Alaska Energy Cost Reduction Program
Progress Report

Grantee: Alaska Power & Telephone Company

Project Name: Upper Lynn Canal Power Supply Projects (Denali)

Grant # 0129-DC-2004-I16

Period of Report: First Quarter 2007 (January 1, 2006 to March 31, 2006)

Project activities completed:

- Exterior powerhouse construction completed. Interior appurtenances' installation began with item such as the penstock bifurcation to turbine, turbine housing, and needles.
- Groups of untreated logs were set into the beach on the north side of the jetty to assist loading and unloading operations by the landing craft during high north winds and outgoing tides alleviating winter safety issues.
- Electrical conduits were installed around powerhouse.
- Weather resistant equipment and materials storage was established in a twenty foot shipping container.
- Five of six tailrace weirs (energy dissipaters) were installed on the beach. The sixth weir will not be installed at this time to prevent interference with beach landings.
- An application amending the Federal Energy Regulatory Commission (FERC) license was submitted extending the access road along the south side of Kasidaya Creek eliminating the tunnel in the earlier design.
- Specified and ordered long lead time substation transformer
- The landing craft hauled approximately 90% of the penstock from Skagway to worksite staging area.

Project existing or potential problems:

Normal equipment issues requiring repairs on site or in Skagway have occurred. Ice on the right-of-way has stopped construction of the road until weather conditions warm up. Some winter storms have also hampered access of the project during the month of March in what has been a particularly harsh winter. The FERC license amendment process will create delays extending the road to the dam site. It is critical that there is access to construct the diversion dam during the low water period during winter 2007 and spring 2008.

Activities targeted for Next Reporting Period, Second Quarter 2007:

- Complete the powerhouse concrete work to embed conduits and turbine branch pipes.
- Complete the rock retaining walls on the east side of the tailrace and the powerhouse.
- Complete the fabrication of penstock miter bends and transition pieces.
- Begin installation of the penstock pending FERC design approval.
- Specify and order the generator control switchgear.