Alaska Energy Cost Reduction Program
Progress Report

Grantee: Alaska Power Company (a/k/a Alaska Power and Telephone Company)

Project Name: APC South Fork Hydro Project

Grant # 2195156

Period of Report July 1 to July 31, 2004

Project activities completed:

- Updated construction schedule and budget (will be ongoing process)
- Completed cofferdam and routed creek through two parallel 48 inch culverts to bypass the diversion dam work area.
- Formed and poured foundation for diversion west wing wall.
- Formed and poured the west ¼ of the diversion dam spillway floor
- Completed engineering revisions to the lower penstock route, powerhouse and tailrace location. The repositioned powerhouse site will reduce geophysical hazards.
- Completed pioneering the top 1750 feet of penstock ROW with 1500 feet excavated to grade for pipe placement.
- Complete excavation for tailrace at discharge end (work window of July 15 to Aug 7) with exception of blasting several large rocks.
- Reached an agreement with the agencies to build a riprap discharge pool for the tailrace discharge eliminating the environmental disturbance of benching an additional 100 feet of rock along the base of the falls to install the tailrace pipe. The riprap discharge area has been completed.
- Installed erosion control measures as needed.

Project existing or potential problems:

Continued attention will be given to flash floods that could overtop creek banks and cofferdam and cause flooding and erosion of the work areas. The cofferdam and bypass pipes have been more than adequate for rainfall that has occurred to date.

Enlisting local or out of area contractors for the concrete work at the dam and powerhouse has been unsuccessful. Delays have also been encountered locating a driller/blaster to remove rock in the penstock and tailrace area.

Delivery delays on the turbine and generator drawings are holding up the final design of the powerhouse. Suppliers continue to promise drawings.

Activities targeted for Next Reporting Period, August 2004:

- Blast and remove large rocks in the penstock and tailrace ROW. This work will be preformed by a licensed contractor.
- Complete the installation of the tailrace discharge pipe along the creek.
- Form and pour the remainder of the diversion dam spillway floor.

- Form and pour diversion dam valve vault and sluiceway foundations.
- Expedite procurement of embedded parts for diversion dam.
- Expedite turbine/generator drawings and powerhouse final design
- Continue pioneering penstock ROW in preparation for trenching and pipe placement.
- Establish lower penstock thrust block location and begin laying penstock starting at the lower end.
- Continue to follow all environmental plans and any requirement of the Environmental Compliance Monitor.