Haida Energy, Inc. Presentation

Reynolds Creek Hydroelectric Project
Corry Hildenbrand – Project Manager
Hildenbrand Associates LLC
Location: Prince of Wales Island, Alaska
Waterbody: Lake Mellen (Rich’s Pond) and Reynolds Creek; Hetta Inlet
Project Features

**DAM:** A 20-foot-long, 6-foot-high, concrete diversion dam, with an uncontrolled spillway, near the outlet of Rich’s Pond at elevation 870 feet mean sea level.

**INTAKE:** A small concrete box-type intake structure with fish racks located on the left side of the diversion dam;

**PENSTOCK:** A 42-inch-diameter, 3,200-foot-long, steel penstock;

**POWERHOUSE:** A 40-foot-wide, 100-foot-long, pre-engineering insulated metal powerhouse on a concrete slab containing one generating units with a total installed capacity of 5 MW;

**TAILRACE:** An 80-foot-long tailrace channel consisting discharging into Reynolds Creek;

**SWITCHYARD/SUBSTATION:** A switchyard/substation, located next to the powerhouse.

**TRANSMISSION LINE:** An overhead 34.5 kV, 12-mile-long transmission line inter connecting to POW Transmission line;
Project Team (to date)

Phase 1 Construction

- Alaska Energy Authority (AEA)
- Haida Energy Corporation
- Project Manager: Hildenbrand Associates LLC
  - Corry Hildenbrand
- Engineering Support:
  - AP&T/HDR Engineering
  - Glassman Associates LLC
  - Moore Engineering
- Environmental Control Monitor:
  - DuRette Construction
- Civil Engineering:
  - Steve Glassman
  - Tracy Moore
- Fisheries Consultant:
  - Dr. Paul Rusanowki
  - Shipley Group
- Safety Consultant:
  - Jerry Lemm
  - Electrical Safety Consultants International, Inc.
- Financial:
  - Todd Tew, CPA
- Administrative Support:
  - S. Tinney Associates, Inc.
  - Susan Tinney
  - Haida Energy Corp.
  - Administrative Support, FERC Compliance and Financial Tracking
  - Allison Grant

Phase I Access Improvements

- DuRette Construction
Aerial View of Rich’s Pond and Lake Mellen
Approximate Dam Site
Copper Harbor Marine Access Area
Flagging where Penstock goes through lower clear-cut
Flagging where penstock goes uphill
Powerhouse Site
PHASE 1 WORK PLAN

1. CONSTRUCT POWER HOUSE ACCESS ROAD.
2. CONSTRUCT DAM ACCESS ROAD AND TEST PITS.
3. CONSTRUCT PIONEER ROAD HIGHLINE SETUP AND VALVE VAULT ACCESS.
4. BEGIN EXCAVATION FOR BYPASS PIPE.
5. CLEARING FOR PENSTOCK
6. POWERHOUSE CLEARING AND TEST PITS.
7. REYNOLDS CREEK XING.
8. REPAIR EXISTING ROCK SLIDES ON ACCESS ROADS.
Phase I Access Improvements

• Contract Awarded to: DuRette Construction

• Schedule:
  – 9/6/11: Contract Award Letter
  – 9/20/11: Materials and Equipment arrive in Thorne Bay
  – 9/24/11: Proposed barge date into Copper Harbor
  – 9/26/11: Set up Fuel Containment area at Copper Harbor; set up area for Explosives Product Magazines; set up Erosion/Control measures
  – 10/1/11: Begin Project work – NTP issued

• 11 Weeks to perform on site – Weather dependent.
• December 31, 2011 - All Phase I work to be completed