

QUARTERLY REPORT

PROJECT: HVDC TRANSMISSION SYSTEM FOR RURAL ALASKAN APPLICATIONS, PHASE II – PROTOTYPING AND TESTING

UAF CONTRACT: UAF 10-0055

CONTRACTOR: POLARCONSULT ALASKA, INC.

REPORTING PERIOD: APRIL 1, 2010 – JUNE 30, 2010

PROJECT OVERVIEW

The project is on schedule and on budget. No problems have been encountered.

Billed expenses to date are \$55,018.02 (2.5% of the \$2,175,500 project budget). All costs are from Denali Commission funds.

PROJECT SCHEDULE AND MILESTONES

No change from the schedule and milestones in the project contract.

SUMMARY OF PROJECT ACTIVITIES, STATUS, ACCOMPLISHMENTS

CURRENT PERIOD

- Held 1st Meeting of Stakeholders' Advisory Group (SAG) in Fairbanks on April 27th.
- Let subcontract to Princeton Power Systems, Inc. (PPS) for power converter development.
 - Held kick-off meeting at PPS in New Jersey in late May, attended by Jason Meyer (ACEP) and Dr. Richard Weis (UAF).
 - PPS is developing a converter specification document with input from PCA and project stakeholders.
- Identifying consultants for other specialty aspects of project.
- Working on system conceptual design and overhead system design, evaluating commercial availability of key system parts and components for transmission system
- Developing specifications for construction and maintenance logistics to guide design and construction efforts.

NEXT PERIOD

- Issue documents to ACEP for distribution to SAG on:
 - Site selection criteria and request for candidate sites for Phase III HVDC demonstration project.
 - Call for experience and design criteria on remote Alaska power transmission systems.
- Let subcontracts to specialists on aspects of system design/development (subject to ACEP review)
- Locate a cold regions test site for field testing of transmission system components
- Continue work on conceptual designs of overhead transmission system (foundations, anchors, poles, and hardware)