

**State of Alaska Telecommunications System (SATS)
Deferred Maintenance, Year 4 of 5**

**FY2014 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: 07/01/2013 - 06/30/2018 **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>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>Total</u>
Gen Fund	\$3,000,000	\$3,000,000					\$6,000,000
Total:	\$3,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$6,000,000

<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>	0	
Totals:	0	0

Prior Funding History / Additional Information:

Sec1 Ch17 SLA2012 P4 L3 SB 160 \$3,000,000
 Sec1 Ch5 SLA2011 P3 L25 SB 46 \$3,000,000
 Sec4 Ch43 SLA2010 P9 L20 SB 230 \$3,000,000

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.

The current situation does not fulfill the requirements of Alaska Statutes or 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.

Dept. Priority	Project Title	Project Cost	Project Description	Location	House District
Year 4 - FY2014					
1	Fairbanks Regional Office Building	256.0	Microwave, cabling, completion of m/w ring	Fairbanks	1-5
2	Hope	55.0	Shelter repairs and electrical upgrades	Kenai Peninsula, Hope Cutoff Rd.	28-30
3	Lions Head	75.0	Shelter repairs and replace electrical wiring	Glenn Hwy, NE of Palmer	8
4	Ski Hill	75.0	Shelter repairs, microwave cabling and antennae replacement	Sterling Hwy, SW of Sterling	28
5	Sterling	70.0	Shelter and electrical repairs and battery plant replacement	Sterling Hwy, E of Soldotna	28
6	Summit Lake	120.0	Replace generator and battery plant	Seward Hwy, Summit Lake	28
7	Cordova DPS/FWP	95.0	Replace shelter and network equipment	Cordova	35
8	Slana Camp	70.0	Shelter and electrical repairs and battery plant replacement	Tok Cutoff Rd., near middle	39
9	Tahneta Pass	70.0	Shelter and electrical	Glenn	6

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			repairs and battery plant replacement	Hwy, SW of Glennallen	
10	Tolsona	70.0	Shelter and electrical repairs and battery plant replacement	Glenn Hwy, SW of Glennallen	6
11	Juneau DOL, Juneau Low path realignment	135.0	Remove infrastructure from DOL building in Juneau, change ring path	Juneau	31-32
12	System wide alarming	345.0	Critical maintenance related to system outages and alarms	Statewide	Multiple
13	Beaver Creek	55.0	Tower damage, old shelter removal	Alaska Hwy, near border	39
14	Independent Ridge	65.0	Shelter repairs, old shelter removal	Alaska Hwy, NW of Tok	39
15	DACS equipment replacement	550.0	Replace aging DACS hardware	Statewide	Multiple
16	Ester Dome	34.0	Shelter, electrical and grounding	Fairbanks	1-5
17	Lena Point	53.0	Shelter, electrical and grounding	Juneau	31-32
18	Money Knob	25.0	Shelter, electrical and grounding	Livengood, Dalton Highway	39
19	Cathedral Rapids	30.0	Shelter, electrical and grounding	NW of Tok, Alaska highway	39
20	Tsina	64.0	Shelter and electrical repairs, generator and battery plant replacement	NE of Valdez	6

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21	Site Summit	124.0	Microwave replacement, cabling, tower repair	Eagle River	2
22	Pillar Mountain	55.0	Cooling and electrical upgrades	Kodiak	1
23	Hurricane	66.0	Shelter and electrical repairs, generator and battery plant replacement	Parks highway N of Talkeetna	7
24	Honolulu	70.0	Cooling and electrical upgrades	Parks highway N of Talkeetna	7
25	Canyon Creek	95.0	Cooling and electrical upgrades	SE of Fairbanks on Richardson Hwy	1-5
26	Rabbit Creek	70.0	Shelter and electrical repairs, generator and battery plant replacement	South of Eagle River	2
27	Tudor Road	25.0	Rectifier replacement	Anchorage	11-27
28	Cottonwood	83.0	Electrical upgrades	Wasilla	9
29	Alcantra	100.0	Electrical, shelter, tower changes to reduce overloading	Wasilla	9
FY14 Total		\$3,000.0			
Year 5 - FY2015					
Dept. Priority	Project Title	Project Cost	Project Description	Location	House District
30	Tok	75.0	Electrical repairs, microwave, grounding, tower repairs	Tok	multiple
31	Paxson	70.0	Tower damage, old shelter removal	Richardson Hwy,	6

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				Paxson	
32	Jacks Peak	120.0	Shelter repairs, old shelter removal	NE of Valdez	6
33	Valdez DOT	95.0	Electrical repairs, microwave, grounding	Valdez	6
34	Divide	70.0	Shelter, electrical and grounding	NE of Valdez	6
35	Tazlina Camp DOT	80.0	Shelter repairs and electrical upgrades	South of Glenallen	6
36	Willow Mountain	70.0	Shelter repairs and replace electrical wiring	South of Glenallen	6
37	Ernestine	63.0	Shelter repairs, microwave cabling and antennae replacement	South of Glenallen	6
38	Kenai	35.0	Shelter repairs, microwave cabling and antennae replacement	Kenai	33-35
39	Soldotna	77.0	Shelter repairs, microwave cabling and antennae replacement	Soldotna	29
40	Kasilof	52.0	Microwave radio and dish replacement	South of Kenai	33-35
41	Ninilchik	52.0	Microwave radio and dish replacement	South of Kenai	33-35
42	Seldovia	31.0	Transfer panel, electrical wiring	Seldovia	30
43	Approximately 30 sites	2,110.0	Additional deferred maintenance projects at approximately 30 SATS sites not included in this current survey documented by full maintenance inspection.	Statewide	Multiple
FY2015 Total		\$3,000.0			

Total General Fund \$6,000.0