

State of Alaska Telecommunications System (SATS)/Alaska Land Mobile Radio (ALMR) Build Out and Support Projects **FY2008 Request: \$24,117,215**
Reference No: AMD41808

AP/AL: Appropriation **Project Type:** Information Systems

Category: Public Protection

Location: Statewide

Contact: Eric Swanson

House District: Statewide

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Estimated Project Dates: 07/01/2007 - 06/30/2009

Brief Summary and Statement of Need:

This request continues the Alaska Land Mobile Radio (ALMR) build-out and support of the State of Alaska Telecommunications System (SATS) microwave network. This amendment adds State funding to continue the State's responsibility for system build out.

Funding:	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	Total
Fed Rcpts	\$14,117,215						\$14,117,215
Master LOC	\$10,000,000						\$10,000,000
Total:	\$24,117,215	\$0	\$0	\$0	\$0	\$0	\$24,117,215

<input 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
0% = Minimum State Match % Required		<input checked="" 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
<u>One-Time Startup:</u>	<u>0</u>	<u>0</u>
Totals:	0	0

Additional Information / Prior Funding History:

Funding in the amount of \$10,120,000 was appropriated in FY2007; Funding in the amount of \$9,149,000 was appropriated in FY2006 (\$2,744,000 DMVA funding included); Funding in the amount of \$6,050,000 was appropriated in FY2005; Funding in the amount of \$400,000 was appropriated in FY2004; Authorization of \$15,553,600 was appropriated in FY2002; Funding in the amount of \$1,200,000 was appropriated in FY2001.

Project Description/Justification:

Problems To Be Solved: This request includes funding for additional projects that are a continuation of the Alaska Land Mobile Radio (ALMR) build-out and support of the State of Alaska Telecommunications System (SATS) microwave network. Funds will be used to acquire and install equipment for the ALMR system.

- 1) Multiple state agencies currently have a requirement for improved communications in Southeast Alaska. Current infrastructure is antiquated and does not fulfill those needs.
- 2) Currently, the NOAA critical infrastructure near Circle, Alaska, is not compatible with the State's ALMR system.
- 3) ALMR currently has gaps in coverage along the highway system.

Solution: 1) Build sites for additional population centers in Southeast Alaska.

State of Alaska Telecommunications System (SATS)/Alaska Land Mobile Radio (ALMR) Build Out and Support Projects **FY2008 Request: \$24,117,215**
Reference No: AMD41808

2) Provide ALMR interoperable communications for the NOAA critical infrastructure near Circle, Alaska.

3) Build additional ALMR sites to cover gaps in coverage along the highway system.

Benefits:

1 & 2) The state will have capability to provide for a common command and control system for multi-agency responses.

3) The ALMR system along the highway system will not be subjected to gaps in coverage.

What We Propose to Buy:

1, 2 & 3) SATS site equipment including towers, sheds and other equipment needed at a SATS site. In addition, certain existing sites will be upgraded for the ALMR system. We will also need to purchase the ALMR equipment for these sites.

Prior Funding History:

For ALMR \$6,050,000 was appropriated in FY2005 and \$9,149,000 was appropriated in FY2006 (including \$2,744,000 in DMVA's budget) \$10,120,000 IN FY2007.

Timeline:

The timeline to build-out these sites is 24 months. Much of the build-out will occur in the spring and summer months to allow easier access due to weather conditions.

Explanation of How Project Contributes to Your Divisional Mission:

These projects are associated with the support of the SATS infrastructure and also to the ALMR project as it relates to SATS. They are a continuation and migration of the State of Alaska's microwave network infrastructure into a more robust and secure environment. Our partnership with the Department of Defense relies on our ability to maintain and operate the SATS infrastructure according to the standards of ALMR. The investment by the State of Alaska into SATS will ensure its viability as a resource for all telecommunications on a state owned network infrastructure.

Explanation of How Project Contributes to End Result:

Financial support to build-out the SATS infrastructure for current and future telecommunications needs of state agencies is vital to its continued existence. These projects are necessary components of our commitment to maintaining and operating a state of the art microwave network that supports our customer base, now to include the Department of Defense and local municipalities as it relates to emergency communications.

State funding is requested to continue the project as follows:

Problem To Be Solved:

Continue build-out and transition of the Alaska Land Mobile Radio Project

Solution:

Reallocate radio frequency spectrum to comply with FCC mandated frequency, extend power to sites, and upgrade system software.

Benefits:

Eliminate radio frequency conflicts, reduce operating costs of fuel and generators for sites without power, replace old equipment to reduce outages, extend radio coverage along Steese Highway, and extend the microwave network to the Kodiak Launch Facility

What We Propose to Buy:

1) Transition of seven microwave hops to FCC mandated frequency

2) Mobile and handheld ALMR radios, installation, and training of a three position dispatch console, design and installation of an in-building amplifier system for the Fairbanks International Airport to eliminate a frequency conflict

3) Power lines and supplies including solar panels and batteries

State of Alaska Telecommunications System (SATS)/Alaska FY2008 Request: \$24,117,215
Land Mobile Radio (ALMR) Build Out and Support Projects Reference No: AMD41808

- 4) Radio equipment to resolve frequent conflicts for Department of Corrections
- 5) Replace 15 year old microwave radios with new equipment in Juneau
- 6) Upgrade ALMR system software
- 7) Additional of two new ALMR sites along Steese Hwy
- 8) Extend microwave network to Kodiak Launch Facility

Prior Funding History: For ALMR \$6,050,000 was appropriated in FY2005 and \$9,149,000 was appropriated in FY2006 (including \$2,744,000 in DMVA's budget) \$10,120,000 IN FY2007.

Timeline: 12-24 months

Explanation of How Project Contributes to Your Divisional Mission: ETS is responsible for providing and supporting telecommunications needs for state agencies.

Explanation of How Project Contributes to End Result: Expand and improve State telecommunications infrastructure that benefits multiple agencies.