

**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

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**Period of Report**      October 1 to October 31, 2004

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**Project activities completed:**

- Finalized specifications and ordered the pre-engineered metal powerhouse building.
- The ductile iron penstock installation completed. All of the ductile iron penstock is covered with a third backfilled to final grade.
- Formed and poured two concrete penstock thrust blocks near Sta. 25+00. The penstock attachment for the upper block is being redesigned.
- The buried power and communications conduits along the penstock are in place. The splice pedestals will be placed and wire run after the penstock backfill is to final grade.
- The west wing wall of the diversion dam has been poured.
- The west spillway wall of the diversion dam has been poured.
- The embedded parts steel of the valve house, the 42" transition, 42" butterfly valve, 42" to 30" reducer, dismantle joint and miscellaneous frames were all received.
- Installation and maintenance of erosion control measures continues.

**Project existing or potential problems:**

Brief October flooding exceeded those experienced last month. This flooding overwhelmed culverts necessitating Black Bear Lake access road repairs. The largest flood overtopped the parallel bypass pipe intake at diversion dam. Some bedding material washed away diminishing support for intake ends of the 48-inch pipes. Support degradation caused separation in the second joint in the parallel 48-inch bypass pipes and some bedding material to wash downstream. The environmental compliance monitor has reviewed the incident and has kept the state agencies informed. The coffer dam and spillway floor were also overtopped several feet deep but did not suffer any significant damage.

Typical winter weather problems will slowdown work progress at the diversion dam. Greatest concern is access difficulties for concrete deliveries needed to complete the dam when snow and ice cover the steep road.

**Activities targeted for Next Reporting Period, November 2004:**

- Continue to follow all environmental plans and any requirement of the Environmental Compliance Monitor.

- Continue forming and pouring the diversion dam walls. The west sluiceway wall will be next, followed by the east sluiceway wall, the valve house and the main spillway wall. This will be the main construction focus until the dam is completed.
- Continue building out the toe of the slide area below the tailrace pipe. This will reduce the area's slope and a rock cap will prevent continued erosion.
- Complete the powerhouse foundation construction, the electrical control, and SCADA system design.
- Order and coordinate materials shipments for the diversion and powerhouse equipment.

**ALASKA POWER & TELEPHONE COMPANY**

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November 18, 2004

Peter Crimp, Project Manager  
Alaska Energy Authority  
813 W. Northern Lights Blvd.  
Anchorage, AK 99503

Dear Peter,

Enclosed is Alaska Power Company's invoice for the Prince of Wales Island, South Fork Hydro Project, Grant # 2195156. The documents include:

Invoice No. APC-POW/SOUTHFORK #16	\$193,612.06
Financial Report	
Project Progress Report	
Photographic Progress Report	
APC Project Detail Cost Reports with attached:	
Copies of Timesheet for Direct Payroll	
Copies of Invoices for Direct Costs	

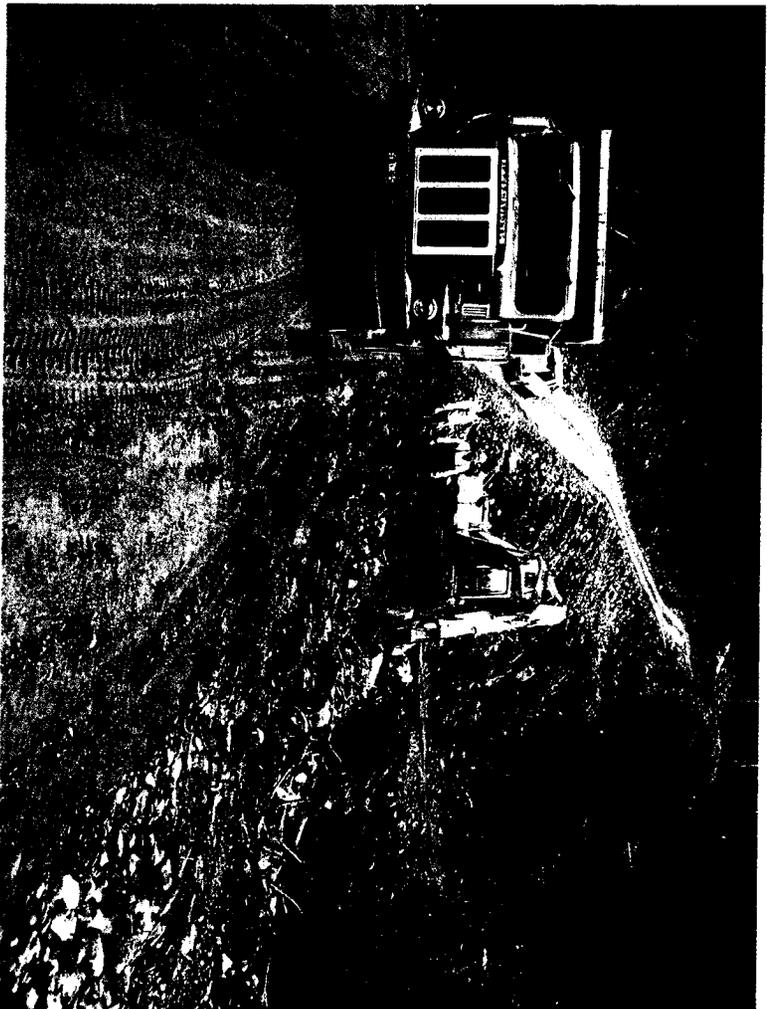
During this period, vehicle expenses were tracked up and applied to this project based on six month's activity.

Every effort has been made to provide the necessary information. Please contact me if questions arise or if additional information is required.

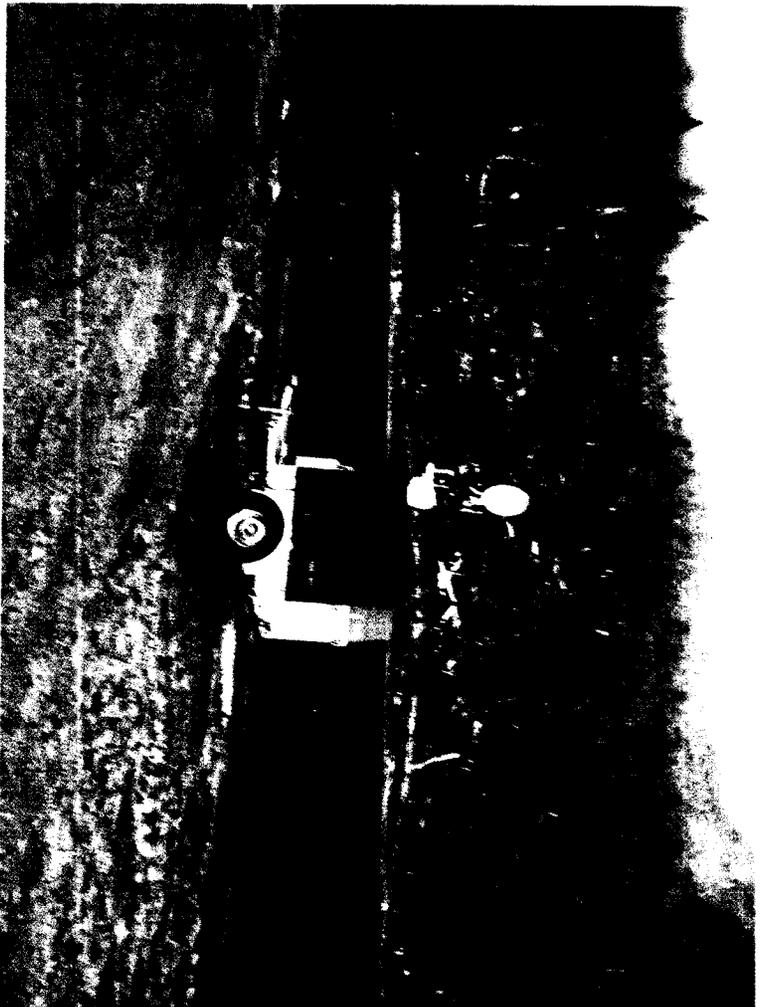
Respectfully submitted,



Karl B. Wood  
Senior Accountant  
Regulatory Affairs



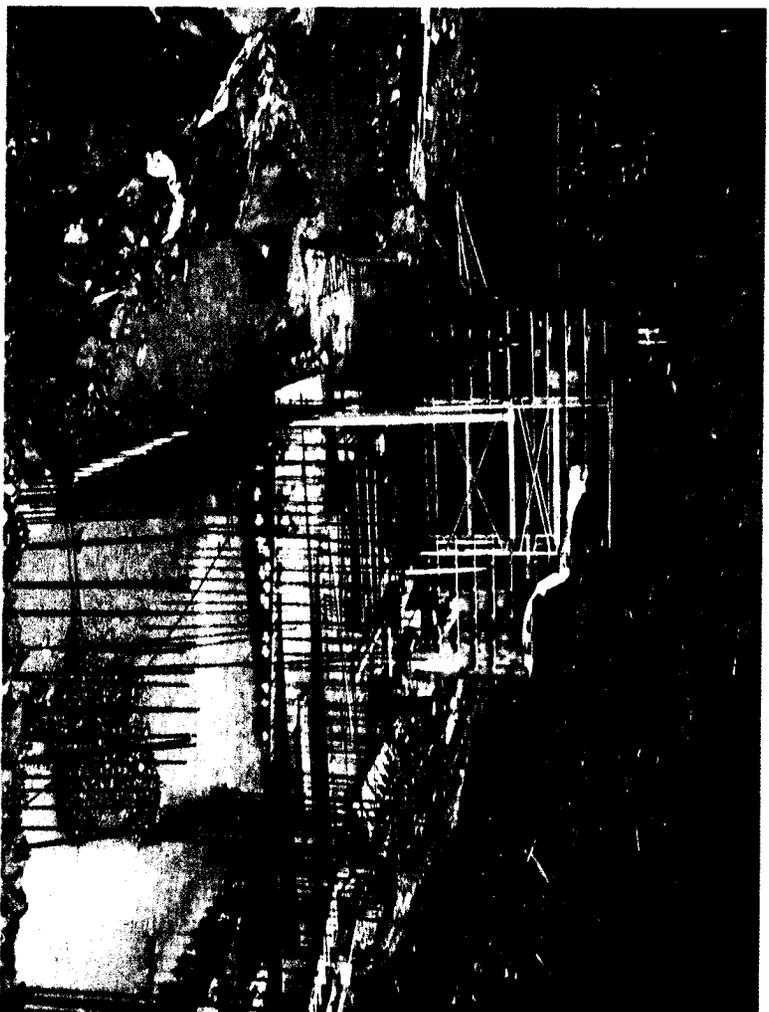
Joe Jester (AP&T) and Mike Emerich (AP&T) repair lower penstock access road.



Diversion Dam West Wing call prior to backfill.



Diversion dam west spillway wall



AP&T employee Ed Slattery cleaning up following west spillway wall pour.



Lower penstock and manhole prior to covering and backfill