

ALEUTIANS SUBAREA CONTINGENCY PLAN

POTENTIAL PLACES OF REFUGE SECTION

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POTENTIAL PLACES OF REFUGE: PART ONE – INTRODUCTION

Purpose and Scope

This Potential Places of Refuge (PPOR) section supplements information found elsewhere in the Aleutian Subarea Contingency Plan for Oil and Hazardous Substances Spills and Releases, commonly referred to as the Aleutian Subarea Contingency Plan (SCP). Information about sensitive areas associated with PPOR may be found in the Sensitive Areas - Section D of the SCP. Information about response strategies to protect sensitive areas and areas of public concern associated with PPOR may be found in the Geographic Response Strategies – Section G of the SCP.

A “place of refuge” is defined as a location where a vessel needing assistance can be temporarily moved to, and where actions can then be taken to stabilize the vessel, protect human life, reduce a hazard to navigation, and/or protect sensitive natural resources and other uses of the area (e.g., subsistence collection of mussels, commercial fishing, recreational boating). A place of refuge may include constructed harbors, ports, natural embayments, potential grounding sites, or offshore waters. This section identifies potential docking, anchoring, mooring, and grounding locations that may be selected as Places of Refuge in the Aleutian Subarea. Actual designation of a Place of Refuge will always be an incident-specific decision made by the U.S. Coast Guard Captain of the Port for Western Alaska.

The Aleutian Subarea has many miles of environmentally sensitive coastline. In addition to sensitive shoreline habitats such as marshes, sheltered tidal flats, and exposed tidal flats, Aleutian supports a number of sensitive biological resources including birds, fish and shellfish, and marine mammals. Additional information about identification of sensitive areas and resources may be found in Section D of the SCP. Additional information about protection of sensitive areas may be found in Section G of the SCP.

The Aleutian Subarea lands are managed under a variety of land use management plans including;

- Comprehensive Conservation Plan for the Alaska Maritime National Wildlife Refuge, 1988
- Aleutian East Borough Coastal Management Plan, June, 2005.
- Bristol Bay Area Plan, Alaska Department of Natural Resources, April, 2005

The Aleutian Subarea is also widely used for marine commerce. Oil tanker vessels, log transport ships, fuel barges, freighters, container ships, ferries, and cruise ships make routine stops at Aleutian ports. Also, commercial fishing boats, sport fishing charter boats, and privately-owned vessels regularly use local harbors and docks.

There is no perfect docking, mooring, anchoring, or grounding site for all vessels in all situations. Deep draft vessels, such as oil tankers and cruise ships, cannot be taken to certain locations. Some ports may have shallow approaches or small bays, and deep draft ships cannot enter these locations.

However, shallow draft vessels, such as fishing vessels and charter vessels, may be able to utilize these shallower ports. For the purposes of this section, vessels have been divided into three categories: deep draft, light draft and shallow draft.

Deep Draft Vessels are vessels that exceed 20,000 Gross Tons. These vessels have drafts of 25 to 60 feet and range in size from 450 to 1,000 feet long. Cruise ships and container ships and tank vessels are the predominant deep draft vessels operating in the Aleutian Subarea.

Light Draft II Vessels are vessels of 10,000 to 19,999 Gross Tons. These vessels have drafts of up to 25 feet and range in size from 350 to 450 feet in length. Freighters, ferries, small cruise ships are the most common light draft vessels operating in the Aleutian Subarea.

Light Draft Vessels are vessels of 300 to 9,999 Gross Tons. These vessels have drafts of up to 25 feet and range in size from 200 to 350 feet in length. Catcher-processors, fishing vessels, local freighters, ferries, are the most common light draft vessels operating in the Aleutian Subarea.

Shallow Draft Vessels are less than 300 Gross Tons, generally draw less than 15 feet and are less than 200 feet in length. Fishing vessels, fishing tenders, tour boats, and pleasure craft make up the majority of the shallow draft vessels operating in the Aleutian Subarea.

The information in this section may be used for a vessel of any size that has suffered an incident that creates need for a temporary place of safe refuge, but it is focused on deep draft and light draft size vessels, since there are more potential places of refuge for shallow draft vessels. Some potential places of refuge appropriate only for shallow draft vessels are designated, however many more potential places of refuge for shallow draft vessels exist in the Aleutian Subarea.

How the Document Was Developed

This section was developed in 2007 by a Work Group of interested and knowledgeable stakeholders in keeping with the Alaska Regional Response Team's "Guidelines for Places of Refuge Decision-Making," (Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases, Annex O). The Work Group arrived at a consensus on the potential places of refuge and submitted this document to the Subarea Committee for approval and inclusion in the Aleutian Subarea Contingency Plan. The Work Group participants represented the following organizations:

- Alaska Department of Environmental Conservation
- Alaska Department of Natural Resources
- Alaska Department of Fish and Game
- Alaska Marine Pilots
- Aleutian East Borough
- Aleut Marine Mammal Commission
- City of Unalaska
- City of Akutan
- Crowley Maritime Corporation
- Magone Marine Services
- U.S. Coast Guard, Sector Anchorage
- U.S. Department of the Interior – Office of Environmental Policy and Compliance,
Fish and Wildlife Service

The first step of the PPOR process was to identify candidate sites (anchorage, moorings, docks/piers, and potential grounding sites) within the Aleutian Subarea. The Workgroup began by researching available information to determine major risk factors in the Aleutian Subarea. Maps were developed, depicting the following risk and logistical information:

- Locations of community logistics (Figure H-1);
- Locations of spill response hubs and equipment depots (Figure H-2);
- Locations of bulk fuel facilities (Figure H-3);
- Locations of major spill events (Figure H-4);
- Locations of fishing grounds and tramper activities (Figure H-5);
- Locations of non-crude carrier routes (Figure H-6);
- Primary traffic routes for State ferries and cruise ships (Figure H-7).

The second step was to identify the total of 80 PPOR within the Aleutian Subarea. A site assessment matrix (Table H-2) and key (Table H-1) was developed. This matrix consists of identified sites in each row with information about risk factors and site selection criteria in the columns. The information presented for each site includes:

- PPOR identification;
- Name;
- Location;
- Maximum vessel size;
- Swing room or dock face length;
- Bottom type;
- Exposure/protection;
- Conflicting uses;
- Sensitive resources;
- Response options;
- Distance to population centers; and
- Distance to alternate PPOR.

PPOR identification method consists of a number which is a unique site identifier with no importance attached to the magnitude of the number. The letter which follows indicates the appropriate size vessel for the site. "D" will correspond to deep draft vessels, "LII" is for larger light draft, "LI" is for smaller light draft and "S" is shallow draft vessels.

The site assessment matrix contains potentially suitable emergency anchorage and docking locations based on operational factors such as water depth, swing room, exposure/protection, and navigational approach. Sites are grouped by the maximum vessel size category suitable for the site. The PPOR sites identified for shallow draft vessels should only be considered a partial list as there are many suitable sites available in the Aleutian Subarea for the shallow draft vessel category (less than 300 gross tons).

Step 3 was to identify specific factors that should be considered as part of the site assessment process. These factors include:

- Distance from population and logistics centers;
- Proximity to environmentally sensitive areas, wildlife resources, threatened or endangered species or habitats, and/or historic properties;
- Uses, such as fisheries, mariculture sites, tourism and recreational use, subsistence use, and the location of public or private facilities;
- Response factors such as booming feasibility and the proximity to existing Geographic Response Strategy (GRS) sites; and
- The distance from the closest alternative PPOR.

Figure H-8 is a composite map of all PPOR and risk factors combined.

How to Use the Potential Places of Refuge Section

The "Guidelines for Places of Refuge Decision-Making" (Annex O of the Unified Plan) will be used for places of refuge decision-making in the Aleutian Subarea. As outlined in the guidelines, when the U.S. Captain of the Port (COTP) receives a request from a vessel master or his/her representative to move a vessel to a place of refuge--or in the event there are no individuals on board the vessel authorized to make the request, or the vessel has been abandoned and the COTP needs to consider moving the vessel to a place of refuge--the COTP will initiate the decision-making process in Appendix 1 of Annex O. As outlined in Steps 2 and 3 in Appendix 1, if the COTP/ Unified Command determines that places of refuge should be considered for an incident-specific response, the information in the Aleutian PPOR document may be used to provide background

information to help expedite the incident-specific place of refuge decision. The steps of the decision-making process are summarized as:

1. Place of refuge assistance requested,
2. Immediate action required by COTP,
3. COTP/Unified Command evaluates vessel options,
4. COTP/Unified Command selects vessel option,
5. COTP/Unified Command evaluates potential places of refuge based on operational criteria,
6. COTP/Unified Command selects potential places of refuge based on operational criteria,
7. Stakeholders provided with places of refuge options,
8. Stakeholders provide ranking of places of refuge options,
9. COTP/Unified Command selects places of refuge, and
10. COTP/Unified Command prepares documentation of decision.

The information provided in this document should help decision-making by providing site-specific information to the COTP/Unified Command.

Part Two of this document contains site-specific information for some of the PPOR in the Aleutian Subarea. An index map (Figure H-9) at the beginning of this section shows the location of the PPOR maps. Each PPOR map consists of two parts: 1) a map page showing a locator map, picture, and detailed nautical charts; and 2) a table page providing site information and local site conditions. All geographic data was collected using Mercator Projection, North American Datum 1983.

Who to Contact for Input

Comments and recommendations on these PPOR are welcomed. Please send your comments to either of the following agencies:

Alaska Department of Environmental Conservation
Prevention and Emergency Response Program
555 Cordova Street
Anchorage, AK 99501

United States Coast Guard
Captain of the Port, Western Alaska
510 L Street, #100
Anchorage, Alaska, 99501

For complete information on the Aleutians Potential Places of Refuge, please visit the following website: <http://www.dec.state.ak.us/spar/perp/aippor/home.htm>

Individual files and maps can be accessed as follows:

Site Assessment Matrix: <http://www.dec.state.ak.us/spar/perp/aippor/aleutiansPPORsam.pdf>

Site Assessment Matrix Key: <http://www.dec.state.ak.us/spar/perp/aippor/aleutiansSAMKEY.pdf>

Aleutian Subarea Risk Maps: <http://www.dec.state.ak.us/spar/perp/aippor/airiskmap.pdf>

Aleutians PPOR Index Map <http://www.dec.state.ak.us/spar/perp/aippor/070716Aipporindexmap.pdf>

Individual PPOR Maps:

PPOR Map 1: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap01.pdf>

PPOR Map 2: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap02.pdf>

PPOR Map 3: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap03.pdf>

PPOR Map 4: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap04.pdf>

PPOR Map 5: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap05.pdf>

PPOR Map 6: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap06.pdf>

PPOR Map 7: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap07.pdf>

PPOR Map 8: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap08.pdf>

PPOR Map 9: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap09.pdf>

PPOR Map 10: <http://www.dec.state.ak.us/spar/perp/aippor/aippormap10.pdf>

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