

Maritime Vessel Simulator Projection System Upgrade**FY2012 Request: \$210,000****Reference No: 51501****AP/AL:** Appropriation**Project Type:** Equipment / Commodities**Category:** Education**Location:** Seward**Contact:** Fred Esposito**House District:** Homer/Seward (HD 35)**Contact Phone:** (907)224-6150**Estimated Project Dates:** 07/01/2011 - 06/30/2016**Brief Summary and Statement of Need:**

Alaska Vocational Technical Center's (AVTEC) maritime vessel simulator was installed in FY2001 with a Coast Guard Class A rating. It uses a projection system with projectors that are no longer supported by the manufacturer, 3D Perceptions. Next year AVTEC's simulator, as it is currently configured, will no longer qualify for a Class A rating. Many maritime classes and maritime industry members use the simulator for training exercises. Through training AVTEC supports the department's mission to advance opportunities for employment.

Funding:	<u>FY2012</u>	<u>FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>Total</u>
Gen Fund	\$210,000						\$210,000
Total:	\$210,000	\$0	\$0	\$0	\$0	\$0	\$210,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = 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:	210,000	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	210,000	0

Additional Information / Prior Funding History:

AVTEC received a \$2,000,000 grant in FY2000 to purchase and install the 3 bridge vessel simulator.

Project Description/Justification:

AVTEC offers maritime training through the Alaska Maritime Training Center. The goal of the Alaska Maritime Training Center is to promote safe and profitable marine operations by effectively preparing captains and crewmembers for employment in the Alaska maritime industry.

The a world-class full-mission vessel simulator, allows students to learn by doing as they are also directed by staff who have extensive backgrounds in the marine and fishing sectors. This simulator was installed in 2001 and still uses a projection system that is no longer supported by the manufacturer, 3D Perception. Technology advances and current software graphics makes this "technologically archaic" projection system less than desirable for training.

Without the vessel simulator projection system upgrade, the simulator will lose its Class A rating. The three Alaska pilots associations, as well as other current and potential Alaskan clients would have to travel to the Lower 48 for training on a Class A simulator.

To maintain the simulator's Class A rating for maritime training, the projection system must be upgraded. The upgraded projection system will allow for new ice simulations, which are critical as

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AVTEC develops new programs to assist simulator customers, including Edison Chouest, working in the offshore development of the North Slope. The ice simulations would also yield an increase in potential simulator clientele. The estimated cost to upgrade the vessel simulator projection system is \$210,000 (\$190,000 for the hardware and \$20,000 for installation and training).