ORPC Alaska, LLC
ORPC Maine, LLC

151 Martine Street, Suite 102-5C
Fall River, MA 02723

Christopher R. Sauer, P.E.
President & CEO

Phone: (813) 417-6660
csauer@OceanRenewablePower.com

June 2, 2008

196.0002.0100/2.0

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE, Room 1-A
Washington, DC 20426

VIA E-FILING

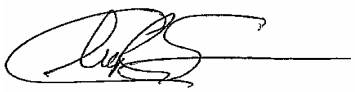
Re: Preliminary Permit Application (Nenana OCGen™ River TGU Power Project)

Dear Ms. Bose:

On behalf of ORPC Alaska, LLC ("ORPC"), I am pleased to submit via e-filing ORPC's Application for a Preliminary Permit for the Nenana OCGen™ River TGU Power Project

Please contact me at (813) 417-6660 if you have any questions or need any additional information.

Very truly yours,



Christopher R. Sauer
President and Chief Executive Officer

CS/MM/jph
Attachments

cc: M. McCann
File

BEFORE THE UNITED STATES FEDERAL ENERGY REGULATORY COMMISSION

APPLICATION FOR PRELIMINARY PERMIT

Nenana OCGen™ River TGU Power Project No. _____

ORPC Alaska, LLC
151 Maritime Street, Suite 102-SC
Fall River, MA 02723
(508) 672-4970

June 2008

PRELIMINARY PERMIT APPLICATION FOR THE NENANA OCGEN™ RIVER TGU POWER PROJECT

A. Initial Statement

1. Statement of Application

ORPC Alaska, LLC (hereinafter, ORPC) applies to the Federal Energy Regulatory Commission (FERC) for a preliminary permit for the proposed Nenana OCGen™ River TGU Power Project (hereinafter, Project), an instream hydrokinetic energy project, as described in the attached exhibits. The proposed Project will be located near the town of Nenana on the Tanana River, approximately 45 miles southwest of Fairbanks, Alaska. The Project will utilize the instream hydrokinetics of the Tanana River to generate electricity. This application is made in order that the applicant, ORPC, may secure and maintain priority of application for a FERC license for the Project under Part I of the Federal Power Act while obtaining the data and performing the acts required to determine the feasibility of the Project and to support an application for a license.

2. Project Location

The Project would be located in the Tanana River near the town of Nenana. The proposed Project would lie approximately 45 miles to the southwest of the city of Fairbanks, within the Unorganized Borough of Yukon-Koyukuk. The proposed Project does not lie within any protected areas.

The precise coordinates (WGS 84) of the proposed Project boundary are:

ID	Latitude	Longitude
NW	- 64° 34' 04.34161" N	149° 04' 44.40778" W
SW	- 64° 33' 58.59589" N	149° 04' 35.68980" W
NE	- 64° 33' 25.95332" N	149° 03' 06.65235" W
SE	- 64° 33' 07.56474" N	149° 02' 57.70107" W

In this river reach, the Tanana River generally flows westerly along the northern slope of the Alaska Range. The Tanana River empties into the Yukon River approximately 160 miles downriver of Nenana. The water depths at the Project location range from approximately 20 to 30 feet, observed flows reach four knots.

3. Name, business address and telephone number of applicant:

ORPC Alaska, LLC
151 Maritime Street, Suite 102-SC
Fall River, MA 02723
(508) 672-4970

The following people are authorized to act as agents for the applicant in the application:

Ernest Hauser
Director of Project Development

15225 Carrolton Road
Rockville, MD 20853
(301) 518-5073

Doug Johnson
Alaska Projects Director
ORPC Alaska, LLC
911 West 8th Avenue, Suite 205
Anchorage, AK 99501
(907) 250-7269

4. Preference under section 7(a) of the Federal Power Act

ORPC is a Delaware limited liability corporation and is not claiming preference under Section 7(a) of the Federal Power Act.

5. Term of Permit

The proposed term of the requested permit is 36 months.

6. Existing Dams or Other Project Facilities.

There are no existing dams or other Project facilities within the proposed Project evaluation and test area.

EXHIBIT 1 - PROJECT DESCRIPTION

1. Project Configuration

ORPC's proposed Project consists of an instream hydrokinetic power generation facility that will utilize hydrokinetic Turbine Generator Units (TGUs) placed under the water's surface to convert the energy of instream flow into electrical energy. ORPC initially worked with the Naval Surface Warfare Center-Carderock Division under a Cooperative Research and Development Agreement (CRADA) to develop the TGU technology. Since then, ORPC has continued testing and refinement of the technology in Western Passage, Maine.

The proposed Project will be developed in multiple phases. The Phase I of the Project development will consist of the testing of a prototype scale instream TGU specifically designed for river flows. The purpose of the instream hydrokinetic TGU will serve for proof of concept and will not be grid connected. Phase I is expected to be conducted during 2009. Phase II of the Project development will be focused on pre-commercialization. Under Phase II a full scale TGU will be tested for approximately one year to allow for further engineering refinements and potential environmental effects evaluation, Phase II may be connected to the electrical grid. The final phase, Phase III, will consist of installation of a commercial scale grid-connected array of TGUs.

In Western Passage, Maine, ORPC is currently working on a similar phased approach for project development. Phase I of Western Passage development consisted of deployment and testing a 1/3 scale prototype TGU which is the core power generating mechanism of a tidal powered OCGen™ module. This testing was completed in April 2008. Phase II of testing will consist of deployment of a full scale TGU for one year to conduct further engineering tests and potential environmental effects evaluation. Following that, a Phase III test will consist of a full scale OCGen™ module which will consist of four TGUs. Additional information regarding the ORPC organization, development plans and our innovative OCGen™ TGU technology is available at http://www.oceanrenewablepower.com/home.htm.

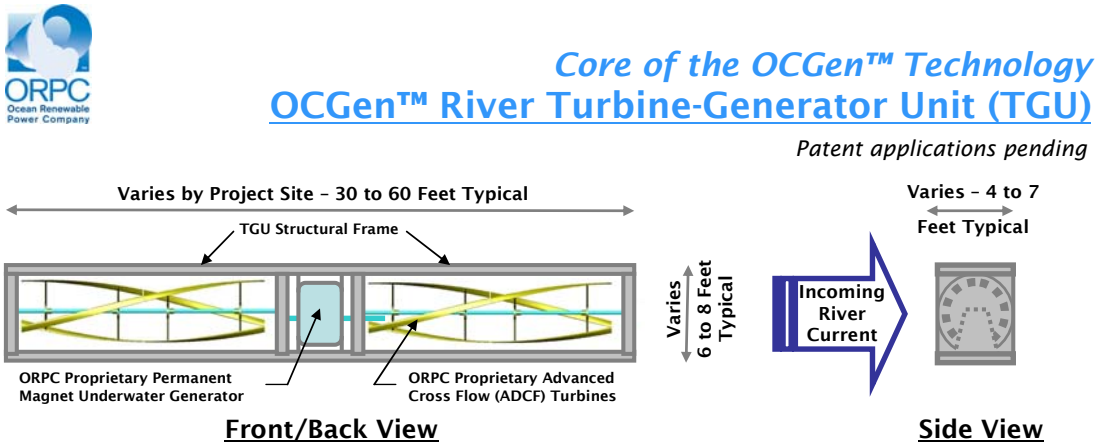
The basic OCGen™ River TGU design for instream hydrokinetic applications consists of two ORPC proprietary advanced design cross flow (ADCF) turbines driving a single generator on a common shaft as shown in Figure 1.

The nominal generating capacity per OCGen™ River TGU is approximately 25 kilowatts in a four knot current. The design to secure the OCGen™ River TGUs in place in the Tanana River will be based on a site-specific geophysical and environmental resource data.

ORPC cannot determine the precise number of OCGen™ River TGUs that can feasibly be installed within the Project boundaries at this time, but is initially targeting a generating capacity range of 100 to 400 kW for the commercial phase, Phase III. Based on the approximate nominal generating capacity per TGU, the range of units will likely be approximately 4 to 16 TGUs.

Adjustments to the number of TGUs will be made based on the variability of the Tanana River both spatially and in magnitude. Further studies conducted during Phase I, the prototype testing phase, will be used to determine the exact placement and number of TGUs as well as the appropriate deployment structure and transmission line route for the final commercial phase.

FIGURE 1
OCGEN™ RIVER TGU



Key Design Features

- Generating capacity varies with water speed – 50 to 200 kilowatts typical in a 6 knot current
- Two proprietary ADCF turbines drive a single proprietary underwater permanent magnet generator on a common shaft – direct drive arrangement with no gears (one moving part)
- OCGen™ TGU can be shop assembled and shipped to project sites for installation
- More than one TGU can be "stacked" and mounted on a single foundation in deeper rivers
- TGU's can be deployed in arrays comprised of a few to dozens of TGU's (or stacked TGU's)
- A power cable connects each TGU to an underwater transmission line that feeds a common power electronics system located on shore (plug & play)
- The power electronics system is interconnected with an on-shore substation
- TGU operations are monitored and controlled on shore using a control cable embedded with the power cables and underwater transmission line
- OCGen™ TGU's are brought to the water surface for inspection and maintenance

There are no dams, spillways, penstocks, powerhouses, tailraces, or other structures within or near the proposed tidal energy project area or that would be constructed as part of this proposed project.

2. Reservoirs

There are also no proposed Project reservoirs to be created as part of this Project.

3. Transmission Lines

Upon commercialization of the Project, the TGUs will be connected to the Golden Valley Electric Association electrical grid at Nenana. A 138kV and a 24.9kV 3-phase transmission line are available for electrical interconnection. Initially ORPC plans to connect the Project to the 24.9kV transmission line adjacent to the northern boundary of the proposed Project area. The length of the power cable is estimated to be less than 100 feet. The nearest substation to the Project is located approximately 2.75 miles south (Refer to Figure 2 in Exhibit 3). The exact details of the transmission line cannot be fully determined at this time but it will be designed to minimize possible environmental impacts.

4. Estimate Annual Energy Production

ORPC estimates that under commercial build out its proprietary OCGen™ River TGUs will have a generating capacity of 50 to 200 kw each. ORPC plans on developing the Project with a 100 to 400 kW rated capacity. Assuming a 400 kW rated capacity, the Project is expected to have an average annual power output of 1,752 MWh based on a 50 percent capacity factor.

5. Lands of the U.S.

All lands within the proposed Project boundary are identified under Exhibit 3.

6. Public Interest Benefits

The proposed Project would utilize the affected waters in the public interest by bringing a new source of renewable, non-polluting energy to the United States. The OCGen™ River TGUs will use natural free flowing water to generate energy in a predictable, dependable and environmentally sound way. This natural source of energy is also sustainable as opposed to the limited sources of other energy resources such as oil, gas, and coal. The potential of instream hydrokinetic energy is also an important source of alternative renewable nonpolluting energy or "green power". The use of native resources for power generation will help alleviate the cost of importing diesel fuel for power generation. The Federal Energy Policy Act of 2005 encouraged the development of renewable energy resources, including hydrokinetic energy. Domestic sources of energy are also in the public's best interest as they reduce the country's dependence on foreign oil and other fossil fuel energy sources.

River instream energy systems of this type are especially valuable to remote areas that currently rely on diesel generators for power. Power generated using diesel fuel produces fossil fuel air pollutants. Remote river accessible areas of Alaska must rely on fuel delivery by barge and they must maintain large storage facilities thus making power extremely expensive. Communities, such as Nenana would welcome a renewable energy source from the adjacent river which would be clean and reliable and which generates electricity year round. The proposed hydrokinetic Project does not involve the construction of dams or reservoirs, affect water quality, block fish passage, or direct fish and other aquatic life through turbine generators. These TGUs have an added benefit of being completely submerged and will not be visible, thus avoiding aesthetic issues encountered by other renewable energy projects such as wind. In addition, they are deep enough to be below the winter ice sheet thus operating throughout the year. River instream hydrokinetic energy projects also produce none of the environmental and atmospheric pollutants produced by fossil fuels. In fact, OCGen™ River TGUs have no gas or liquid discharges to the environment, thus, the TGUs are expected to have minimal environmental effects.

EXHIBIT 2 - DESCRIPTION OF PROPOSED STUDIES

1. Description of Studies

ORPC will use the existing information to locate the most suitable site for river instream hydrokinetic energy turbine deployment. Where existing information is insufficient, ORPC may undertake additional studies to ensure the best placement of turbines, best use of available instream hydrokinetic resource, and minimize any potential environmental effects. ORPC will site the Project with regards to existing users including commercial navigation and fish wheel infrastructure.

Additional research may be needed in regards to detailed bathymetry, instream flow information outside of immediate study area, sedimentation and ice formation and movement, navigation and recreation activities, fishing uses, and aquatic resources. ORPC will be consulting with appropriate resource agencies and Native Tribes on appropriate studies.

In addition to the above studies, ORPC will be researching access to transmission line infrastructure and conducting an economic and financial feasibility analysis for the proposed Project. ORPC will work closely with Golden Valley Electric Association for electrical transmission details.

ORPC recently completed in-water engineering and environmental testing of a prototype TGU at their Western Passage, Maine project area. The results of this testing effort will allow for engineering design of a commercial TGU in 2009.

2. Need for New Roads

It is not anticipated that any new roads will be required to conduct the above referenced studies.

3. Dam Construction

The proposed Project does not include any new dam construction or associated civil structures under the term of this preliminary permit.

4. Waiver

No waiver is being sought for the evaluation and testing of the feasibility of an ocean energy project installation.

5. Statement of Costs and Financing

Evaluation of the feasibility of installing OCGen™ River TGUs for the generation of instream hydrokinetic energy will be conducted in phases. The initial Phase I will include review of existing hydrokinetic energy and aquatic resource information as well as permitting requirements for a prototype project. The completion of Phase I will include the construction and deployment of a prototype OCGen™ River TGU. The estimated costs to conduct initial environmental studies and permitting for a prototype project, in addition to engineering, construction and installation of the OCGen™ River TGU and further environmental effects

studies during the operation of the Project, as identified under Description of Studies above, are in the range of $300,000 to $700,000. The larger commercial development will depend greatly on the results of the prototype project studies.

Over the past three and a half years, ORPC has spent nearly $3 million developing its OCGen™ technology. Ongoing pilot testing efforts and company operations are currently being funded with private equity funds, private investors, and state technology development awards. ORPC was awarded $511,200 from the Maine Technology Institute and awarded $300,000 from the Massachusetts Technology Collaborative. Funding sources for the ultimate commercial projects will be through a combination of private and/or institutional investment in the company and equipment financing and/or debt. The initial commercial project will likely be funded primarily by private equity and loans or grants from federal and/or state governments. The Management Team and Board of Managers of ORPC have extensive experience and expertise in development, permitting, financing, engineering/procurement and construction, and operation of conventional and renewable energy projects having financed several billion dollars of such projects over the past 20 years.

EXHIBIT 3 - PROJECT MAP

1. Project Boundary Map

A map of the proposed Project boundary is attached (Figure 2). The relative location and physical interrelationships of principal project features will be developed during Project feasibility studies. The Project coordinates were developed based on aerial photography (Figure 3), which is more recent than topographic maps. As shown in Figure 2, the Tanana River is very dynamic and the river edges change significantly over time. On-site work will be done to confirm river boundaries and may subsequently alter the project coordinates to line up with the river banks.

2. National Wild and Scenic Rivers

The proposed Project area does not include any areas designated as or being considered for inclusion in the National Wild and Scenic Rivers System.

3. Wilderness Act

The proposed Project area does not include any areas designated as or recommended for designation as a wilderness area or wilderness study area under the Wilderness Act.

FIGURE 2
PROJECT LOCATION MAP

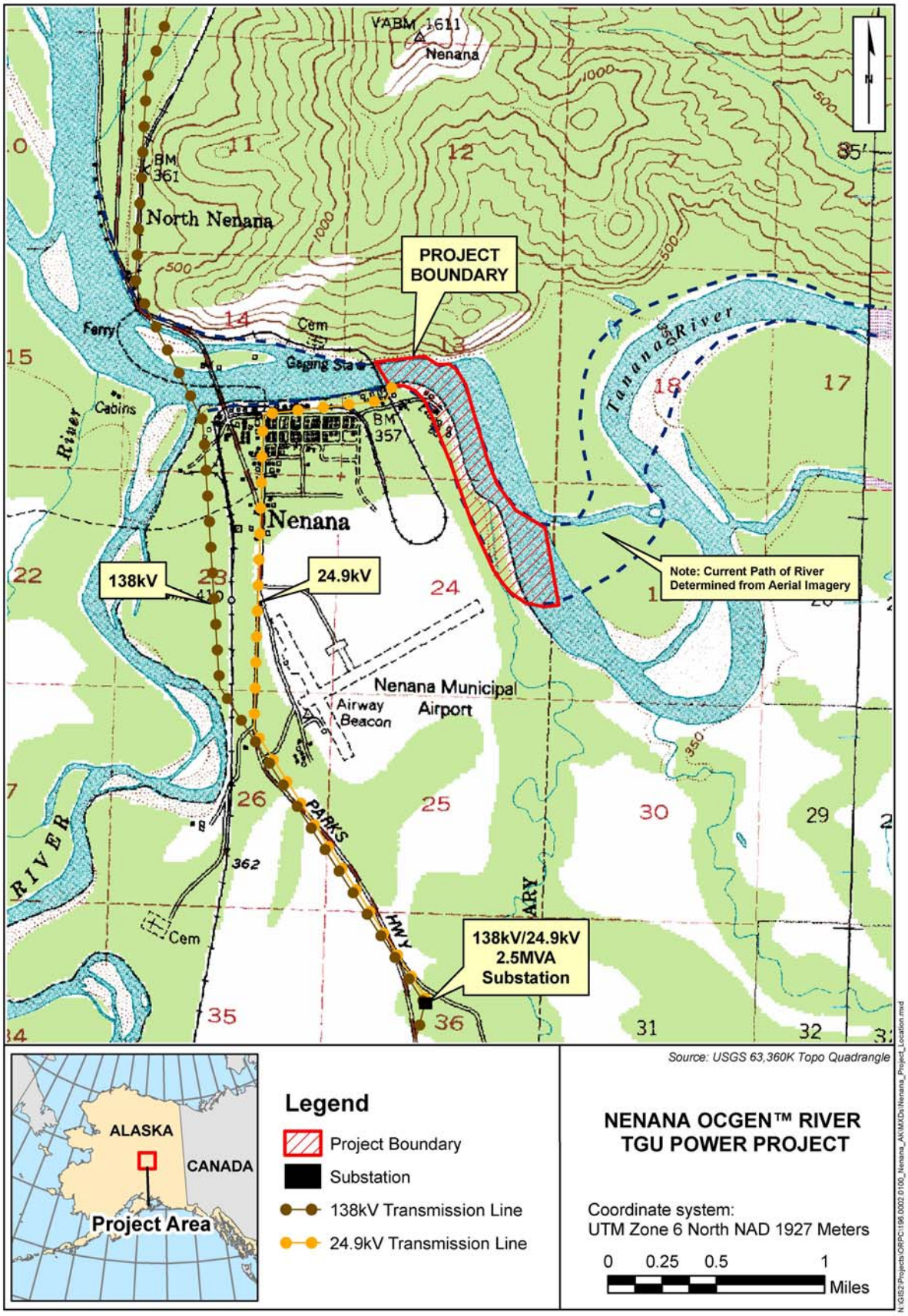


FIGURE 3
AERIAL PROJECT LOCATION MAP

SECTION 4.32 INFORMATION

1. ORPC Alaska, LLC is the only entity that has or intends to obtain and will maintain any proprietary rights necessary to construct, operate or maintain the proposed property.

2. Municipal Information

No federal facilities would be used by the proposed Project. The area proposed for evaluation and testing is located within the Unorganized Borough of Yukon-Koyukuk.

3. City or town where project will be located:

Nenana Municipal Office
PO Box 70
Nenana, AK 99760
Phone: (907) 832-5441
Fax: (907) 832-5503

No dam is proposed in association with this instream hydrokinetic energy Project. There are no cities and towns with a population of 5,000 or more that lie within 15 miles of the proposed evaluation and study area.

4. No federal facilities would be used by or otherwise associated with the proposed Project and no special purpose political subdivisions exist within the proposed boundary for the evaluation and testing of tidal energy potential within the proposed Project area.

No other known political subdivisions exist within the proposed Project evaluation and test area; however, ORPC will consult with all agencies and organizations with regulatory authority over the waters and resources of the proposed Project area during the evaluation of Project feasibility.

5. Indian and Native Tribes that may be affected by the Project.

ORPC has identified the following Native Tribes that may be affected by or have interest in the Project. ORPC will continue to research and consult with tribes that may have interest in the proposed Project.

Alatna Traditional Council
P.O. Box 10
Allakaket, AK 99720
Phone: (907) 968-2304
Fax: (907) 968-2305

Allakaket Traditional Council
P.O. Box 50
Allakaket, AK 99720
Phone: (907) 968-2237
Fax: (907) 968-2233

Evansville Tribal Council
P.O. Box 26087
Bettles Field, AK 99726
Phone: (907) 692-5005
Fax: (907) 692-5006

Hughes Traditional Council
P.O. Box 45029
Hughes, AK 99745
Phone: (907) 889-2239
Fax: (907) 889-2252

Lake Minchumina Traditional Council
P.O. Box 53
Kaktovik, AK 99747
Phone: (907) 455-9555

Manley Hot Springs Traditional Council
P.O. Box 105
Manley, AK 99756
Phone: (907) 672-3177
Fax: (907) 672-3200

Minto Traditional Council
P.O. Box 26
Minto, AK 99758
Phone: (907) 798-7112
Fax: (907) 798-7627

Nenana Traditional Council
P.O. Box 356
Nenana, AK 99760
Phone: (907) 832-5461
Fax: (907) 832-1077

Rampart Traditional Council
P.O. Box 67029
Rampart, AK 99767
Phone: (907) 358-3312
Fax: (907) 358-3115

Stevens Village IRA Council
P.O. Box 16
Stevens Village, AK 99774
Phone: (907) 478-7228
Fax: (907)478-7229

Tanana Tribal Council
P.O. Box 130
Tanana, AK 99777
Phone: (907) 366-7170
Fax: (907) 366-7195

VERIFICATION STATEMENT

This application for a preliminary permit for the ORPC Alaska, LLC Nenana OCGenTM River TGU Power Project is executed in the State of Maine, County of Cumberland

By:

Christopher R. Sauer, ORPC Alaska, LLC, 151 Maritime Street, Suite 102-SC, Fall River, MA 02723, being duly sworn, deposes and says that the contents of this Preliminary Permit Application are true to the best of his knowledge or belief. The undersigned Applicant has signed the application on this 2nd day of June, 2008.

By: _____

Subscribed and sworn before me, a Notary Public of the State of Maine this 2 day of June 2008. My commission expires on July 2, 2011

By: Shannon L. Needham

SHANNON L. NEEDHAM
Notary Public
State of Maine at Large
Commission Expires July 2, 2011