



Hydro Green Energy®

December 23, 2011

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

**SUBJECT: Braddock Locks and Dam Hydroelectric Project (FERC No. 13739)
Notice of Intent to File Application for New License
Request to Use the Traditional Licensing Process
Pre-Application Document**

Dear Secretary Bose:

Lock+ Hydro Friends Fund XLII, LLC (Hydro Friends Fund), a wholly owned development subsidiary of Hydro Green Energy, LLC (HGE) of Westmont, IL, is submitting to the Federal Energy Regulatory Commission (FERC or Commission) this Notice of Intent (NOI) to file an application for an original license for the 3.75 MW Braddock Locks and Dam Hydroelectric Project (FERC No. 13739) (Project).

This NOI is being filed pursuant to the requirements of 18 CFR § 5.5 of the Commission's regulations. In accordance with 18 CFR § 5.3 and 5.6, respectively, and as further described below, Hydro Friends Fund is concurrently submitting a request to use the Commission's Traditional Licensing Process (TLP) and a Pre-Application Document (PAD) for the Project.

The proposed Project will consist of one large steel frame module that is approximately 55 feet long and 40 feet high that contains five low-head, modular bulb hydropower turbines, which will be installed in a single row, along with flow-control door assemblies that can open and close off flow to the units during an event that would require a suspension of generation. The large frame module will be placed at the existing dam on the side of the dam furthest away from the navigational lock. If needed, the large frame module would be housed between two pre-fabricated concrete walls that would serve to guide flow into the turbines. For additional details, please see the PAD.

Pursuant to the requirements of 18 CFR § 5.3, Hydro Friends Fund has incorporated a request to use the TLP in this NOI. Hydro Friends Fund believes that use of the TLP would provide the most efficient and effective licensing approach for the Project and supports this request with the following.

Hydro Green Energy, LLC • 900 Oakmont Lane, Suite 310 • Westmont, IL 60559
877-556-6566 (p) • www.hgenergy.com

Likelihood of timely license issuance

The proposed low-impact, small hydropower Project would be sited at the existing U.S. Army Corps of Engineers (USACE) Braddock Locks and Dam. The proposed Project's footprint is very limited in size, the installation methods for the modular system require much less in-river work than a typical conventional hydropower plant and the site has been previously disturbed due to the recent rehabilitation of the Braddock Locks and Dam and the dam's operations.

Hydro Friends Fund is not proposing any changes to current operations of the Braddock Locks and Dam and the proposed Project will be operated as a run-of-river. The Project will also deploy low-impact bulb turbines and is not expected to negatively impact water quality. The Monongahela River has been studied since the 1970s and for these reasons Hydro Friends Fund believes that major, additional studies will not be necessary to support the licensing. Therefore, the use of the TLP could expedite the development and filing of a license application.

Complexity of the resource issues and level of anticipated controversy

As stated previously, Hydro Friends Fund does not propose any changes to current USACE dam operations; and the small physical footprint of the proposed Project, proposed run-of-river operations, and prior licensing experience leads Hydro Friends Fund to believe that complex or controversial issues should not arise during licensing.

Relative cost of the Traditional Licensing Process compared to the Integrated Licensing Process

The use of the TLP would allow Hydro Friends Fund to prepare a license application in a shorter timeframe than if prepared under the Integrated Licensing Process (ILP). This reduced timeframe would therefore reduce the cost of the Project's licensing. Like other applicants with small hydropower project before the Commission, it is important for Hydro Friends Fund to license the Project in an expeditious manner. The Project is receiving a grant from the U.S. Department of Energy for innovative new hydropower deployments, which is tied to the 2012 and 2013 appropriations cycles. Hydro Friends Fund also needs to take advantage of production tax credits, which are expiring in the near future (the placed-in-service date must be prior to 12/31/13).

The amount of available information and potential for significant disputes over studies

As mentioned previously, the Monongahela River has been actively studied since the 1970s and Hydro Friends Fund has performed an initial collection of readily available environmental information for the development of the PAD. Additionally, HGE has previously installed a similar modular hydropower technology on the Mississippi River in Hastings, Minnesota, at the Lock and Dam No. 2 Hydroelectric Project (P-4306).

The studies proposed in this PAD are comparable to those performed for the Lock and Dam No. 2 Project, as well as other conventional low-head or small hydropower projects that have been approved by the Commission. Hydro Friends Fund believes that the stakeholders will

generally support its proposed study plan and does not anticipate considerable study disputes to arise.

Other factors believed by the Applicant to be pertinent

Hydro Friends Fund considers the TLP to be the most efficient and effective licensing approach for obtaining an original license for the proposed Project given all of the factors discussed above.

The Commission should also note that after additional consultation with stakeholders, as per FERC's guidelines for the expedited licensing of small, low-impact hydropower projects, Hydro Friends Funds intends to pursue additional methods to reduce the overall timeframe for the licensing of this project, such as reduced comment periods and potential waivers of certain requirements.

Hydro Friends Fund is filing this NOI and request to use the TLP concurrently with a PAD for the Project. In accordance with 18 CFR § 5.5(c), and as indicated in the attached distribution list, Hydro Friends Fund is providing a copy of this NOI, TLP request, and PAD to all affected resource agencies, Indian tribes, and members of the public likely to be interested in this proceeding.

As required by 18 CFR § 5.3(d)(1), all comments regarding this request to use the TLP must be filed with the Commission within 30 days of filing of this request—which is January 23, 2012. In addition, any comments regarding this request must reference FERC Project No. 13739. Furthermore, as required by 18 CFR § 5.3(d)(2), Hydro Friends Fund has published a notice of the filing of this NOI, TLP request, and PAD. Given the location of the Project, Hydro Friends Fund has filed the notice in the Pittsburgh Tribune Review on December 22, 2011. Hydro Friends Fund will file copies of this notice with the Commission upon receipt of the affidavit of publication.

In reference to 18 CFR § 5.5(e), Hydro Friends Fund is hereby requesting designation as the non-federal representative for Endangered Species Act consultation and for consultation under Section 106 of the National Historic Preservation Act. Additionally, Hydro Friends Fund is requesting (as it did on seven projects on the Mississippi River) that FERC conduct early issues scoping in concert with the Joint Agency Meetings. Hydro Friends Fund believes this approach will allow for an enhanced consultation process and achieve more timely TLP milestones.

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Request to Use the Traditional Licensing
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If the Commission approves the use of the TLP and early scoping, Hydro Friends Fund proposes to host a joint agency and public meeting and site visit in accordance with 18 CFR § 16.8 (b)(A) within 30 days of the TLP approval.

If there are any questions concerning this NOI, Request to Use the TLP, or the PAD, please contact me by phone at (877) 556-6566 ext. 711 or e-mail at mark@hgenergy.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Stover', with a long horizontal line extending to the right.

Mark R. Stover
Designated Representative
Hydro Friends Fund XLII
Vice President of Corporate Affairs
Hydro Green Energy, LLC

Enclosure

xc: J. Gibson, HDR

BRADDOCK LOCKS AND DAM HYDROELECTRIC PROJECT
FERC PROJECT NO. 13739

NOTICE OF INTENT TO FILE LICENSE APPLICATION

Pursuant to 18 CFR § 5.5 of the Federal Energy Regulatory Commission (FERC or Commission) regulations, Lock+™ Hydro Friends Fund XLII (Hydro Friends Fund), a wholly owned subsidiary of Hydro Green Energy, LLC, hereby gives notice and declares its intent to apply for an initial license for the 3.75 MW Braddock Locks and Dam Hydroelectric Project (FERC No. 13739) located at U.S. Army Corps of Engineers (USACE) Braddock Locks and Dam on the Monongahela River.

The following information regarding the Braddock Locks and Dam Hydroelectric Project (or “Project”) is provided pursuant to 18 CFR § 5.5(b):

(1) Applicant: Lock+™ Hydro Friends Fund XLII

Contacts: Mr. Mark R. Stover
Designated Representative
Lock+™ Hydro Friends Fund XLII
Vice President of Corporate Affairs
Hydro Green Energy, LLC
900 Oakmont Lane, Suite 310
Westmont, IL 60559
Telephone: (877) 556-6566 ext. 711
Email: mark@hgenergy.com

(2) FERC Project Number: 13739

(3) License Expiration Date:

This application is for an unconstructed project for which the Applicant is the preliminary permit holder; as such, no license currently exists.

(4) Statement of Intent to File:

Hydro Friends Fund hereby states its intent to file an application for an original license for the 3.75 MW Braddock Locks and Dam Hydroelectric Project (FERC No. 13739). Hydro Friends Fund requests to use the Commission’s Traditional Licensing Process (TLP) in support of this licensing.

(5) Principal Project Works:

The proposed Project will consist of one large steel frame module that is approximately 55 feet long and 40 feet high that contains five low-head hydropower turbines, which will be installed in a single row, along with flow-control door assemblies that can open and close off flow to the units during an event that would require a suspension of generation. The modular large frame module will be placed at the dam on the side of the dam furthest away from the navigational lock. If needed, the large frame module would be housed between two pre-fabricated concrete walls that would serve to guide flow into the turbines downstream of the dam (essentially acting as a conduit). If needed, the large frame module will be anchored to new pilings in the river bed.

Each of the low-head modular bulb turbines will have an installed capacity of approximately 750 kW based on a design head of 8.7 feet and an approximate diameter of 7 feet. The entire system of low-head modular bulb turbines will produce approximately 3.75 MW from generator to grid. However, the HGE low-head modular bulb turbine is undergoing additional design work (some design work through a grant program provided by the U.S. Department of Energy) at the present time and the capacity may change. The final installed, minimum, and maximum capacities will be known during the preparation of the license application.

Interconnection opportunities are currently being investigated and preliminary options are being pursued. Hydro Friends Fund anticipates that the generated power will connect to the electric grid with the installation of a new transformer in a small, new switchyard and a new line to an existing substation. A low-voltage, 36.7-kilovolt (kV) (or less) distribution line will run from the hydropower station to the new switchyard that is approximately 25 feet by 50 feet. If required, a 69-kV transmission line will run approximately 3,000 feet from the switchyard to connect to an existing substation. However, as this proposed Project is still in the design phase, and transmission options are still under analysis, future licensing documents will provide additional detail.

With the exception of minor infrastructure to deliver power to the local electric grid, the proposed Project will have limited effect on any structures or facilities of the Braddock Locks and Dam. For reference purposes, the following is a description of the Braddock Locks and Dam.

The Braddock Locks and Dam was built from 1902 to 1906 and underwent a reconstruction that ended in 1953. Recently, its fixed crest dam was replaced with a gated dam. The Braddock Locks and Dam is comprised of a 721-foot gated dam, a land-side lock that is 110 feet wide and 720 feet long, and a river-side lock that is 56 feet wide by 360 feet long. These locks provide an 8.7-foot vertical lift (Port of Pittsburgh Commission, undated).

(6) Project Location:

State: Pennsylvania
County: Allegheny
Waterbody: Monongahela River
Town: Braddock

(7) Installed Capacity:

The entire system of turbines will have a maximum installed capacity of 3.75 megawatts.

(8) Names and Mailing Addresses:

a. Of every county in which any part of the Project is located:

Allegheny County
501 County Office Building
542 Forbes Avenue
Pittsburg, PA 15219

b. Every city, town, or similar political subdivision:

(i) In which any part of the Project is or is to be located:

City of Duquesne
125 2nd Street
Duquesne, PA 15110

(ii) That has a population of 5,000 or more people and is located within 15 miles of the Project dam:

Borough of Wilkinsburg
605 Ross Avenue
Wilkinsburg, PA 15221

City of Duquesne
125 2nd Street
Duquesne, PA 15110

City of McKeesport
201 Lysle Boulevard
McKeesport, PA 15132

Borough of West Mifflin
3000 Lebanon Church Road
West Mifflin, PA 15122

Borough of Baldwin
10 Community Park Drive
Pittsburgh, PA 15234

Borough of Castle Shannon
3310 McRoberts Road
Castle Shannon, PA 15234

Borough of Craflon
100 Stotz Avenue
Pittsburgh, PA 15205

Borough of Carnegie
1 Glass Street
Carnegie, PA 15106

Borough of Forest Hills
2071 Ardmore Boulevard
Pittsburgh, PA 15221

Borough of Swissvale
7560 Roslyn Street
Swissvale, PA 15218

City of Pittsburgh
414 Grant Street, Suite 911
Pittsburgh, PA 15219

Borough of Bellevue
537 Bayne Avenue
Pittsburgh, PA 15202

Borough of West View
441 Perry Highway
West View, PA 15229

Township of Shaler Township
300 Wetzel Road
Glenshaw, PA 15116

Township of O'Hara Township
325 Fox Chapel Road
O'Hara Township, PA 15238

Borough of Oakmon
P.O. Box 384
504 Allegheny River Boulevard
Oakmon, PA 15139

Borough of Avalon
640 California Avenue
Pittsburgh, PA 15202

Township of North Versailles
1401 Greensburg Avenue
North Versailles, PA 15137

Borough of Plum
4575 New Texas Road
Plum, PA 15239

Borough of Turtle Creek
125 Monroeville Avenue
Turtle Creek, PA 15145

City of Clairton
551 Ravensburg Boulevard
Clairton, PA 15025

Township of Kennedy Township
340 Forest Grove Road
Coraopolis, PA 15108

Borough of Brentwood
3624 Brownsville Road
Pittsburgh, PA 15227

Borough of Bridgeville
425 Bower Hill Road
Bridgeville, PA 15017

- c. Every irrigation district, drainage district, or similar special purpose political subdivision:
 - (i) In which part of the Project is located:
None
 - (ii) Or that owns, operates, maintains, or uses any Project facility that is or is proposed to be used by the Project:
None

- d. Every other political subdivision in the general area of the Project that there is reason to believe would be likely to be interested in, or affected by, the notification:
None

- e. Potentially Affected Indian Tribes:
None were identified