

***FILED ELECTRONICALLY***

October 25, 2012

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. 13739-002)  
Response to October 17, 2012 Deficiency of Application and Request for  
Additional Information**

Dear Secretary Bose:

Lock+™ Hydro Friends Fund XLII, LLC (Hydro Friends Fund) received a notice of deficiency and request for additional information for the Braddock Locks and Dam Hydroelectric Project, FERC No. 13739 Original License Application on October 17, 2012. This filing responds to the deficiencies framed in Schedule A of the October 17 letter. In addition, Hydro Friends Fund is in the process of preparing a response to Schedule B of this request.

Where responses to the Schedule A items have resulted in modifications to the application, Hydro Friends Fund presents these modifications in this response.

I appreciate the opportunity to provide a timely reply to the Commission. If there are any questions or concerns, please contact me by phone at (877) 556-6566 ext. 711 or email at [mark@hgenergy.com](mailto:mark@hgenergy.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark R. 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

## Distribution List

Jeff Benedict  
U.S. Army Corps of Engineers  
2200 W.S. Moorhead Federal Building  
1000 Liberty Avenue  
Pittsburg, PA 15222

Bob Dach, Hydropower Program Manager  
U.S. Bureau of Indian Affairs, Natural Resources  
911 NE 11<sup>th</sup> Avenue  
Portland, OR 97232

Lora Zimmerman  
U.S. Fish and Wildlife Service  
Pennsylvania Field Office  
315 S. Allen St., Suite 322  
State College, PA 16801

Michael Chezik, Regional Environmental Officer  
U.S. Department of the Interior  
200 Chestnut Street, Room 244  
Philadelphia, PA 19106

Section Chief  
U.S. Environmental Protection Agency, Region 3  
1650 Arch Street  
Philadelphia, PA 19103-2029

U.S. Bureau of Indian Affairs  
Eastern Regional Office  
545 Marriott Drive, Suite 700  
Nashville, TN 37214

U.S. Coast Guard, MSO Philadelphia  
1 Washington Avenue  
Philadelphia, PA 19147

Cynthia Wilkerson, Northeast Regional Director  
National Park Service, Northeast Regional Office  
Custom House  
200 Chestnut Street, Fifth Floor  
Philadelphia, PA 19106-2913

Joseph Snyder  
Pennsylvania Dept of Environmental Protection  
Southwest Regional Office  
400 Waterfront Drive  
Pittsburg, PA 15222

Pennsylvania Game Commission  
2001 Elmerton Avenue  
Harrisburg, PA 17110

Bob Ventorini  
Pennsylvania Fish and Boat Commission  
Southwest Regional Office  
236 Lake Road  
Somerset, PA 15501

Pennsylvania Historical and Museum Commission  
Bureau for Historic Preservation  
Commonwealth Keystone Building, Second Floor  
400 North Street  
Harrisburg, PA 17120-0093

Regional Director  
National Marine Fisheries Service  
55 Great Republic Drive  
Gloucester, MA 01930-2276

Regional Administrator  
National Oceanic and Atmospheric Administration  
Fisheries Regional Office  
One Blackburn Drive  
Gloucester, MA 01930-2298

**Response to 10/17/12 Deficiency or Application**

**Schedule A**

1. *Provide a statement that you have made a good faith effort to give notification by certified mail of the filing of the application to every property owner of record of any interest in the property within the bounds of the project, as required by section 4.32(a)(3)(i)(A).*

**Response:** Hydro Friends Fund has made a good faith effort to give notification by certified mail of the filing of the Braddock Locks and Dam Hydroelectric Project (FERC No. 13739) application to every property owner of record of any interest in the property within the bounds of the project. Please refer to Attachment A of this response for a copy of the mailed notification and associated distribution list.

2. *Provide the transmission line rating for the portion of the transmission line extending from the new switchyard (located near the powerhouse) to the existing substation as required in section 4.61(c)(1)(viii).*

**Response:** The line rating for the portion of the distribution line extending from the new switchyard to the existing substation is 23 kilovolts (kV). Given the lower voltage associated with this line, Hydro Friends Fund will refer to this line as a distribution line, as compared to a transmission line throughout the remainder of this relicensing process, including to the response to the Schedule B Additional Information Request.

3. *Provide a statement as to the purposes of the project, for example the use of power output, as required in section 4.61(c)(2).*

**Response:** The purpose of the Project is to generate and supply clean, emission-free, and efficient renewable electricity to the public and to other firms, individuals, and corporations in the Boroughs of Braddock and West Mifflin, Pennsylvania and in adjacent towns. Project power is proposed to be wheeled to the grid and sold to a local utility (e.g., Duquesne Light) through a

power purchase agreement, a local large power user, or to PJM under a merchant power plant mode of operation.

4. *Provide a detailed single line diagram as required in section 4.61(c)(8).*

**Response:** Hydro Friends Fund have provided a single-line diagram for the proposed Project in Attachment B to this response.

5. *Your Exhibit G maps and drawings currently do not meet the standards and specifications set forth in sections 4.39 and 4.41 (h) of our regulations, for the following reasons:*

*(a) the Exhibit G drawing is not stamped by a registered land surveyor<sup>1</sup> as required by section 4.39(a);*

**Response:** Hydro Friends Fund notified the Commission in a letter dated October 20, 2012, that the Exhibit G drawing submitted to the Commission on CD-ROM on September 18, 2012 included an electronic and updated Exhibit G drawing stamped by a registered land surveyor along with the required GIS shapefiles. In preparing this response to the deficiencies identified by the Commission pertaining to Exhibit G, Hydro Friends Fund has revised the drawing and is providing an updated version of the drawing as Attachment C to this response.

*(b) the Exhibit G drawing should show the location of the hydropower switchyard<sup>2</sup> (located about 20 feet away from the powerhouse) within the project boundary as required by section 4.41(h)(2);*

**Response:** The Exhibit G drawing has been revised to include the location of the proposed switchyard. The updated drawing is presented in Attachment C to this response.

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<sup>1</sup> The land surveyor is certifying that the Exhibit G drawing is positionally accurate to +/- 40 feet, in order to comply with National Map Accuracy Standards for maps at a 1:24,000 scale (the scale of United States Geological Survey (USGS) quadrangle maps).

<sup>2</sup> Also, label the switchyard on the Exhibit G drawing.

*(c) the federal lands (if any) located within the project boundary must be shown and labeled on the Exhibit G drawing as required by section 4.41(h)(3);*

**Response:** Hydro Friends Fund has determined that there is a small parcel of approximately 0.19 acres of federal land managed by the US Army Corps of Engineers (USACE) associated with the abutment and portion of the dam located within the proposed project boundary. The Exhibit G drawing has been revised to show and label these federal lands and is included in Attachment C to this response.

*(d) the non-federal lands located within the project boundary must be shown and labeled on the Exhibit G drawing as required by section 4.41(h)(4); and*

**Response:** As indicated in the updated Exhibit G drawing, with the exception of the federal lands associated with the USACE parcel, all lands associated with the proposed project boundary are non-federal lands. A note has been added to the Exhibit G drawing above the title block clarifying that only easement lands and a small amount of federal land are proposed for inclusion within the project boundary. At the current time, Hydro Friend Funds anticipates obtaining the required easements in support of construction and operation of the Project, as compared to obtaining any lands in fee.

*(e) provide the project boundary data in a geo-referenced electronic format (e.g., ArcView shape files, GeoMedia files, MapInfo files or any similar format) as required by section 4.41(h).*

*Please update your Exhibit G maps and drawings to conform to the standards and specifications as set forth in sections 4.39 and 4.41(h).*

**Response:** The Exhibit G map and drawing conforms with the standards and specifications set forth in sections 4.39 and 4.41(h) and concurrent with this eFiled response, Hydro Friend Funds is submitting a CD-ROM via Fed-Ex to the Commission that includes the digital files required by 18 CFR §4.41(h).

**Revision of Certain Sections of the License Application as a  
Result of this Response**

The following revisions to the license application filed with the Commission on September 17, 2012 result from this response.

1. Item 8 in the Initial Statement is revised to reflect that the proposed Project occupies 0.19 acres of federal land managed by the USACE.
2. There are two subsections labeled A.2.3.1.2 in Exhibit A but no subsection A.2.3.1.1 included in the application as filed. The first occurrence of this subsection titled “Reservoir Gross Storage Capacity and Normal Maximum Water Surface Area and Elevation” should have been numbered as subsection A.2.3.1.1.
3. The rating for the portion of the distribution line running from the proposed switchyard to the grid connection at the Kennywood substation is 23 kV, as noted item 2 of the above response to deficiencies. This distribution line capacity is revised in section A.2.3.1.3 of the license application.
4. Section A.2.10 is revised to reflect that a single-line diagram has been developed for this proposed Project and is filed as part of this response in Attachment B.
5. The last paragraph on page 1-5 of the Preliminary Supporting Design report (filed as CEII with the license application) is revised to correctly reflect that the proposed new switchyard that measures 25 feet by 50 feet will be located approximately 20 feet away from the Braddock Dam abutment, as shown on the updated Exhibit G drawing included in Attachment C to this response.

**ATTACHMENT A**

**PROPERTY NOTIFICATION OF ORIGINAL LICENSE APPLICATION FILING**

**Sent by USPS Certified Mail**

October 24, 2012

**SUBJECT: Braddock Locks and Dam Hydroelectric Project (FERC No. 13739)  
Property Notification of Original License Application Filing**

To Whom It May Concern:

Lock+™ Hydro Friends Fund XLII, LLC (Hydro Friends Fund) filed an application with the Federal Energy Regulatory Commission (“FERC”) for an original license for the Braddock Locks and Dam Hydroelectric Project, FERC No. 13739 (“Project”) on September 17, 2012.

The license application included an Exhibit G drawing, which provides a map of the project area and identifies the proposed project boundary. In the time since the application was filed on September 17, 2012, the Exhibit G drawing has been updated to provide additional information and the most recent version is attached for your reference.

We are forwarding the updated Exhibit G map and final license application transmittal letter to you as required by FERC licensing regulations because your property is associated with the proposed project boundary that will encompass the project transmission line. As licensing activities for the proposed project proceed, Hydro Friends Fund will be in contact with you regarding the project and the proposed transmission line.

Copies of the license application and the other primary licensing filings are available for download on our project website at <http://hgenergy.com/BraddockLicensing.html>.

If there are any questions or concerns, please contact me by phone at (877) 556-6566 ext. 711 or email at [mark@hgenergy.com](mailto:mark@hgenergy.com).

Sincerely,



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

Enclosure

cc: Attached Distribution List



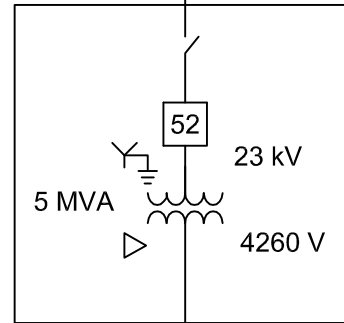
## Distribution List

1. Union Railroad Company  
1200 Penn Ave, Suite 300  
Pittsburgh, PA 15222
2. Pennsylvania Railroad Company  
110 Franklin Road SE  
Roanoke, VA 24042
3. Regional Trail Corporation  
PO Box 95  
West Newton, PA 15089
4. West Mifflin Sanitary Sewer Municipal Authority  
1302 Lower Bull Run Road  
West Mifflin, PA 15122
5. Festival Fun Parks LLC  
PO Box 543185  
Dallas, TX 75354
6. Aliberti Francine  
322 Valeview Drive  
West Mifflin, PA 15122
7. Jacob and Marie Bradich  
4424 Shadynook Street  
West Mifflin, PA 15122
8. Jeff Benedict  
U.S. Army Corps of Engineers  
2200 William S. Moorhead Federal Bldg  
1000 Liberty Ave.  
Pittsburgh, PA 15222

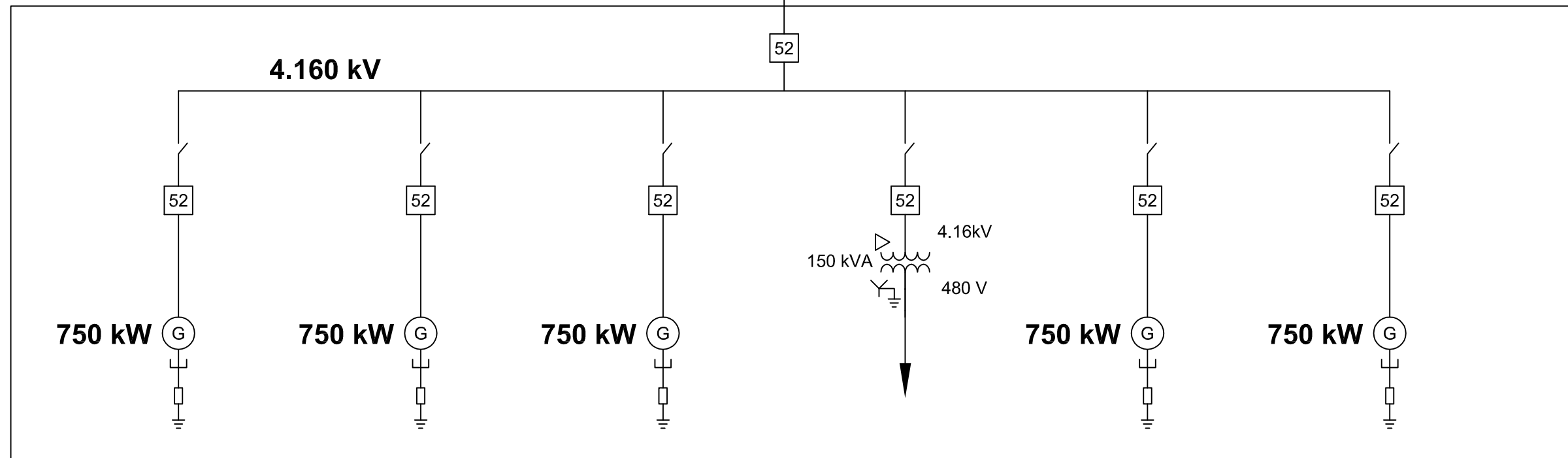
**ATTACHMENT B**  
**SINGLE-LINE DIAGRAM**

TO KENNYWOOD SUBSTATION

NEW BRADDOCK SWITCHYARD



NEW BRADDOCK POWERHOUSE



INDUCTION GENERATOR 1

INDUCTION GENERATOR 2

INDUCTION GENERATOR 3

STATION SERVICE

INDUCTION GENERATOR 4

INDUCTION GENERATOR 5

PRELIMINARY  
NOT FOR  
CONSTRUCTION  
OR  
RECORDING

WARNING:  
IT IS A VIOLATION OF LAW  
TO ALTER THIS DOCUMENT  
UNLESS BY DIRECTION OF  
A LICENSED PROFESSIONAL  
ENGINEER.

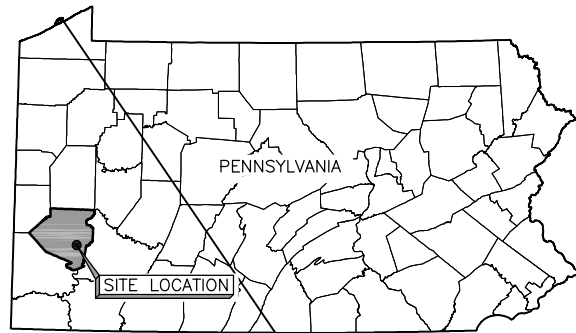


HDR ENGINEERING, INC.  
PORTLAND, MAINE

BRADDOCK LOCKS AND DAM HYDROELECTRIC  
PROJECT  
(FERC NO. 13739)  
ONE LINE DIAGRAM

OCTOBER 25, 2012

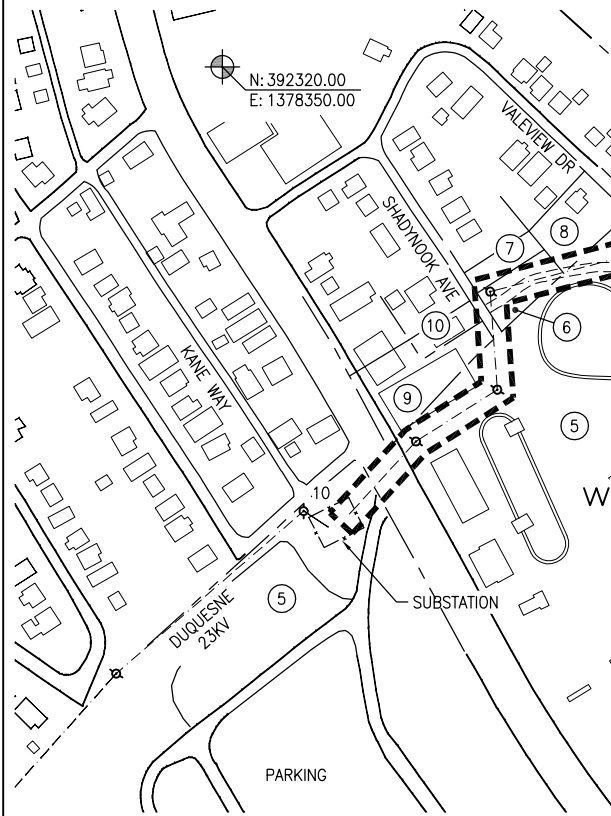
**ATTACHMENT C**  
**EXHIBIT G DRAWING**



**LOCATION PLAN**  
SCALE: 1"=50 MILES



N: 392320.00  
E: 1378350.00



WEST MIFFLIN  
ALLEGHENY COUNTY

KENNYWOOD  
AMUSEMENT PARK

DUQUESNE  
ALLEGHENY COUNTY

LAND OWNERSHIP		
NO	PARCEL ID	OWNER
1	0237-F-00390-0000-02	UNION RAILROAD COMPANY
2	0237-F-00395-0000-01	PENNSYLVANIA RAILROAD CORPORATION
3	0237-R-00301-0000-00	REGIONAL TRAIL CORPORATION
4	0303-E-00050-0000-00	WEST MIFFLIN SANITARY SEWER MUNICIPAL AUTHORITY
5	0238-M-00200-0000-00	FESTIVAL FUN PARKS, LLC
6	0238-H-00275-0000-00	FESTIVAL FUN PARKS, LLC
7	0238-H-00273-0000-00	FESTIVAL FUN PARKS, LLC
8	0238-H-00242-0000-00	ALIBERTI FRANCINE
9	0238-M-00130-0000-00	FESTIVAL FUN PARKS, LLC
10	0238-H-00286-0000-00	BRADICH JACOB T & MARIE J

**REFERENCE COORDINATE METADATA**

PROJECTION - PENNSYLVANIA STATE PLANE  
DATUM - NAD83  
ZONE - SOUTH  
UNITS - U.S. SURVEY FEET

**GEOREFERENCE SOURCE DATA**

- PASDA PENNSYLVANIA SPATIAL DATA ACCESS:  
AERIAL/VECTOR DATA: <http://www.pasda.psu.edu/default.asp>  
(ORIGINAL COORDINATE SYSTEM: PENNSYLVANIA STATE PLANE, NAD83, SOUTH ZONE, U.S. FEET)
- PICTOMETRY: GEOREFERENCED AERIAL IMAGERY  
(ORIGINAL COORDINATE SYSTEM: WGS84)

**SURVEYORS STATEMENT**

I HEREBY CERTIFY TO THE FEDERAL ENERGY REGULATORY COMMISSION (FERC) THAT THIS PLAN MEETS THE CONDITIONS SET FORTH BY FERC FOR ITS EXPRESSED PURPOSE. THE PURPOSE OF THIS MAP IS TO PROVIDE A GEOREFERENCED VISUAL DEPICTION OF THE LOCATION OF PROJECT FEATURES AND BOUNDARIES BASED ON THE BEST AVAILABLE HISTORICAL DRAWINGS AND DIGITAL REFERENCE SOURCES INCORPORATED INTO THE GEOGRAPHIC INFORMATION SYSTEM (GIS). LOCATIONS HAVE NOT BEEN VERIFIED BY PHYSICAL FIELD SURVEYS AND THIS DRAWING SHOULD NOT BE USED FOR PURPOSES OF DEVELOPING PROPERTY BOUNDARY DESCRIPTIONS.



**PLAN**  
SCALE: 1"=150'



**LEGEND:**

- PROPERTY LOT
- USACE FEDERAL LAND
- PROJECT BOUNDARY
- CITY/TOWN LINE/PROPERTY
- SHORELINE/STREAM
- TRANSMISSION LINE
- FENCE
- PRIMARY ROADS
- SECONDARY ROADS
- RAILROAD TRACKS

NOTE:  
ALL LANDS WITHIN THE PROJECT BOUNDARY NOT SHOWN AS FEDERAL LAND ARE PRIVATELY HELD. THE APPLICANT PLANS TO ACQUIRE EASEMENTS FOR ALL THE LAND WITHIN THE BOUNDARY TO ALLOW OCCUPANCY AND USE FOR THE OPERATION OF THE PROPOSED PROJECT.

EXHIBIT G-1		SHEET 1 OF 1	
BRADDOCK PROJECT BOUNDARY MAP AND LOCATION MAP			
LOCK+ HYDRO FRIENDS FUND XLII, LLC FERC No. 13739 WESTMONT, IL			
DATE:	SCALE:	APPROVED:	
JUNE 2012	AS NOTED		