

**Alaska Marine Highway System - Ferry Vessel  
Refurbishment**

**FY2013 Request: \$15,000,000  
Reference No: 40380**

**AP/AL:** Allocation

**Project Type:** Renewal and Replacement

**Category:** Transportation

**Location:** Statewide

**House District:** Statewide (HD 1-40)

**Impact House District:** Statewide (HD 1-40)

**Contact:** Mike Neussl

**Estimated Project Dates:** 07/01/2012 - 06/30/2019

**Contact Phone:** (907)465-6977

**Appropriation:** Surface Transportation Program

**Brief Summary and Statement of Need:**

This project will provide ferry refurbishment, meet regulatory requirements, and refurbish components on ferries as identified in the annual Alaska Marine Highway System (AMHS) Fleet Condition Survey Report.

| <b>Funding:</b> | <b>FY2013</b> | <b>FY2014</b> | <b>FY2015</b> | <b>FY2016</b> | <b>FY2017</b> | <b>FY2018</b> | <b>Total</b> |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| Fed Rcpts       | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$90,000,000 |
| Total:          | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$15,000,000  | \$90,000,000 |

|  |   |   |  |  |
|--|---|---|--|--|
| <input checked="" type="checkbox"/> State Match Required | <input type="checkbox"/> One-Time Project | <input type="checkbox"/> Phased - new       | <input type="checkbox"/> Phased - underway | <input checked="" type="checkbox"/> On-Going |
| 20% = Minimum State Match % Required                     | <input type="checkbox"/> Amendment        | <input type="checkbox"/> Mental Health Bill |  |  |

**Operating & Maintenance Costs:**

|                      | <u>Amount</u> | <u>Staff</u> |
|----------------------|---------------|--------------|
| Project Development: | 0             | 0            |
| Ongoing Operating:   | 0             | 0            |
| One-Time Startup:    | 0             |              |
| Totals:              | 0             | 0            |

**Additional Information / Prior Funding History:**

\$15,000,000 - Ch 5 FSSLA 2011 Sec 1 Pg 109 Ln 12; \$20,000,000 - Ch 43 SLA 2010 Sec 7 pg 43 Ln 27; \$18,000,000 - Ch 15 SLA 2009 Sec 1 pg 30 Ln 3; \$17,500,000 - Ch 29 SLA 2008 Sec 13 pg 167 Ln 9; \$25,000,000 - Ch 30 SLA 2007 Sec 4 pg 111 Ln 10; \$3,500,000 - Ch 82 SLA 2006 Sec 1 pg 94 Ln 8; \$28,500,000 - Ch 3 FSSLA 2005 Sec 1 pg 77 Ln 9.

**Project Description/Justification:**

Funding refurbishment of the existing AMHS ferry fleet is critical to maintaining a reliable and efficient transportation system serving traffic between Bellingham throughout Southeastern Alaska, across the Gulf of Alaska to Kodiak and the communities out the Aleutian Chain. This funding will support a continuing refurbishment program to enable these vessels to continue to serve over the next five to ten years. Each vessel's propulsion, electrical, plumbing, sewage treatment, ventilation and communication systems and the crew and passenger lounges, dining rooms, cafeterias, hotel facilities, hull and components in general are all in various states of deterioration and in need of refurbishment. Other improvements relate to meeting regulatory requirements mandated by the U.S. Coast Guard and the Transportation Security Administration. This funding allows the AMHS to implement a periodic refurbishment of those components on each ferry most in need of refurbishment and equipment installations on a priority basis to provide for safe, reliable and comfortable service. Refurbishment and regulatory needs exceed the funding requested; however, this request will address the most urgent needs.

**Current Projects include:**

State of Alaska Capital Project Summary  
FY2013 Governor  
12/15/11 1:27:51 PM

Department of Transportation/Public Facilities  
Reference No: 40380  
Released December 15th, 2011

### **M/V Aurora**

Refurbish accommodation and machinery spaces: main engine refurbish/ major overhaul: mechanical and electrical systems upgrades; preservation of exterior and interior structure; deck equipment; renovation of crew accommodation spaces; public space upgrades; upgrades as recommended in the 2010 vessel condition survey, the ABS current and future survey status; the Coast Guard inspection status and compliance with existing and pending regulations.

### **AMHS Slide Project**

The project consists of the installation of evacuation slides on the M/V Malaspina, Columbia and Tustumena. The design work will describe the removal and replacement of the existing Marine Evacuation System (MES) including MES frames, liferafts, liferaft racks and frames, and all associated equipment. The design will include details for the installation of a new slide type Marine Evacuation System with evacuation slides, housings, liferafts, liferaft racks and frames and all associated equipment. Specified work will include removal of asbestos containing material, if present.

Upcoming projects currently in the design phase include:

### **AMHS Fleet Electrical Generation Upgrades**

The purpose of this project is to verify the physical condition of the fleet's power generation and distribution systems from the generators to the motor controllers. Information from the Fleet Condition Survey, independent reports as well as on board inspections will be utilized. This project includes identifying any abnormal physical or operating conditions or practices that require alterations/modifications. The outcome of the project will be to correct these conditions with alterations/modifications performed in accordance with the applicable regulatory requirements and or AMHS operational procedures.

### **M/V Tustumena Refurbishment**

Upgrades and renovations to the following systems: EOS, Bridge Wing Stands and Controls, Mechanical Rooms, crew and passenger space, steering pumps, elevator, MSD components, refrigeration, HVAC, Tanks and voids, exterior and interior coatings, car deck doors, crew spaces, passenger spaces, crew space fire screen doors, security camera equipment relocation, galley refurbishment, 1st aid Sat phone, Doppler Speed Log, Bridge Space, Life boat and raft, anchor windless, vessel drawings/records, safety placards, stateroom refurbishment, vehicle lift, ADA upgrades, IT upgrades. Stability assessment; sea trials, State Funded Annual Overhaul work and dry docking.

### **M/V Malaspina Refurbishment**

EOS, Engine Room Alarms, Crew and Passenger Spaces, Anchor Windlass, Car Deck Doors, Passenger and Dumbwaiter Elevators, BT and BT Space, ADA, Piping, Fire Suppression System, Safety Placards, Pass Evac, Pollution Control, Tank-void blast and coatings, Hull Blast and Coatings, Window Steel, IT upgrades, Vessel Drawings, HVAC System, Boiler, Heaters, 1st Aid Satellite Phone, CPP, Fairlead and Spring Station Steel, Stability Assessment: Sea trials; State Funded Annual Overhaul work and dry docking.

This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.