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5100 San Felipe Unit 244E
Houston, TX 77056
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SENT ELECTRONICALLY

November 4, 2008

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Preliminary Permit Application for the Swan Lake North Pump
Storage Project

Dear Ms. Bose,

Please find enclosed the Preliminary Permit Application for the Swan Lake
North Pump Storage Project.

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

Sincerely,

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

Brent L. Smith
Chief Operating Officer
Rigby, Idaho

PRELIMINARY PERMIT APPLICATION

FOR THE

**SWAN LAKE NORTH PUMPED STORAGE
HYDROELECTRIC PROJECT**

PREPARED FOR:
Swan Lake North Hydro, LLC
Logan, UT

November 2008

PRELIMINARY PERMIT APPLICATION

FOR THE

**SWAN LAKE NORTH PUMPED STORAGE
HYDROELECTRIC PROJECT**

PREPARED FOR:
Swan Lake North Hydro, LLC

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

November 4, 2008

Preliminary Permit Application
for the
Swan Lake North Pump Storage Hydroelectric Project

GENERAL:

The applicant for the proposed Swan Lake North Pumped Storage Hydroelectric Project is Swan Lake North Hydro, LLC, which is an affiliate of the owner of the land, water and other resources to be used in the proposed project. The members of Swan Lake North 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, Swan Lake North 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:***

Swan Lake North Hydro, LLC
975 South State Highway
Logan, UT 84321
Phone: (435) 752-2580

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

Non applicable

- 3. Counties which the project is located:***

The project is located in Klamath County, Oregon with the point of interconnect being in Klamath County, Oregon.

Klamath County
Linda Smith, County Clerk
305 Main Street
Klamath Falls, OR 97601

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

There are 2 cities, towns or similar subdivision of 5,000 people or more within a 15 mile radius. The near est town with a population over 5,000 is Altamont, Oregon, which is approximately 12 miles southwest.

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

There are no irrigation districts, drainage districts or similar political subdivisions within the project area.

6. *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: Oregon
County: Klamath
Nearby Town: Altamont, Oregon
Body of Water: Off-system

2. A. Applicant:

Swan Lake North Hydro, LLC
975 South State Highway
Logan, UT 84321
Phone: (435) 752-2580

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 with clay core

Height: 70 Ft

Length: 11,850 Ft

Lower

Main

Type: Earth Embankment

Composition: Earth with clay core

Height: 80 Ft

Length: 8,415 Ft

1. B Penstock or other conduit

1. Length: 5,860 Ft
2. Diameter: 29 Ft
3. Composition: Steel

1. C Powerhouse Description

1. Number of units: 10
2. Proposed Capacity: 1,144 MW

1. D Description of other project structures

The project will consist of two, approximately 8,500 acre-feet reservoirs, a 29 ft diameter, 5,860 ft long steel penstock. Connecting to 10 generating pump/turbine units located in a 850 ft x 250 ft x 45 ft tall powerhouse.

1. E Identification and description of Federal Dam

Approximately 530 acres of Bureau of Land Management (BLM) will be affected by the project.

1. F Existing and proposed project facilities:

All project features are proposed.

2. Reservoirs

Upper:

- A. Surface area: 260 Acres
- B. Storage capacity: 8,300 Af
- C. Normal maximum surface elevation: 5500 msl

Lower:

- A. Surface area: 215 Acres
- B. Storage capacity: 8,820 Af
- C. Normal maximum surface elevation: 4200 msl

3. Transmission Lines

- A. Length: 12.5 miles (89,760 feet) proposed
- B. Voltage: 500 KV
- C. Interconnections (utility identification): PacifiCorp
- D. Existing and/or proposed transmission lines:
The proposed 12.5 mile 500 KV line will interconnect with a proposed upgrade to an existing 500 kV line. At this location two 500 kV lines are owned by PacifiCorp and the other is BPA. At that point power will be distributed across the WECC, primarily to California and local utilities.

4. Generating Equipment

- A. Estimated average annual energy output: 8 hours of generation, seven days a week will produce approximately 3,340,000 MWhs annually.
- B. Number of generating units: 10
- C. Turbine ratings for each unit: 1255 CFS
- D. Generator rating for each unit: 110 MW
- E. Single capacity rating for each generating unit: 110 MW
- F. Existing and/or proposed generating equipment: The ten 110 MW generating units are proposed
- G. Hydraulic head: min 1250 , max 1360

5. Federal lands within project boundary:

Approximately 530 acres of Bureau of Land Management (BLM) will be affected.

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

Upon approval, the proposed Swan Lake North Pump 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

There will be approximately 0.6 miles of 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 within 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 TLP schedule for studies, unless the applicant deems it necessary to request another 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 \$10,000,000 to \$15,000,000.

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:*

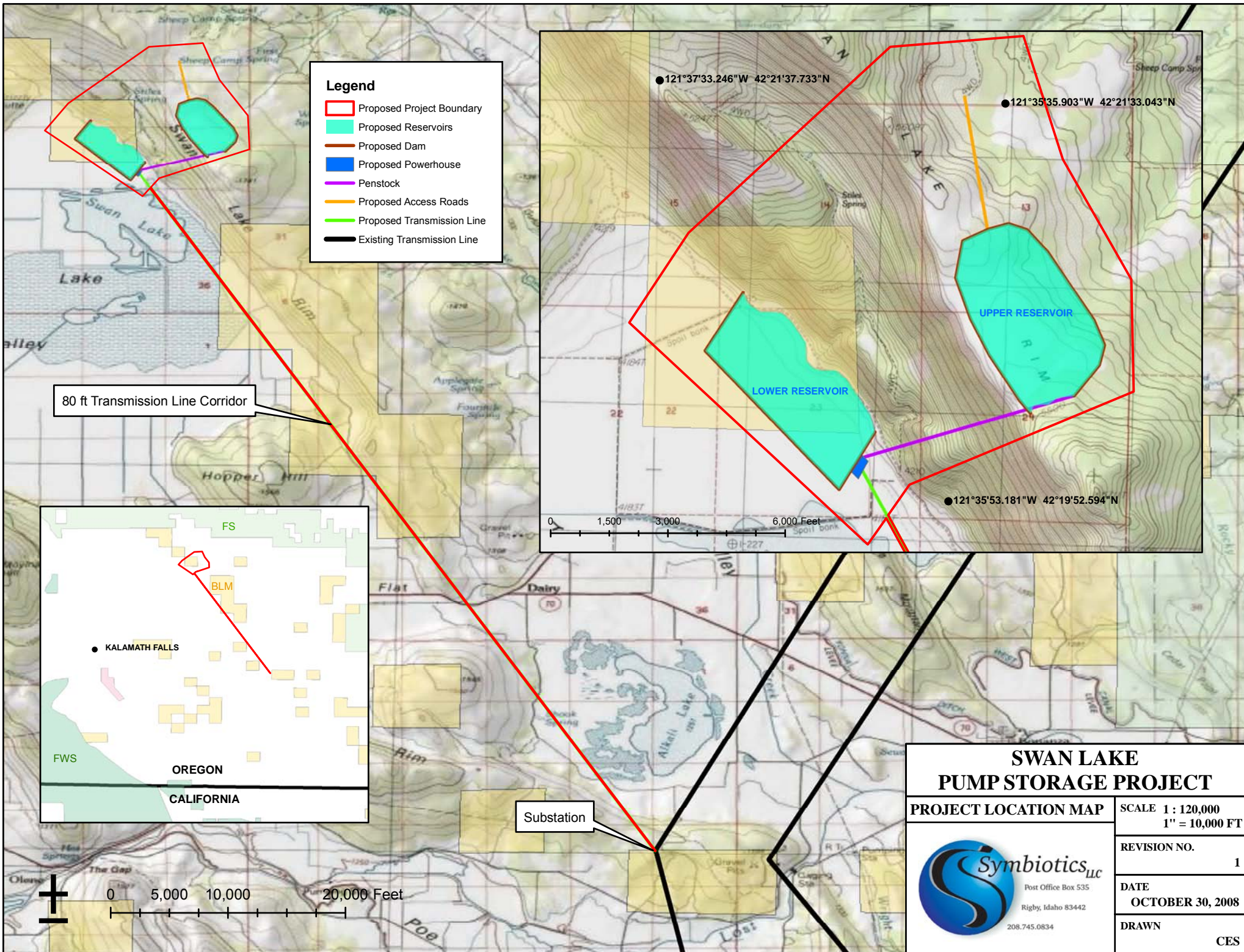
Western Electrical Coordinating Council (WECC)

B. *Purchaser of the power generated:*

Power will be marketed to local utilities and providers in the WECC system. Potential customers could be, but not limited to PacifiCorp and local utilities.

EXHIBIT 4:

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

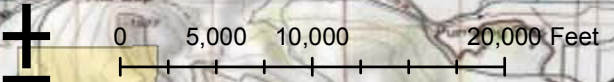
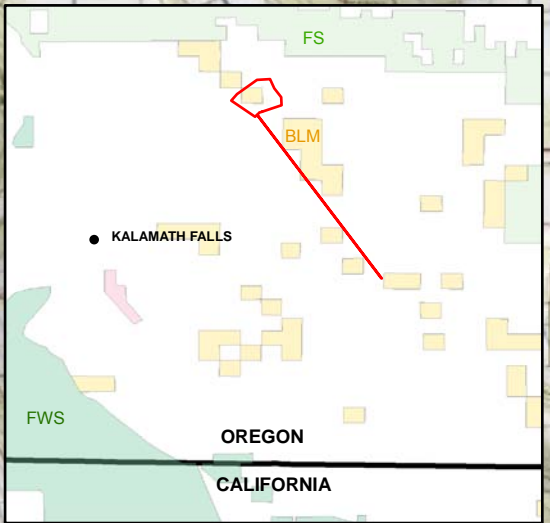



Legend

- Proposed Project Boundary
- Proposed Reservoirs
- Proposed Dam
- Proposed Powerhouse
- Penstock
- Proposed Access Roads
- Proposed Transmission Line
- Existing Transmission Line

80 ft Transmission Line Corridor

Substation



SWAN LAKE PUMP STORAGE PROJECT	
PROJECT LOCATION MAP	SCALE 1 : 120,000 1" = 10,000 FT
 <p>Symbiotics_{LLC} Post Office Box 535 Rigby, Idaho 83442 208.745.0834</p>	REVISION NO. 1
	DATE OCTOBER 30, 2008
	DRAWN CES