

**617.20**  
**Appendix A**  
**State Environmental Quality Review**  
**FULL ENVIRONMENTAL ASSESSMENT FORM**

**Purpose:** The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasurable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

**Full EAF Components:** The full EAF is comprised of three parts:

- Part 1:** Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.
- Part 2:** Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.
- Part 3:** If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

**DETERMINATION OF SIGNIFICANCE – Type 1 and Unlisted Actions**

**Identify the Portions of EAF completed for this project:**                     Part 1             Part 2             Part 3

Upon review of the information recorded on this EAF (Parts 1 and 2 and 3 if appropriate), and any other supporting information, and considering both the magnitude and importance of each impact, it is reasonably determined by the lead agency that:

- A. The project will not result in any large and important impact(s) and, therefore, is one which **will not** have a significant impact on the environment, therefore **a negative declaration will be prepared.**
- B. Although the project could have a significant effect on the environment, there will not be a significant effect for this Unlisted Action because the mitigation measures described in PART 3 have been required, therefore **a CONDITIONED negative declaration will be prepared.\***
- C. The project may result in one or more large and important impacts that may have a significant impact on the environment, therefore **a positive declaration will be prepared.**

\*A Conditioned Negative Declaration is only valid for Unlisted Actions

Glenwood Transmission Line Relocation and Power Station Demolition Project

Name of Action

Long Island Power Authority

Name of Lead Agency

Nick Lizanich

Print or Type Name of Responsible Officer in Lead Agency

Vice President of Operations

Title of Responsible Officer

\_\_\_\_\_  
Signature of Responsible Officer in Lead Agency

\_\_\_\_\_  
Signature of Preparer (if different from responsible officer)

December 21, 2011

Date

## PART 1--PROJECT INFORMATION

### Prepared by Project Sponsor

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Name of Action:		
Glenwood Transmission Line Relocation and Power Station Demolition Project		
Location of Action (include Street Address, Municipality and County)		
Transmission Line - West Shore Road and Shore Road, Town of North Hempstead, Nassau County New York - West Shore Road and Glenwood Road, Town of Oyster Bay, Nassau County New York Glenwood Power Station - Shore Road, Town of North Hempstead, Nassau County New York.		
Name of Applicant/Sponsor Long Island Power Authority (Transmission Line) and National Grid Generation, LLC (Power Station)	Business Telephone 516 719-7518 (LIPA); 516 545-2483 (National Grid)	
LIPA – 333 Earle Ovington Blvd. Suite 403, Uniondale NY 11553 National Grid – 175 E. Old Country Road Hicksville NY 11801 Address		
City/PO      See above	State See above	Zip Code See above
Name of Owner (if different)	Business Telephone	
Address		
City/PO	State	Zip Code:
Description of Action Refer to Attachment 1 for a Description of the Proposed Action.		

Please Complete Each Question--Indicate N.A. if not applicable

**A. Site Description**

Physical setting of the overall project, both developed and undeveloped areas.

1. Present land use: Urban Industrial Commercial Residential (suburban) Rural (non-farm)  
Forest Agriculture Other

The Transmission Line corridor includes roadway right-of-way and open water. The Power Station Site is Industrial.

2. Total acreage of project area:

The length of the relocated transmission line will be about 1,350 – 1,450 feet over Hempstead Harbor  
 The Power Station Site is about 15.7 acres in total, of which about 5 acres will be affected.

APPROXIMATE ACREAGE	PRESENTLY	AFTER COMPLETION
Meadow or Brushland (Non-agricultural)	_____ acres	_____ acres
Forested	_____ acres	_____ acres
Agricultural (Includes orchards, cropland, pasture, etc.)	_____ acres	_____ acres
Wetland (Freshwater or tidal as per Articles 24,25 of ECL)	_____ acres	_____ acres
Water Surface Area	_____ acres	_____ acres
Unvegetated (Rock, earth or fill) -	_____ acres	_____ acres
Roads, buildings and other paved surfaces	5 +/- acres	5 +/- acres
Other (Indicate type) (Aerial crossing of the harbor)	1.7 +/- acres	1.7 +/- acres

3. What is predominant soil type(s) on project site?

The Natural Resource Conservation Service (NRCS) Web Soil Survey data show the predominant soil types as “Ub” - Urban Land and “UdA” - Udipsamments, nearly level.

- a. Soil drainage: Well drained \_\_\_\_\_ % of site Moderately well drained \_\_\_\_\_ % of site  
Poorly drained \_\_\_\_\_ % of site

Soil drainage for “UdA” is classified as “Somewhat Excessively Drained.” “Ub” soils are not rated with respect to soil properties, including drainage.

- b. If any agricultural land is involved, how many acres of soil are classified within soil group 1 through 4 of the NYS Land Classification System? \_\_\_\_\_ acres (See 1 NYCRR 370). Not Applicable

4. Are there bedrock outcroppings on project site? Yes No

a. What is depth to bedrock? (in feet) NRCS data - 3.3 to 6.6 ft for “UdA”, nearly level soils. Depth to bedrock datum is not available for “Ub” soils.

5. Approximate percentage of proposed project site with slopes:  0-10% 100%  10-15% \_\_\_\_\_ %  
 15% or greater \_\_\_\_\_ %

6. Is project substantially contiguous to, or contain a building, site, or district, listed on the State or the National Registers of Historic Places? Yes No

7. Is project substantially contiguous to a site listed on the Register of National Natural Landmarks? Yes No

8. What is the depth of the water table? 4 – 11 (in feet)

9. Is site located over a primary, principal, or sole source aquifer? Yes No

The U.S. Environmental Protection Agency (USEPA) designated Nassau County as a sole source aquifer on June 21, 1978 (43 FR 26611).

10. Do hunting, fishing or shell fishing opportunities presently exist in the project area? Yes No

11. Does project site contain any species of plant or animal life that is identified as threatened or endangered?  
Yes No

According to: NYSDEC Natural Heritage Program

Identify each species: Peregrine Falcon (*Falco peregrinus*) – a NYS Endangered Species. See Attachment 1 for information related to mitigating project impacts by providing an alternate nesting location in cooperation with NYSDEC.

12. Are there any unique or unusual land forms on the project site? (i.e., cliffs, dunes, other geological formations)  
Yes No Describe
13. Is the project site presently used by the community or neighborhood as an open space or recreation area?  
Yes No If yes, explain.

Existing Steel Poles 2 and 3 that carry the transmission line are located in the parking lot of the North Hempstead Beach Park (aka, Bar Beach). No ground disturbing work will be conducted at either pole under the proposed action.

14. Does the present site include scenic views known to be important to the community?  
Yes No

Refer to Attachment 1, A.14.

15. Streams within or contiguous to project area:

The NYSDEC Environmental Resource Mapper shows no streams in the vicinity of the project site.

a. Name of Stream and name of River to which it is tributary: Not Applicable.

16. Lakes, ponds, wetland areas within or contiguous to project area:

a. Name \_\_\_\_\_ b. Size (In acres) \_\_\_\_\_

Most of the project site borders Hempstead Harbor, which is a New York State-designated Significant Coastal Fish and Wildlife Habitat. Tidal wetlands are present on the western shore of Hempstead Harbor; however, no existing poles, proposed poles or demolition activities associated with the action are in the wetland or its adjacent area.

17. Is the site served by existing public utilities? Yes No
- a) If Yes, does sufficient capacity exist to allow connection? Yes No
- b) If Yes, will improvements be necessary to allow connection? Yes No
18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? Yes No
19. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617? Yes No

20. Has the site ever been used for the disposal of solid or hazardous wastes? Yes No A Phase 1 Environmental Site Assessment (ESA) is underway. Refer to Attachment 1 for a discussion of the existing assessment and planned investigation.

## **B. Project Description**

1. Physical dimensions and scale of project (fill in dimensions as appropriate)

- a. Total contiguous acreage owned or controlled by project sponsor 15.7 acres.
- b. Project acreage to be developed: Less than 0.5 acres initially, Less than 0.5 acres ultimately.  
Related to new pole installation only.
- c. Project acreage to remain undeveloped \_\_\_\_\_ acres. Not applicable
- d. Length of project, in miles: 0.25 – 0.27 (if appropriate). Transmission line relocation component only.
- e. If the project is an expansion, indicate percent of expansion proposed \_\_\_\_\_ % Not Applicable
- f. Number of off-street parking spaces existing \_\_\_\_\_; proposed: \_\_\_\_\_ Not Applicable
- g. Maximum vehicular trips generated per hour: \_\_\_\_\_ Not Applicable  
(upon completion of project).

Power Stations 2 and 3 and associated facilities will be closed and demolished. Therefore, the number of trips compared to current operating conditions will be reduced by about 100 – 125 trips per day at that time.



h. If residential, Number and type of housing units: Not Applicable.

	One Family	Two Family	Multiple Family	Condominium
Initially	_____	_____	_____	_____
Ultimately	_____	_____	_____	_____

i. Dimensions (in feet) of largest proposed structure \_\_\_\_\_ height; \_\_\_\_\_ width; \_\_\_\_\_ length.

Under the Preferred Relocation Option, the tallest steel poles (2) will be 201 ft above ground level (AGL). Under the Alternative Relocation Option, the tallest steel pole (1) will be 230 ft AGL. Comparatively, the six existing stacks on Power Station 2 are about 250 ft AGL; the existing two lattice structures on the roof of Power Station 2 are about 200 ft AGL.

j. Linear feet of frontage along a public thoroughfare project will occupy is?

No change in linear feet of frontage - about 1,200 ft - along Shore Road (a public thoroughfare).

2. How much natural material (i.e., rock, earth, etc.) will be removed from the site? 0 tons/cubic yards.

3. Will disturbed areas be reclaimed?  Yes  No  N/A

a. If yes, for what intended purpose is the site being reclaimed?

b. Will topsoil be stockpiled for reclamation?  Yes  No

c. Will upper subsoil be stockpiled for reclamation?  Yes  No

Site areas disturbed by the demolition will be restored to match existing site contours with an asphalted / gravel surface.

4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site?

Less than 50 square feet with replacement wooden poles on west side of harbor.

5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project?

Yes  No

6. If single phase project: Anticipated period of construction approximately 32 months, (including demolition). Work is planned to commence in April 2012 with the transmission line relocation and Power Station demolition will be completed near the end of 2014.

7. If multi-phased: Not Applicable

a. Total number of phases anticipated (number):

b. Anticipated date of commencement phase 1 \_\_\_\_\_ month \_\_\_\_\_ year, (including demolition).

c. Approximate completion date of final phase \_\_\_\_\_ month \_\_\_\_\_ year.

d. Is phase 1 functionally dependent on subsequent phases?  Yes  No

8. Will blasting occur during construction?  Yes  No

9. Number of jobs generated: during construction? 50 - 75 after project is complete? 0

10. Number of jobs eliminated by this project? 0 It is expected that current positions will be retained through transfers to other operations.

11. Will project require relocation of any projects or facilities?  Yes  No If yes, explain Relocation of the existing 69 kV transmission line is part of the proposed action.

12. Is surface liquid waste disposal involved?  Yes  No

a. If yes, indicate type of waste (sewage, industrial, etc.) and amount. Refer to Attachment 1 for information related to the handling of groundwater from transmission pole foundation construction.

b. Name of water body into which effluent will be discharged: \_\_\_\_\_

13. Is subsurface liquid waste disposal involved?  Yes  No

Refer to Attachment 1 for information related to the handling of groundwater from transmission pole foundation construction.

If yes indicate type of waste (sewage, industrial, etc) and amount \_\_\_\_\_

Name of water body into which effluent will be discharged \_\_\_\_\_

14. Will surface area of an existing water body increase or decrease by proposal? Yes No  
Explain \_\_\_\_\_

15. Is project, or any portion of project, located in a 100 year flood plain? Yes No

Portions of the Power Station Site west of Shore Road are in the 100-year flood plain. Existing steel poles SP1 and SP2 on the western side of the harbor are in the 100-year flood plain. No work will be done at these pole locations.

16. Will the project generate solid waste? Yes No

a. If yes, what is the amount per month? 1,000 tons. (approximate volume, over two years of demolition-related work).

b. If yes, will an existing solid waste facility be used? Yes No To be placed in a registered, permitted facility (e.g., Construction & Demolition debris, sanitary landfill, etc.)

c. If yes, give name: \_\_\_\_\_; location \_\_\_\_\_ To be determined.

d. Will any wastes not go into a sewage disposal system or into a sanitary landfill? Yes No

e. If Yes, explain See response to 16 b. above.

Materials from demolition will be recycled and reused to the maximum extent practicable.

17. Will the project involve the disposal of solid waste? Yes No

a. If yes, what is the anticipated rate of disposal? 750 tons/month. During demolition- related work only.

b. If yes, what is the anticipated site life? \_\_\_\_\_ years. Not applicable.

18. Will project use herbicides or pesticides? Yes No

19. Will project routinely produce odors (more than one hour per day)? Yes No

20. Will project produce operating noise exceeding the local ambient noise levels? Yes No

21. Will project result in an increase in energy use? Yes No

If yes, indicate type(s) \_\_\_\_\_

22. If water supply is from wells, indicate pumping capacity 500 gallons/minute. No change in pumping capacity is proposed as part of the action. Fire protection water will be from an on-site well that stores water (100,000 gallons) in the existing water tower. Water use will be reduced considerably compared to current operations when the project is completed.

23. Total anticipated water usage per day gallons/day. Demolition will require water for fire protection, dust suppression and abatement. Volumes are to be determined but will be less than current operational use.

24. Does project involve Local, State or Federal funding? Yes No  
If yes, explain \_\_\_\_\_

**25. Approvals Required:** Refer to Attachment 1, B.25 for potential approvals. Refer to Attachment 1, Description of Project for information on project outreach completed to date.

	Type	Submittal Date
City, Town, Village Board	<input type="checkbox"/> Yes <input type="checkbox"/> No	
City, Town, Planning Board	<input type="checkbox"/> Yes <input type="checkbox"/> No	
City, Town Zoning Board	<input type="checkbox"/> Yes <input type="checkbox"/> No	
City, County Health Department	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Other Local Agencies	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Other Regional Agencies	<input type="checkbox"/> Yes <input type="checkbox"/> No	
State Agencies	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Federal Agencies	<input type="checkbox"/> Yes <input type="checkbox"/> No	

### C. ZONING and PLANNING INFORMATION

1. Does proposed action involve a planning or zoning decision? Yes No

If Yes, indicate decision required:

- zoning amendment      zoning variance special use permit      subdivision      site plan  
new/revision of master plan      resource management plan      other \_\_\_\_\_

2. What is the zoning classification(s) of the site?

In the Town North Hempstead, the site on the west side of Shore Road is zoned Industrial B (“I-B”); that part of the site east of Shore Road on the parcel where demolition will take place is also zoned “I-B”. That part of the site east of Shore Road, where the new steel poles will be placed in an existing parking lot, is zoned Residence B (“R-B”). In the Town of Oyster Bay, that portion of the site where new steel poles will be placed in an existing parking lot is zoned Waterfront B (“WF-B”).

The zoning of the lands where replacement wooden poles will be installed in the Town of North Hempstead (on the west side of the harbor) is Residence AAA (“R-AAA”).

3. What is the maximum potential development of the site if developed as permitted by present zoning?

No development of the site is proposed as part of this action.

4. What is the proposed zoning of the site? Not Applicable

5. What is the maximum potential development of the site if developed as permitted by the proposed zoning? Not Applicable.

6. Is the proposed action consistent with the recommended uses in adopted local land use plans? Yes No

7. What are the predominant land use(s) and zoning classifications within a 1/4 mile radius of proposed action?

Predominant land use is a combination of industrial, residential and recreational. Predominant zoning is industrial, residential and waterfront/recreation.

8. Is the proposed action compatible with adjoining/surrounding land uses within a 1/4 mile? Yes No

9. If the proposed action is the subdivision of land, how many lots are proposed? Not Applicable.

a. What is the minimum lot size proposed?

10. Will proposed action require any authorization(s) for the formation of sewer or water districts? Yes No

The local sewer/water districts will be notified prior to demolition and letters of disconnect will be obtained.

11. Will the proposed action create a demand for any community provided services (recreation, education, police, fire protection)? Yes No

a. If yes, is existing capacity sufficient to handle projected demand? Yes No

12. Will the proposed action result in the generation of traffic significantly above present levels? Yes No

Refer to Attachment 1 for potential traffic mitigation measures to be implemented, as needed. The completion of the project will result in a net decrease in traffic.

If yes, is the existing road network adequate to handle the additional traffic? Yes No

### D. Informational Details

Attach any additional information as may be needed to clarify your project. If there are, or may be, any adverse impacts associated with your proposal, please discuss such impacts and the measures which you propose to mitigate or avoid them.

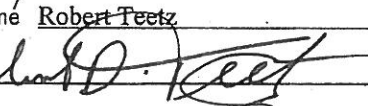
**E. Verification**

I certify that the information provided above is true to the best of my knowledge.

Applicant/Sponsor Name Nick Lizanich Date 12/21/2011

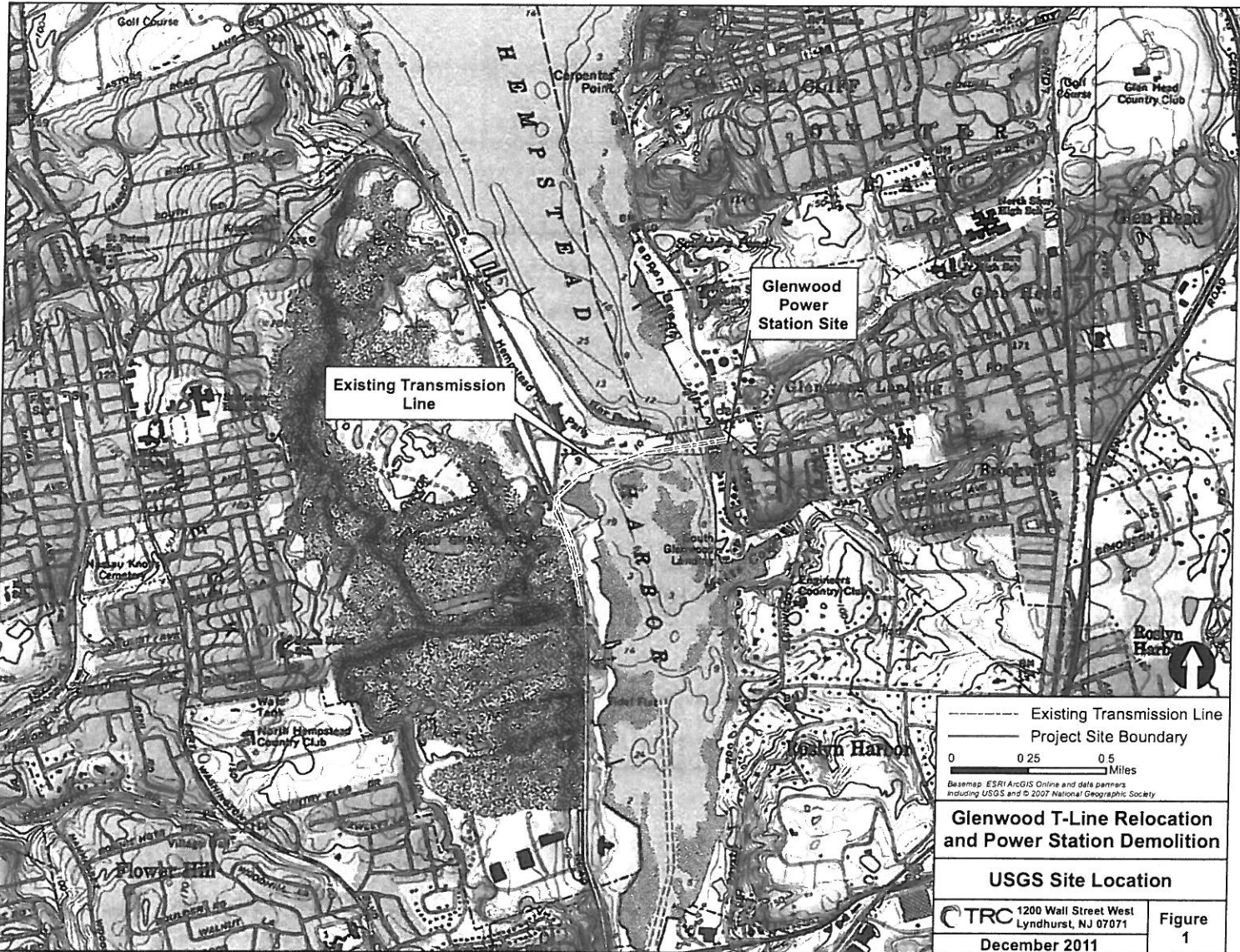
Signature  Title LIPA - Vice President of Operations

Applicant/Sponsor Name Robert Teetz Date 12/21/11

Signature  Title National Grid - Vice President Environmental Services

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

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- - - - - Existing Transmission Line  
 \_\_\_\_\_ Project Site Boundary  
 0 0.25 0.5  
 Miles  
Basemap: ESRI ArcGIS Online and data partners including USGS and © 2007 National Geographic Society.


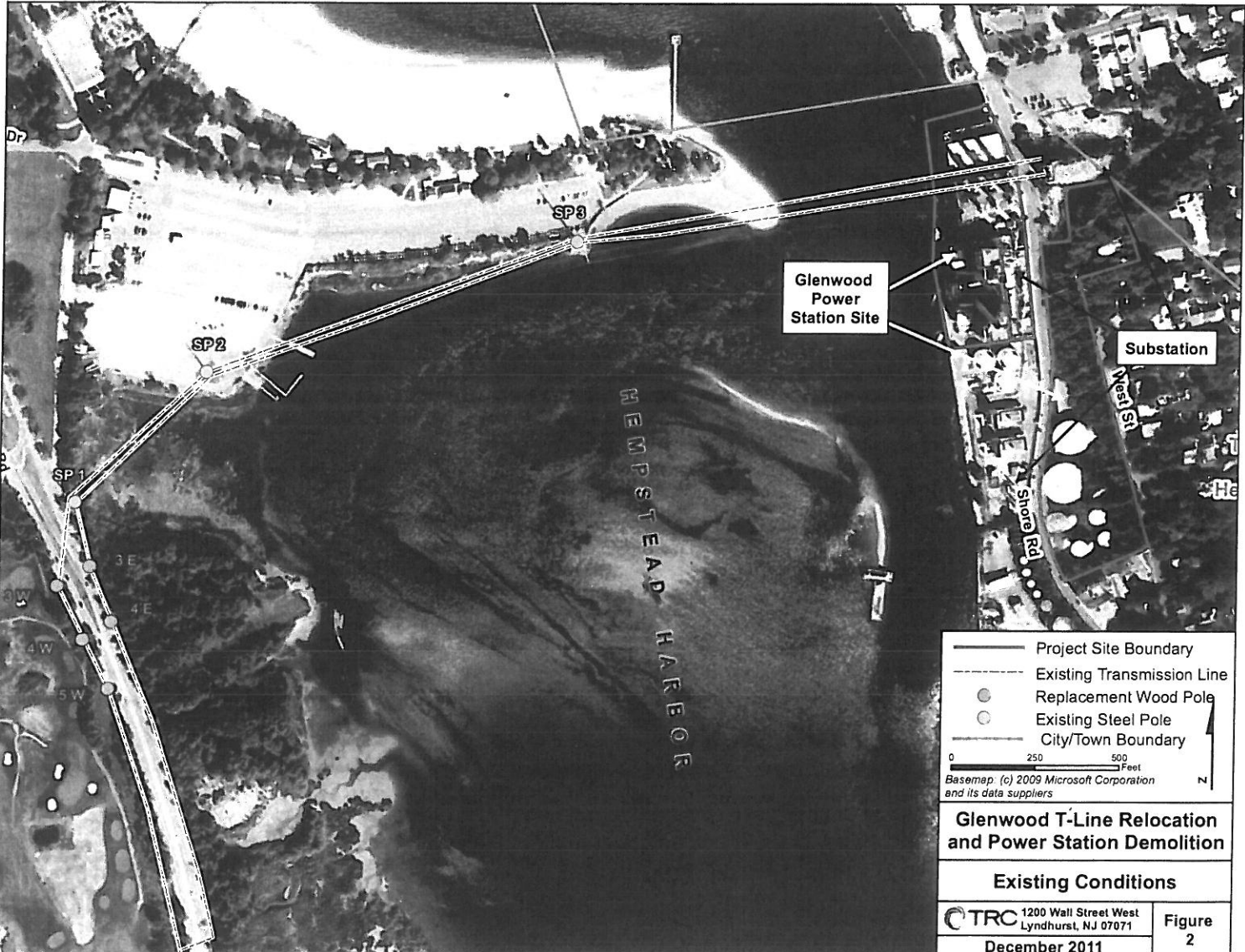
**Glenwood T-Line Relocation and Power Station Demolition**  
**USGS Site Location**  
 1200 Wall Street West  
 Lyndhurst, NJ 07071  
 December 2011

Figure 1



S:\Magpie\GIS\185628\_NationalGrid\_Glenwood\MXD\Existing Conditions Map.mxd



— Project Site Boundary  
 - - - Existing Transmission Line  
 ● Replacement Wood Pole  
 ○ Existing Steel Pole  
 — City/Town Boundary

0 250 500 Feet

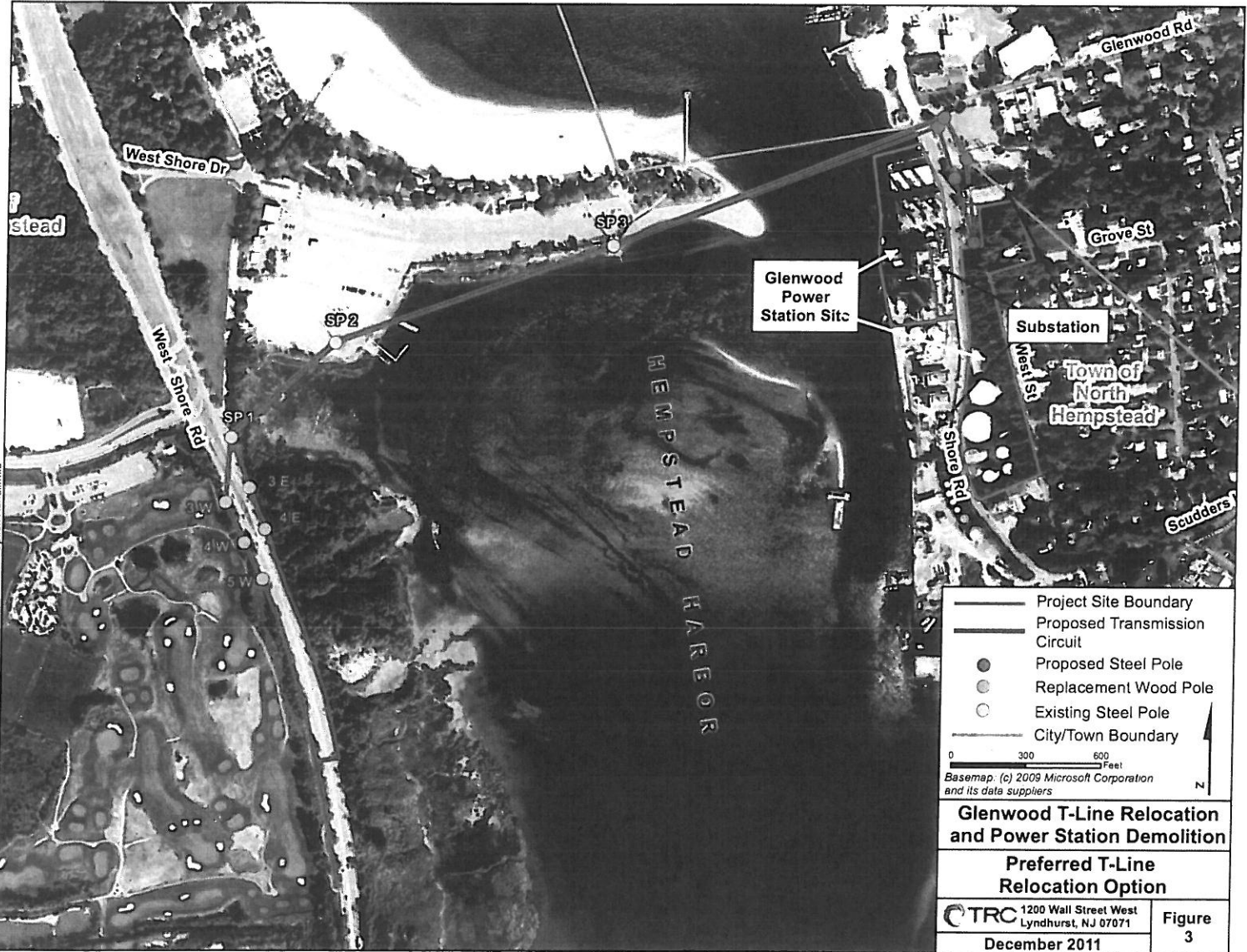
Basemap: (c) 2009 Microsoft Corporation and its data suppliers

### Glenwood T-Line Relocation and Power Station Demolition

#### Existing Conditions

TRC 1200 Wall Street West Lyndhurst, NJ 07071	<b>Figure</b> <b>2</b>

S:\Magpie\GIS\185628\_NationalGrid\_Glenwood\MD\Preferred Off Easement Option Aerial.mxd



	Project Site Boundary
	Proposed Transmission Circuit
	Proposed Steel Pole
	Replacement Wood Pole
	Existing Steel Pole
	City/Town Boundary

0 300 600 Feet

Basemap (c) 2009 Microsoft Corporation and its data suppliers

**Glenwood T-Line Relocation and Power Station Demolition**

**Preferred T-Line Relocation Option**

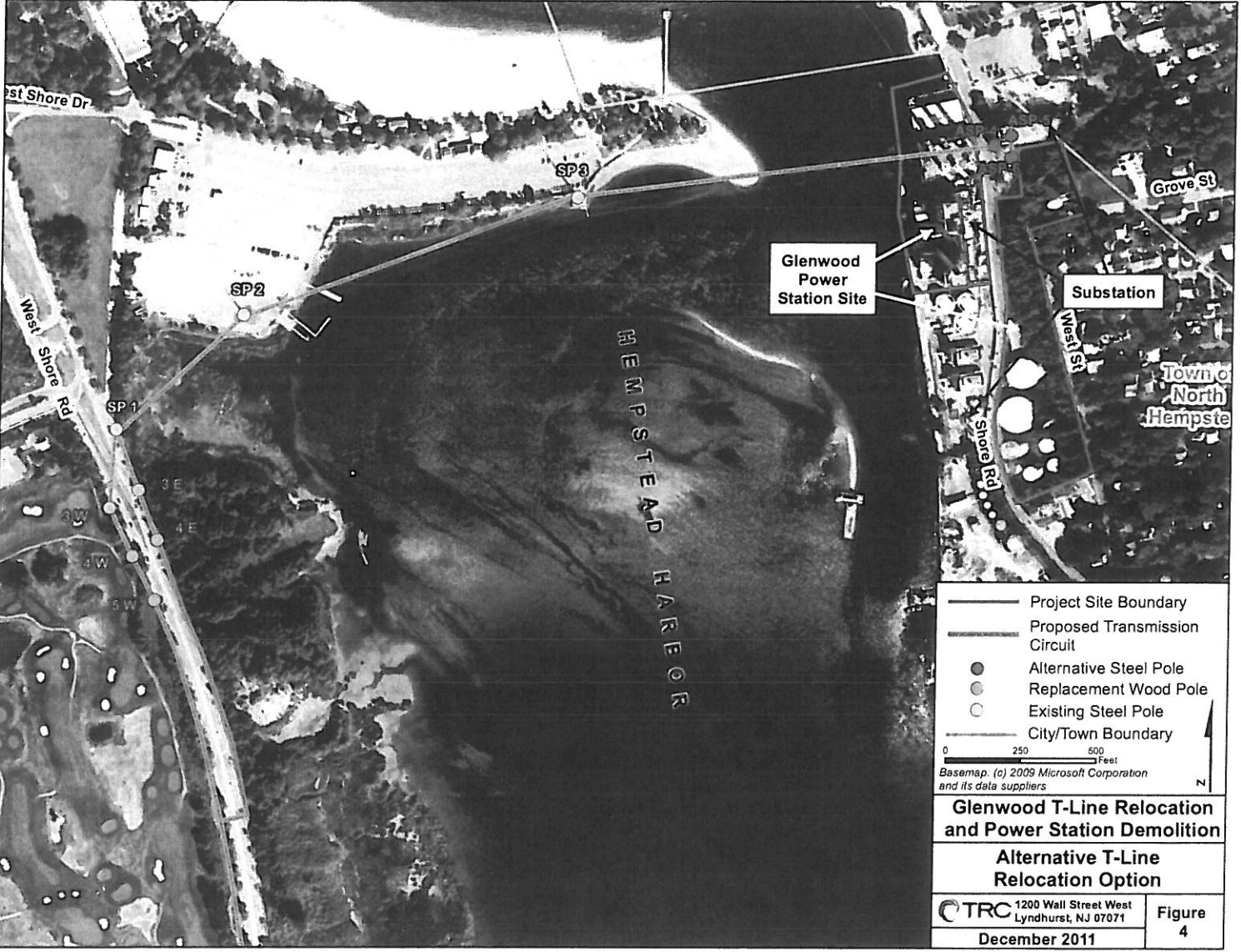
**CTRC** 1200 Wall Street West  
Lyndhurst, NJ 07071

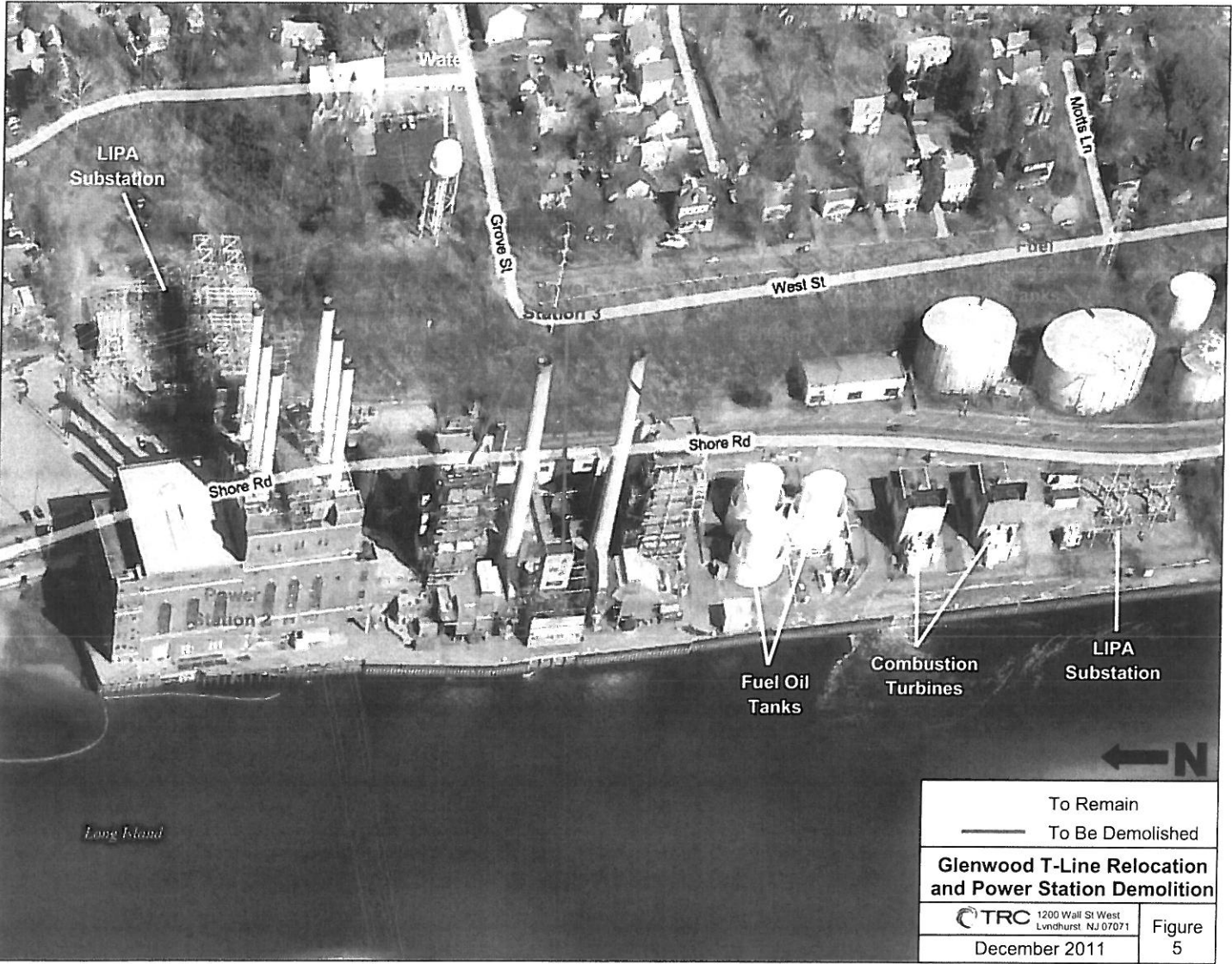
December 2011

**Figure 3**



S:\MapInfo\GIS\185628\_NationalGrid\_Glenwood\MXD\Alternative On Easement Option Aerial.mxd





<p>— To Remain</p> <p>- - - To Be Demolished</p>	
<p><b>Glenwood T-Line Relocation and Power Station Demolition</b></p>	
<p><b>TRC</b> 1200 Wall St West Lynhurst NJ 07071</p>	<p>Figure 5</p>
<p>December 2011</p>	

**ATTACHMENT 1**  
**SUPPLEMENTAL INFORMATION**  
**to the**  
**FULL ENVIRONMENTAL ASSESSMENT FORM**

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**PART 1 – PROJECT INFORMATION**

**DESCRIPTION OF ACTION**

The Long Island Power Authority (LIPA) is proposing to relocate two (2) existing overhead 69 kilovolt (kV) transmission lines (or circuits) that cross Hempstead Harbor in the Town of North Hempstead and the Town of Oyster Bay, Nassau County, New York. National Grid (Grid) is then proposing to decommission and demolish buildings and structures on portions of the Glenwood Power Station Site on which the existing LIPA transmission lines are located. The preliminary schedule calls for transmission line relocation work to be initiated in April/May 2012 and last through September 2012. The Power Station work will take place in late 2012/early 2013 and is estimated to last approximately two years through 2014.

Representatives of LIPA, Grid and TRC, the consultant engaged by LIPA and National Grid, have interacted with a number of involved federal, state and local agencies as part of the process of informing them, obtaining information, and requesting approvals relevant to their respective regulatory interests. Through December 2012, the following agencies have been contacted: Federal Aviation Administration (FAA), U.S. Army Corps of Engineers (ACOE), U.S. Coast Guard, U.S. Fish & Wildlife Service (USFWS), New York State Department of Environmental Conservation (NYSDEC), New York State Office of Parks, Recreation and Historic Preservation (OPRHP), the Town of North Hempstead, the Town Harbor Master, and the Town of Oyster Bay. Consultations with these agencies will continue in order to inform them and to receive their respective input and concerns for the preparation of the Full Environmental Assessment.

**Transmission Line Relocation Alternatives**

The existing circuits to be relocated currently extend from a transmission structure on Bar Beach, on the western shore of the Harbor, and span the Harbor to lattice support structures on the roof of the existing Glenwood Power Station, which is located on the Harbor's eastern shore. The two transmission lines involved are known as Glenwood-Manhasset (69-467) and Glenwood-Bar Beach (69-472). Figure 1 (attached to the EAF) is a site location map showing the existing 69 kV overhead transmission line as it crosses the Harbor from west to east. The existing Glenwood Power Station on the east side of the Harbor is also identified.

Figure 2 presents a more detailed view of the existing power infrastructure. The existing transmission line and Power Station are shown. The three existing LIPA substations on the east side of the Harbor are identified. The existing poles (their numbering and material composition) on both sides of the Harbor that carry the transmission line are also indicated.

Two options for the relocation of the transmission line are currently being explored. The first option, called the Preferred Relocation Option, will relocate the existing line to a point about 300 ft to the north and east of the Power Station. The second option, called the Alternative Relocation

Option, will utilize the existing transmission line easement over the Harbor and onto the Power Station site. These two transmission line relocation alternatives are described below.

**Preferred Relocation Option**

In crossing the Harbor from west to east, the relocated circuits will parallel the existing ones but will diverge slightly to the north over the water, making landfall on the east side about 300 ft from the existing location. In order to accomplish the relocation both existing lines will be moved off of the roof of the Power Station. The existing shield wires that parallel the circuits will also be relocated. The two existing optical ground wires (OPGW) will be replaced with two Alumoweld shield wires and two all-dielectric self supporting (ADSS) cables. The appearance of the circuits will remain substantially the same as the existing ones.

*Relocation of the Circuits*

About two weeks of time will be needed for re-stringing the electric circuits. That portion of Hempstead Harbor opposite the Power Station will be closed for the approximately two week period. At least one month notice will be provided to the local recreational boating community and to the U.S. Coast Guard. This notification requirement was made following outreach to the U.S. Coast Guard and discussed with the Town of Hempstead Harbor Master.

The relocated lines will be in the same position horizontally on the west side of the Harbor and about 300 ft to the north of the existing line on the eastern side of the Harbor. The tables below show the heights (minimum height above mean high water) of the relocated circuits compared to the existing ones.

Preferred Relocation Option

Circuit 472 Segment	Existing Circuit	Relocated Circuit
SP 1 – SP 2	49	49.5
SP 2 – SP3	40	40
SP3 – to eastern shore	92 <sup>1</sup>	78 <sup>1</sup>
<sup>1</sup> Minimum height above mean high water across main channel.		

Circuit 467 Segment	Existing Circuit	Relocated Circuit
SP 1 – SP 2	49	49
SP 2 – SP3	41	41
SP3 – to eastern shore	91 <sup>1</sup>	77 <sup>1</sup>
<sup>1</sup> Minimum height above mean high water across main channel.		

*Pole Installation*

As part of the relocation and replacement of the two circuits, a total of ten poles constructed of steel and wood to hold and carry the lines will be installed. Five existing wooden poles on the western side of Hempstead Harbor will be replaced with five new wooden poles near (within several feet) their current locations along West Shore Road. Five new steel poles will be installed on the eastern side of the Harbor near the Power Station in an existing parking lot and in a fenced enclosure, which is part of the existing Glenwood Power Station property.

Figure 3 shows the location of the Preferred Relocation Option and its components (poles) on both the west and east sides of the Harbor. For the Glenwood-Bar Beach (69-472) line, the span length across the Harbor will be approximately 1,409 ft. The Glenwood-Manhasset (69-467) line span will be approximately 1,374 ft.

On the western side of the Harbor near West Shore Road, the five wooden replacement pole heights will be comparable to the existing poles. The heights of replacement poles 3E and 3W will be the same as the existing ones (79 ft above ground level); replacement poles 4W, 5W and 4E will all be 4.5 ft higher (at 61 ft above ground level) than the existing ones. The direct burial of these poles will result in ground disturbance of about 3 ft across and 12 ft deep at each location (or less than a total of 50 square ft of ground surface disturbance).

No ground disturbing work will be performed at the three existing steel poles (SP1, SP2 and SP3) on the western side of the Harbor (Figure 3).

On the eastern side of the Harbor, five new steel poles will be installed to carry and hold the relocated circuits. The new steel poles are identified in Figure 3 as SP4, SP4A, SP5, SP6 and SP7. Poles SP4, SP4A, SP5, and SP6 will be installed in an existing, fenced parking lot associated with Power Station and substation operations. Pole SP7 will be installed in the fenced enclosure surrounding a part of an existing substation, just to the south of the parking lot. The new steel poles will be installed in two ways – via foundation and direct burial. Four of the steel poles will require foundations – SP4, SP4A, SP5 and SP7. Pole SP6 will be installed via direct burial.

Foundations for the four new steel poles in the existing parking lot will each require the disturbance of an area approximately 12 ft across and up to 30 – 40 ft deep, depending on subsurface conditions. The direct burial of SP6 will disturb a surface area of about 3 ft across and up to 18 ft deep.

The table below lists the heights of the five new steel poles under the preferred relocation option.

Preferred Relocation Option

Pole Designation	Height Above Ground Level
SP4	201 ft
SP4A	201 ft
SP5	117 ft
SP6	143 ft
SP7	144 ft

The new steel poles will be larger than, but similar in visual appearance to, the existing steel poles that are located on both sides of the Harbor. The poles will also be compatible with the existing power infrastructure, including the three nearby substations and operating combustion turbines.

*Construction Schedule*

Project construction has the following tentative schedule:

- April/May 2012 – Pole foundation/caisson installation.
- May/June 2012 – Steel Pole installation and stringing of conductor onto steel poles on the east side of the Harbor.
- September 2012 – Stringing conductor across Harbor and tie into existing substation.



**Alternative Relocation Option**

The Alternative Relocation Option is essentially a relocation in place and will utilize the existing transmission line easement over the Harbor, into the Power Station site and the existing LIPA substation. The existing shield wires will be relocated and the two existing optical ground wires (OPGW) will be replaced. Figure 4 shows the option and its associated poles.

Three steel poles will be constructed on the east side of Shore Road due east of Power Station 2. The heights of the three new steel poles under the alternative (Figure 4) will be as follows:

Alternative Relocation Option

Pole Designation	Height Above Ground Level
(Alternate) SP4	230 ft
(Alternate) SP5	143 ft
(Alternate) SP6	116 ft

Poles will be installed in a comparable way with similar sized excavations as those steel poles for the Preferred Relocation Alternative. The tallest pole (SP4) may require a comparatively slightly larger and deeper excavation. The new steel poles will also be similar in appearance to the steel poles installed under the Preferred Relocation Option and thus, visually compatible with the existing power infrastructure.

Generally, the stringing of the lines for the Alternative Relocation Option will be done in a comparable way but modified to allow for the decommissioning and demolition work since the relocated lines will remain over the Power Station during those work processes.

The two tables below show the heights (minimum height above mean high water) of the relocated circuits compared to the existing ones.

Alternative Relocation Option

Circuit 472 Segment	Existing Circuit	Relocated Circuit
SP 1 – SP 2	49	49
SP 2 – SP3	40	40
SP3 – to eastern shore	92 <sup>1</sup>	89 <sup>1</sup>

<sup>1</sup> Minimum height above mean high water across main channel.

Circuit 467 Segment	Existing Circuit	Relocated Circuit
SP 1 – SP 2	49	49
SP 2 – SP3	41	41
SP3 – to eastern shore	91 <sup>1</sup>	89 <sup>1</sup>

<sup>1</sup> Minimum height above mean high water across main channel.

Under this option, the Glenwood-Bar Beach line (69-472) and the Glenwood-Manhasset line (69-467) span length across the Harbor will each be approximately 1,389 ft.

The schedule for construction of the Alternative Relocation Option is expected to be similar to the Preferred Relocation Alternative, starting in April/May 2012 and ending in September 2012. Under either transmission line relocation option, potentially contaminated groundwater will be displaced from the caisson excavations for the new steel poles. It is estimated that a maximum of 150,000 gallons of water will be displaced under the Preferred Relocation Option (less with the

Alternative Relocation Option with two fewer poles). The water will be collected in a portable holding tank, transported off-site and disposed of at a registered wastewater treatment facility, thus eliminating the potential for impacts to land and surface waters on and near the site (i.e., Hempstead Harbor).

Noise created by construction equipment and activities associated with the transmission line relocation options will be temporary in nature. The greatest noise may be caused by the caisson excavations, which will be completed in several weeks. Construction work will be performed consistent with town ordinances related to noise, hours of work, vibrations, and sound levels. Similarly, the five replacement wooden poles on the west side of the Harbor will be installed under either transmission line relocation option. Although a limited amount of ground disturbance will result, soil and erosion control measures such as silt fence, hay bales, etc. will be implemented, as appropriate, to site conditions.

As needed, limited vegetation clearing, tree trimming and/or tree removal that is typically employed to maintain system reliability, integrity and security may be needed for the installation and proper operational clearances of selected new poles under either transmission line relocation option.

### **Glenwood Power Station Decommissioning and Demolition**

National Grid intends to permanently retire, decommission, and demolish its Glenwood Power Station 2 and Station 3 (“the Glenwood Power Station”) and the associated facilities, starting in the latter part of 2012. The Glenwood Power Station is currently operated as a peaking facility, generating approximately 210 megawatts (MW) of electricity. The principal operating equipment includes two natural gas-fired units (designated as Units 4 and 5) inside Power Station No. 3. Power Station No. 2, just to the north of No. 3, has been inactive since 1980.

The Glenwood Power Station is located in an area that is substantially developed and has a mixture of residential and commercial/industrial buildings nearby. The site is bordered to the north by an inlet of Hempstead Harbor followed by Glenwood Road and Global Companies, LLC (formerly a Mobil Oil facility) - an oil transfer station; to the east by a LIPA Substation, followed by Grove and West Streets and then followed by single-family residences; to the south by National Grid’s Glenwood Combustion Turbine Site and another LIPA Substation, followed by commercial buildings and residences; and directly to the west by Hempstead Harbor. Shore Road, a two-lane road that runs in a north-south direction, bisects the site.

As part of the planned decommissioning, most major facilities and structures on the site will be demolished, as described below. The preliminary schedule calls for this work to be initiated in late 2012/early 2013. The work will last an estimated two years, through 2014.

The Glenwood Power Station encompasses a total of approximately 15.7 acres consisting of two main parcels, one west of Shore Road (about 11.4 acres) and one east of Shore Road (about 4.3 acres). The actual demolition work will involve about five (5) acres of land on the two parcels (four [4] acres on the northern parcel and one [1] acre on the southern parcel).

The buildings and structures that will be demolished include:

- Power Station No. 2 (inactive) and Power Station No. 3 (active)
- Power Station No. 3 Circulating Water Intake Screen House
- General Service Building
- Gate House



- Ash Silo Building
- Aboveground Fuel Oil Storage Tanks and Associated Aboveground Piping and Appurtenances
- Fuel Oil Pump House and Fuel Oil Recirculation Pump House
- Storage Building
- Coal Structures
- Ancillary Structures and Transformers.

The buildings and structures that will be decommissioned include:

- Underground Oil Piping
- Power Station No. 2 Circulating Water Intake and Discharge Tunnels
- Power Station No. 3 Circulating Water Intake and Discharge Tunnels
- Fuel Oil, Utility, Coal and Ash Tunnels
- Septic Tanks/Filter Wells
- Groundwater Monitoring Wells and Production Wells.

The buildings and structures that will remain in place to continue operations (and will be protected during demolition) include:

- Three LIPA Substations (on and adjacent to the station property)
- Two Combustion Gas Turbines (Units 2 and 3)
- Units 2 and 3 Tank Yard (three aboveground fuel oil tanks)
- Water Tower.

Figure 5 is an aerial view of the Glenwood Power Station site showing the main buildings and facilities that will be demolished as part of the proposed action and those that will remain in place.

Although decommissioning and demolition methods may differ in some ways based on the transmission line relocation option implemented, the overall work will be substantially similar and completed within a comparable timeframe.

Prior to demolition and decommissioning of portions of the Glenwood Power Station, asbestos abatement and removal of other regulated or hazardous materials will be completed. The asbestos abatement and removal of regulated or hazardous materials will be performed in accordance with local, state, and federal regulations and the plans and specifications for the work. As no discretionary permits are required for the abatement work, this work is not part of the proposed action for SEQRA purposes.

Demolition and decommissioning will begin in those areas where the asbestos abatement and removal of other regulated or hazardous materials has been substantially completed. Asbestos abatement in New York is regulated by the U.S. Environmental Protection Agency (USEPA), the Occupational Safety and Health Administration (OSHA), the New York State Department of Labor, and the New York State Department of Health, and NYSDEC. Asbestos abatement will be performed by a New York State Licensed contractor using New York State Certified workers utilizing work practices and engineering controls in accordance with Federal and State regulations. The demolition will be performed by a qualified contractor in accordance with local, state, and federal regulations and the project plans and specifications.

The demolition and decommissioning work will include the following: preparation of work plans; obtaining necessary permits; securing the site; installing and maintaining erosion and sedimentation control and managing stormwater; sealing building drains; isolating utilities; purging vessels, piping, tanks, etc. of gases, lubrication oil, fuel oil, acids, caustics and other fluids; demolition and decommissioning of the structures listed above; protection of facilities and structures to remain in place; transportation and disposal to licensed disposal facilities or recycling of off-site construction and demolition debris at licensed facilities; and backfilling below ground structures and restoring the site.

The control of stormwater during demolition will be conducted in accordance with applicable federal regulations (40 CFR Part 122) and the New York State Pollutant Discharge Elimination System (SPDES) Program. Based upon discussions with NYSDEC, it is anticipated that the current SPDES permit that the facility holds will be modified as determined by NYSDEC to address construction stormwater. Similarly, based upon discussions with NYSDEC, with respect to air quality, the Title V permit, which defines air emission limits from current facility operations, will be modified as determined by NYSDEC to reflect the elimination of emissions from the active units in Power Station 3 that will be decommissioned (and the building demolished).

As noted in the EAF, Part 1, A.11, peregrine falcons nest on one of the stacks of Power Station 2. Based on ongoing discussions and meetings with NYSDEC, including a visit to the Power Station Site, it is the intention of National Grid and the NYSDEC to identify an alternate nesting location during 2012 to enhance the opportunity for successful nest relocation prior to demolition work at the station. Coordination with NYSDEC will continue in order to identify work that can be done during the breeding season of the peregrine falcons.

Traffic generated by the relocation, decommissioning and demolition-related construction work will be managed. A Maintenance and Protection of Traffic (MPT) Plan will be implemented. As needed, appropriate traffic control devices will be put into place in accordance with the New York State Department of Transportation (NYSDOT) Manual on Uniform Traffic Control Devices (MUTCD). Notification of the transport of wide loads will be made to the local police as standard procedure.

Alternatively, a barge may be used to off load decommissioned equipment and demolition debris, which would result in fewer on-road trips associated with the proposed work.

The Power Station-related component of the proposed action (and to a considerably lesser extent, the transmission line relocation) will cause temporary, but localized increases in noise. Within the approximate two (2) years of work, about nine (9) to 12 months will be associated with abatement, a substantial portion of which will be interior work, thus limiting temporary construction noise. The decommissioning and demolition work will last for about ten (10) to 14 months, which could cause the greatest level of potential temporary construction noise. National Grid will conduct all decommissioning and demolition work consistent with town ordinances related to noise, hours of work, vibrations, and sound levels.

Fugitive dust will be controlled in a variety of ways that may include the following: application of water inside of buildings and on site grounds; gravel aprons at truck entry/exit points; dust suppressants; moveable sprinklers; tarping of trucks; truck speed limits; and, site work restrictions under high wind conditions, among others.

**A. SUPPLEMENT TO EAF FORM QUESTIONS NOS. A.14 and A.20**

**14. Does the present site include scenic views known to be important to the community?**

Views from the Power Station site are not known to be important to the community as the opportunities to view the waterfront area from the site are not available to the public. As an operating electric generating facility, the site is fenced and secured from the public. However, as the existing Power Station buildings and the associated facilities (transmission line, storage tanks, etc.) are the largest ones along lower Hempstead Harbor, they visually dominate this waterfront area. The Power Station is located opposite the town of North Hempstead Beach Park (aka, Bar Beach) that has recreational facilities and a swimming beach. Therefore, the Power Station and its associated facilities have dominated waterfront views from the beach park (to the south and east) and other nearby areas along the Harbor.

With the demolition of the Power Station and associated facilities and structures, Hempstead Harbor's western shoreline will appear significantly different with an open space component not seen in decades. Views from behind and adjacent to the Power Station looking towards the Harbor and Bar Beach will also be visually expanded.

**20. Has the site ever been used for the disposal of solid or hazardous wastes?**

The historic and current uses of the Power Station Site as a coal- and oil-fired electricity generating station (from at least 1900 to present) were confirmed by a review of deed records, historical fire insurance maps (Sanborn Maps), interviews, and site reconnaissance. This includes the potential for historic releases and contamination from the former on-site septic systems/filter wells and the potential presence of coal and possibly coal ash used for historic on-site filling. However, to National Grid's knowledge, the site has never been used for the disposal of solid or hazardous wastes.

A Phase I Environmental Site Assessment (ESA) is currently underway. Based on the findings of the Phase I, a Phase II Environmental Site Investigation (ESI) may be conducted in the event it becomes known that certain decommissioning and demolition activities may expose subsurface conditions of concern. If necessary and based on the Phase II work, a Phase III investigation that delineates the physical extent of contamination, if present, will be performed.

Because of the planned demolition activities, an asbestos and regulated materials survey will be conducted. The asbestos and regulated materials survey results will be used to prepare plans and specifications for abatement prior to the decommissioning and demolition work.

**B. SUPPLEMENT TO EAF FORM QUESTION NO. B.25**

Potential Project Approvals Required:

**Local Agencies**

Town of North Hempstead:

- Demolition permit \* (National Grid)
- Temporary building permit – for construction trailers and associated facilities\* (National Grid)
- Road opening/closure\* (National Grid)

- Easement over Hempstead Harbor for the Preferred Transmission Line Relocation (LIPA).

Town of Oyster Bay:

- Building permit – for construction trailers and associated facilities.\* ( National Grid)

Submittal dates for local agency approvals are to be determined but likely to be in mid-late 2012.

**Nassau County** (both for National Grid)

- Fire Marshall – Notification of removal of underground storage tanks\*
- Department of Health – Certificate of rodent free inspection.\*

**New York State**

- NYS Department of State – Coastal zone consistency determination (LIPA and National Grid)
- NYS Office of Parks, Recreation and Historic Preservation – Cultural resource consultation (LIPA and National Grid)
- New York State Department of Environmental Conservation (NYSDEC) Natural Heritage Program – Rare, threatened, endangered species inventory consultation (LIPA and National Grid)
- NYSDEC – SPDES general permit for construction activities and modification of existing SPDES permit (National Grid)
- NYSDEC – Closure of storage tanks (National Grid).

Submittal dates for state approvals are expected to occur in late 2011/early 2012.

**Federal Agencies**

- Federal Aviation Administration – Determination of no hazard to air navigation from new steel poles (LIPA)
- Army Corps of Engineers – Nationwide Permit No 12 for the aerial crossing of Hempstead Harbor with the relocated overhead transmission line (LIPA)
- U.S. Fish & Wildlife Service – Threatened and endangered species review and consultation (LIPA and National Grid).

Submittal dates are expected to occur in late 2011/early 2012.

Note: \* Ministerial actions