

Upper Pyramid Creek Hydro Project

Preliminary Project Definition

Executive Summary:

The Upper Pyramid Creek Hydro Project is a run of the river hydroelectric project on a small creek north of Blue River, BC. This project is being proposed by a private British Columbia corporation.

Proponent Identification:

The proponent for this project is:

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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 upper section of Pyramid Creek. Pyramid Creek is located approximately 31 km north of Blue River on Highway 5, in the east central portion of British Columbia. The upper portion of Pyramid Creek is a small drainage of approximately 17.4 km². The headwaters are dominated by a small lake and large glaciers. On the lowest section there is a park over the area where Pyramid Creek runs into the North Thompson River. This project is positioned well above and will not impact the park.

Project Components:

Upper Pyramid Creek Site

The site will consist of an intake, 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 1561m above mean sea level and located at approximately 119° 04' 14" W, 52° 20' 53" N.

The penstock will be approximately 1340m long. The approximately 1.0m diameter penstock will serve to direct the water from the intake to the powerhouse.

The powerhouse will be at an approximate elevation of 1145m above mean sea level and located at approximately 119° 05'12"W, 52° 20'55"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 20m long and will consist of natural materials and rip rap rock.

The powerline will be approximately 5400m long and will tie into the existing BC Hydro 138kv powerline. The powerline will be positioned along the access road to the powerhouse and will be single wooden pole construction.

There are two staging areas required for the site, one at the powerhouse and one 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 intake will be via existing logging roads and a 3.4 km section of new construction road.

Access to the powerhouse will require 0.6 km section of new construction road.

Capacity of Project:

Through preliminary stream flow analysis and comparative drainage analysis the maximum design flow available for power generation is 1.36m³/sec. The power potential for the Upper Pyramid Creek Site is 4.4 MW with an annual production of 19.4 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
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October 2010 – May 2011	BC Hydro Connection Approval
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June 2011 – October 2011	Project Construction
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November 2011	Plant Commissioning
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