

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

**FY2015 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: 07/01/2014 - 06/30/2019

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 (ARCS), and others. The infrastructure is in need of extensive maintenance and repair work.

Funding:	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>Total</u>
Gen Fund	\$3,000,000						\$3,000,000
Total:	\$3,000,000	\$0	\$0	\$0	\$0	\$0	\$3,000,000

<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
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Sec1 Ch16 SLA2013 P3 L20 HCS CSSB 18(FIN)am H \$3,000,000
 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.

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

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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 5 - FY15				
1	Peger Road	\$135.0	Microwave radio and dish replacement - MPLS Investment.	Fairbanks	9
2	Harding Lake	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Fairbanks on Richardson Hwy	12
3	Canyon Creek	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Fairbanks on Richardson Hwy	12
4	Delta	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Fairbanks on Richardson Hwy	12
5	Independent Ridge	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Delta on Alaska Hwy	6
6	Dot Lake	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Delta on Alaska Hwy	6
7	Cathedral Rapids	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Delta on Alaska Hwy	6
8	Tok	\$135.0	Microwave radio and dish replacement - MPLS Investment	SE of Delta on Alaska Hwy	6
9	Beaver Creek	\$135.0	Microwave radio and dish replacement - MPLS Investment.	SE of Delta on Alaska Hwy	6
10	Paxson	\$70.0	Tower damage, old shelter removal.	Richardson Hwy, Paxson	12
11	Jacks Peak	\$120.0	Shelter repairs, old shelter removal.	NE of Valdez	12
12	Tazlina Camp DOT	\$80.0	Shelter repairs and electrical upgrades.	South of Glenallen	12
13	Willow Mountain	\$70.0	Shelter repairs and replace electrical wiring.	South of Glenallen	12
14	Soldotna	\$75.0	Shelter repairs, microwave cabling and	Soldotna	34

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			antennae replacement.		
15	Kasilof	\$135.0	Microwave radio and dish replacement - MPLS Investment.	South of Kenai	34
16	Ninilchik	\$135.0	Microwave radio and dish replacement - MPLS Investment.	South of Kenai	34
17	Wolcott Mt.	\$350.0	New shelter, replace battery plant, replace generator, replace electrical wiring, new helipad	Seward Hwy, N of Seward	35
18	DACS equipment replacement	\$300.0	Replace aging DACS hardware.	Statewide	Statewide
19	Denali Park	\$50.0	Tower Replacement.	Parks Hwy, Denali National Park	8
20	Reindeer Hills	\$200.0	Tower Replacement.	SE of Fairbanks on Richardson Hwy	8
21	Tower Inspections and Maintenance	\$200.0	Inspection and Repairs for 20 towers.	Multiple Sites	Statewide
	Total GF	\$3,000.0			