Training Activities in the Gulf of Alaska Temporary Maritime Activities Area</b>	<a href="#">LOA Application</a> [pdf] [4.2 MB]	<a href="#">Draft EIS</a> [pdf] [13.9 MB]	<a href="#">Correction to Federal Register Notice of Final Rule</a> [pdf]  <a href="#">Federal Register Notice of Final Rule</a> [pdf]  <a href="#">Final Monitoring Plan</a> [pdf]  <a href="#">Stranding Protocol</a> [pdf]  <a href="#">Draft Monitoring Plan</a> [pdf] [1.4 MB]  <a href="#">Federal Register</a>

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<b>2009-12 Eglin Air Force Base's NEODS Training Operations</b>	<a href="#">Issued LOA</a> [pdf]  <a href="#">2011 Revised Application</a> [pdf]  <a href="#">2009 LOA Application</a> [pdf] [5.1 MB]	<a href="#">Biological Assessment</a> [pdf]  <a href="#">ESA Letter</a> [pdf]  <a href="#">EA</a> [docx]	<a href="#">Federal Register Notice of Issuance</a> [pdf]  <a href="#">2012 Final Rule Federal Register Notice</a> [pdf]  <a href="#">2010 Proposed Rule Federal Register Notice</a> [pdf]  <a href="#">2010 ESA informal consultation letter</a> [pdf]  <a href="#">2010 Federal Register notice of receipt</a> [pdf]
<b>2009 PRBO Seabird and Pinniped Research in Central California</b>	<a href="#">Issued IHA</a> [pdf] [2.7 MB]  <a href="#">IHA Application</a> [pdf]		<a href="#">Federal Register notice</a> [pdf]
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<b>2009 U.S. Army Corps of Engineers Dredging and Sill Removal at U.S. Marine Corps Slipway at Blount Island, FL</b>	<a href="#">IHA Application</a> [pdf] [1.4 MB]	<a href="#">Draft EA</a> [pdf] [9.5 MB]	<a href="#">Federal Register notice &amp; request for comments</a> [pdf]  <a href="#">Biological Assessment</a> [pdf] [1.5 MB]  <a href="#">Underwater Blast Pressures During Miami Harbor Project</a> [pdf]
<b>2009 Naval Base Ventura County Boom Exercise Drills at Point Mugu, CA</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.2 MB]		<a href="#">Monitoring Report</a> [pdf]  <a href="#">Public Comments</a> [pdf]
<b>2009 Rice University Low-Energy Marine Seismic Survey in the Northwest Atlantic</b>	<a href="#">Signed IHA</a> [pdf]  <a href="#">IHA Application</a>	<a href="#">EA</a> [pdf] [1.4 MB]  <a href="#">Draft EA (NSF)</a>	<a href="#">Monitoring Report</a> [pdf] [1.2 MB]  <a href="#">Federal Register</a>

Ocean	[pdf]	[pdf]	<a href="#">notice of issued IHA</a> [pdf]  <a href="#">Federal Register notice of proposed IHA</a> [pdf]
<b>2009 Shell Open-water Marine Survey Program, Chukchi Sea</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.8 MB]  » <a href="#">Addendum 1</a> [pdf]  » <a href="#">Addendum 2</a> [pdf]	<a href="#">EA</a> [pdf]  <a href="#">FONSI</a> [pdf]	<a href="#">90-day Monitoring Report</a> [pdf] [21.3 MB]  <a href="#">Public Comments Received</a> [pdf] [6.5 MB]
<b>2009 Scripps Seismic Survey in the Northeastern Pacific Ocean</b>	<a href="#">Modified IHA</a> [pdf]  <a href="#">Signed IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.3 MB]	<a href="#">EA</a> [pdf] [1.1 MB]  <a href="#">Record of NEPA Compliance</a> [pdf]	<a href="#">Federal Register notice</a> [pdf]
<b>2009 L-DEO Marine Geophysical Survey in the Northeast Pacific Ocean</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA</a> [pdf] [1.1 MB]	<a href="#">NSF EA</a> [pdf]  <a href="#">L-DEO EA Report</a> [pdf] [3.8 MB]	<a href="#">Monitoring Report</a> [pdf] [3.1 MB]  <a href="#">Public Comments</a> [pdf]  <a href="#">Federal Register notice</a> [pdf]
<b>2008 Navy's Mariana Islands Range Complex</b>	<a href="#">LOA Application</a> [pdf] [2.9 MB]  <a href="#">LOA Application Addendum</a> [pdf]  <a href="#">Additional Information</a> [pdf] [1.0 MB]	<a href="#">Draft EIS</a> [pdf] [20.5 MB] » <a href="#">Vol 1</a> [pdf] [13.5 MB] » <a href="#">Vol 2</a> [pdf] [7.0 MB]	<a href="#">Programmatic Biological Opinion for the Navy's Mariana Islands Range Complex</a> [pdf] [2.7 MB]  <a href="#">MISTCS Report</a> [pdf] [6.8 MB]  <a href="#">Draft Stranding Response Plan</a> [pdf]  <a href="#">Draft Monitoring Plan</a> [pdf] [1.1 MB]  <a href="#">Proposed Rule</a> [pdf] [1.0 MB]  <a href="#">Final Monitoring Plan</a> [pdf]  <a href="#">Final Stranding Protocol</a>

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<b>2008 Navy's Northwest Training Range Complex (NWTRC)</b>	<a href="#">NWTRC LOA</a> [pdf] [14.8 MB]  <a href="#">LOA</a> [pdf] [2.7 MB]  <a href="#">Application Addendum</a> [pdf]	<a href="#">Draft EIS (all)</a> [pdf] [12.9 MB]  » <a href="#">Vol 1: Draft EIS</a> [pdf] [9.7 MB]  » <a href="#">Vol 2: Draft EIS</a> [pdf] [3.1 MB]	<a href="#">Final Rule</a> [pdf]  <a href="#">NWTRC Final Monitoring Plan</a> [pdf] [5.8 MB]  <a href="#">Proposed Rule</a> [pdf]
<b>2008 Navy's East Coast Undersea Warfare Training Range</b>	<a href="#">LOA</a> [pdf] [2.9 MB]		
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<b>2008 CGGVeritas On-Ice Seismic In Beaufort Sea, AK</b>	<a href="#">IHA</a> [pdf]		<a href="#">Withdrawal Notice</a> [pdf]  <a href="#">Notice of Proposed IHA</a> [pdf]
<b>2008 L-DEO Marine Geophysical Survey in the Southwest Pacific Ocean</b>	<a href="#">Issued IHA</a> [pdf]  <a href="#">IHA Application</a> [pdf] [1.0 MB]	<a href="#">EA</a> [pdf] [1.9 MB]	<a href="#">Monitoring Report</a> [pdf] [2.1 MB]  <a href="#">Federal Register notice</a> [pdf]
<b>2008 Beach Blvd (FL) Bridge Blasting Project</b>	<a href="#">Application</a> [pdf] [3.4 MB]	<a href="#">Supplemental EA</a> [pdf] [1.9 MB]	<a href="#">Federal Register notice</a> [pdf]
<b>2009 Naval Air Warfare Center Target and Missile Launch Activities</b>	<a href="#">LOA Application</a> (2010) [pdf]  <a href="#">Issued LOA</a> [pdf]  <a href="#">LOA Application</a>	<a href="#">EA</a> [pdf] [1.6 MB]  <a href="#">FONSI</a> [pdf]	<a href="#">Federal Register notice and Request for comments</a> [pdf]  <a href="#">Proposed Monitoring Plan</a>

	(2008) [pdf] [2.0 MB]		[pdf] [1.0 MB]
<b>2008 VAFB Space Launch Vehicle and Missile Operations</b>	<a href="#">Issued LOA (2011)</a> [pdf] [3.0 MB]  <a href="#">Issued LOA (2010)</a> [pdf] [1.0 MB]  <a href="#">Issued LOA (2009)</a> [pdf]  <a href="#">LOA Application</a> [pdf]	<a href="#">Final EA</a> [pdf]  <a href="#">FONSI</a> [pdf]	<a href="#">2011 Annual Report</a> [pdf]  <a href="#">2010 Annual Report</a> [pdf] [1.1 MB]  <a href="#">2009 Annual Report</a> [pdf]  <a href="#">Final Rule</a> [pdf]
<b>2008-12 Navy Cherry Point (CHPT) Range Complex Mission Activities</b>	<a href="#">2012 Renewal Application</a> [pdf]  <a href="#">2011 Proposed Modification to LOA</a> [pdf]  <a href="#">2011 LOA Issued</a> [pdf]  <a href="#">2011 Renewal Application</a> [pdf]  <a href="#">2010 LOA</a> [pdf]  <a href="#">2009 LOA</a> [pdf]  <a href="#">LOA Application</a> [pdf] [1.4 MB]  <a href="#">Addendum to LOA Request</a> [pdf]		<a href="#">2011 Monitoring Report (East Coast and Gulf Range Complexes)</a> [pdf] [6.3 MB]  <a href="#">2011 Exercise Report (East Coast and Gulf Range Complexes)</a> [pdf]  <a href="#">Federal Register Notice of Proposed Modification to LOA</a> [pdf]  <a href="#">Federal Register Notice of Issuance of LOA</a> [pdf]  <a href="#">2010 Monitoring Report</a> [pdf] [5.8 MB]  <a href="#">2010 Exercise Report</a> [pdf]  <a href="#">2009 Monitoring Report</a> [pdf] [1.5 MB]  <a href="#">2009 Exercise Report</a> [pdf]  <a href="#">Final Rule (FRN)</a> [pdf]  <a href="#">Monitoring Plan</a> [pdf]



<b>2008 Navy's Request for the Keyport Range Complex Expansion and Activities</b>	<a href="#">LOA Renewal Request 2012</a> [pdf]  <a href="#">2011 LOA</a> [pdf]  <a href="#">LOA Addendum</a> [pdf]  <a href="#">2008LOA</a> [pdf] [5.5 MB]		<a href="#">2011 Monitoring Report</a> [pdf]  <a href="#">2011 Exercise Report</a> [pdf]  <a href="#">Final Rule</a> [pdf]  <a href="#">Proposed Rule</a> [pdf] [1.1 MB]  <a href="#">Federal Register notice of request</a> [pdf]
<b>2008 Shell Seismic-Alaskan Arctic</b>	<a href="#">IHA</a> [pdf] [1.8 MB]	<a href="#">SEA</a> [pdf]	<a href="#">90-Day Report</a> [pdf] [10.6 MB]  <a href="#">Appendices to 90-Day Report</a> [pdf] [7.3 MB]
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<b>2008 ConocoPhillips Alaska Inc. Shallow Hazard and Site Clearance Surveys in Chukchi Sea, AK</b>	<a href="#">IHA</a> [pdf]	<a href="#">SEA</a> [pdf]	<a href="#">90-day Report (Revised March 2009)</a> [pdf] [1.2 MB]  <a href="#">Federal Register notice</a> [pdf]
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