

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Wrangell****Project Title:****Project Type:** Equipment and Materials

Wrangell - Electrical System Upgrade

State Funding Requested: \$85,000**House District: 2 / A**

One-Time Need

Brief Project Description:

Funding for electrical system upgrades in Wrangell.

Funding Plan:**Total Cost of Project: \$85,000***There is no other funding needed***Detailed Project Description and Justification:**

Funding for electrical system upgrades in Wrangell. The existing generator control interface in the WML&P diesel plant is not functional. The interface is not a readily supportable interface and should be replaced. The information from the feeder relays should be incorporated into the interface to allow feeder loadings and information to be displayed and recorded in the HMI. The HMI should be replaced with a Wonderware interface readily supportable from a variety of vendors. The HMI should be upgraded to include trending of generator performance and monitoring and local feeder trending and monitoring. The new HMI system could then be used to monitor the feeder loads with the addition of the TBPA relays. The budgetary estimate is \$50,000.

TBPA Feeder Monitoring - The WML&P system does not currently monitor the total system loads or the individual feeder loads. TBPA can sometimes provide this data, however it is cumbersome and prone to errors and time delays in its retrieval. With the installation of the new relays at the TBPA substation, WML&P can connect the new relays to the new HMI/generator control interface in the power plant. This would allow WML&P to record system peaks, feeder loading, outages, outage durations and other information required for planning and operational purposes. The information would be recorded and available for historical records as well as real time monitoring.

The budgetary estimate is \$35,000

Project Timeline:

FY2011-FY2012

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

City and Borough of Wrangell

Grant Recipient Contact Information:

Name:	Timothy Rooney - Borough Manager
Address:	PO Box 531 Wrangell, AK 99929
Phone Number:	(907)874-2381
Email:	tdrooney@wrangell.com

Has this project been through a public review process at the local level and is it a community priority? Yes No