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DEPARTMENT OF ENERGY  
FEDERAL ENERGY REGULATORY COMMISSION

Shelbyville Hydro LLC

Project No. 13011-003

NOTICE OF APPLICATION READY FOR  
ENVIRONMENTAL ANALYSIS AND SOLICITING COMMENTS,  
RECOMMENDATIONS, TERMS AND CONDITIONS, AND PRESCRIPTIONS

Take notice that the following hydroelectric application has been filed with the Commission and is available for public inspection.

- a. Type of Application: Major License
- b. Project No.: 13011-003
- c. Date filed: October 28, 2011
- d. Applicant: Shelbyville Hydro LLC (Shelbyville Hydro), a wholly-owned subsidiary of Symbiotics LLC
- e. Name of Project: Lake Shelbyville Dam Hydroelectric Project
- f. Location: On the Kaskaskia River, in Shelby County, Illinois at an existing dam owned and operated by the U.S. Corps of Engineers (Corps). The project would occupy 3.24 acres of federal lands managed by the Corps.
- g. Filed Pursuant to: Federal Power Act 16 USC 791 (a) - 825(r)
- h. Applicant Contact: Mr. Brent L. Smith, Chief Operating Officer, Symbiotics LLC 371 Upper Terrace, Suite 2, Bend, OR 97702; Telephone (541)-330-8779
- i. FERC Contact: Lesley Kordella, (202) 502-6406 or [Lesley.Kordella@ferc.gov](mailto:Lesley.Kordella@ferc.gov)
- j. Deadline for filing comments, terms and conditions, recommendations, and prescriptions: 60 days from the issuance date of this notice; reply comments are due 105 days from the issuance date of this notice.

All documents may be filed electronically via the Internet. See 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's website

<http://www.ferc.gov/docs-filing/efiling.asp>. Commenters can submit brief comments up to 6,000 characters, without prior registration, using the eComment system at <http://www.ferc.gov/docs-filing/ecomment.asp>. You must include your name and contact information at the end of your comments. For assistance, please contact FERC Online Support at [FERCOnlineSupport@ferc.gov](mailto:FERCOnlineSupport@ferc.gov) or toll free at 1-866-208-3676, or for TTY, (202) 502-8659. Although the Commission strongly encourages electronic filing, documents may also be paper-filed. To paper-file, mail an original and seven copies to: Kimberly D. Bose, Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426.

The Commission's Rules of Practice and Procedures require all intervenors filing documents with the Commission to serve a copy of that document on each person on the official service list for the project. Further, if an intervenor files comments or documents with the Commission relating to the merits of an issue that may affect the responsibilities of a particular resource agency, they must also serve a copy of the document on that resource agency.

k. This application has been accepted for filing and is ready for environmental analysis.

l. Project Description: The project would be located at an existing dam owned and operated by the Corps (St. Louis District). The existing Lake Shelbyville Dam was constructed in 1963 for the purposes of flood control, recreation development, water supply, navigation release, and fish and wildlife conservation. In August of 1970, the Corps closed the gates to start the initial filling of the lake. The West Okaw and Kaskaskia rivers were inundated for 17 miles upstream of the dam.

The Lake Shelbyville Dam is an earthen embankment with an elevation of 643 feet above mean sea level (MSL). The dam is 3,025 feet long and rises 108 feet above the river bed. The concrete spillway is located at 593 feet MSL and is topped by three Tainter gates that are approximately 45 feet wide by 37 feet high. The two regulating outlet structures release water through the face of the spillway. The impoundment above the Lake Shelbyville Dam, referred to as Lake Shelbyville, varies according to flood control operations controlled by the Corps. Lake Shelbyville has a maximum storage capacity of 684,000 acre-feet. Of the 684,000 acre-feet of storage, 474,000 acre-feet have been designated for flood control. The average depth of the reservoir is 16 feet and the maximum is 67 feet.

The proposed Lake Shelbyville Project would consist of: (1) a trash rack with 4-inch spacing integrated into the Corps' existing west intake structure; (2) a steel liner installed in the Corps' existing west outlet chamber transitioning to a bifurcation; (3) a 13-foot-diameter bifurcation and a river release valve installed at the west outlet structure; (4) a

13-foot-diameter penstock at the bifurcation after which it reduces to a 12-foot-diameter, 575-foot-long steel penstock; (5) a 60-foot-long, 50-foot-wide, 68-foot-high concrete powerhouse containing a 6.8-megawatt Kaplan turbine-generator with a flow of 130 to 1,500 cubic feet per second (cfs) at a net head of 33 to 77 feet; (6) an approximately 24.5-foot-wide, 30-foot-long, 6.7-foot-tall draft tube; (7) a 25 to 105-foot-wide, 49-foot-long tailrace; (8) a 12.47-kilovolt, 407-foot-long buried transmission line connecting the project to an existing Shelby Electric Cooperative substation located 900 feet downstream of the dam; and (9) appurtenant facilities. The project boundary would include 3.24 acres of federal lands owned by the Corps. The annual average energy production is estimated to be 20.3 gigawatt-hours.

The project would operate in a run-of-release mode utilizing releases from Lake Shelbyville as they are dictated by the Corps, with no proposed change to the Corps' facility operation. Power generation would be seasonally variable as flow regimens and pool levels are set forth by the Corps. The project would generate power using flows between 130 and 1,500 cfs. When flows are below 130 cfs, all flows would be passed through the Corps' existing outlet structure and the project would then be offline. When flows are greater than 1,500 cfs, excess flow would be passed through the existing outlet structure.

m. A copy of the application is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's website at <http://www.ferc.gov> using the "eLibrary" link. Enter the docket number excluding the last three digits in the docket number field to access the document. For assistance, contact FERC Online Support. A copy is also available for inspection and reproduction at the address in item h above.

All filings must (1) bear in all capital letters the title "COMMENTS", "REPLY COMMENTS", "RECOMMENDATIONS," "TERMS AND CONDITIONS," or "PRESCRIPTIONS;" (2) set forth in the heading the name of the applicant and the project number of the application to which the filing responds; (3) furnish the name, address, and telephone number of the person submitting the filing; and (4) otherwise comply with the requirements of 18 CFR §§ 385.2001 through 385.2005. All comments, recommendations, terms and conditions or prescriptions must set forth their evidentiary basis and otherwise comply with the requirements of 18 CFR § 4.34(b). Agencies may obtain copies of the application directly from the applicant. Each filing must be accompanied by proof of service on all persons listed on the service list prepared by the Commission in this proceeding, in accordance with 18 CFR §§ 4.34(b), and 385.2010.

You may also register online at <http://www.ferc.gov/docs-filing/esubscription.asp> to be notified via email of new filings and issuances related to this or other pending projects. For assistance, contact FERC Online Support.

n. Public notice of the filing of the initial development application, which has already been given, established the due date for filing competing applications or notices of intent. Under the Commission's regulations, any competing development application must be filed in response to and in compliance with public notice of the initial development application. No competing applications or notices of intent may be filed in response to this notice.

o. A license applicant must file no later than 60 days following the date of issuance of this notice: (1) a copy of the water quality certification; (2) a copy of the request for certification, including proof of the date on which the certifying agency received the request; or (3) evidence of waiver of water quality certification.

Dated: July 18, 2012

Kimberly D. Bose,  
Secretary.