

**Delete: State of Alaska Telecommunication System
Deferred Maintenance**

**FY2011 Request: \$0
Reference No: AMD 49387**

AP/AL: Allocation **Project Type:** Deferred Maintenance
Category: General Government
Location: Statewide **Contact:** Eric Swanson
House District: Statewide (HD 1-40) **Contact Phone:** (907)465-5655
Estimated Project Dates: 07/01/2010 - 06/30/2015
Appropriation: Delete: Statewide Deferred Maintenance Projects

Brief Summary and Statement of Need:

This project was moved to the Governor's FY2010 Supplemental Deferred Maintenance bill. Enterprise Technology Services (ETS) maintains the State of Alaska Telecommunications System (SATS) which is a network of microwave and 2-way telecommunication sites through out the state which supports day-to-day operations of state agencies and emergency responders state wide. Communication operations supported by SATS include: telephone, computer wide area networks (WAN), 2-way radio, paging, video conferencing, Alaska rural communication system, and others. The infrastructure is in need of extensive maintenance and repair work.

Funding:	<u>FY2011</u>	<u>FY2012</u>	<u>FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>Total</u>
Gen Fund		\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000
Total:	\$0	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input checked="" type="checkbox"/> Phased - underway	<input 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
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

\$1.5 million was appropriated for SATS maintenance in FY2006. \$2.7 million for SATS deferred maintenance was appropriated in FY2003.

Project Description/Justification:

Enterprise Technology Services (ETS) maintains the State of Alaska Telecommunications System (SATS) which is a network of microwave and 2-way telecommunication sites through out the state which supports day-to-day operations of state agencies and emergency responders state wide. Communication operations supported by SATS include: telephone, computer wide area networks (WAN), 2-way radio, paging, video conferencing, Alaska rural communication system, and others.

The daily reliability of the system, after years of deferred maintenance, has reached a point of regular and sustained periods of inoperability. The SATS network has degenerated into a "break and fix" state of reliability. The SATS system is at constant risk of failure and requires an immediate focus on deferred critical system upgrades and repairs. In addition, the SATS system has equipment that by FCC mandates must be upgraded within the next two years.

If the system were to experience the kind of failure that is now very possible, given its current condition, telephone and e-mail communication would be impacted and could very likely fail. Total system failure is a very real possibility.

Examples of known critical deferred maintenance at the 50 most critical microwave transmission sites at an estimated \$10M in costs include:

1. Communication shelter repair (leaks, doors that don't close, ventilation replacement) and shelter replacement.
2. Battery plant replacement (most sites operate on remote power).
3. Generator repair or replacement (generators well beyond useful life).
4. Tower repair (guy wires, foundation erosion, tower sections) and replacement.
5. Microwave dish repair and replacement to allow proper and sustained alignment.
6. Antenna repair and replacement.
7. Replace or install site alarms to permit timely emergency maintenance deployment prior to site failure and outages.
8. Electrical cable repair and replacement.
9. FCC mandated 2 Ghz to 6 Ghz upgrades on 14 of 28 affected sites.