

**State of Alaska Telecommunications System (SATS)
Deferred Maintenance, Year 3 of 5**

**FY2013 Request: \$3,000,000
Reference No: 54183**

AP/AL: Allocation **Project Type:** Deferred Maintenance
Category: General Government
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Cheryl Lowenstein
Estimated Project Dates: 07/01/2012 - 06/30/2017 **Contact Phone:** (907)465-5655
Appropriation: Deferred Maintenance, Renewal, Repair and Equipment

Brief Summary and Statement of Need:

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.

Funding:	<u>FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>Total</u>
Gen Fund	\$3,000,000	\$3,000,000	\$3,000,000				\$9,000,000
Total:	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$0	\$0	\$9,000,000

<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 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:

\$3,000,000 Ch 43 SLA 10 Sec 4 pg 9 ln 20-23
 \$3,000,000 Ch 5 FSSLA 11 Sec 1 pg 3 ln 25-28

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.

Priority	Project Title	Cost	Project Description	Location	House District
1	LaTouche Island	60,000	Shelter and electrical repairs and battery plant replacement	Prince William Sound	5
2	Naked Island	60,000	Shelter and electrical repairs and battery plant replacement	Prince William Sound	5
3	Naknek	60,000	Shelter and electrical repairs and battery plant replacement	Naknek	37
4	Mine Mtn.	60,000	Shelter and electrical repairs and battery plant replacement	"White Pass Rd.", N of Skagway	5
5	Willow Mtn.	120,000	Shelter repairs, replace electrical wiring and network routers and equipment, repair microwave cabling	Richardson Hwy, N of Valdez	12
6	Wolcott Mt.	245,000	New shelter, replace battery plant, overhaul generator, replace electrical wiring	Seward Hwy, N of Seward	35
7	Mt. Fairplay	60,000	Shelter and electrical repairs and battery plant replacement	Taylor Hwy, N of Tok	6
8	Murphy Dome	60,000	Shelter and electrical repairs and battery plant replacement	NW of Fairbanks	7
9	Nuka Glacier	60,000	Shelter and electrical repairs and battery plant replacement	East of Homer	35
10	Cooper Mountain	75,000	Replace network router and equipment, install	Sterling Hwy, near Cooper Landing	35

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			remote site maintenance alarms, replace microwave cabling		
11	Diamond Ridge	85,000	Shelter repairs and battery plant replacement	Sterling Hwy, E of Homer	35
12	Government Peak	85,000	Shelter repairs, electrical wiring upgrades and battery plant replacement	Parks Hwy, N of Wasilla	14
13	Yanert	60,000	Shelter and electrical repairs and battery plant replacement	Parks Hwy, N of Denali	8
14	Girdwood	46,000	Construct platform decking for access safety; replace slack guy wires and anchors for tower	Seward Hwy, S of Anchorage	32
15	Tazlina Camp DOT	125,000	Replace aging spread spectrum to stabilize connectivity.	Richardson Hwy, S of Glennallen	6
16	Juneau Capitol Bldg.	120,000	Replace aging tower and microwave cabling	Juneau	3
17	Anchor River	75,000	Tower foundation and guy wire repairs due to major erosion	Sterling Hwy, S of Soldotna	15
18	Curry	135,000	Relocate microwave equipment from aging Gold Creek site and eliminate Gold Creek helo site	Parks Hwy, N of Talkeetna	15
19	Miami Lake	45,000	Replace microwave equipment	Parks Hwy, N of Talkeetna	15
20	Fairbanks DNR	225,000	Tower extension and support upgrades for overloaded tower	Fairbanks	8
21	Trims	150,000	Replace shelter and tower upgrades to handle overload of equipment	Richardson Hwy,	12
22	Dillingham	100,000	Shelter repairs and major tower repairs	Wood River Rd., Dillingham	37
23	Paxson	219,000	Replace shelter and generator and microwave cabling	Richardson Hwy, Paxson	12
24	Seward	55,000	Microwave cabling and radio replacement	Seward	35

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25	Moose Pass	60,000	Replace microwave radios and cabling	Seward Hwy, N of Seward	35
26	Silvertip	120,000	Replace shelter, replace microwave cabling	Seward Hwy, Turnagain Pass	32
27	Bold Ridge	85,000	Repair shelter leaks, overhaul backup generator and repair solar panel array	Parks Hwy, N of Wasilla	14
28	Independent Ridge	125,000	Remove generator and solar power equipment for re-deployment	Alaska Hwy, NW of Tok	6
29	Rugged Island	65,000	Shelter and electrical repairs and Install narrow band repeater	Gulf of Alaska, S of Seward	35
30	Chena Dome	65,000	Shelter repairs and overhaul generator	Chena Rd., E of Fairbanks	7
31	Denali Park	60,000	Shelter and electrical repairs and battery plant replacement	Parks Hwy, Denali National Park	8
32	Douglas (Hatcher Pass)	35,000	Shelter repairs and replace electrical wiring	Parks Hwy, Hatcher Pass Rd.	15
Total GF		3,000,000			