

**State of Alaska Telecommunication System Deferred  
Maintenance year 2 of 5**

**FY2012 Request: \$3,000,000  
Reference No: 49387**

**AP/AL:** Allocation **Project Type:** Deferred Maintenance  
**Category:** General Government  
**Location:** Statewide **Contact:** Cheryl Lowenstein  
**House District:** Statewide (HD 1-40) **Contact Phone:** (907)465-5655  
**Estimated Project Dates:** 07/01/2011 - 06/30/2016  
**Appropriation:** Statewide Deferred Maintenance Projects

**Brief Summary and Statement of Need:**

This request has been amended to adjust the prioritized list of projects. Enterprise Technology Services (ETS) maintains the State of Alaska Telecommunications System (SATS) which is a network of microwave and 2-way telecommunication sites throughout the state which supports day-to-day operations of state agencies and emergency responders statewide. 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.

<b>Funding:</b>	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Gen Fund	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000			\$12,000,000
<b>Total:</b>	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$0	\$12,000,000

<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 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	
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Additional Information / Prior Funding History:**

\$3.0 million, Ch 43, SLA 2010, Sec 4, Ln 20, \$1.5 million was appropriated for SATS maintenance in FY2006. \$2.7 million for SATS deferred maintenance was appropriated in FY2003.

**Project Description/Justification:**

Priorities and cost estimates may need to be changed to accommodate emergency maintenance projects not listed, actual project costs, and other considerations.

Enterprise Technology Services (ETS) maintains the State of Alaska Telecommunications System (SATS), a network of sites throughout the state supporting day-to-day operations of state agencies and emergency first-responders statewide. Communication operations supported by SATS include: telephone portions of the computer-wide area networks (WAN), 2-way radio, paging, video conferencing, Alaska Rural Communication System (ARCS), and others.

The daily reliability of the system has reached a point, after years of deferring maintenance, of regular and sustained periods of inoperability. The SATS network has degenerated into a "break and fix" state of unreliable operation.

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Our current situation does not fulfill the requirements of Alaska Statutes and other agreements to maintain a viable telecommunications system. The system is at constant risk for failure and requires an immediate focus on deferred critical system upgrades and repairs; as well as, work identified by preventive maintenance inspections (PMI). In addition, the system has equipment that by Federal Communications Commission (FCC) mandates must be upgraded.

This SATS Deferred Maintenance project is a five-year program to fulfill our statutory obligations, Alaska Land Mobile Radio (ALMR) agreements and FCC mandates. The SATS Deferred maintenance program will achieve:

- Continue the required SATS critical upgrades and repairs,
- Continue preventive maintenance inspections identified maintenance, and
- Continue to execute a portion of the required FCC upgrades.

Priorities and costs estimates shown below may need to be changed to accommodate emergency maintenance projects not listed, actual project costs, and other considerations.

Priority	Project Title	Cost	Project Description	Location	House District
1	Money Knob	\$ 195,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Dalton Hwy, N of Fairbanks	6
2	Radio Hill	\$ 240,000	*FCC Mandate Upgrades (2GHz to 6GHz) shelter and electrical repairs, replace batteries and microwave cabling	Dalton Hwy, S of Yukon river	6
3	Seven Mile Camp DOT	\$ 130,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Dalton Hwy, N of Fairbanks	6
4	Seldovia	\$ 195,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Kodiak-Cook Inlet south of Homer	35
5	Shuyak Island	\$ 100,000	*FCC Mandate Upgrades (2GHz to 6GHz); repairs	Kodiak-Cook Inlet shipping lanes	36
6	Mt. Bede	\$ 195,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Kodiak-Cook Inlet south of Homer	35
7	Kitoi	\$ 125,000	Replace old solar panels; *FCC Upgrades (2 to 6GHz)	Kodiak-Cook Inlet south of Homer	35
8	Pillar Mtn	\$ 130,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Kodiak	36
9	Tudor Tower (Mt.Susitna)	\$ 10,000	*FCC Mandate Upgrades (2GHz to 6GHz)	Anchorage	30
10	Black Rapids	\$ 100,000	Replace tower and repair microwave and connect to commercial power	Richardson Hwy, N of Paxson	12
11	Ernestine	\$ 195,000	Install new power line and transformer	Richardson Hwy, N of Valdez	12
13	Trims Passive & Pillsbury	\$ 150,000	Install passive reflector at high site for critical coverage and	Richardson Hwy, N of Paxson	12

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			connectivity along Richardson Highway; then decommission Pillsbury helo site		
14	Canyon Creek	\$ 30,000	Replace failing power system	Alaska Hwy, S of Fairbanks	12
15	Donnelly Dome	\$ 300,000	Install new tower, shelter, microwave and batteries at aging site	Richardson Hwy, S of Delta	6
16	Cathedral Rapids	\$ 25,000	Install security fencing around site	Alaska Hwy, N of Tok	6
17	Homer (HEA)	\$ 35,000	Site grounding, chargers and repairs	Sterling Hwy, Homer	35
18	Nenana	\$ 195,000	Redesign, upgrade tower	Parks Hwy, Nenana	6
19	Cottonwood Creek	\$ 300,000	Replace overloaded tower	Parks Hwy, Wasilla next to PD	14
20	Colorado	\$ 50,000	Decommission site	Parks Hwy, N of Talkeetna	15
21	Juneau equipment alarms	\$ 100,000	10 sites	Juneau	4
22	Statewide multiple sites	\$ 200,000	Stock replenishment of maintenance materials and supplies for repairs	Richardson Hwy & statewide	12
	Total GF	\$3,000,000			

Totals by House District	
House District 4	\$ 100,000
House District 6	\$1,085,000
House District 12	\$ 675,000
House District 14	\$ 300,000
House District 15	\$ 50,000
House District 30	\$ 10,000
House District 35	\$ 550,000
House District 36	\$ 230,000
	\$3,000,000