

**Fairbanks Regional Office Electrical, Telephone System, and Repairs**

**FY2017 Request: \$350,000**  
**Reference No: 60981**

**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:** Carol A Petraborg  
**Estimated Project Dates:** 07/01/2016 - 06/30/2021 **Contact Phone:** (907)465-6077

**Brief Summary and Statement of Need:**

The Fairbanks Regional Office compound is the largest owned facility within Fish and Game. This project includes replacement, repair, and upgrades to existing electrical system and critical upgrades to existing telephone system.

<b>Funding:</b>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>Total</u>
1004 Gen Fund	\$350,000						\$350,000
<b>Total:</b>	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000

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

**Prior Funding History / Additional Information:**

No Prior Funding History

**Project Description/Justification:**

The Fairbanks Regional Office compound is the largest owned facility within ADF&G. It is a heavily used diverse compound with a variety of needed maintenance/upgrade projects. Requested project funding would be used to perform repairs and upgrades at the Fairbanks Regional Office compound with primary focus on the two large projects identified. Any remaining funds would be used for other smaller maintenance projects throughout the compound.

Phone system upgrades; \$200.0

Upgrade the failing phone system in the main office, and provide adequate communications to the converted offices located in the rear of the compound. Given the location and the extreme costs to convert to the State phone system, Fish and Game owns and maintains its own phone switch at the Fairbanks Regional Office compound. The system works, but is quite old with imminent failure expected and needs significant upgrades. Fish and Game has invested significant funds on repairs in the last few years but those repairs were temporary to keep the phones functioning. The supplier of the existing system is nearly out of business (in bankruptcy) and Fish and Game is actually scavenging hardware from old hand me down systems from other agencies to have parts and pieces

when needed for small repairs. Additionally, over the years we have remodeled several buildings towards the back of the compound to allow for workspace expansion, and have significant numbers of staff now working in those buildings. The phones and connections in those buildings are marginal at best, composed primarily of outdated components. They do not have good reliable voice mail, or sometimes even the expected daily phone services available to most agencies. Fish and Game badly needs to improve and upgrade those outlying buildings and upgrade the main phone system itself to newer supported technology.

Fish and Game received some preliminary estimates from phone suppliers and have identified a range of costs to convert and upgrade the existing system to current technology. The project includes costs for the installation of a new updated/integrated switch, software & hardware, training and associated patch panel upgrade costs to be approximately \$125.0. Additionally, new fiber optic cable will be needed for installation in the buildings located towards the rear of the compound. Those costs are estimated to be in the \$50.0 range but formal estimates are still needed for that part of the project. Project contingencies and potential design costs are estimated to be in the \$25.0 range for a total project estimate of approximately \$200.0. While expensive, this cost is significantly less than the estimates to convert to the state Enterprise Technology Services telephone system and does not require the ongoing monthly line costs averaging \$100.0 per year.

Fairbanks electrical upgrades; \$150.0

Fish and Game has a recent engineering inspection/analysis & preliminary design report in hand which includes a full electrical system analysis and some limited construction design/estimates necessary to upgrade the building electrical infrastructure systems and backup generator system. Parts of the existing electrical infrastructure date back to the original construction of the Regional Office over twenty years ago. Small routine repairs are completed, but this is a long deferred larger project that needs to be addressed before experiencing some type of catastrophic failure or accident.

Much of the original old electrical infrastructure construction is composed of older aluminum wiring and components that are no longer used, and need to be replaced for fire safety and reliability issues. Several older electrical panels and distribution switches have been identified as being beyond the useful life expectancy for such components, similar issues are highlighted related to outdated head bolt heaters needing replaced, and upgrades need to be made to the backup generator system. Given the extreme winter conditions in the Fairbanks area, Fish and Game needs to address and eliminate any potential failures to such infrastructure.