Alaska Marine Highway System - Vessel and Terminal FY2013 Request: \$10,000,000 Overhaul and Rehabilitation Reference No: 30624

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: Michael A. Neussl Estimated Project Dates: 07/01/2012 - 06/30/2017 Contact Phone: (907)465-6977

Appropriation: Asset Management

Brief Summary and Statement of Need:

The Alaska Marine Highway System (AMHS) requires annual maintenance and overhaul on vessels and at terminals, particularly component or system failures which will impact service in the short term. Annual overhaul of vessels is necessary to pass United States Coast Guard (USGS) inspections and obtain a Certificate of Inspection necessary to operate.

Funding:	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Gen Fund	\$10,000,000	\$17,705,800	\$18,414,000	\$19,150,600	\$19,916,600	\$20,660,000	\$105,847,000
Total:	\$10,000,000	\$17,705,800	\$18,414,000	\$19,150,600	\$19,916,600	\$20,660,000	\$105,847,000
☐ State Match Required ☐ One-Time Project ☐ Phased - new ☐ Phased - underway ☑ On-Going						n-Going	

0% = Minimum State Match % Required	☐ Amendment	☐ Mental Health Bill		
Operating & Maintenance Costs:	Project Development:	Amount 0	Staff 0	

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

Additional Information / Prior Funding History:

\$8,000,000 Ch 5 FSSLA 2011 Sec1 pg 99 In 21(RefNum 50745); \$12,000,000 Ch 43 SLA 2010 Sec 1 pg 3 In 19, Sec 7 pg 35 In 27; \$6,702,100 Ch 15 SLA 2009 Sec 1 pg 21 In 17, Sec 10 pg 59 In 3; \$9,900,000 Ch 29 SLA 2008 Sec 13 pg 158 In 17; \$15,388,500 Ch 30 SLA 2007 Sec 1 pg 78 In 14, Sec 20 pg 151 In 3; \$6,000,000 Ch 82 SLA 2006 Sec 1 pg 84 In 4; \$5,000,000 Ch 3 SLA 2005 Sec 1 pg 66 In 7; \$4,063,000 FY2005; \$4,900,300 FY2004; FY2003 - \$5,000,000; FY2002 - \$4,239,365; FY2001 - \$4,200,000; FY2000 - \$4,390,600;

Project Description/Justification:

The FY13 Alaska Marine Highway System (AMHS) Vessel and Terminal Overhaul and Rehabilitation request will fund:

Vessel Overhaul and Rehabilitation Projects-

This request funds numerous recurring maintenance tasks and improvements to the vessels. The majority of the funds requested are spent in Alaska shipyards and with Alaska suppliers and vendors.

Overhaul work consists of inspection, repair, and maintenance that cannot be performed while the vessels are operating. An overhaul period of approximately six weeks is set aside every year during which each ship is in dry-dock and the scheduled work is accomplished. This work is performed in Alaskan shipyards unless it is made part of a Federal Highway Administration project competitively awarded to an out-of-state shipyard. In performing overhaul work, the Alaska Marine Highway State of Alaska Capital Project Summary

Department of Transportation/Public Facilities

FY2013 Governor

Reference No: 30624 Released December 15th, 2011

Alaska Marine Highway System - Vessel and Terminal Overhaul and Rehabilitation

FY2013 Request: Reference No:

\$10,000,000 30624

System must meet the inspection requirements and standards of safety and seaworthiness of two agencies, the American Bureau of Shipping (ABS) and the United States Coast Guard (USCG). None of this work is discretionary. At the end of the overhaul period, the vessel must pass a demanding USCG inspection to obtain a Certificate of Inspection (COI). This certificate is mandatory to operate for the next year.

In addition to the work required by ABS, USCG, and Det Norkse Veritas (DNV) Ship Classification (a system for safeguarding life, property and the environment at sea), AMHS performs work recommended by equipment manufacturers and work that our Port Engineers determine to be sound equipment maintenance practices. AMHS has some discretion about the work that is merely prudent. For example, painting the hull is not required, and AMHS could sail with badly deteriorated paint. However, paint protects the hull from deterioration. In the long term, the value of asset protection greatly outweighs the cost of the painting. In the past few years, we have had to focus overhaul funds on required items and have deferred much of the discretionary work.

Overhaul work is costly. Putting a vessel into dry-dock can cost over \$20,000 base cost plus \$1,000 for each day it remains in dry-dock. Dismantling a main propulsion engine solely to permit ABS inspections requires the work of several skilled engineers for several weeks. These are costs we incur simply to enable inspections to be made and routine maintenance to be done.

In FY2013 AMHS expects to accomplish a number of needed upgrades and equipment purchases including several major propulsion engine overhauls as well as auxiliary engine overhauls. A continuing source of increased costs is maintenance of new systems and equipment (primarily safety related) required to be added to the vessels by the International Maritime Organization's Safety of Life at Sea (SOLAS) regulations and similar U.S. Code of Federal Regulations Subchapter "W" provisions. While federal funds provide the systems and equipment, state CIP funds must be used to maintain them once installed.

AMHS operates steel and aluminum vessels in a hostile, corrosive salt-water environment. AMHS must protect these expensive ships or suffer rapid deterioration of major structural metal and equipment resulting in expensive replacement costs. Ignoring these maintenance and repair requirements will result in failure to maintain ABS classification and failure to pass USCG Certificate of Inspection examinations. Taking vessels out of classification will result in higher annual insurance rates. Without a USCG Certificate of Inspection we cannot sail our vessels and accomplish our mission of providing safe, reliable public transportation. In the past we have often established pools of major main engine components that are economical to rebuild. These were used as ready spares to keep our vessels in service when a casualty occurs. More recently this practice has ceased due to a lack of funds.

Alaska Marine Highway System FY13 Vessel Annual Overhaul Maintenance and Repair Estimate

 M/V Kennicott
 \$750,000

 M/V Columbia
 \$1,100,000

 M/V Matanuska
 \$650,000

 M/V Tustumena
 \$600,000

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M/V LeConte	\$500,000	_
M/V Aurora	\$675,000	
M/V Malaspina	\$675,000	
M/V Lituya	\$450,000	
M/V Fairweather	\$600,000	
M/V Taku	\$600,000	
M/V Chenega	\$450,000	
Travel & Per Diem Expenses	\$325,000	
Various Technical Representatives including ABS Sur	veyors \$400,000	
Parts and Supplies/Discovery	\$1,050,000	
Estimate Subtotal	\$8,825,000	

Terminal Overhaul and Rehabilitation Projects -

Annual maintenance and rehabilitation projects to issue the safe and timely transfer of passengers and vehicles at the 20 state owned and operated terminals within the system. The following projects were identified during routine facilities inspection.

Alaska Marine Highway System FY13 Terminal Maintenance and Repair Estimate

Hoonah, Kake Hydraulic Replacement	\$40,000
Cordova Sidewalk Replacement	\$75,000
Haines Bathroom Rehab/door Replacement	\$150,000
Ketchikan Door Replacement	\$65,000
Ketchikan Heating Ctrl Upgrade	\$125,000
Ketchikan Berth 3 Fender Repair	\$50,000
Bridge Bearing Repairs	\$100,000
Estimate Subtotal	\$605,000

Other Maintenance and Rehabilitation Projects -

Miscellaneous Electronics Replacement - Fleet Electronics Upgrade,

Kennicott CCTV Upgrade, Bridge Navigational Watch Alarm System,

Workstation Replacements, Laptop Replacements, Server Replacements,

Printer Replacements and Switch Replacements

Vessel Equipment Replacement – Crew Emergency Escape

Breathing Devices (EEBD)

Terminal - Telephone System Replacements, Snow Removal Equipment, and Terminal Agent Uniforms

Passenger Services – Automated External Defibrillators (AEDs), Mattress and Linen Replacement (replaced on a cyclic schedule), Carpet Replacement, Vessel Signage, First Aid Room Modifications, Public

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 M/V Columbia

Information Displays, M/V Columbia Public Counter, Remodel M/V Columbia Chief Purser/Chief Steward Office to be ADA compliant, Uniform Replacements and Galley Machinery Replacement Security and Safety – Security Camera Tech Support, Facility Security Drawings Lock Replacement, and Federal Grant Match

Other Maintenance and Rehabilitation Estimate Subtotal: \$570,000

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

Alaska Marine Highway System - Vessel and Terminal FY2012 Request: \$5,455,000 Overhaul and Rehabilitation Reference No: 30624

AP/AL: Appropriation Project Type: Renewal and Replacement

Category: Transportation

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

Impact House District: Statewide (HD 1-40) Contact: Michael A. Neussl Estimated Project Dates: 04/15/2012 - 06/30/2016 Contact Phone: (907)465-6977

Brief Summary and Statement of Need:

The Vessel and Terminal Overhaul and Rehabilitation appropriation is primarily used to meet and maintain United States Coast Guard requirements and obtain Certificates of Inspection (COI) necessary to operate the vessels. This appropriation is also used to maintain the standards of Ferry Terminals and required Passenger Services to keep AMHS functional. This FY2012 Supplemental request adds \$5.4 million. Total spending in FY2012 is slightly higher than previous years due to the one-time \$1.2M propeller shaft strut replacement work required by the Malaspina in order to clear a pending CG-835 No-Sail order which is about to expire

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Funding:	FY2012	FY2013	FY2014	FY2015	FY2016 F	Y2017	Total	
Gen Fund	\$5,455,000						\$5,455,000	
Total:	\$5,455,000	\$0	\$0	\$0	\$0	\$0	\$5,455,000	
☐ State Match	Required	One-Time Project	☐ Phased	- new	☐ Phased - underway	☐ On-	-Going	
0% = Minimum	0% = Minimum State Match % Required		nent	☐ Mental Health Bill				
Operating & Maintenance Costs: Amount Staff								
Project Development:				opment:	0		0	
Ongoing Operating:				erating:	0		0	
One-Time Startup:			Startup:	0				
Totals:				Totals:	0		0	

Additional Information / Prior Funding History:

\$4,000,000 Ch 1 FSSLA 2011 Sec 14 pg 36 In 25; \$8,000,000 Ch 5 SSLA 2011 Sec 1 pg 99 In 21; \$12,000,000 Ch 43 SLA 2010 Sec 1 pg 3 In 19, Sec 7 pg 35 In 27; \$6,702,100 Ch 15 SLA 2009 Sec 1 pg 21 In 17, Sec 10 pg 59 In 3; \$9,900,000 Ch 29 SLA 2008 Sec 13 pg 158 In 17; \$15,388,500 Ch 30 SLA 2007 Sec 1 pg 78 In 14, Sec 20 pg 151 In 3; FY2007 - \$6,000,000; FY2006 - \$5,000,000; FY2005 - \$4,063,000; FY2004 - \$4,900,300; FY2003 - \$5,000,000; FY2002 - \$4,239,365; FY2001 - \$4,200,000; FY2000 - \$4,390,600;

Project Description/Justification:

The Alaska Marine Highway System requires annual maintenance and overhaul on vessels and at terminals, particularly on components or systems where failures will impact service in the short term. Overhaul work consists of inspection, repair, and maintenance that cannot be performed while the vessels are operating. An overhaul period of approximately six weeks is set aside every year during which each ship is in dry-dock and the scheduled work is accomplished. This work is performed in Alaskan shipyards unless it is made part of a Federal Highway Administration project competitively awarded to an out-of-state shipyard. In performing overhaul work, the Alaska Marine Highway System must meet the inspection requirements and standards of safety and seaworthiness of two agencies, the United States Coast Guard (USCG) and the appropriate classification society (American Bureau of Shipping (ABS) for all steel vessels or Det Norske Veritas (DNV) for the State of Alaska Capital Project Summary

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FY2012 Request: \$5,455,000 Reference No: 30624

aluminum FVF vessels). None of this work is discretionary. At the end of the overhaul period, the vessel must pass a demanding USCG inspection to obtain their COI. This certificate is mandatory to continue operating for the following year. Additionally, the ongoing upkeep of terminals and shipboard passenger service items due to wear and tear is necessary to ensure AMHS projects a professional appearance to the traveling public.

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