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**SENT ELECTRONICALLY**

April 2, 2008

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

Re: Preliminary Permit Application for the Overton Lock and Dam  
Hydroelectric Project

Dear Ms. Bose,

Please find attached the Preliminary Permit Application for the Overton  
Lock and Dam Hydroelectric Project.

If you have any questions feel free to contact me at 208-745-0834.

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**

**OVERTON LOCK AND DAM  
HYDROELECTRIC PROJECT**

***PREPARED FOR:***  
**Red River Hydro, LLC**  
**Logan, UT**

**April 2008**

**PRELIMINARY PERMIT APPLICATION**

**FOR THE**

**OVERTON LOCK AND DAM  
HYDROELECTRIC PROJECT**

**PREPARED FOR:**  
Red River Hydro, LLC

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

April 2, 2008

Preliminary Permit Application  
for the  
Overton Lock and Dam Hydroelectric Project

**GENERAL:**

The applicant for the proposed Overton Lock and Dam Hydroelectric Project is Red River Hydro, LLC, consisting of members that are familiar with all aspects of hydroelectric development from the initial licensing process through design, construction and ongoing operations. The members of Red River Hydro, LLC 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, Red River Hydro, LLC, is not claiming municipal preference under section 7(a) of the Federal Power Act.

The location of the proposed project is:

State: Louisiana  
County: Rapides Parish  
Nearby Town: Alexandria  
Body of Water: Red River

The official name, address and phone number of the applicant is:

Red River Hydro, LLC  
975 South State Highway  
Logan, UT 84321  
Phone: (435) 752-2580

The project liaison for all correspondence is:

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](mailto: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](mailto:vince.lamarra@symbioticsenergy.com)

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.

### **EXHIBIT 1:**

The proposed Overton Lock and Dam hydroelectric generating facility would be located on an existing dam owned by Army Corps of Engineers - Vicksburg District, on the Red River in Rapides Parish County, Louisiana. The contact individual for Rapides Parish County is Carolyn Ryland, County Clerk, at P.O. Box 1150, Alexandria, Louisiana 71309. Part of the project would be on lands administered by Army Corps of Engineers - Vicksburg District.

The proposed project would consist of an existing concrete dam 104 feet in height, with a crest length of 914 feet and a hydraulic head of 48 feet. The Red River in this area has a surface area of 3,750 acres, with a storage capacity of 67,500 acre-feet at a normal maximum water surface elevation of 64 feet.

The project would consist of modifications to the existing facility by adding a powerhouse containing four 21.5MW turbines capable of generating an estimated project capacity of 86 megawatts; a switchyard; and approximately 1 mile of proposed 69kV transmission line. It is anticipated at this time that the proposed project would interconnect into the utility distribution systems owned by the local utility.

The project would operate in a run-of-the-river mode, using flows of the Red River, and would generate an estimated 276GWh annually. The project would be accessed by existing roads.

Lands within the project area include lands owned and/or operated by Army Corps of Engineers - Vicksburg District.

Upon approval, the proposed Overton Lock and Dam 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:**

The applicant anticipates the need for the following studies:

- Flow 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

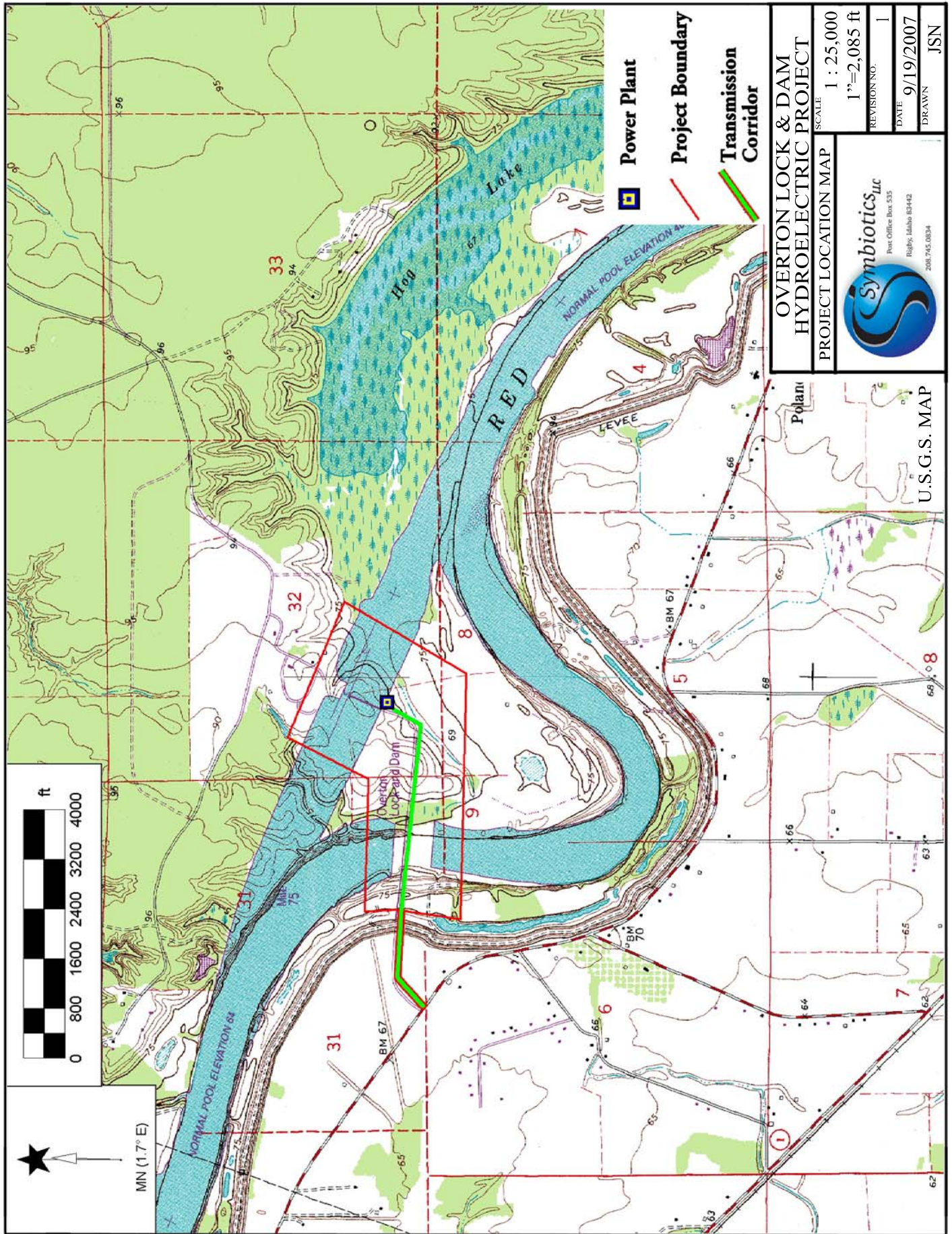
Additional studies may be required as issues arise.

### **EXHIBIT 3:**

The cost to complete the proposed studies during the requested three year period is estimated at \$500,000 to \$1,000,000. It is expected that these costs will be funded by private investors and members of the applicant.

### **EXHIBIT 4:**

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



**OVERTON LOCK & DAM  
HYDROELECTRIC PROJECT**  
 SCALE 1 : 25,000  
 1" = 2,085 ft  
 REVISION NO. 1  
 DATE 9/19/2007  
 DRAWN JSN



PROJECT LOCATION MAP

U.S.G.S. MAP

Document Content(s)

Application.PDF.....1-6