

Fairbanks Northern Region Office Building Generator and Boiler Replacement **FY2014 Request: \$265,000**
Reference No: 56503

AP/AL: Appropriation **Project Type:** Deferred Maintenance
Category: Natural Resources
Location: Fairbanks (Areawide) **House District:** Fairbanks Areawide (HD 1-5)
Impact House District: Fairbanks Areawide (HD 1-5) **Contact:** Jean Davis
Estimated Project Dates: 07/01/2013 - 06/30/2014 **Contact Phone:** (907)465-2422

Brief Summary and Statement of Need:

Backup power capability is needed at the Department of Natural Resources (DNR) Northern Region office to ensure continued emergency operability, especially the emergency communications for the Division of Forestry to support their response to wildland fires or other disasters. The 25 year old boilers that heat the building and provide hot water need replacement.

Funding:	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Gen Fund	\$265,000	\$669,000					\$934,000
Total:	\$265,000	\$669,000	\$0	\$0	\$0	\$0	\$934,000

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

Prior Funding History / Additional Information:

No prior funding history

Project Description/Justification:

Backup Electrical Generator

Emergency operability of the DNR Northern Region building in the event of a long term power outage or disaster is critical to continuing to meet our constitutionally-mandated mission, especially that of the Division of Forestry's emergency support capabilities. The backup generator currently only powers a few emergency lights. The building's current backup batteries that power phones, radio consoles, and computer servers have lasted no longer than 15 minutes in recent power outages. Being without heat, lights, and communication during a disaster or wildland fire is likely to cost property damage and potentially lost lives. The Division of Forestry is consolidating its dispatching and logistics support function for the Northern Region in this building, so the need for dependable heat, lights, and water in any situation is critical.

Example of the critical need:

Received notification from Department of Transportation on November 15, 2012, that the lift pump on the emergency generator has a leak and was shut down and should not be started for any reason for safety reasons. A fix to this situation is currently being manufactured locally due to the generator being too old - replacement parts are no longer made.

Boiler Replacement

The boilers in the DNR Northern Region Building are 25 years old and are coming to the end of their dependable useful life. Before either one develops a problem, we want to replace them with boilers using updated technology to decrease our future energy costs. To that end, and to potentially decrease reliance on non-renewable resources rather than oil, consideration may be given to use of biomass-based technology.

WHAT IS THE ISSUE OR PROBLEM TO BE SOLVED?

- A. Lack of any backup power except for a few emergency lights. Battery backup for phones and communications now last approximately 15 minutes before quitting altogether. Backup power will provide heat, lights, water, and power in case of power outage.
- B. Installation of more energy efficient boilers to replace 25 year old boilers.

WHAT IS THE SCOPE OF WORK TO BE PERFORMED?

- A. Purchase and install backup generator to power the building's entire electrical need (heat, lights, water, and power).
- B. Purchase and install replacement boilers.

WHAT RESULTS WILL BE ACHIEVED AND/OR PRODUCTS PRODUCED?

- A. Uninterrupted power supply to maintain heat, lights, water, and communication in the loss of power supply to the building.
- B. Updated technology resulting in lower operating cost oil-fired boilers and/or a boiler that relies on biomass to provide heat rather than oil.

WHY IS THIS PROJECT NEEDED NOW – WHAT IS THE IMPACT OF REMAINING STATUS QUO?

- A. The addition of a centralized Division of Forestry fire and disaster dispatch in this building for the entire Northern Region demands that any downtime of communications be mitigated by an alternate dependable and instantaneous source of electricity for life safety support. Not installing the new generator could cost the loss of resources or lives in the absence of communications.
- B. Purchasing and installing the boilers now before one of them gives out keeps us from an emergency situation that normally requires weeks of lead time to procure and have an emergency boiler shipped to Fairbanks. This could provide a less than safe work environment, especially in the winter.

SPECIFIC SPENDING DETAIL:

LINE ITEM	DOLLAR AMOUNT	DESCRIPTION
Personal Services	\$ 10,000	Contract Management
Travel	\$ 0	
Services	\$ 255,000	RSA with DOT to procure/ install generator and boilers
Commodities	\$ 0	
Capital Outlay	\$ 0	
Grants	\$ 0	
PROJECT TOTAL	\$265,000	

Project Support:

The public, the Department of Natural Resources, and the Department of Transportation and Public Facilities