



www.symbioticsenergy.com

Utah Office

975 South State Hwy.
Logan, UT 84321
435.752.2580

Idaho Offices

P.O. Box 535
Rigby, ID 83442
208.745.0834

515 N 27th Street
Boise, ID 83702
208.938.7901

Oregon Offices

2705 E. Burnside Street
Suite 212
Portland, OR 97214
503.219.3750

2101 Main St., Ste 202
Baker City, OR 97814
541.523.0400

Texas Office

5100 San Felipe Unit 244E
Houston, TX 77056
713.840.1489

SENT ELECTRONICALLY

June 13, 2008

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 1st Street, N.E.
Washington, DC 20426

Re: Preliminary Permit Application for the Parker Knoll Pumped Storage Hydroelectric Project

Dear Ms. Bose,

Please find attached the Preliminary Permit Application for the Parker Knoll Pumped Storage Hydroelectric Project.

If you have any questions or need additional information feel free to contact me at (208) 745-0834 or brent.smith@symbioticsenergy.com

Sincerely,

A handwritten signature in blue ink that reads 'Brent L. Smith'.

Brent Smith
Chief Operating Officer
Rigby, Idaho

PRELIMINARY PERMIT APPLICATION

FOR THE

**PARKER KNOLL PUMPED STORAGE
HYDROELECTRIC PROJECT**

PREPARED FOR:
Parker Knoll Hydro, LLC
Logan, UT

June 2008

PRELIMINARY PERMIT APPLICATION

FOR THE

**PARKER KNOLL PUMPED STORAGE
HYDROELECTRIC PROJECT**

PREPARED FOR:
Parker Knoll Hydro, LLC

PREPARED BY:
Symbiotics, LLC
P.O. Box 535
Rigby, Idaho 83442

June 13, 2008

Preliminary Permit Application
for the
Parker Knoll Pumped Storage Hydroelectric Project

GENERAL:

The applicant for the proposed Parker Knoll Pumped Storage Hydroelectric Project is Parker Knoll Hydro. The members of Parker Knoll Hydro, LLC, are familiar with all aspects of hydroelectric development from the initial licensing process through design, construction and ongoing operations, and have been and are currently involved in various phases of numerous projects in the past twenty years including projects in Idaho, Utah, Montana, Wyoming, Oregon and Hawaii.

The applicant, Parker Knoll Hydro, LLC, is not claiming municipal preference under section 7(a) of the Federal Power Act.

IDENTIFICATION:

- 1. *Every citizen, association of citizens, domestic corporation, municipality or state who has or intends to obtain proprietary right to the site:***

Parker Knoll Hydro, LLC
975 South State Hwy.
Logan, UT 84321
Phone: (435) 752-2580

- 2. *Any entity owning proprietary right as an applicant:***

Non applicable

- 3. *Names and mailing addresses of entities affected or used by this project:***

SITLA and BLM, both offices are located in Richfield:

- SITLA Central Area Office
Attn: Mr. Louis Brown
130 North Main
Richfield, UT 84701-2154
- BLM Richfield Field Office
150 East 900 North
Richfield, UT 84701

4. Counties which the project is located:

The project is located entirely in Piute County, Utah:

- Piute County
Valeen Brown, County Clerk
550 North Main
Junction, UT 84740

5. Cities, towns, or similar subdivision (5,000 people or more) within a 15-mile radius of the project dam:

There are no cities, towns or similar subdivision of 5,000 people or more within a 15 mile radius. The nearest town with a population over 5,000 is Richfield, Utah. Approximately 28 miles northwest, or by road is 50 miles. The contact information for Richfield is below.

- Richfield, Utah
Piute County
Valeen Brown, County Clerk
550 North Main
Junction, UT 84740

6. Irrigation districts, drainage districts or similar political subdivisions within the project area:

- Sevier Water Users Association
800 West 100 North
Delta, UT 84624-8709

7. Every other political subdivision in the project area applicant believes may be interested in, or affected by the project:

Non applicable

INITIAL STATEMENT:

The applicant is requesting a preliminary permit for a period of three years from the date of issuance to conduct preliminary environmental reviews, environmental impact statement, feasibility study and preliminary design.

1. A. The location of the proposed project is:

State: Utah
County: Piute
Nearby Town: Richfield
Body of Water: Ground Water

2. A. Applicant:

Parker Knoll Hydro, LLC
1047 S. 100 W., Suite 210
Logan, UT 84321
Phone: (435) 787-2211

2. B. Agent:

Mr. Brent L. Smith, COO
Symbiotics, LLC.
P.O. Box 535
Rigby, Idaho 83442
Phone: (208) 745-0834
Fax: (208) 745-0835
E-mail: brent.smith@symbioticsenergy.com

Secondary contact:

Dr. Vincent Lamarra, CEO
Symbiotics, LLC.
975 South State Highway
Logan, Utah 84321
Phone: (435) 752-2580
Fax: (435) 752-2581
E-mail: vince.lamarra@symbioticsenergy.com

EXHIBIT 1:

1. A Dams

Upper:

Main

Type: Earth Embankment

Composition: Earth

Height: 148 Ft

Length: 1,600 Ft

Secondary

Type: Earth Embankment

Composition: Earth

Height: 32 Ft

Length: 800 Ft

Lower

Main

Type: Earth Embankment

Composition: Earth

Height: 100 Ft

Length: 4,679 Ft

1. B Penstock or other conduit

1. Length: 12,800 Ft
2. Diameter: 25 Ft
3. Composition: Concrete/ Steel

1. C Powerhouse Description

1. Number of units: 10
2. Proposed Capacity: 133 MW Each

1. D Description of other project structures

The project will consist of two, approximately 8,200 Af reservoirs, a 25 ft diameter, 12,800 ft long concrete tunnel. Connecting to 10 generating pump/turbine units, with a total project capacity of 1,330 MW, located in a 600 ft x 120 ft x 45 ft tall powerhouse.

1. E Identification and description of Federal Dam

None

1. F Existing and proposed project facilities:

All project features are proposed.

2. **Reservoirs**

Upper:

- A. Surface area: 125 Acres
- B. Storage capacity: 8,212 Af
- C. Normal maximum surface elevation: 9,610.4 msl

Lower:

- A. Surface area: 117 Acres
- B. Storage capacity: 8,689 Af
- C. Normal maximum surface elevation: 7,109.2 msl

3. **Transmission Lines**

- A. Length: 0.30 Mile proposed
- B. Voltage: 240 KV
- C. Interconnections (utility identification): PacifiCorp
- D. Existing and/or proposed transmission lines:

The proposed 0.30 mile 240 KV line will interconnect with an existing PacifiCorp 240 kV line running from Glenn Canyon dam to the Sigurd substation. At that point power will be distributed across the WECC.

4. **Generating Equipment**

- A. Estimated average annual energy output: 10 hours of generation, five days a week will produce approximately 3,640,000 MWhs annually.
- B. Number of generating units: 10
- C. Turbine ratings for each unit: 800 CFS
- D. Generator rating for each unit: 133 MW
- E. Single capacity rating for each generating unit: 133 MW
- F. Existing and/or proposed generating equipment: The ten 133 MW generating units are proposed
- G. Hydraulic head: min 2,444 , max 2,591

5. **Federal lands within project boundary:**

Bureau of Land Management (BLM); a portion of the lower reservoir sits on BLM, as well as powerhouse, and a portion of the proposed transmission line and penstock. Land within the project boundary on BLM land is approximately 1,366 acres. The other 951 acres are on lands owned by the School Trust Institutional Lands Administration (SITLA).

6. **Description how proposed project would develop, conserve and utilize public interest water resources of the region**

Upon approval, the proposed Parker Knoll Pumped Storage Hydroelectric Project will provide enhanced value to the region's water resources, as well as urgently needed relief to the current national energy crisis.

EXHIBIT 2:

1. A Description of study plan

The applicant anticipates the need for the following studies:

- Groundwater studies
- Energy production studies
- Environmental impact studies
- Water quality studies
- Project land surveys
- Engineering studies, including soil studies, test pits and core holes.
- Study on energy needs
- Water rights studies

Additional studies may be required as issues arise.

B Description and location of new roads

No new roads will be required for the purposes of conducting studies described in this exhibit.

2. Work plan for new dam construction

A. Description of field studies, tests and other land disturbing activities:

A subsurface investigation will be required to determine the rock structure and stability for the proposed dam sites. Samples shall be checked for rock structure as well as determine the suitability for project features for the dams and power tunnels. The applicant proposes to use existing roads located with the project boundary to minimize or eliminate the potential for any land disturbing activities.

B. Schedule for conducting studies

It is the intent of the applicant to file a PAD/NOI during the 3 year duration of the permit. The applicant will then follow the ILP schedule for studies, unless the applicant deems necessary to request the Traditional Licensing Process.

C. Environmental measures to minimize impacts

It is not anticipated that preliminary studies will adversely impact cultural resources, endangered species or federally owned lands. Therefore the applicant requests waiver of requirements in paragraph (c) (2) pursuant to Section 1.14 (a) (2).

EXHIBIT 3:

1. A *Estimated cost of studies*

The cost to complete the proposed studies during the requested three year period is estimated at \$5,000,000 to \$10,000,000.

2. A *Sources and extent of financing studies*

These costs will be funded by private investors and the applicant.

3. A *Proposed market for the power generated:*

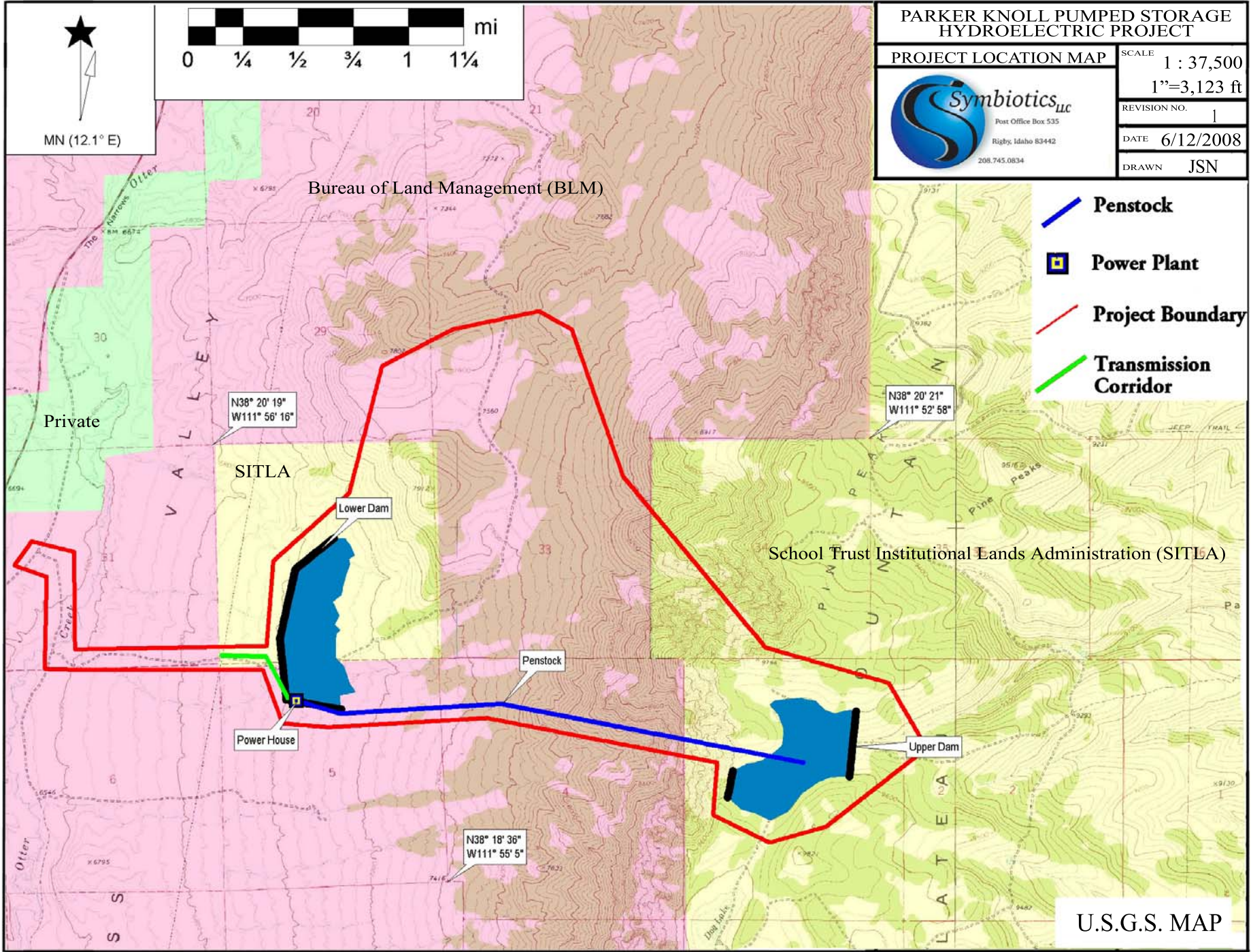
Western Electricity Coordinating Council (WECC). They oversee all the west energy.

B. *Purchaser of the power generated:*

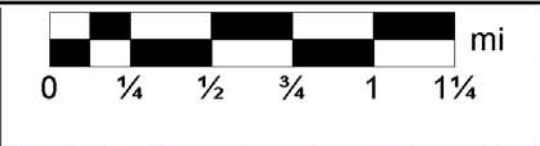
Power will be marketed to utilities and providers in the WECC system.

EXHIBIT 4:

Please find attached the map of the project area, boundary and features.



MN (12.1° E)



PARKER KNOLL PUMPED STORAGE HYDROELECTRIC PROJECT
PROJECT LOCATION MAP

Symbiotics_{LLC}
 Post Office Box 535
 Rigby, Idaho 83442
 208.745.0834

SCALE	1 : 37,500
	1"=3,123 ft
REVISION NO.	1
DATE	6/12/2008
DRAWN	JSN

- Penstock**
- Power Plant**
- Project Boundary**
- Transmission Corridor**

N38° 20' 19"
W111° 56' 16"

N38° 20' 21"
W111° 52' 58"

N38° 18' 36"
W111° 55' 5"

U.S.G.S. MAP