

## **Alaska Energy Cost Reduction Program Progress Report**

**Grantee:** Alaska Power and Telephone Company

**Project Name:** Allakaket Power Plant Relocation

**Grant # 169-05**

**Period of Report:** Second Quarter 2006 (April 1 to June 30, 2006)

### **Project Activities Completed:**

The manufacturing and assembly of the new powerhouse continues in the AP&T Seattle shop. All major equipment and components have been received and installed. Electrical and mechanical assembly and interconnection tasks are nearing completion. Functional testing of station auxiliary systems has commenced. Full operational testing of the generating equipment is scheduled for the third week of July.

Shipping of the modules from Seattle is scheduled for the last week in July with delivery in Allakaket expected two weeks later.

Summit Consulting Services engineered the pad, made a bill of material sale recommendations, and materials were ordered. It was determined, the previously mined pad gravel was unacceptable due to a lack had no binder material and would not support the necessary weight requiring replacement. Final engineering for the thermosiphons was completed. The siphons were constructed and staged for shipped in Fairbanks.

The equipment rented from the City of Allakaket and ANTHC was rigorous inspected and brought it up to operable conditions. APT personnel and a local crew mined gravel, hauled it across the Koyukuk River, and stockpiled it. Excavation was conducted under ANTHC's gravel permit to replace AP&T's formally mined gravel which ANTHC used for projects in both villages. Approximately 5,800 cubic yards of gravel were stockpiled in staging areas in Allakaket.

After river ice broke-up in mid-June, silt was mined and stockpiled then existing pad and driveway gravel were removed. The driveway culvert bell ends installed. The driveway was widened and approach turns constructed during the rebuilding process

### **Project existing or potential problems:**

- Backordering of materials delaying schedules.
- Weather major potential to delay installation of the thermosiphens and foundational pad completion.
- Availability of heavy lift aircraft could delay transport of modules.
- Competition with FAA and other projects for of local labor and equipment continues to slow construction and increase costs.

### **Activities targeted for Next Reporting Period, Third Quarter 2006:**

- Complete foundational pad and construction materials shipment to the village.
- Complete modules and ship them to Allakaket.
- The powerhouse fully assembled and tested.
- Upgrade of existing single-phase power line to three-phase completed, step-up meter system.