Dora Creek Hydro Project

Preliminary Project Definition

Executive Summary:
The Dora Creek Hydro Project is a run of the river hydroelectric project on a small creek south of Valemount, BC. This project is being proposed by a private British Columbia corporation.

Proponent Identification:
The proponent for this project is:

Name: North Fork Resources Inc.
Address: Box 2355
Chetwynd, BC V0C 1J0
Telephone: (250) 788-1806
Facsimile: (250) 788-1824
E-mail: nfr@xplornet.com
Company Representative: Dale Benke

North Fork Resources Inc. was incorporated in 1998 and is a successful, British Columbia family owned natural resource company. North Fork Resources Inc. is primarily involved with projects that manage renewable resource assets on a long-term sustained yield basis.

Project Description:
The project is composed of one run of the river hydroelectric power site on the mid to lower section of Dora Creek. Dora Creek is located approximately 30 km south of Valemount on Highway 5, in the east central portion of British Columbia. Dora Creek is a small drainage of approximately 14.5 km^2 with the headwaters being dominated by a large glacier and is a tributary of the Albreda River, which flows into the North Thompson River.

Project Compnents:
Dora Creek Site
The site will consist of an intake, low pressure conduit, high pressure penstock, powerhouse, tailrace, powerline, staging areas, and access roads.

The intake will consist of an overflow weir and water intake. The intake will be at an approximate elevation of 1310m above mean sea level and located at approximately 119° 03'31"W, 52° 32' 38"N.

The low pressure conduit will be approximately 1500m long. From the conduit the water will go to a forebay tank and then an 1750m section of high pressure steel penstock. The approximately 0.90m diameter penstock will serve to direct the water from the forebay tank to the powerhouse.

The powerhouse will be at an approximate elevation of 870m above mean sea level and located at approximately 119° 05'32"W, 52° 33' 45"N. The structure will be a metal clad frame building on a concrete foundation. The powerhouse dimensions will be roughly 10m long by 8m wide and 4m high; it will house the turbine and generator unit and the associated controls.

The tailrace will be designed so that the velocity of the water, as it enters the stream proper, is similar to the bypassed reach velocity. The tailrace will be approximately 180m long and will consist of natural materials and rip rap rock.

The powerline will be 1070m long and will tie into the existing BC Hydro distribution powerline at Highway 5. The powerline will be single wooden pole construction.

There are three staging areas required for the site, one at the powerhouse, one at the forebay tank area, and a third at the intake. Each area will be approximately 100m by 100m.

Nearly all the access that is required for this site utilizes existing logging roads. Access to the powerhouse will be via an existing 1.0 km section of logging road.
Access to the intake will be via existing logging roads and a 1.5 km section of new construction road, which is to be built along the low pressure conduit right of way.

Capacity of Project:
Through preliminary stream flow analysis and comparative drainage analysis the maximum design flow available for power generation is 1.22m^3/sec. The power potential for the Dora Creek Site is 3.9 MW with an annual production of 17.2 GWH/year.

Linkages with Other Projects:
None.

Market for Electricity from the Project:
The electricity produced from this project is to be sold to BC Hydro in the Standing Offer Program.

Schedule for Completion of the Project:

August 2009 - September 2010	Acquire Water Licence and Land Tenure
October 2010 – May 2011	BC Hydro Connection Approval
June 2011 – October 2011	Project Construction
November 2011	Plant Commissioning