

Appendix C-Correspondence with FWS, DCNR, PGC, and PFBC Regarding Threatened and Endangered Species

Letter to David Densmore, U.S. FWS, from Michael P. Gallagher, Exelon Nuclear, dated January 19, 2011. Request for information on listed threatened and endangered species with three attachments.

Response from Supervisor, Pennsylvania Field Office, U.S. FWS, dated March 22, 2011, replying to the request for information on listed threatened and endangered species.

Letter to Chris Firestone, PA DCNR, from Michael P. Gallagher, Exelon Nuclear, dated January 19, 2011. Request for information on listed threatened and endangered species with three attachments.

Letter to Michael P. Gallagher, Exelon Nuclear, from Rebecca H. Bowen for Chris Firestone, PA DCNR, dated March 9, 2011. Reply to request for information on listed threatened and endangered species.

Letter to Jim Leigey, PGC, from Michael P. Gallagher, Exelon Nuclear, dated January 19, 2011. Request for information on listed threatened and endangered species with three attachments.

Letter via email to Olivia Braun, PGC, from Nancy L. Ranek, Exelon Generation Company, LLC, dated March 1, 2011. Regarding prior request for information on listed threatened and endangered species. Eight electronic attachments, including "Large Project" Planning and Environmental Review Form and seven GIS Shape files.

Letter to Nancy L. Ranek, Exelon Generation Company, LLC, from Olivia Braun, PGC, dated March 2, 2011. Reply to request for information on listed threatened and endangered species.

Letter to Bruce Metz, PGC, from Nancy L. Ranek, Exelon Nuclear, dated April 19, 2011. Request for information on PA State Game Land #234 in regards to LGS Transmission Lines with one attachment.

Letter to Chris Urban, PFBC, from Michael P. Gallagher, Exelon Nuclear, dated January 19, 2011. Request for information on listed threatened and endangered species with three attachments.

Letter to Nancy Ranek, Exelon Generation Company, LLC, from Christopher A. Urban, PFBC, dated February 11, 2011. Reply to request for information on listed threatened and endangered species.

Michael P. Gallagher, PE
Vice President
License Renewal Projects

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Exelon Nuclear
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

January 19, 2011

Mr. David Densmore
U.S. Fish and Wildlife Service
Pennsylvania Field Office
315 South Allen St., Suite 322
State College, PA 16801

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
Request for Information on Listed Threatened and Endangered Species

Dear Mr. Densmore:

In mid-2011, Exelon Generation Company, LLC (Exelon Generation; a subsidiary of Exelon Corporation) plans to apply to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the operating licenses for Limerick Generating Station, Units 1 and 2 (LGS). The existing license for Unit 1 will expire on October 26, 2024 and the existing license for Unit 2 will expire on June 22, 2029. The renewal term for each unit would be an additional twenty years beyond the existing license expiration date.

The NRC requires that license renewal applications include environmental reports assessing potential environmental impacts from license renewal activities. One such impact would be effects of license renewal activities on threatened and endangered species that are listed or proposed for listing in accordance with the Endangered Species Act (ESA) (16 USC 1531, et seq.) (10 CFR 51.53(c)(3)(ii)(E)). Accordingly, we are contacting you to obtain input for use in addressing these effects in the LGS license renewal environmental report. Later, NRC may also request an informal consultation with your office under Section 7 of the ESA (16 USC 1536(a)).

Project Features

LGS existing features that are relevant to the effects of license renewal on threatened and endangered species include the following:

1. The LGS plant site, which hosts the two generating units, is located on Exelon Generation-owned properties that are mostly situated in Limerick Township, Montgomery County, but some of which are in the adjacent Lower Pottsgrove Township, Montgomery County or directly across the Schuylkill River in East Coventry Township, Chester County.

2. The LGS makeup water supply system, which conveys water from approved sources to LGS for use in its circulating water system, is composed of the following components:
 - The Perkiomen Pumphouse, located in Graterford Township, Montgomery County, and an associated underground 7.6-mile long Perkiomen Pumphouse-to-LGS pipeline; both are located along an easement held by Exelon Generation within an electrical transmission line right-of-way (ROW) controlled by PECO, a subsidiary of Exelon Corporation;
 - The Bradshaw Reservoir and Bradshaw Pumphouse, which are both situated in Plumstead Township, Bucks County, on Exelon Generation-owned properties totaling 42 acres;
 - The Bedminster Water Processing (Treatment) Facility, which is situated in Bedminster Township, Bucks County, on a 3-acre Exelon Generation-owned property; and
 - An underground water transmission main, which is routed within a natural gas pipeline ROW along an easement held by Exelon Generation that runs from the Bradshaw Pumphouse to the East Branch Perkiomen Creek by way of the Bedminster Facility.

The buried Perkiomen Pumphouse-to-LGS water pipeline and the underground water transmission main are located below ground within ROWs that exist for other purposes, and their operation requires no independent vegetation management or ground disturbing activities along these ROWs. Hence, these underground components of the makeup water supply system are assumed to have no effects on threatened and endangered plant species.

3. The LGS transmission system is composed of the following components:
 - Two electrical transmission lines constructed to connect the LGS main power transformers with two onsite electrical substations (these components are located on the LGS plant site); and
 - Four 230-kiloVolt (kV) and one 500-kV electrical transmission lines, with associated structures and offsite electrical substations, constructed to connect the onsite electrical substations to the regional electricity grid.

All offsite substations and transmission lines are operated by PECO and are located in ROWs situated in Montgomery and Chester Counties either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. Onsite transmission lines traverse only land disturbed during initial station construction.

Figures 1 through 9 showing the locations of the existing LGS project features are provided in Attachment 3.

Activities During the License Renewal Terms

LGS license renewal will involve no new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions. Operation and maintenance activities during the terms of the renewed LGS licenses are only expected to occur in previously disturbed areas or existing ROWs. Hence, no new adverse impacts to threatened and endangered species are anticipated from license renewal.

Identification of Threatened and Endangered Species Resources

Using the Pennsylvania Natural Diversity Inventory (PNDI), Environmental Review Tool, a web-based application sponsored by the Pennsylvania Natural Heritage Program (PNHP), Exelon generation has reviewed the potential for the LGS plant site area and the properties associated with the LGS makeup water supply system to adversely affect known occurrences of species or natural communities of concern. Receipts for PNDI search #s 20100421240174 (LGS plant site), 20100421240163 (Perkiomen Pumphouse area), 20100406237563 (Bradshaw Reservoir and Pumphouse area), and 20100407237630 (Bedminster Water Processing Facility area) are attached (Attachment 1). The receipts indicate that no impacts to federally listed or proposed species and/or special concern species or resources within the jurisdiction of the U.S. Fish and Wildlife Service (USFWS) will occur at the four project areas.

Given the sizable acreage and distances associated with the LGS transmission line corridors, no PNDI searches were conducted for this project component. For review by your office in identifying species of concern, we instead offer the figures in Attachment 3 showing the routes and widths of the corridors.

A review of the PNHP web site for state-listed endangered and threatened species indicates that several state-listed species could occur in Montgomery, Chester, and Bucks Counties and that these are also federally-listed or proposed species. Attachment 2 contains a list of these species. Exelon Generation is not aware that these have ever been observed on or near the properties associated with LGS or its associated transmission lines. Also, Exelon Generation and PECO adhere to regulatory requirements regarding sensitive areas that could contain listed threatened and endangered species and work closely with your office to protect these resources.

Because license renewal involves no new construction, refurbishment, ground disturbing activities, changes to operation, or changes to existing land use conditions, Exelon Generation does not expect LGS license renewal to adversely affect federally threatened and endangered species located near the LGS plant site, makeup water supply system, or transmission system ROWs. Nevertheless, we are requesting your help to identify issues we may have overlooked that need to be addressed in the LGS license renewal environmental report. We are also interested in learning of any information your staff believes could help expedite the NRC's review of the LGS license renewal application. Hence, in closing, we would appreciate receiving a response from you detailing such issues and information for the LGS plant site, makeup water supply system and transmission system. We would also welcome your confirmation of our conclusion that LGS license renewal would not adversely affect threatened and endangered species.

Because we plan to incorporate a copy of your response, as well as this letter, into the LGS license renewal environmental report that will be submitted to the NRC as part of the LGS license renewal application, your response will be most helpful if we receive it by March 10, 2011.

Please call Nancy Ranek (610-765-5369), our License Renewal Environmental Lead, if there are questions or you require additional information.

Sincerely,

A handwritten signature in black ink that reads "Michael P. Gallagher". The signature is written in a cursive style with a long horizontal flourish at the end.

Michael P. Gallagher

Enclosures:

- Attachment 1: Receipts for PNDI Search #s 20100421240174, 20100421240163, 20100406237563, and 20100407237630
- Attachment 2: Threatened and Endangered Species that could occur in Montgomery, Chester, and Bucks Counties that are both State Listed and Federally Listed
- Attachment 3: Figures Depicting LGS Project Features (Figures 1 to 9)

ATTACHMENT 1

Receipts for PNDI Searchs

Receipt for PNDI Search # 20100421240174, Limerick GS 2

Receipt for PNDI Search # 20100421240163, Perkiomen Pumphouse 7

Receipt for PNDI Search # 20100406237563, Bradshaw pump 11

Receipt for PNDI Search # 20100407237630, Bedminster WPF 16

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

1. PROJECT INFORMATION

Project Name: **Limerick GS**
 Date of review: **4/21/2010 4:33:48 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**
 Project Area: **483.8 acres**
 County: **Chester, Montgomery Township/Municipality: East Coventry, Limerick, Lower Pottsgrove**
 Quadrangle Name: **PHOENIXVILLE – ZIP Code: 19465, 19464**
 Decimal Degrees: **40.224106 N, -75.580658 W**
 Degrees



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: "Will the entire project (including any discharge) occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?"

Your answer is: **3. Unknown**

Q2: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected – either directly or indirectly – by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats

Your answer is: **1. Yes**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

DCNR Species:

Scientific Name: *Rotala ramosior*

Common Name: Tooth cup

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

PA Fish and Boat Commission

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

Scientific Name: *Stygobromus pizzinii*

Common Name: Pizzini's Cave Amphipod

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Check-list of Minimum Materials to be submitted:

- ___ SIGNED copy of this Project Environmental Review Receipt
- ___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- ___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- ___ USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- ___ A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- ___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- ___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- ___ The DEP permit(s) required for this project

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA,
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA,
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

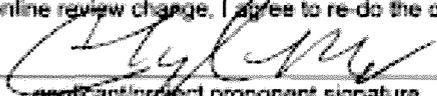
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks Ecologist
Company/Business Name: URS Corporation
Address: 355 Commerce Dr., Suite 300
City, State, Zip: Ft. Washington PA 19024
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: Cheryl_marks@urscorp.com

8. CERTIFICATION

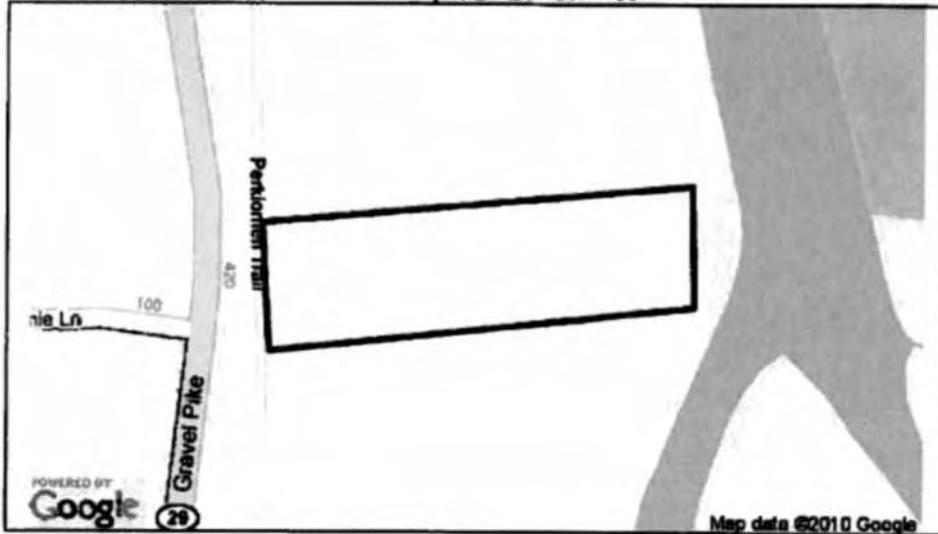
I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

1. PROJECT INFORMATION

Project Name: **Perkiomen Pumphouse**
 Date of review: **4/21/2010 4:16:12 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**
 Project Area: **3.5 acres**
 County: **Montgomery Township/Municipality: Perkiomen**
 Quadrangle Name: **COLLEGEVILLE ~ ZIP Code: 19426**
 Decimal Degrees: **40.215611 N, -75.451022 W**
 Degrees Minutes Seconds: **40° 12' 56.2" N, -75° 27' 3.7" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

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Bureau of Forestry, Ecological Services Section
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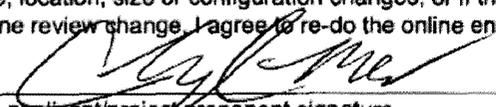
PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

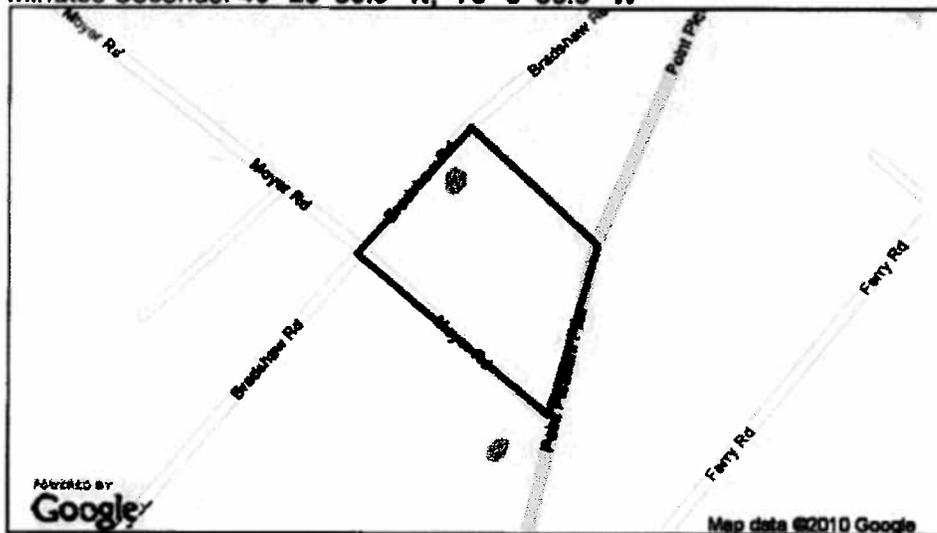
I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

1. PROJECT INFORMATION

Project Name: **Bradshaw_pump**
 Date of review: **4/6/2010 3:53:37 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**
 Project Area: **36.5 acres**
 County: **Bucks Township/Municipality: Plumstead**
 Quadrangle Name: **LUMBERVILLE ~ ZIP Code: 18947, 18901**
 Decimal Degrees: **40.397483 N, -75.093140 W**
 Degrees Minutes Seconds: **40° 23' 50.9" N, -75° 5' 35.3" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur .
Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats
Your answer is: **3. Unknown**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of *Minimum Materials to be submitted:*

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A **basic** site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- The DEP permit(s) required for this project

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl-marks@urscorp.com

8. CERTIFICATION

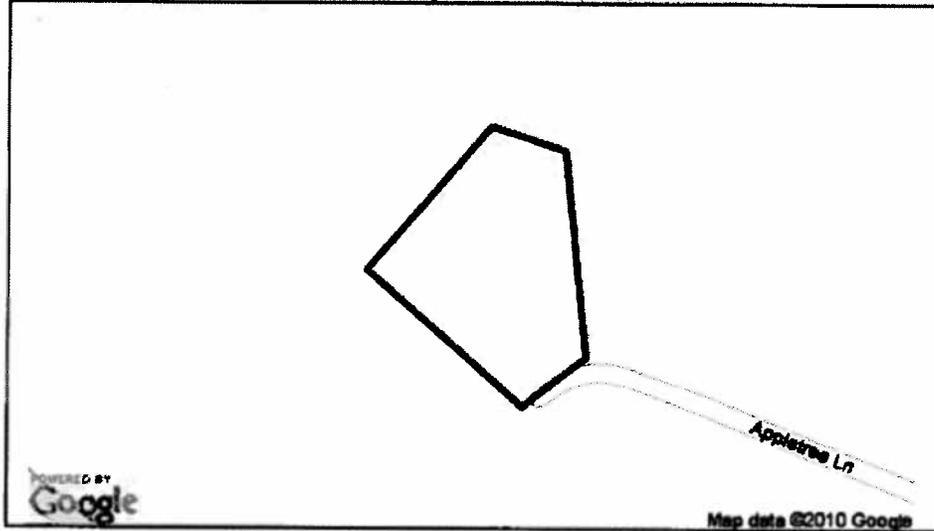
I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

1. PROJECT INFORMATION

Project Name: **Bedminster_WPF**
 Date of review: **4/7/2010 10:02:31 AM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**
 Project Area: **2.4 acres**
 County: **Bucks** Township/Municipality: **Bedminster**
 Quadrangle Name: **BEDMINSTER** ~ ZIP Code: **18947**
 Decimal Degrees: **40.399023 N, -75.158205 W**
 Degrees Minutes Seconds: **40° 23' 56.5" N, -75° 9' 29.5" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

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PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

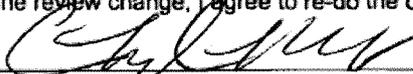
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 387-2598 Fax: (215) 387-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

ATTACHMENT 2

**Threatened and Endangered Species that could occur
in Montgomery, Chester, and Bucks Counties that are
Both State Listed and Federally Listed**

Attachment 2

Threatened and Endangered Species that could occur in Montgomery, Chester, and Bucks Counties that are both State Listed and Federally Listed				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
Mammals				
<i>Myotis sodalis</i>	Indiana Bat	Endangered	Endangered	Montgomery, Chester, Bucks
Birds				
None				
Reptiles and Amphibians				
<i>Glyptemys muhlenbergii</i>	Bog Turtle	Threatened	Endangered	Montgomery, Chester, Bucks
Fish				
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Endangered	Endangered	Bucks
<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Candidate	Endangered	Bucks
Invertebrates				
<i>Alasmidonta heterodon</i>	Dwarf Wedgemussel	Endangered	Endangered	Montgomery, Chester, Bucks
Plants				
<i>Isotria medeoloides</i>	Small-whorled Pogonia	Threatened	Endangered	Chester

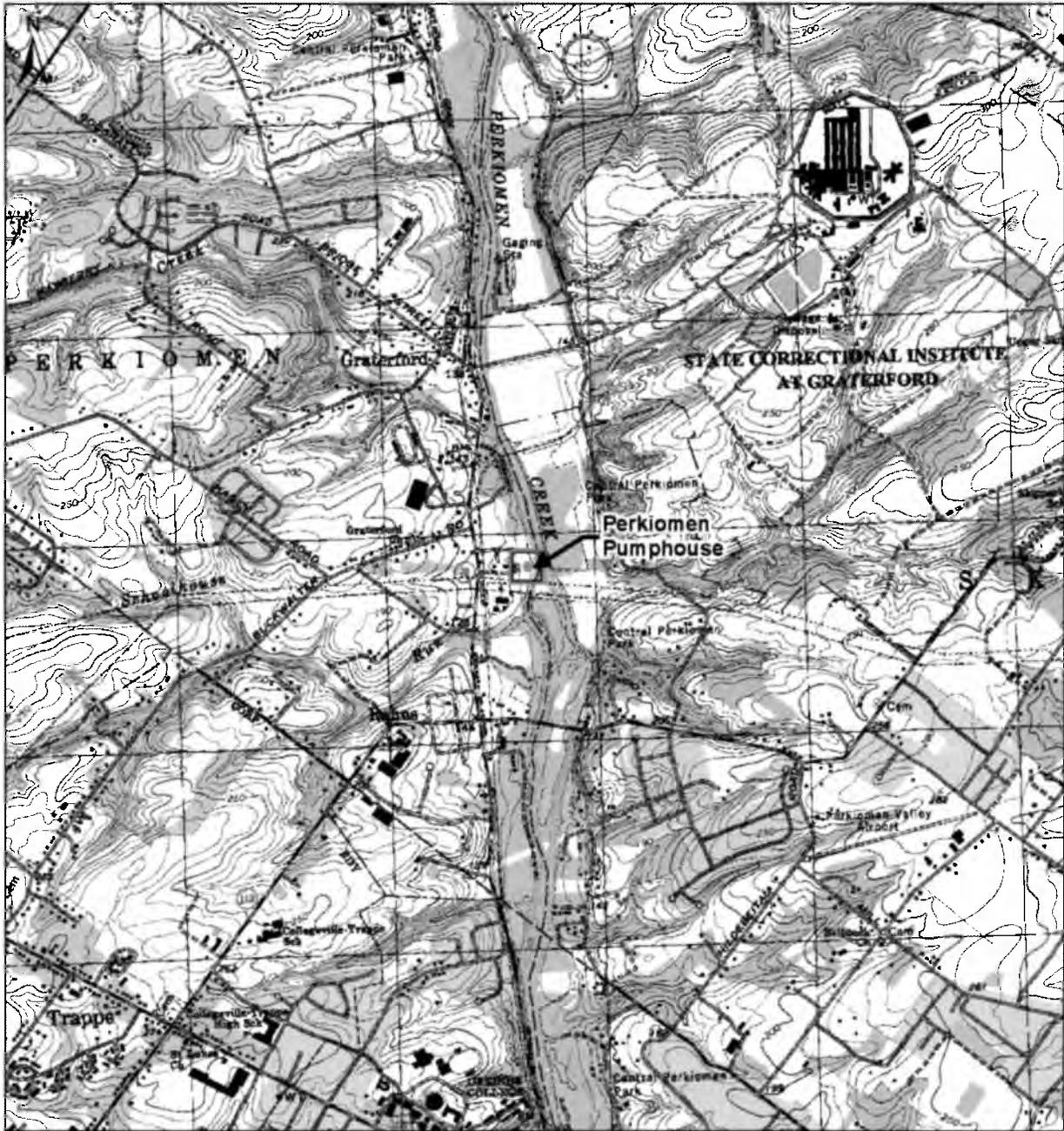
ATTACHMENT 3

Figures Depicting LGS Project Features

- Figure 1 LGS Plant Site Property Boundaries
- Figure 2 Perkiomen Pumphouse
- Figure 3 LGS Makeup Water Supply System
- Figure 4 Bradshaw Reservoir and Bradshaw Pumphouse Properties
- Figure 5 Bedminster Water Processing Facility Property
- Figure 6 Limerick to Cromby 230 kV Transmission Line Route
- Figure 7 Cromby to North Wales 230 kV Transmission Line
- Figure 8 Cromby to Plymouth Meeting 230 kV Transmission Line Route
- Figure 9 Limerick to Whitpain 500 kV Transmission Line Route



<p>0 875 1,750 3,500 Feet</p>		<p>Reference: DVRPC 2005 Aerial Imagery ESRI 2009 Streets and Roads NAD 1983 State Plane Pennsylvania South Projection: Lambert Conformal Conic Linear Unit: Foot US Total Exelon Generation-owned property: 645 acres.</p>							
<p>Legend</p> <table border="0"> <tr> <td> Exelon Generation Property Boundary</td> <td> County Boundary</td> </tr> <tr> <td> 2500 Ft Radius Exclusion Area</td> <td> Municipal Boundary</td> </tr> <tr> <td> Conrail Line</td> <td></td> </tr> </table>		Exelon Generation Property Boundary	County Boundary	2500 Ft Radius Exclusion Area	Municipal Boundary	Conrail Line		<p style="text-align: center;">Figure 1 LGS Plant Site Property Boundaries Exelon Generation Limerick Generating Station Limerick Township, Montgomery County, PA</p>	
Exelon Generation Property Boundary	County Boundary								
2500 Ft Radius Exclusion Area	Municipal Boundary								
Conrail Line									



0 1,000 2,000 4,000 Feet

Exelon.

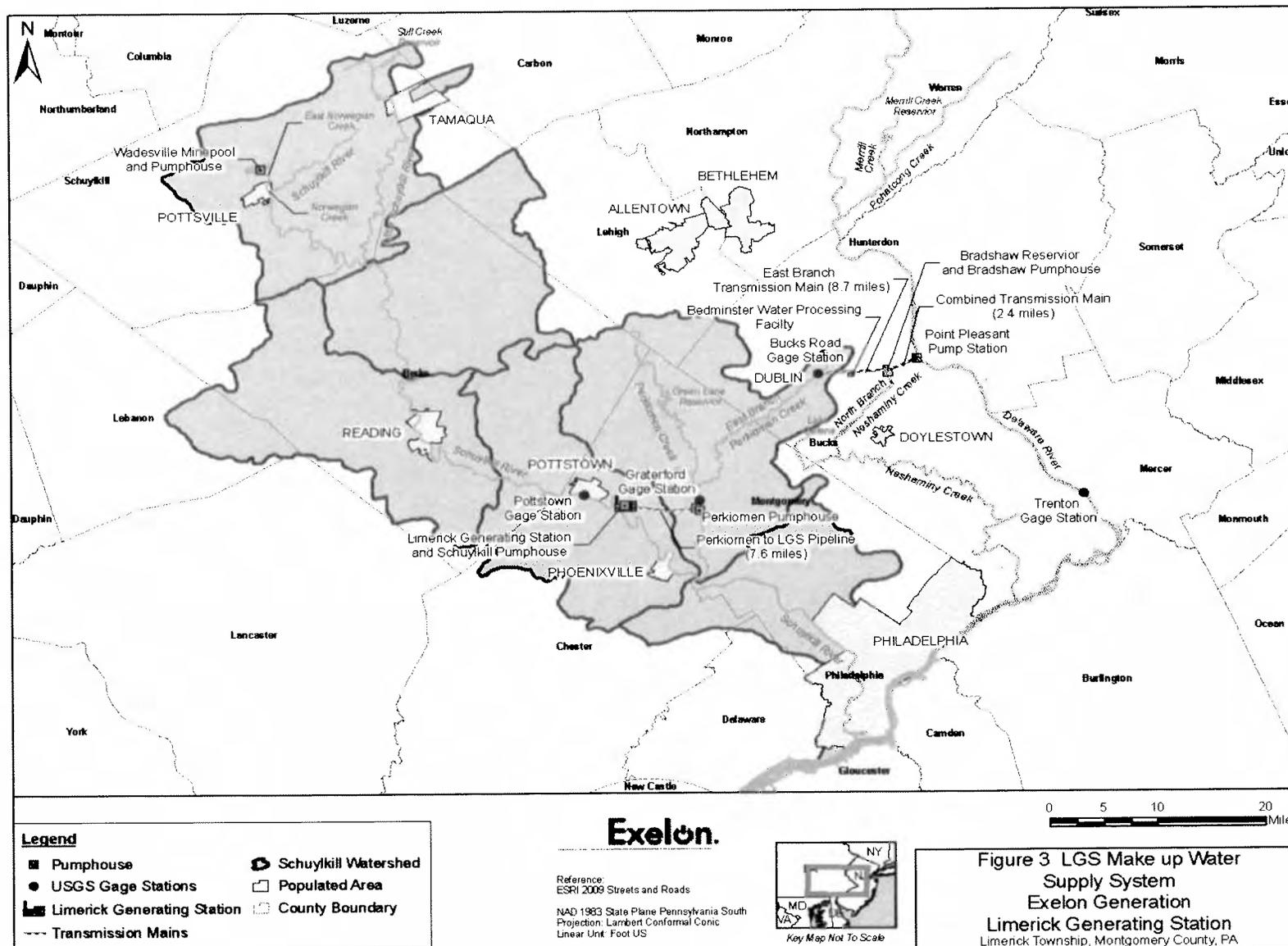
Reference:
USGS Topographic Quadrangle
Collegville, 1998

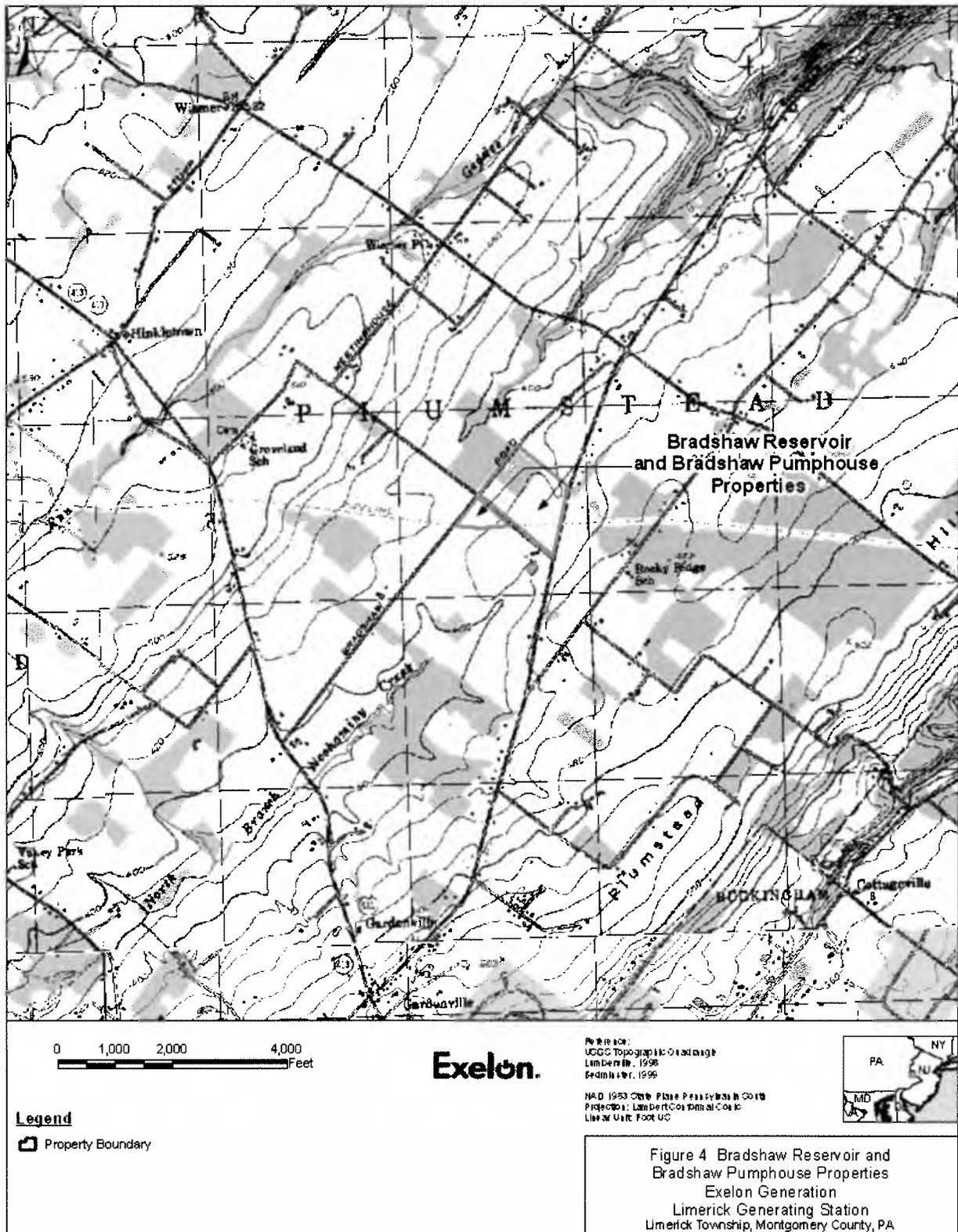
NAD 1983 State Plane Pennsylvania South
Projection: Lambert Conformal Conic
Linear Unit: Foot US

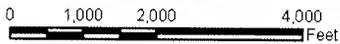
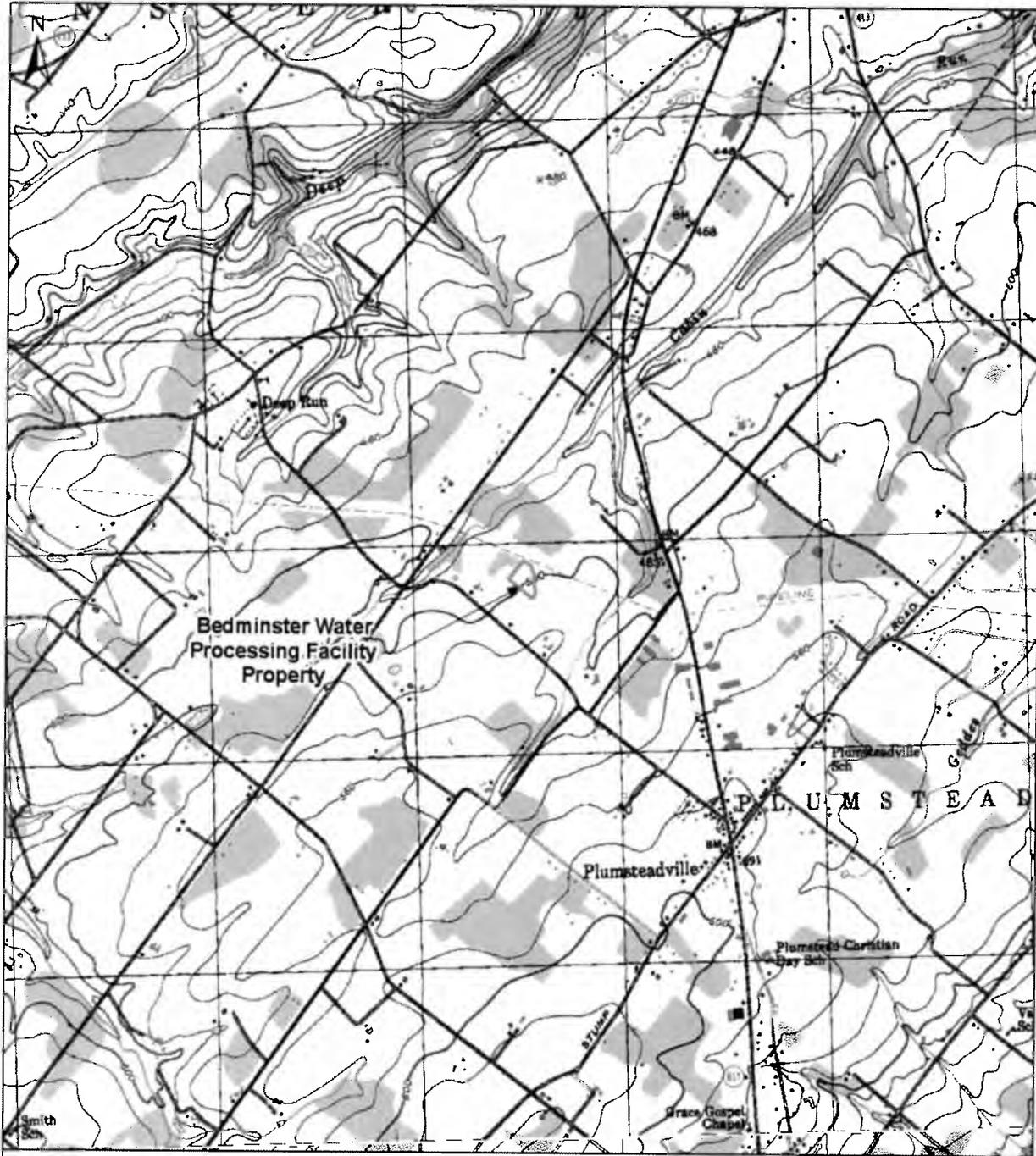
Legend
□ Pumphouse Location

PA NY
MD

**Figure 2 Perkiomen Pumphouse
Exelon Generation
Limerick Generating Station**
Limerick Township, Montgomery County, PA







Exelon.

Legend

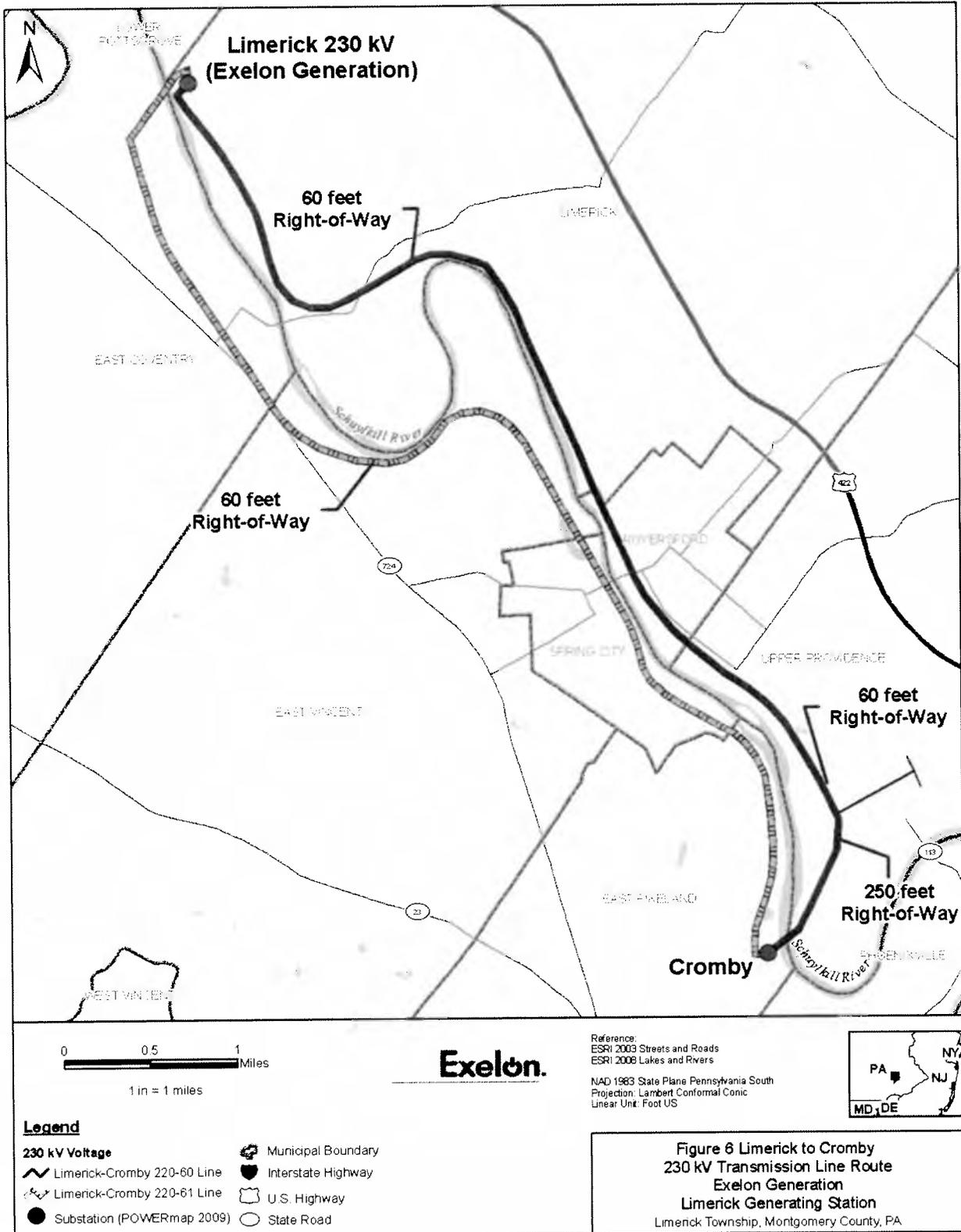
 Property Boundary

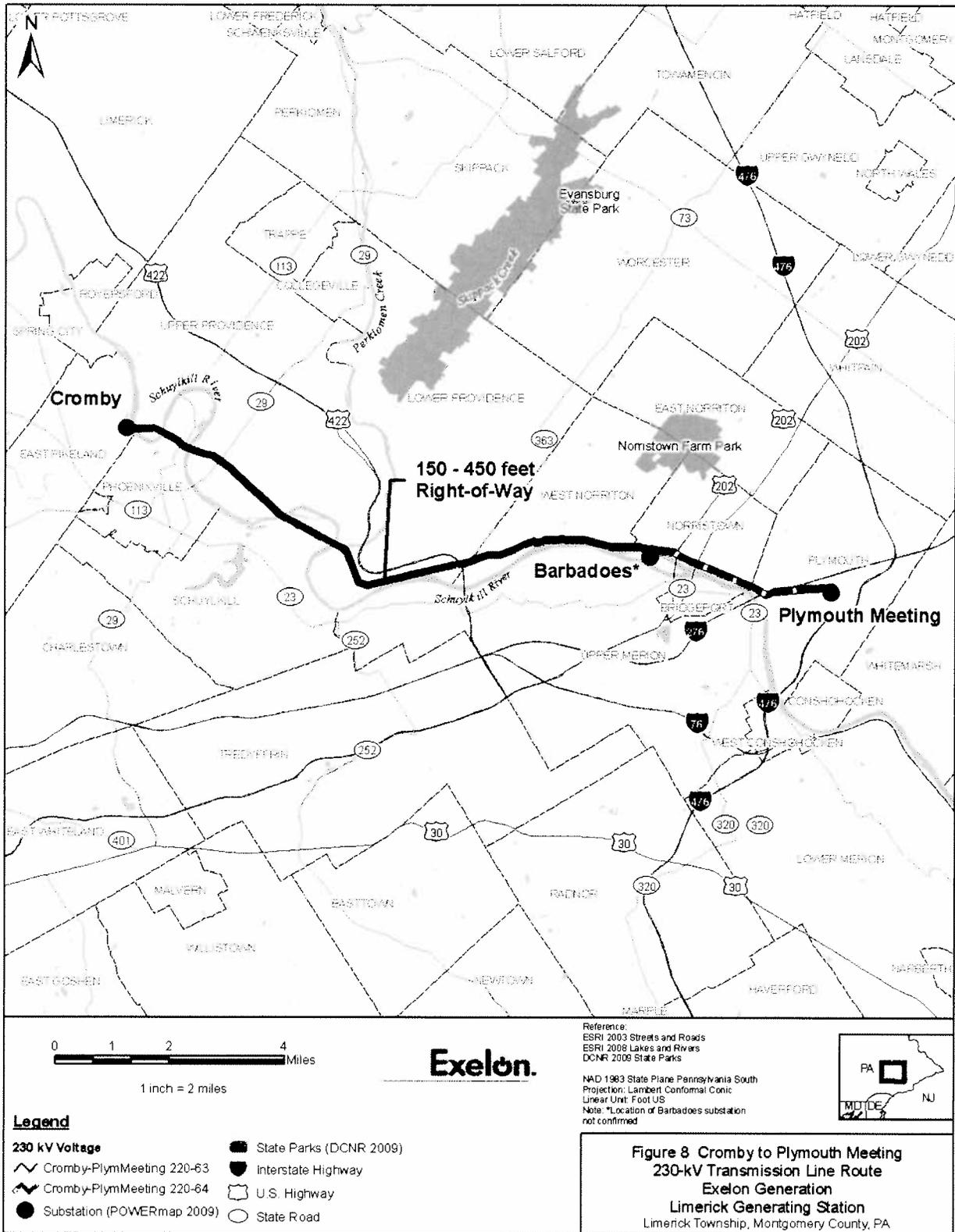
Reference:
 USGS Topographic Quadrangle
 Lumberville, 1998
 Bedminster, 1999

NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US

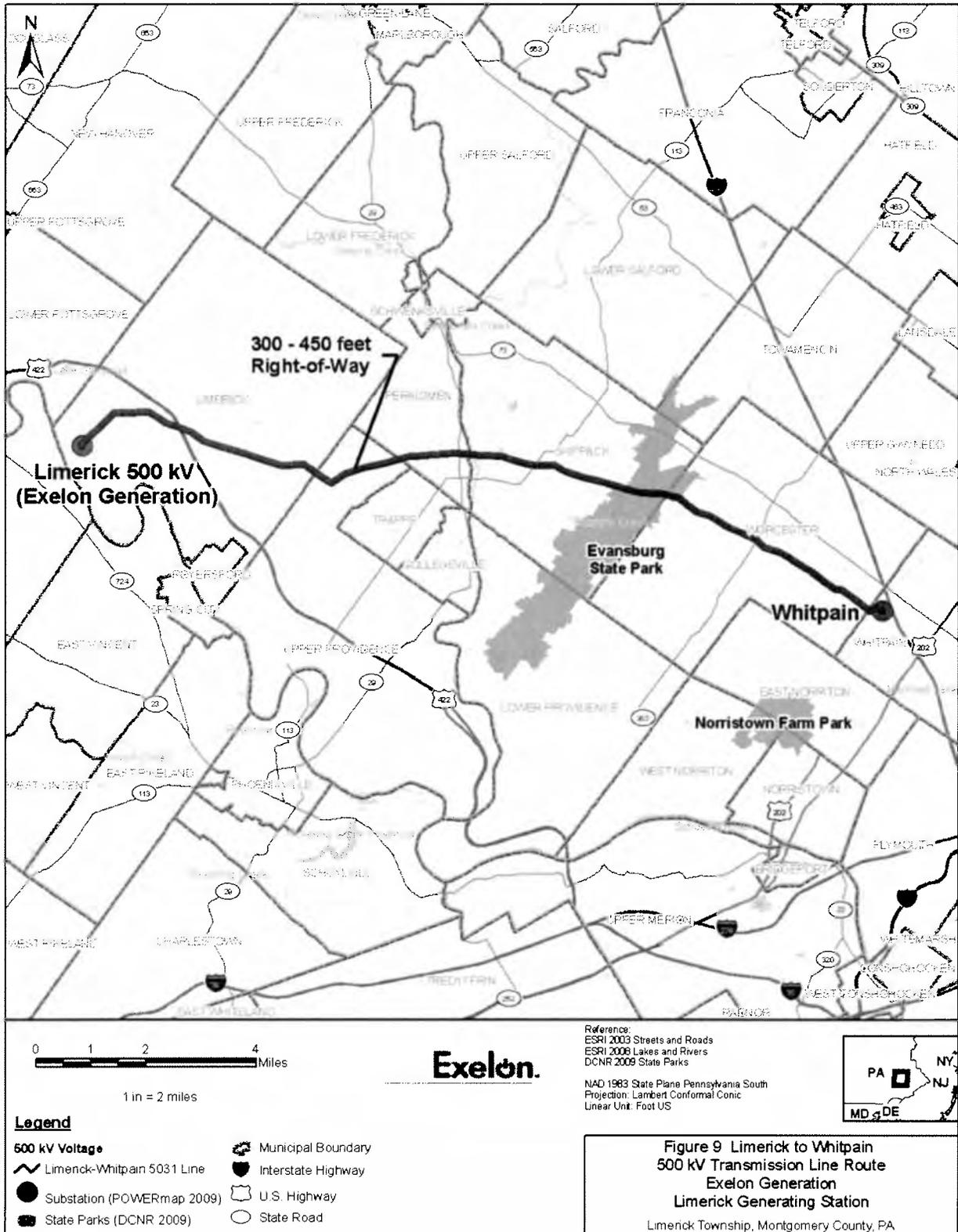


**Figure 5 Bedminster
 Water Processing Facility Property
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**





**Figure 8 Cromby to Plymouth Meeting
 230-kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



PNDI # 20100421240174

USFWS Project # 2011-0365

U.S. FISH AND WILDLIFE SERVICE
315 South Allen Street, Suite 322, State College, PA 16801

This responds to your inquiry about a PNDI Internet Database search that resulted in a potential conflict with a federally listed, proposed or candidate species.

PROJECT LOCATION INFORMATION

MISC INFORMATION

County: Chester & Montgomery
Township: Springfield

Date received by FWS: 01/19/2011
 ACTIVE ARCHIVE

USFWS COMMENTS FAXED MAILED
To: Michael Gallagher

Fax #: _____
Affiliation: Exelon Nuclear

SPECIFIC PROJECT: Limerick Generating Station Unit 1 & 2 Renewal of License

FISH AND WILDLIFE SERVICE COMMENT(S):

 NO EFFECT

Except for occasional transient species, no federally listed, proposed or candidate species under our jurisdiction are known or likely to exist in the project area. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

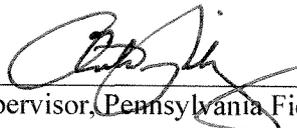
NOT LIKELY TO ADVERSELY AFFECT

The federally listed Bog Turtle occurs or may occur in or near the project area. However, based on our review of the information provided, including the project description and location (no construction is proposed), no adverse effects to this species are likely to occur. If there is any change in the location, scale, scope, layout or design of the project, further consultation or coordination with the Service will be necessary.

 This response supersedes our comments of _____, based on our review of the additional project information that was submitted to us on _____.

The above determination is valid for two years from the date of this letter. In addition, this response relates only to federally listed, proposed, and candidate species under our jurisdiction, based on an office review of the proposed project's location and anticipated impacts. No field inspection of the project area has been conducted by this office. Consequently, comments on this form are not to be construed as addressing other Service concerns under the Fish and Wildlife Coordination Act or other authorities. *Please reference the above PNDI # and USFWS Project # in any future correspondence regarding this project.*

This review was conducted by the biologist listed below. He/she can be contacted at 814-234-4090.
 Jennifer Dombroskie (x 242) Bonnie Dershem (x 234) Pamela Shellenberger (x 241)
 Robert Anderson (x 228)

SIGNATURE: 
Supervisor, Pennsylvania Field Office

DATE: 3/22/11

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

Exelon Nuclear
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

January 19, 2011

Ms. Chris Firestone
Pennsylvania Department of Conservation & Natural Resources
Bureau of Forestry - Plant Program
Forest Advisory Services
P.O. Box 8552
Harrisburg, PA 17105-1673

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
Request for Information on Listed Threatened and Endangered Species

Dear Ms. Firestone:

In mid-2011, Exelon Generation Company, LLC (Exelon Generation; a subsidiary of Exelon Corporation) plans to apply to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the operating licenses for Limerick Generating Station, Units 1 and 2 (LGS). The existing license for Unit 1 will expire on October 26, 2024 and the existing license for Unit 2 will expire on June 22, 2029. The renewal term for each unit would be an additional twenty years beyond the existing license expiration date.

The NRC requires that license renewal applications include environmental reports assessing potential environmental impacts from license renewal activities. One such impact would be effects of license renewal activities on threatened and endangered species that are listed or proposed for listing in accordance with the Endangered Species Act (ESA) (16 USC 1531, et seq.) (10 CFR 51.53(c)(3)(ii)(E)). Accordingly, we are contacting you to obtain input for use in addressing these effects in the LGS license renewal environmental report. Later, NRC may also request an informal consultation with your office consistent with Section 7 of the ESA (16 USC 1536(a)).

Project Features

LGS existing features that are relevant to the effects of license renewal on threatened and endangered species include the following:

1. The LGS plant site, which hosts the two generating units, is located on Exelon Generation-owned properties that are mostly situated in Limerick Township, Montgomery County, but some of which are in the adjacent Lower Pottsgrove Township, Montgomery County or directly across the Schuylkill River in East Coventry Township, Chester County.
2. The LGS makeup water supply system, which conveys water from approved sources to LGS for use in its circulating water system, is composed of the following components:
 - The Perkiomen Pumphouse, located in Graterford Township, Montgomery County, and an associated underground 7.6-mile long Perkiomen Pumphouse-to-LGS pipeline; both are located along an easement held by Exelon Generation within an electrical transmission line right-of-way (ROW) controlled by PECO, a subsidiary of Exelon Corporation;
 - The Bradshaw Reservoir and Bradshaw Pumphouse, which are both situated in Plumstead Township, Bucks County, on Exelon Generation-owned properties totaling 42 acres;
 - The Bedminster Water Processing Facility, which is situated in Bedminster Township, Bucks County, on a 3-acre Exelon Generation-owned property; and
 - An underground water transmission main, which is routed within a natural gas pipeline ROW along an easement held by Exelon Generation that runs from the Bradshaw Pumphouse to the East Branch Perkiomen Creek by way of the Bedminster Facility.

The buried Perkiomen Pumphouse-to-LGS water pipeline and the underground water transmission main are located below ground within ROWs that exist for other purposes, and their operation requires no independent vegetation management or ground disturbing activities along these ROWs. Hence, these underground components of the makeup water supply system are assumed to have no effects on threatened and endangered plant species.

3. The LGS transmission system is composed of the following components:
 - Two electrical transmission lines constructed to connect the LGS main power transformers with two onsite electrical substations (these components are located on the LGS plant site); and
 - Four 230-kiloVolt (kV) and one 500-kV electrical transmission lines, with associated structures and offsite electrical substations, constructed to connect the onsite electrical substations to the regional electricity grid.

All offsite substations and transmission lines are operated by PECO and are located in ROWs situated in Montgomery and Chester Counties either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. Onsite transmission lines traverse only land that was disturbed during initial station construction.

Figures 1 through 9 showing the locations of the existing LGS project features are provided in Attachment 3.

Activities During the License Renewal Terms

LGS license renewal will involve no new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions. Operation and maintenance activities during the terms of the renewed LGS licenses are only expected to occur in previously disturbed areas or existing ROWs. Hence, no new adverse impacts to threatened and endangered plant species are anticipated from license renewal.

Identification of Threatened and Endangered Species Resources

Using the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool, a web-based application sponsored by the Pennsylvania Natural Heritage Program (PNHP), Exelon Generation has reviewed the potential for the LGS plant site area and the properties associated with the LGS makeup water supply system to adversely affect known occurrences of species or natural communities of concern. Receipts for PNDI search #s 20100421240174 (LGS plant site), 20100421240163 (Perkiomen Pumphouse area), 20100406237563 (Bradshaw Reservoir and Pumphouse area), and 20100407237630 (Bedminster Water Processing Facility area) are attached (Attachment 1). One "Special Concern Species" was identified for the LGS plant site: tooth-cup (*Rotala ramosior*). The responses for the other project sites stated that no impact is anticipated to threatened and endangered species and/or special concern species or resources.

Given the sizable acreage and distances associated with the LGS transmission line corridors, no PNDI searches were conducted for this project component. For review by your office in identifying species of concern, we instead offer the figures in Attachment 3 showing the routes and widths of the corridors.

A review of the PNHP web site for state-listed endangered and threatened species indicates that numerous state-listed plant species could occur in Montgomery, Chester, and Bucks Counties. The enclosed Attachment 2 contains a list of these species. One perennial orchid species, the small whorled pogonia (*Isotria medeoloides*), state-listed as endangered, with Chester County as its recorded location, also is federally-listed as threatened. Although the American Holly (*Ilex opaca*), which is state-listed as threatened, was observed on the LGS plant site in 1978, Exelon Generation is not aware of the recent presence of any state-listed plant species on or near the properties associated with LGS and its associated transmission lines. Also, Exelon Generation and PECO adhere to regulatory requirements regarding sensitive areas that could contain state-listed threatened and endangered plant species and work closely with your department to protect these resources.

Because license renewal involves no new construction, refurbishment, ground disturbing activities, changes to operation, or changes to existing land use conditions, Exelon Generation does not expect LGS license renewal to adversely affect threatened and endangered plant species located near the LGS plant site, makeup water supply system, or transmission system ROWs. Nevertheless, we are requesting your help to identify issues we may have overlooked that need to be addressed in the LGS license renewal environmental report. We are also interested in learning of any information your staff believes could help expedite the NRC's review of the LGS license renewal application. Hence, in closing, we would appreciate receiving a response from you detailing such issues and information for the LGS plant site, makeup water supply system and transmission system. We would also welcome your confirmation of our conclusion that LGS license renewal would not adversely affect threatened and endangered plant species.

Because we plan to incorporate a copy of your response, as well as this letter, into the LGS license renewal environmental report that will be submitted to the NRC as part of the LGS license renewal application, your response will be most helpful if we receive it by March 10, 2011.

Please call Nancy Ranek (610-765-5369), our License Renewal Environmental Lead, if there are questions or you require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael P. Gallagher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael P. Gallagher

Enclosures:

- Attachment 1: Receipts for PNDI Search #s 20100421240174, 20100421240163, 20100406237563, and 20100407237630
- Attachment 2: Threatened and Endangered Plant Species that could occur in Montgomery, Chester, and Bucks Counties
- Attachment 3: Figures Depicting LGS Project Features (Figures 1 through 9)

ATTACHMENT 1

Receipts for PNDI Searches

<u>Receipt for PNDI Search # 20100421240174, Limerick GS</u>	<u>2</u>
<u>Receipt for PNDI Search # 20100421240163, Perkiomen Pumphouse.....</u>	<u>7</u>
<u>Receipt for PNDI Search # 20100406237563, Bradshaw pump</u>	<u>11</u>
<u>Receipt for PNDI Search # 20100407237630, Bedminster WPF.....</u>	<u>16</u>

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

1. PROJECT INFORMATION

Project Name: **Limerick GS**

Date of review: **4/21/2010 4:33:48 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**

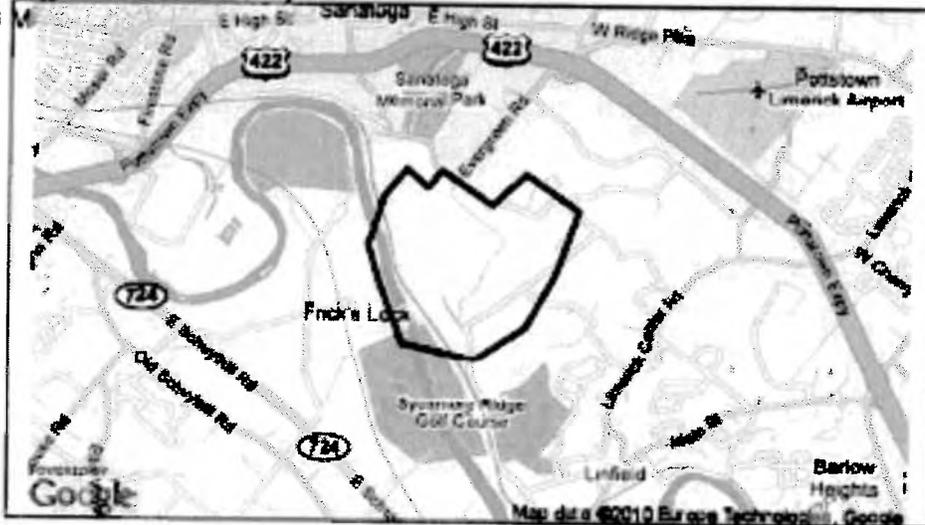
Project Area: **483.8 acres**

County: **Chester, Montgomery Township/Municipality: East Coventry, Limerick, Lower Pottsgrove**

Quadrangle Name: **PHOENIXVILLE – ZIP Code: 19465, 19464**

Decimal Degrees: **40.224106 N, -75.580658 W**

Degrees



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: "Will the entire project (including any discharge) occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?"

Your answer is: **3. Unknown**

Q2: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats

Your answer is: **1. Yes**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

DCNR Species:

Scientific Name: *Rotala ramosior*

Common Name: Tooth cup

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

PA Fish and Boat Commission

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

Scientific Name: *Stygobromus pizzinii*

Common Name: Pizzini's Cave Amphipod

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Check-list of *Minimum Materials to be submitted:*

- ___ **SIGNED** copy of this Project Environmental Review Receipt
- ___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- ___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- ___ USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- ___ A **basic site plan**(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- ___ **Color photos** keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- ___ **information about the presence and location of wetlands** in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- ___ **The DEP permit(s)** required for this project

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA
17105-8552
Fax: (717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

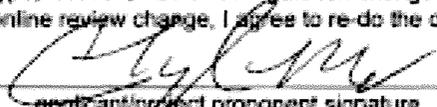
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax: (717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks Ecologist
Company/Business Name: URS Corporation
Address: 355 Commerce Dr., Suite 300
City, State, Zip: Ft. Washington PA 19024
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature Date

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240163

1. PROJECT INFORMATION

Project Name: **Perkiomen Pumphouse**

Date of review: **4/21/2010 4:16:12 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**

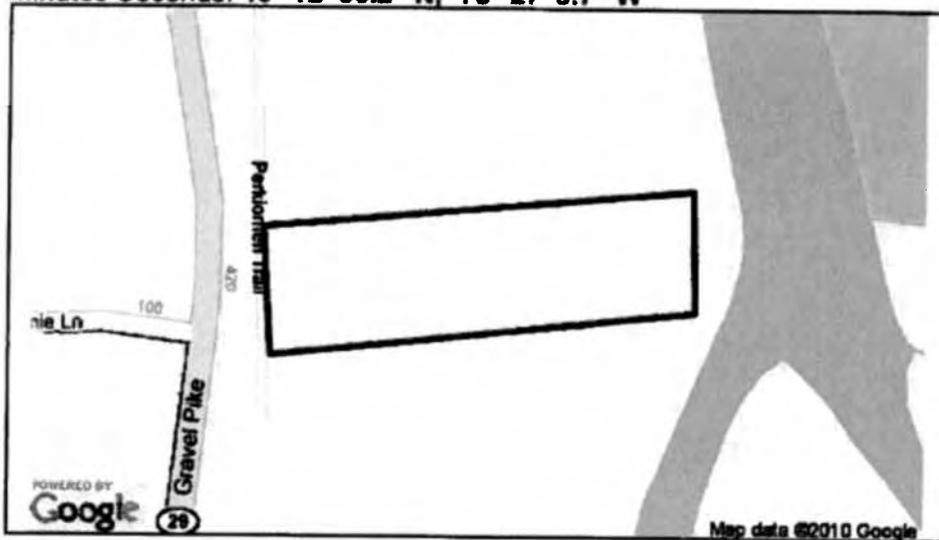
Project Area: **3.5 acres**

County: **Montgomery Township/Municipality: Perkiomen**

Quadrangle Name: **COLLEGEVILLE – ZIP Code: 19426**

Decimal Degrees: **40.215611 N, -75.451022 W**

Degrees Minutes Seconds: **40° 12' 56.2" N, -75° 27' 3.7" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service
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315 South Allen Street, Suite 322, State College, PA.
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PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl-marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

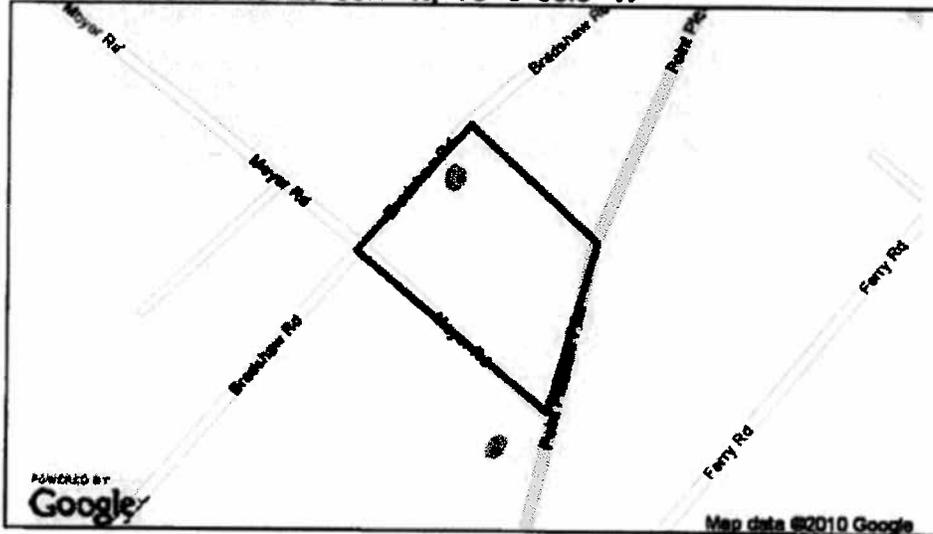
 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

1. PROJECT INFORMATION

Project Name: **Bradshaw_pump**
 Date of review: **4/6/2010 3:53:37 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**
 Project Area: **36.5 acres**
 County: **Bucks Township/Municipality: Plumstead**
 Quadrangle Name: **LUMBERVILLE ~ ZIP Code: 18947, 18901**
 Decimal Degrees: **40.397483 N, -75.093140 W**
 Degrees Minutes Seconds: **40° 23' 50.9" N, -75° 5' 35.3" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur .
Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats
Your answer is: **3. Unknown**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year (from the date of the review)**, and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A **basic** site plan (particularly showing the relationship of the project to the physical features **such as** wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- The DEP permit(s) required for this project

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

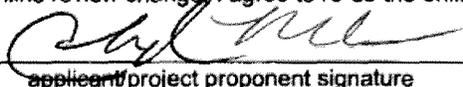
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2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100407237630

1. PROJECT INFORMATION

Project Name: **Bedminster_WPF**

Date of review: **4/7/2010 10:02:31 AM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**

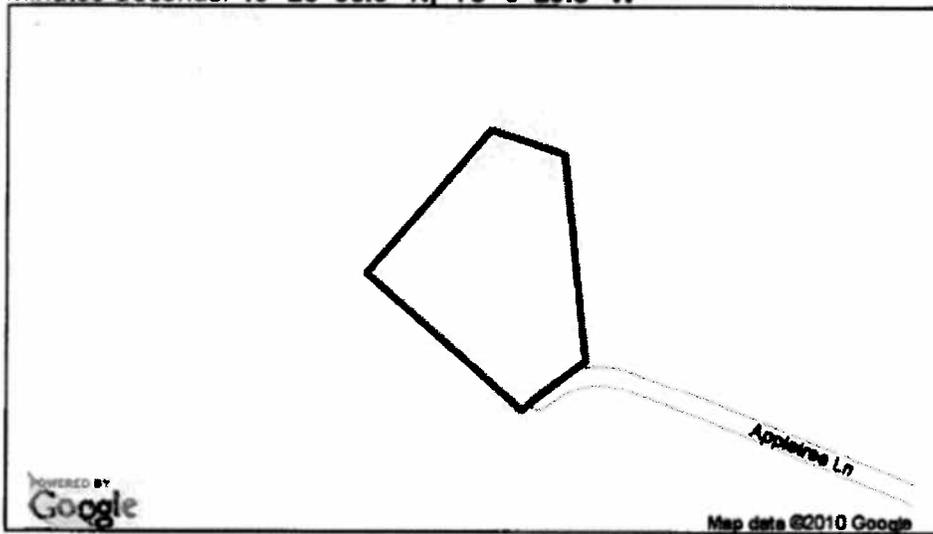
Project Area: **2.4 acres**

County: **Bucks Township/Municipality: Bedminster**

Quadrangle Name: **BEDMINSTER ~ ZIP Code: 18947**

Decimal Degrees: **40.399023 N, -75.158205 W**

Degrees Minutes Seconds: **40° 23' 56.5" N, -75° 9' 29.5" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt

Project Search ID: 20100407237630

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt

Project Search ID: 20100407237630

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 367-25980 Fax: (215) 367-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Cheryl Marks 4/2/10
applicant/project proponent signature date

ATTACHMENT 2

State-Listed Endangered and Threatened Species

Attachment 2

Threatened and Endangered Plant Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
<i>Agalinis auriculata</i>	Eared False-foxglove	--	Endangered	Montgomery, Chester, Bucks
<i>Ammanian coccinea</i>	Scarlet Ammannia	--	Endangered	Bucks
<i>Arabis missouriensis</i>	Missouri Rock-cress	--	Endangered	Montgomery
<i>Arethusa bulbosa</i>	Swamp-pink	--	Endangered	Chester
<i>Aristida purpurascens</i>	Arrow-feathered Three Awned	--	Threatened	Chester, Bucks
<i>Arnica acaulis</i>	Leopard's-bane	--	Endangered	Chester
<i>Asplenium bradleyi</i>	Bradley's Spleenwort	--	Threatened	Chester
<i>Bidens bidentoides</i>	Swamp Beggar-ticks	--	Threatened	Bucks
<i>Bouteloua curtipendula</i>	Tall Gramma	--	Threatened	Chester
<i>Carex alata</i>	Broad-winged Sedge	--	Threatened	Bucks
<i>Carex bicknellii</i>	Bicknell's Sedge	--	Endangered	Chester, Bucks
<i>Carex bullata</i>	Bull Sedge	--	Endangered	Chester, Bucks
<i>Carex crinita</i> var. <i>brevicrinis</i>	Short Hair Sedge	--	Endangered	Chester, Bucks
<i>Carex polymorpha</i>	Variable Sedge	--	Endangered	Chester
<i>Carex prairea</i>	Prairie Sedge	--	Threatened	Bucks
<i>Carex sterilis</i>	Sterile Sedge	--	Threatened	Montgomery, Bucks
<i>Carex tetanica</i>	A Sedge	--	Threatened	Chester, Bucks
<i>Carex typhina</i>	Cattail Sedge	--	Endangered	Montgomery, Chester, Bucks
<i>Cerastium arvense</i> var. <i>villosissimum</i>	Serpentine Chickweed	--	Endangered	Chester
<i>Chasmanthium laxum</i>	Slender Sea-oats	--	Endangered	Bucks
<i>Chrysopsis mariana</i>	Maryland Golden-aster	--	Threatened	Chester, Bucks
<i>Cirsium horridulum</i>	Horrible Thistle	--	Endangered	Chester
<i>Clematis viorna</i>	Vase-vine Leather-flower	--	Endangered	Chester
<i>Cyperus diandrus</i>	Umbrella Flatsedge	--	Endangered	Chester, Bucks
<i>Cyperus refractus</i>	Reflexed Flatsedge	--	Endangered	Montgomery, Bucks
<i>Cyperus retrorsus</i>	Retorse Flatsedge	--	Endangered	Bucks
<i>Dodecatheon radicum</i>	Jeweled Shooting-star	--	Threatened	Montgomery
<i>Echinochloa walteri</i>	Walter's Barnyard-grass	--	Endangered	Bucks
<i>Eleocharis obtuse</i> var. <i>peasei</i>	Wright's Spike-rush	--	Endangered	Bucks
<i>Eleocharis parvula</i>	Little-spike Spike-rush	--	Endangered	Bucks
<i>Eleocharis quadrangulata</i>	Four-angled Spike-rush	--	Endangered	Bucks
<i>Elephantopus carolinianus</i>	Elephant's foot	--	Endangered	Chester
<i>Ellisia nyctelea</i>	Ellisia	--	Threatened	Montgomery,

Threatened and Endangered Plant Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
				Chester, Bucks
<i>Epilobium strictum</i>	Downy Willow-herb	--	Endangered	Montgomery, Bucks
<i>Eriophorum gracile</i>	Slender Cotton-grass	--	Endangered	Montgomery, Bucks
<i>Eriophorum tenellum</i>	Rough Cotton-grass	--	Endangered	Chester
<i>Eriophorum viridicarinatum</i>	Thin-leaved Cotton-grass	--	Threatened	Bucks
<i>Euphorbia ipecacuanhae</i>	Wild Ipecac	--	Endangered	Bucks
<i>Euphorbia purpurea</i>	Glade Spurge	--	Endangered	Chester
<i>Eurybia spectabilis</i>	Low Showy Aster	--	Endangered	Bucks
<i>Euthamia tenuifolia</i>	Grass-leaved Goldenrod	--	Threatened	Montgomery, Bucks
<i>Festuca paradoxa</i>	Cluster Fescue	--	Endangered	Chester
<i>Fimbristylis annua</i>	Annual Fimbry	--	Threatened	Chester
<i>Gaylussacia dumosa</i>	Dwarf Huckleberry	--	Endangered	Montgomery, Chester
<i>Glyceria obtusa</i>	Blunt Manna-grass	--	Endangered	Montgomery
<i>Helianthemum bicknellii</i>	Bicknell's Hoary Rockrose	--	Endangered	Chester, Bucks
<i>Heteranthera multiflora</i>	Multi-flowered Mud-plantain	--	Endangered	Bucks
<i>Hypericum majus</i>	Larger Canadian St. John's-wort	--	Threatened	Chester
<i>Ilex opaca</i>	American Holly	--	Threatened	Chester, Bucks
<i>Iris prismatica</i>	Slender Blue Iris	--	Endangered	Montgomery, Chester, Bucks
<i>Iris verna</i>	Dwarf Iris	--	Endangered	Bucks
<i>Isotria medeoloides</i>	Small-whorled Pogonia	Threatened	Endangered	Chester
<i>Juncus dichotomus</i>	Forked Rush	--	Endangered	Montgomery, Chester, Bucks
<i>Juncus scirpoides</i>	Scirpus-like Rush	--	Endangered	Montgomery, Chester, Bucks
<i>Juncus torreyi</i>	Torrey's Rush	--	Threatened	Chester
<i>Linum intercursum</i>	Sandplain Wild Flax	--	Endangered	Montgomery, Chester, Bucks
<i>Listera australis</i>	Southern Twayblade	--	Endangered	Chester
<i>Listera cordata</i>	Heart-leaved Twayblade		Endangered	Bucks
<i>Lobelia kalmii</i>	Brook Lobelia	--	Endangered	Montgomery
<i>Lobelia puberula</i>	Downy Lobelia	--	Endangered	Chester
<i>Lycopodiella alopecuroides</i>	Foxtail Clubmoss	--	Endangered	Bucks
<i>Lycopodiella appressa</i>	Southern Bog Clubmoss	--	Threatened	Bucks
<i>Lycopus rubellus</i>	Bugleweed	--	Endangered	Bucks
<i>Lyonia mariana</i>	Stagger-bush	--	Endangered	Montgomery, Chester, Bucks

Threatened and Endangered Plant Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
<i>Magnolia tripetala</i>	Umbrella Magnolia	--	Threatened	Chester, Bucks
<i>Magnolia virginiana</i>	Sweet bay magnolia	--	Threatened	Montgomery, Chester, Bucks
<i>Myriophyllum farwellii</i>	Farwell's Water-milfoil	--	Endangered	Bucks
<i>Myriophyllum heterophyllum</i>	Broad-leaved Water-milfoil	--	Endangered	Bucks
<i>Nymphoides cordata</i>	Floating-heart	--	Threatened	Bucks
<i>Panicum amarum</i> var. <i>amarulum</i>	Southern Sea-beach Panic-grass	--	Threatened	Bucks
<i>Panicum scoparium</i>	Velvety Panic-grass	--	Endangered	Chester, Bucks
<i>Parnassia glauca</i>	Carolina Grass-of-parnassus		Endangered	Bucks
<i>Phemeranthus teretifolius</i>	Round-leaved Fame-flower	--	Threatened	Chester
<i>Phyllanthus caroliniensis</i>	Carolina Leaf-flower	--	Endangered	Chester
<i>Poa autumnalis</i>	Autumn Bluegrass	--	Endangered	Chester, Bucks
<i>Poa paludigena</i>	Bog Bluegrass	--	Threatened	Chester
<i>Polygala cruciata</i>	Cross-leaved Milkwort	--	Endangered	Montgomery, Chester, Bucks
<i>Polygala curtissii</i>	Curtis's Milkwort	--	Endangered	Chester
<i>Polygala incarnata</i>	Pink Milkwort	--	Endangered	Chester
<i>Polystichum braunii</i>	Braun's Holly Fern	--	Endangered	Bucks
<i>Populus balsamifera</i>	Balsam Poplar	--	Endangered	Montgomery
<i>Potamogeton pulcher</i>	Spotted Pondweed	--	Endangered	Bucks
<i>Potentilla paradoxa</i>	Bushy Cinquefoil	--	Endangered	Montgomery
<i>Prunus maritima</i>	Beach Plum	--	Endangered	Montgomery, Bucks
<i>Ptelea trifoliata</i>	Common Hop-tree	--	Threatened	Bucks
<i>Ptilimnium capillaceum</i>	Mock Bishop-weed	--	Endangered	Bucks
<i>Pycnanthemum torrei</i>	Torrey's Mountain-mint	--	Endangered	Bucks
<i>Quercus falcata</i>	Southern Red Oak	--	Endangered	Montgomery, Chester, Bucks
<i>Quercus phellos</i>	Willow Oak	--	Endangered	Chester, Bucks
<i>Ranunculus fascicularis</i>	Tufted Buttercup	--	Endangered	Montgomery, Chester
<i>Rhamnus lanceolata</i>	Lance-leaved Buckthorn	--	Endangered	Chester
<i>Rhexia mariana</i>	Maryland Meadow-beauty	--	Endangered	Chester, Bucks
<i>Rhynchospora capillacea</i>	Capillary Beaked-rush	--	Endangered	Bucks
<i>Sagittaria calycina</i> var. <i>spongiosa</i>	Long-lobed Arrow-head	--	Endangered	Bucks
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	--	Endangered	Bucks
<i>Schoenoplectus smithii</i>	Smith's Bulrush	--	Endangered	Bucks
<i>Scleria minor</i>	Minor Nutrush	--	Endangered	Chester
<i>Scleria muehlenbergii</i>	Reticulated Nutrush	--	Endangered	Chester

Threatened and Endangered Plant Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
<i>Scleria pauciflora</i>	Few Flowered Nutrush	--	Threatened	Montgomery, Chester, Bucks
<i>Sedum rosea</i>	Roseroot Stonecrop	--	Endangered	Bucks
<i>Sericocarpus linifolius</i>	Narrow-leaved White-topped Aster	--	Endangered	Montgomery, Chester, Bucks
<i>Sisyrinchium atlanticum</i>	Eastern Blue-eyed Grass	--	Endangered	Chester, Bucks
<i>Sparganium androcladum</i>	Branching Bur-reed	--	Endangered	Bucks
<i>Spiranthes romanzoffiana</i>	Hooded Ladies'-tresses	--	Endangered	Montgomery
<i>Spiranthes vernalis</i>	Spring Ladies'-tresses	--	Endangered	Montgomery, Chester
<i>Sporobolus heterolepis</i>	Prairie Dropseed	--	Endangered	Chester
<i>Symphotrichum depauperatum</i>	Serpentine Aster	--	Threatened	Chester
<i>Symphotrichum novi-belgii</i>	New York Aster	--	Threatened	Montgomery, Bucks
<i>Triphora trianthophora</i>	Nodding Pogonia	--	Endangered	Montgomery, Chester, Bucks
<i>Triplasis purpurea</i>	Purple Sandgrass	--	Endangered	Bucks
<i>Trollius laxus</i>	Spreading Globeflower	--	Endangered	Bucks
<i>Utricularia intermedia</i>	Flat-leaved Bladderwort	--	Threatened	Bucks
<i>Utricularia radiata</i>	Small Swollen Bladderwort	--	Endangered	Bucks
<i>Vernonia glauca</i>	Tawny Ironweed	--	Endangered	Montgomery, Chester
<i>Viburnum nudum</i>	Possum-haw	--	Endangered	Montgomery, Chester, Bucks
<i>Viola brittoniana</i>	Coast Violet	--	Endangered	Bucks

Note: -- in the Federal Status column signifies that the species is not a federally-listed species.

ATTACHMENT 3

Figures Depicting LGS Project Features

- Figure 1 LGS Plant Site Property Boundaries
- Figure 2 Perkiomen Pumphouse
- Figure 3 LGS Makeup Water Supply System
- Figure 4 Bradshaw Reservoir and Bradshaw Pumphouse Properties
- Figure 5 Bedminster Water Processing Facility Property
- Figure 6 Limerick to Cromby 230 kV Transmission Line Route
- Figure 7 Cromby to North Wales 230 kV Transmission Line
- Figure 8 Cromby to Plymouth Meeting 230 kV Transmission Line Route
- Figure 9 Limerick to Whitpain 500 kV Transmission Line Route



0 875 1,750 3,500 Feet

Exelon.

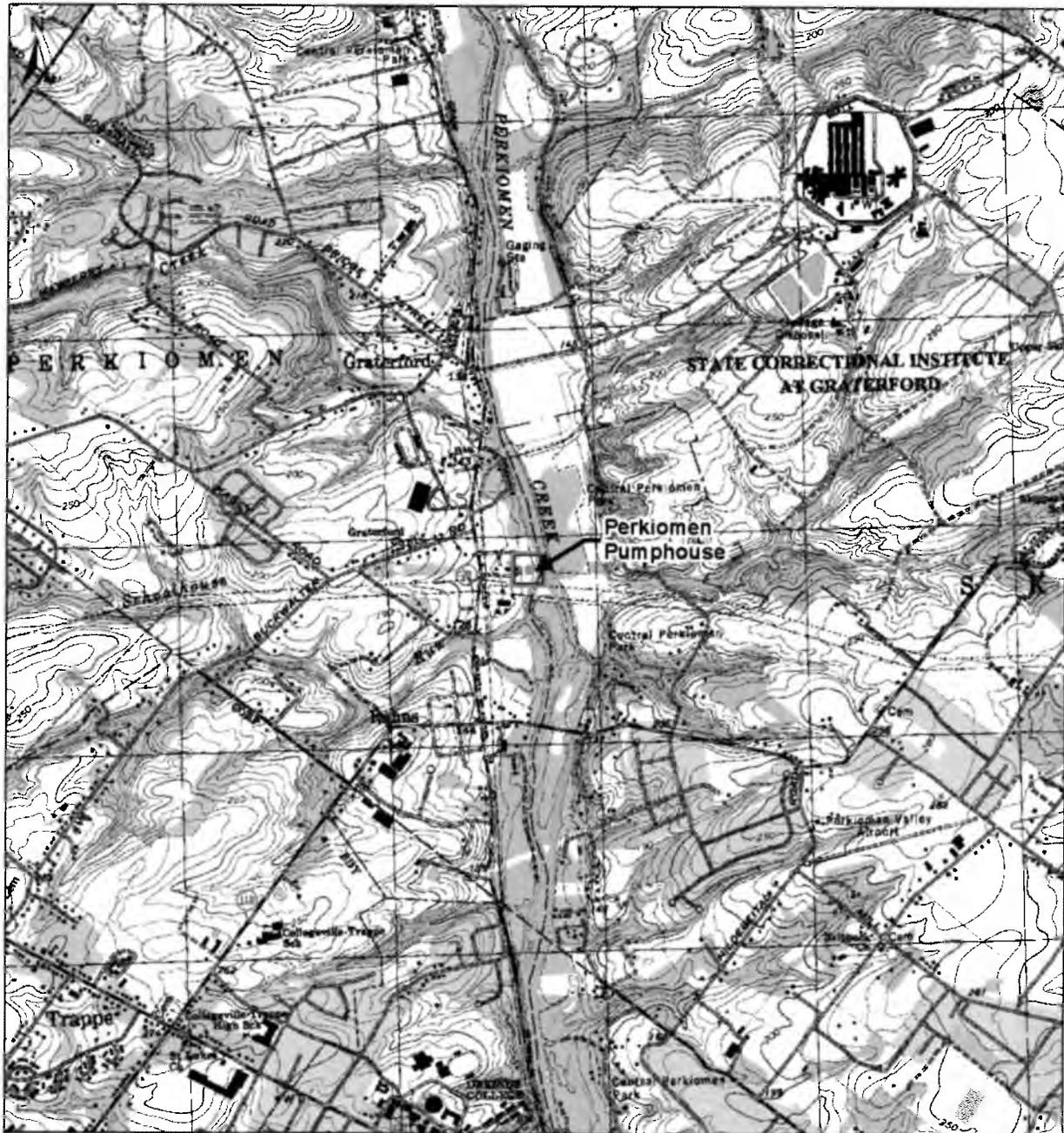
Reference:
 DVRPC 2005 Aerial Imagery
 ESRI 2009 Streets and Roads
 NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US

Total Exelon Generation-owned property:
 645 acres.

Legend

Exelon Generation Property Boundary	County Boundary
2500 Ft Radius Exclusion Area	Municipal Boundary
Conrail Line	

Figure 1 LGS Plant Site Property Boundaries
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA



0 1,000 2,000 4,000 Feet

Exelon.

Reference:
USGS Topographic Quadrangle
Collegeville, 1998

NAD 1983 State Plane Pennsylvania South
Projection: Lambert Conformal Conic
Linear Unit: Foot US

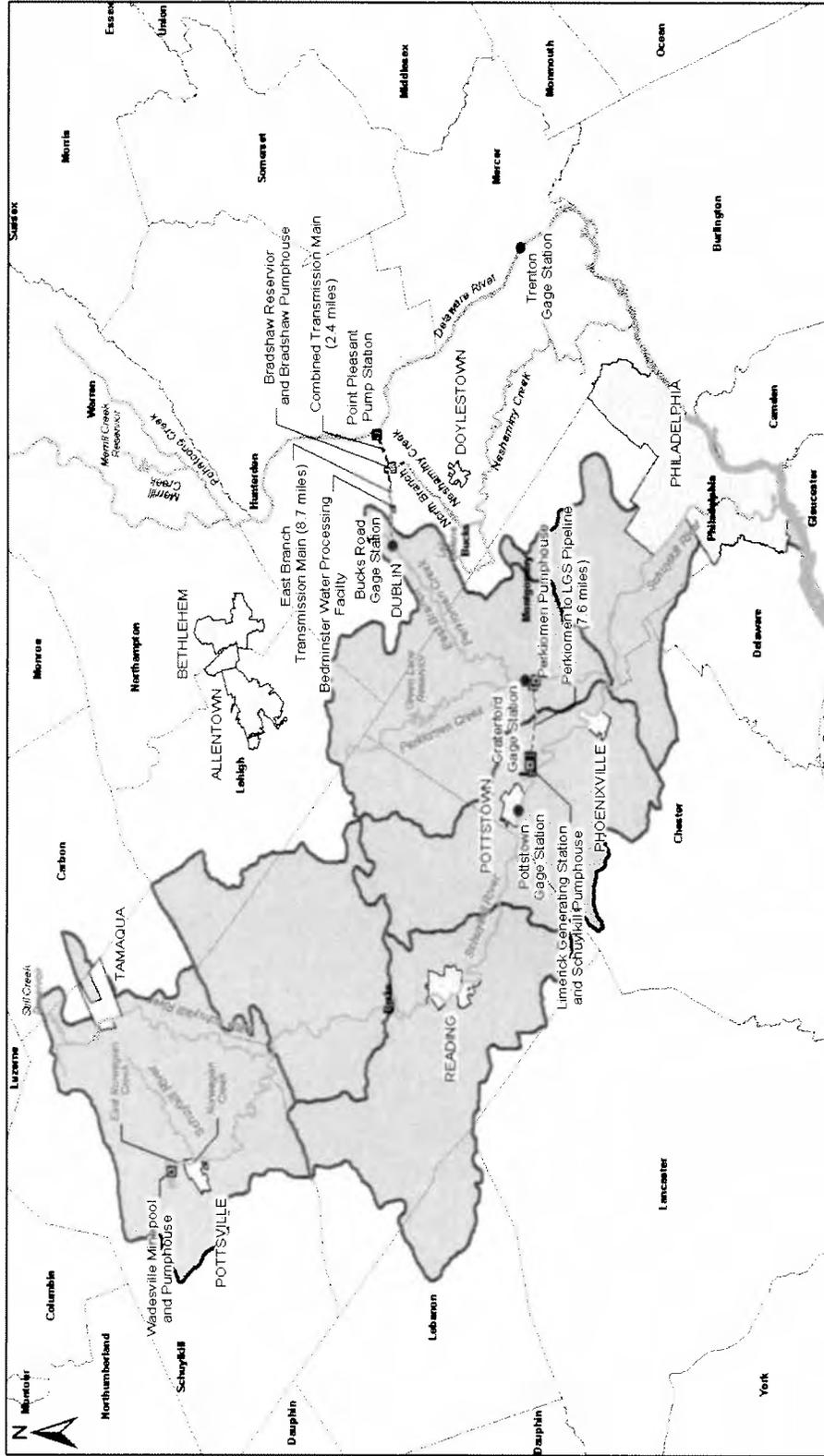


Legend

 Pump House Location

**Figure 2 Perkiomen Pump House
Exelon Generation
Limerick Generating Station**

Limerick Township, Montgomery County, PA



Legend

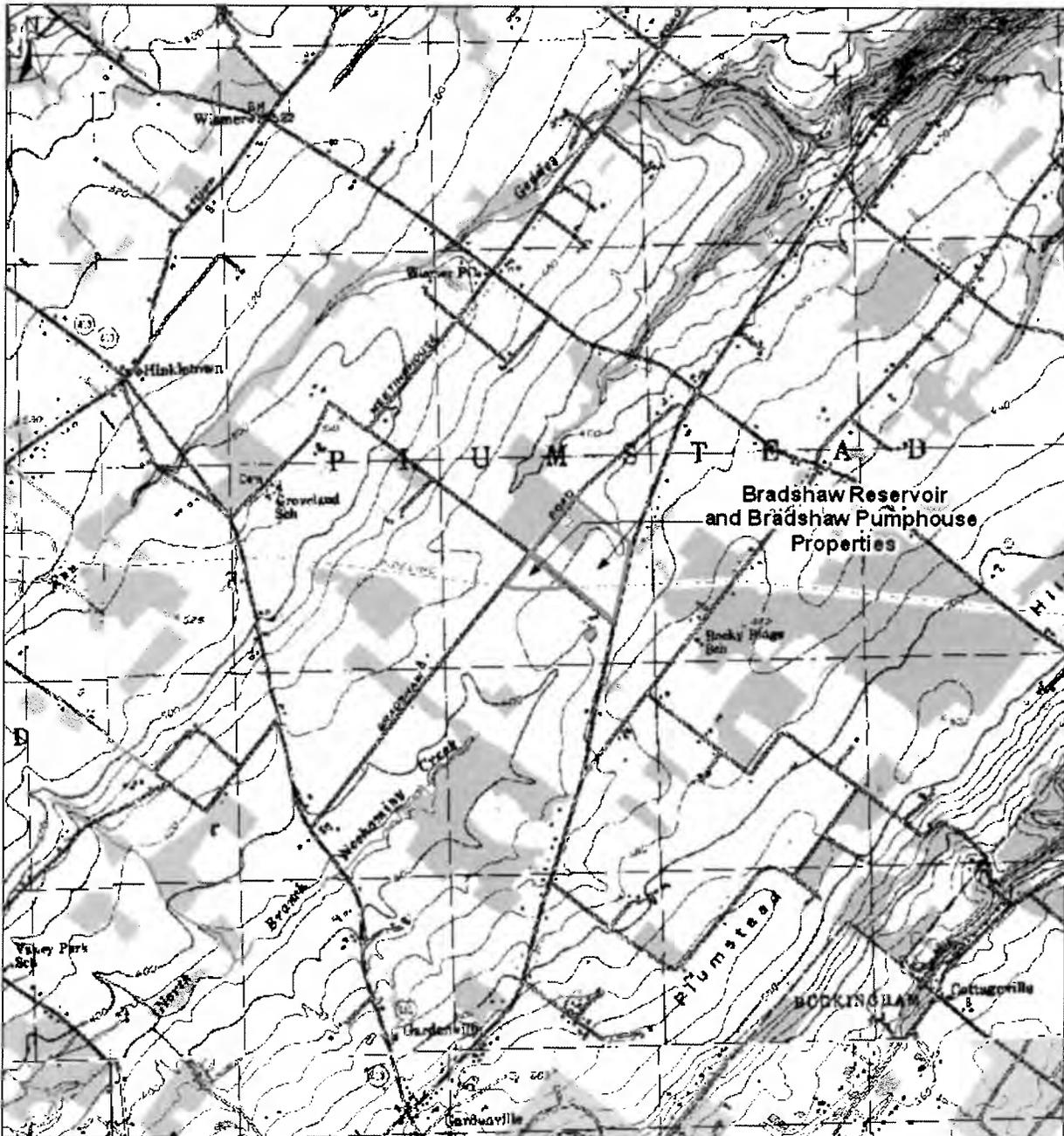
- Pumphouse
- USGS Gage Stations
- Limerick Generating Station
- Transmission Mains
- Schuylkill Watershed
- Populated Area
- County Boundary

Exelon.

Reference:
 ESRI 2008 Streets and Roads
 NAD 83 State Plane Pennsylvania South
 Projection
 Conoidal Conic
 Linear Unit: Foot US

Key: Map Not To Scale

Figure 3 LGS Make up Water Supply System
Exelon Generating Station
Limerick Generating Station
 Limerick, Township, Montgomery County, PA



0 1,000 2,000 4,000 Feet

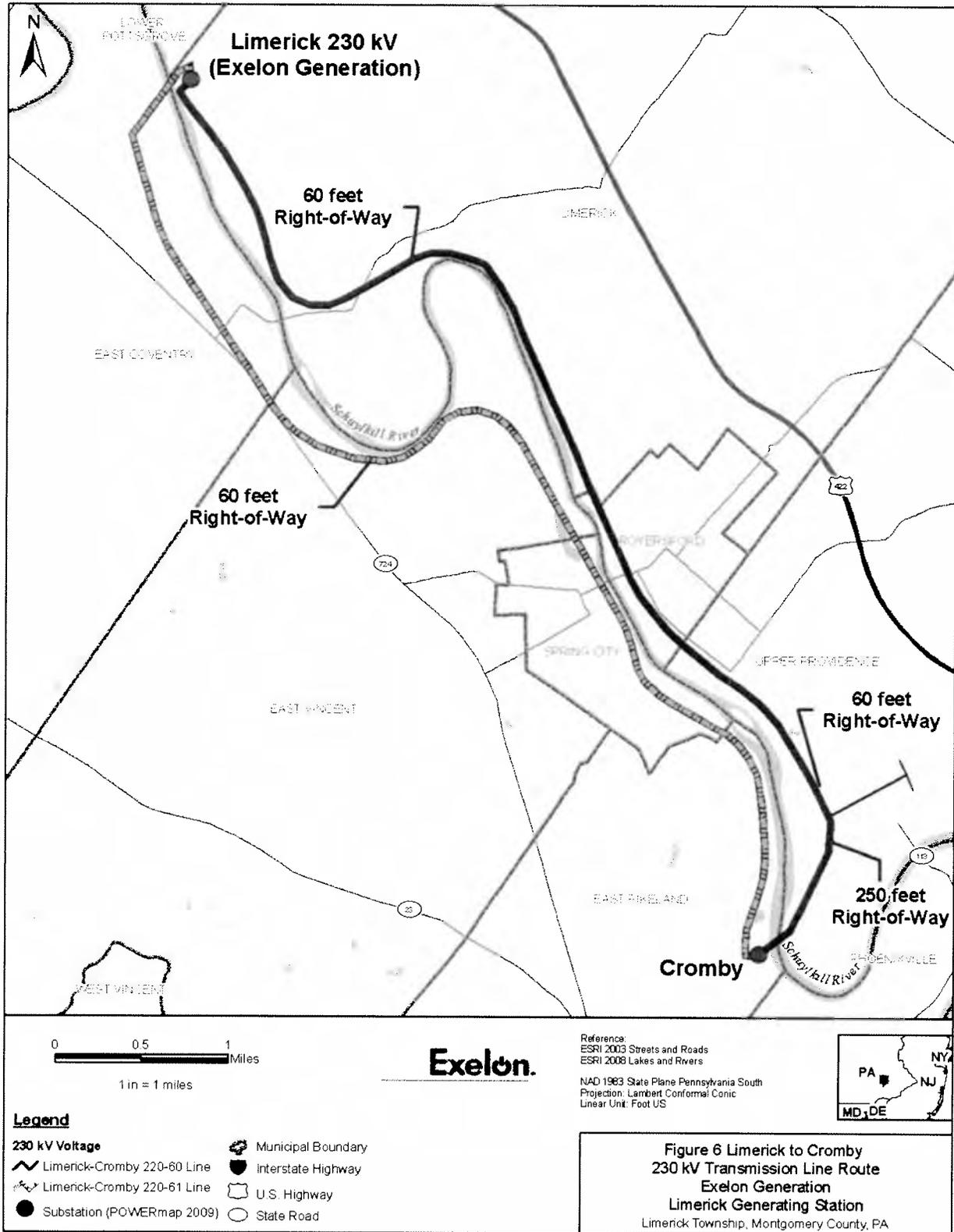
Exelon.

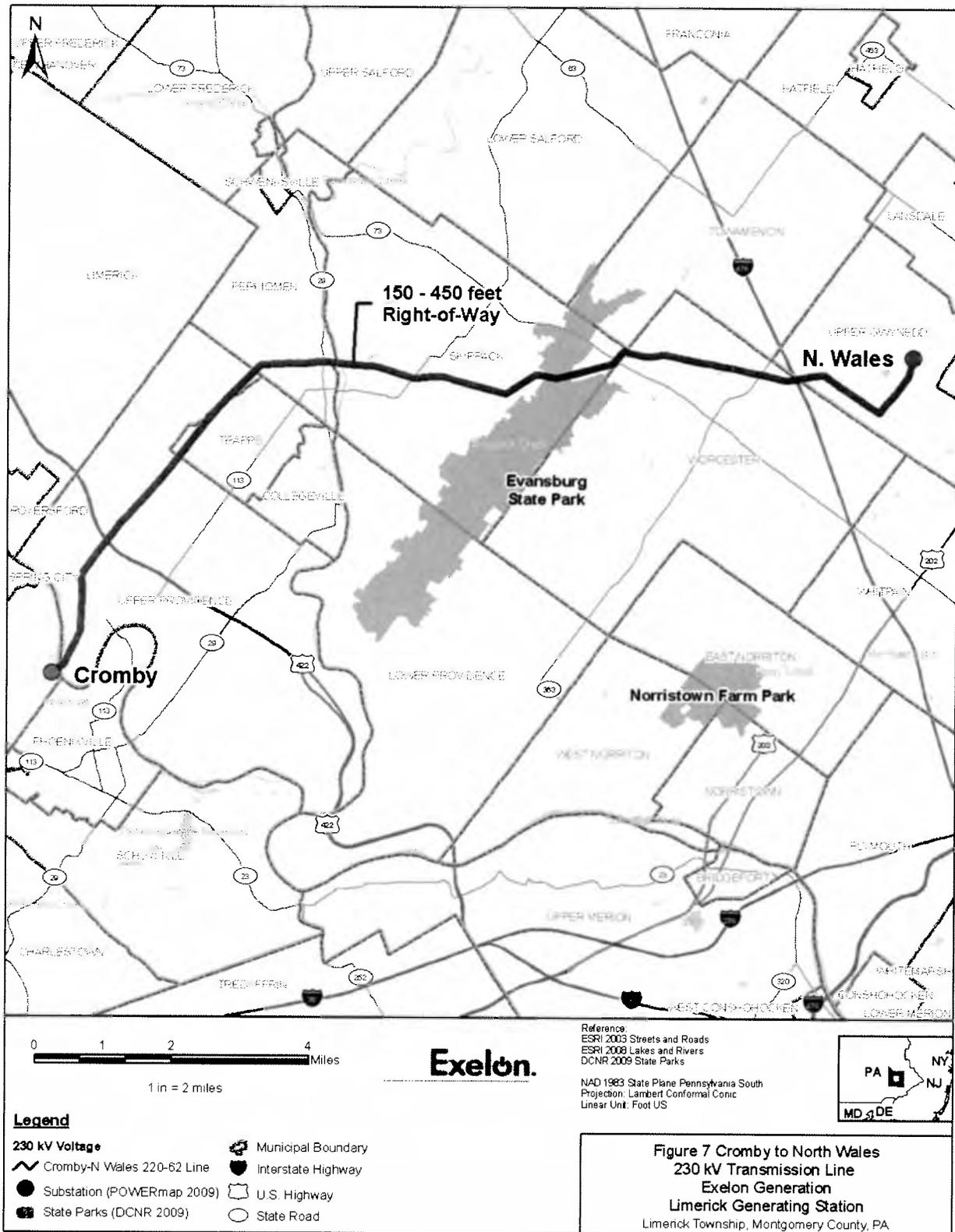
Reference:
 USGS Topographic Contour Map
 Limerick, 1996
 Bedrock, 1999

NAD 1983 State Plane Pennsylvania S Coords
 Projection: Lambert Conformal Conic
 Line at 41°E Foot US

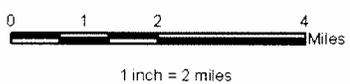
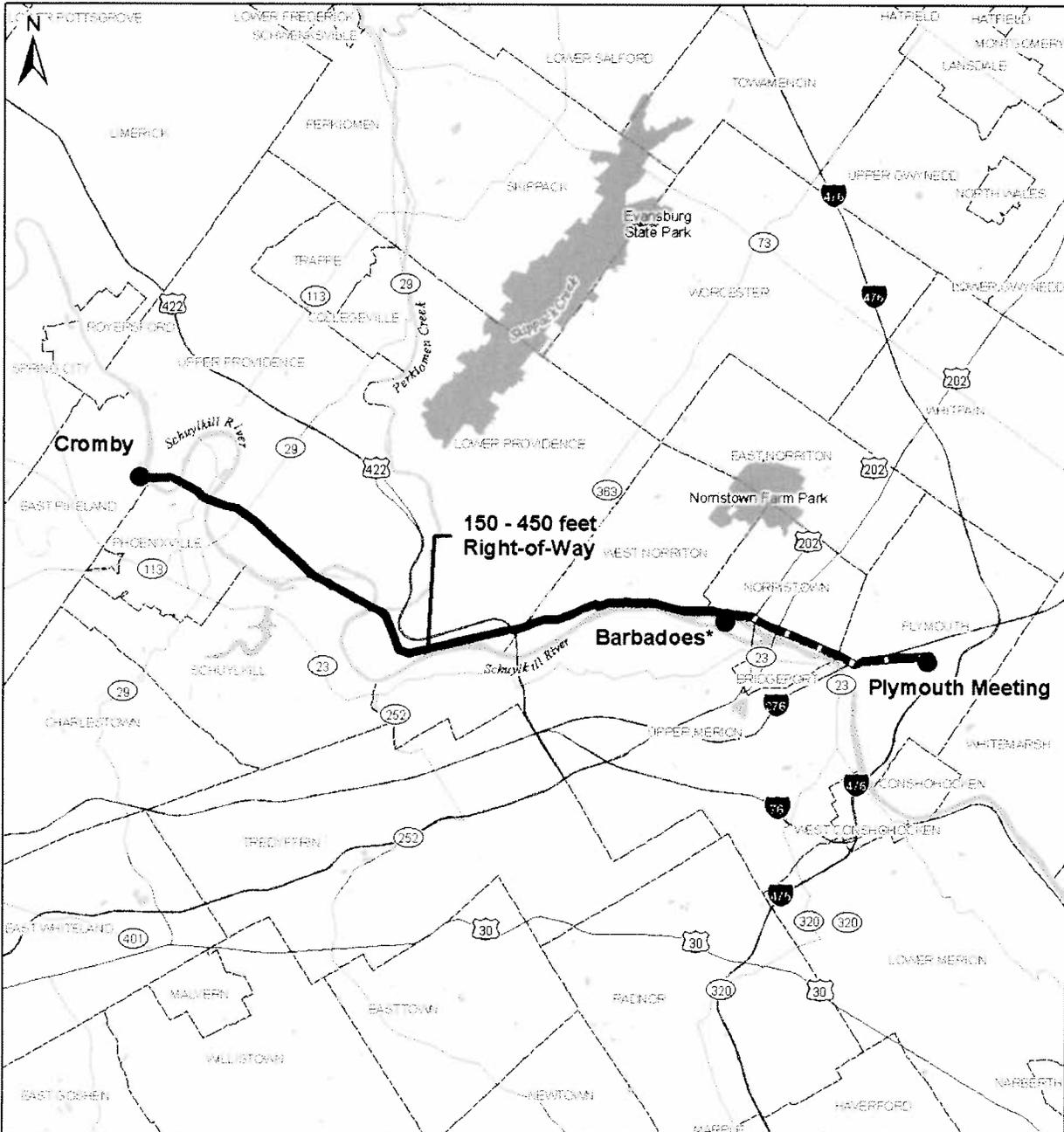
Legend
 Property Boundary

Figure 4 Bradshaw Reservoir and Bradshaw Pumphouse Properties
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA



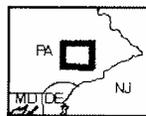


**Figure 7 Cromby to North Wales
 230 kV Transmission Line
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



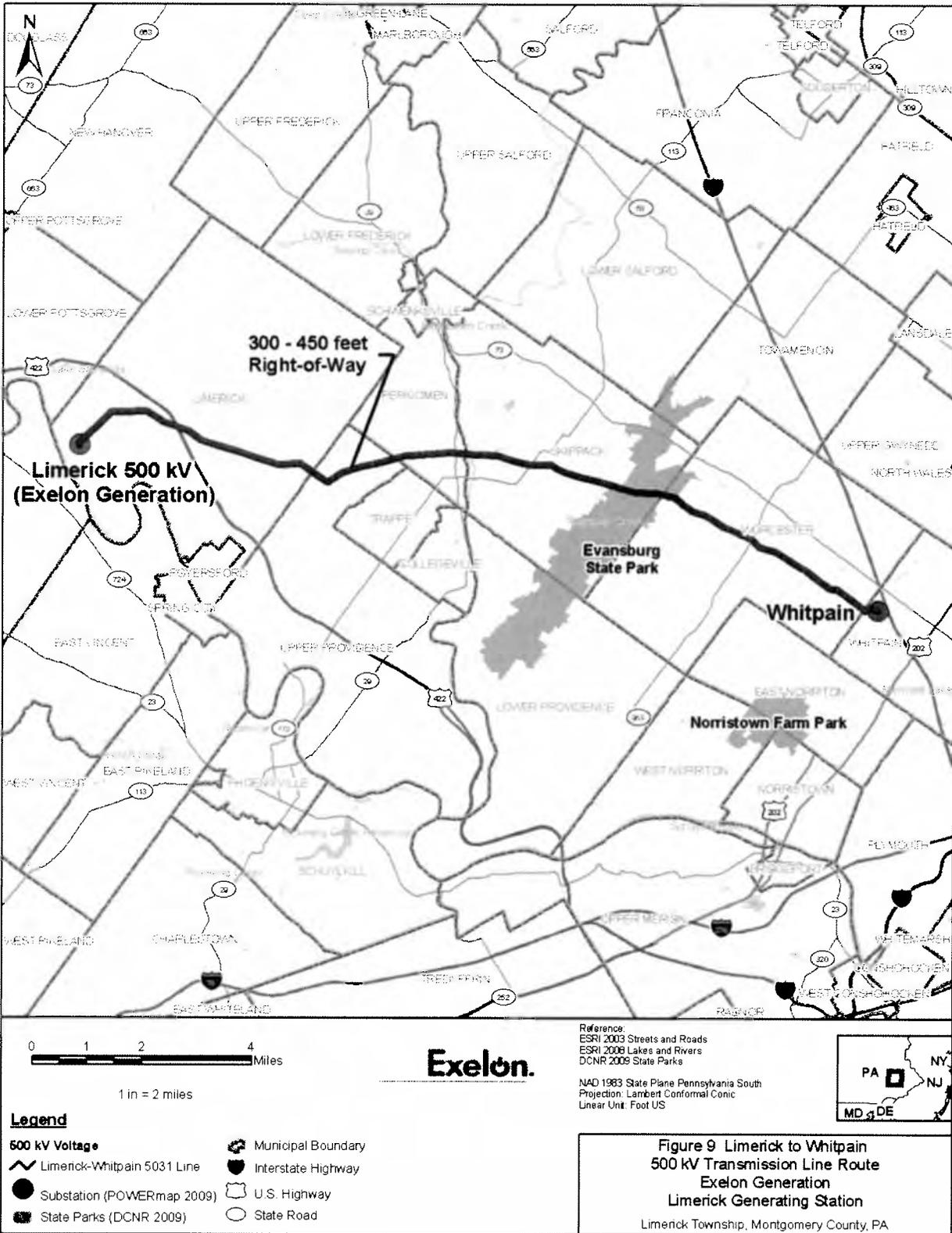
Exelon.

Reference:
 ESRI 2003 Streets and Roads
 ESRI 2008 Lakes and Rivers
 DCNR 2008 State Parks
 NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US
 Note: *Location of Barbadoes substation
 not confirmed



- Legend**
- 230 kV Voltage
 - Cromby-PlymMeeting 220-63
 - Cromby-PlymMeeting 220-64
 - Substation (POWERmap 2009)
 - State Parks (DCNR 2009)
 - Interstate Highway
 - U.S. Highway
 - State Road

**Figure 8 Cromby to Plymouth Meeting
 230-kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**





BUREAU OF FORESTRY

March 9, 2011

PNDI Number: 21136

11/PA
3.15.11

Michael P. Gallagher, PE
Exelon Nuclear
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
Chester, Montgomery, & Bucks Counties

Dear Mr. Gallagher,

Thank you for your submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Large Project Number **21136** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

No Impact Anticipated

PNDI records indicate species or resources of concern are located in the vicinity of the project. However, since the renewal does not involve new construction, refurbishment, ground disturbance, changes to operations or existing land use conditions, DCNR has determined that no impact is likely to occur to species of special concern under our jurisdiction as a result of this project.

For your information, we have included details on the species of special concern which are known near the rights of way of the LGS transmission corridors. If plans change to include earth disturbance in these locations, please coordinate with us further.

Limerick to Cromby 230kV Transmission Line Route

***Rotala ramosior* (Tooth-cup, PA Rare):** habitat is described in Plants of PA, by Rhoads and Block as wet, sandy shores and other swampy open ground; flowers July-Sept. Tooth-cup is known in a wet wooded stretch along the west side of the Schuylkill River.

***Cyperus schweinitzii* (Schweinitz's flatsedge, PA Rare):** habitat includes dry or moist sand flats and dunes; flowering and fruiting time is mid-summer to early fall. Schweinitz's flatsedge was found in association with Tooth-cup in a wet wooded area along the west side of the Schuylkill River.

***Arabis missouriensis* (Missouri rock-cress, PA Endangered):** habitat includes dry slopes; flowers April-early June. Missouri rock-cress was found nearby in a dry forested slope with scattered outcrops of Brunswick red shale. If work is planned (especially ROW widening) in the future for the eastern Limerick-Cromby 220-60 Line, please coordinate with us further.

***Arabis patens* (Spreading rock-cress, Currently Unlisted, Proposed PA Threatened):** habitat is moist, rocky woods; flowers April-July. Spreading rock cress was found nearby in a shaded NW-facing rock face.

Cromby to North Wales 230kV Transmission Line Route

***Arabis patens* (Spreading rock-cress, Currently Unlisted, Proposed PA Threatened):** habitat is moist, rocky woods; flowers April-July. Spreading rock cress was found nearby in a shaded NW-facing rock face.

***Iris prismatica* (Slender Blue Iris, PA Endangered):** habitat is moist meadows and sandy or gravelly shores; flowering time is late May-June. Slender blue iris was found nearby in gently sloping land, open with scattered red maples in a mossy floodplain of the Perkiomen Creek.

***Ranunculus fascicularis* (Tufted buttercup, PA Endangered):** habitat includes dry, thick woods and exposed calcareous slopes and edges; flowers April-May. Tufted buttercup was found nearby in a ridgetop glade near trails in a state park.

Cromby to Plymouth Meeting 230kV Transmission Line Route

***Arabis patens* (Spreading rock-cress, Currently Unlisted, Proposed PA Threatened):** habitat is moist, rocky woods; flowers April-July. Spreading rock cress was found nearby in a shaded NW-facing rock face.

***Andropogon gyrans* (Elliott's beardgrass, Currently unlisted, Proposed PA Rare):** habitat is dry or moist fields or open woods; flowering time is September to October. Elliott's beardgrass was found nearby in an old field.

***Cuscuta campestris* (Dodder, Currently Unlisted, Proposed PA Threatened):** habitat includes thickets and waste ground, parasitic on wild and cultivated hosts; flowers June-September, fruits July-October. This dodder species was previously found in an old impounding basin, near the Schuylkill River.

***Rotala ramosior* (Tooth-cup, PA Rare):** habitat includes wet, sandy shores and other swampy open ground; flowers July-Sept. This population of Tooth-cup was found on an exposed mud flat and sandy-cobbly shores of seasonally flooded shallow basins.

Limerick to Whitpain Meeting 500kV Transmission Line Route

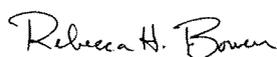
***Ranunculus fascicularis* (Tufted buttercup, PA Endangered):** habitat includes dry, thick woods and exposed calcareous slopes and edges; flowers April-May. Tufted buttercup was found nearby in a ridgetop glade near trails in a state park.

***Iris prismatica* (Slender Blue Iris, PA Endangered):** habitat is moist meadows and sandy or gravelly shores; flowering time is late May-June. Slender blue iris was found nearby in gently sloping land, open with scattered red maples in a mossy floodplain of the Perkiomen Creek.

This response represents the most up-to-date summary of the PNDI data files and is valid for one (1) year from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on-site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map).

This finding applies to impacts to DCNR only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure the U.S. Fish and Wildlife Service, PA Game Commission, and the Pennsylvania Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Rebecca H. Bowen, Environmental Review Manager FOR Chris Firestone, Wild Plant Program Mgr.
Ph: 717-772-0258 ~ c-rbowen@state.pa.us

conserve

sustain

enjoy

Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

Exelon Nuclear
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

January 19, 2011

Mr. Jim Leigey
Wildlife Impact Review Coordinator
Pennsylvania Game Commission
2001 Elmerton Ave.
Harrisburg, PA 17110

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
Request for Information on Listed Threatened and Endangered Species

Dear Mr. Leigey:

In mid-2011, Exelon Generation Company, LLC (Exelon Generation; a subsidiary of Exelon Corporation) plans to apply to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the operating licenses for Limerick Generating Station, Units 1 and 2 (LGS). The existing license for Unit 1 will expire on October 26, 2024 and the existing license for Unit 2 will expire on June 22, 2029. The renewal term for each unit would be an additional twenty years beyond the existing license expiration date.

The NRC requires that license renewal applications include environmental reports assessing potential environmental impacts from license renewal activities. One such impact would be effects of license renewal activities on threatened and endangered species that are listed or proposed for listing in accordance with the Endangered Species Act (ESA) (16 USC 1531, et seq.) (10 CFR 51.53(c)(3)(ii)(E)). Accordingly, we are contacting you to obtain input for use in addressing these effects in the LGS license renewal environmental report. Later, NRC may also request an informal consultation with your office under Section 7 of the ESA (16 USC 1536(a)).

Project Features

LGS existing features that are relevant to the effects of license renewal on threatened and endangered species include the following:

1. The LGS plant site, which hosts the two generating units, is located on Exelon Generation-owned properties that are mostly situated in Limerick Township, Montgomery County, but some of which are in the adjacent Lower Pottsgrove Township, Montgomery County or directly across the Schuylkill River in East Coventry Township, Chester County.

2. The LGS makeup water supply system, which conveys water from approved sources to LGS for use in its circulating water system, is composed of the following components:
 - The Perkiomen Pumphouse, located in Graterford Township, Montgomery County, and an associated underground 7.6-mile long Perkiomen Pumphouse-to-LGS pipeline; both are located along an easement held by Exelon Generation within an electrical transmission line right-of-way (ROW) controlled by PECO, a subsidiary of Exelon Corporation;
 - The Bradshaw Reservoir and Bradshaw Pumphouse, which are both situated in Plumstead Township, Bucks County, on Exelon Generation-owned properties totaling 42 acres;
 - The Bedminster Water Processing (Treatment) Facility, which is situated in Bedminster Township, Bucks County, on a 3-acre Exelon Generation-owned property; and
 - An underground water transmission main, which is routed within a natural gas pipeline ROW along an easement held by Exelon Generation that runs from the Bradshaw Pumphouse to the East Branch Perkiomen Creek by way of the Bedminster Facility.

The buried Perkiomen Pumphouse-to-LGS water pipeline and the underground water transmission main are located below ground within ROWs that exist for other purposes, and their operation requires no independent vegetation management or ground disturbing activities along these ROWs. Hence, these underground components of the makeup water supply system are assumed to have no effects on threatened and endangered plant species.

3. The LGS transmission system is composed of the following components:
 - Two electrical transmission lines constructed to connect the LGS main power transformers with two onsite electrical substations (these components are located on the LGS plant site); and
 - Four 230-kiloVolt (kV) and one 500-kV electrical transmission lines, with associated structures and offsite electrical substations, constructed to connect the onsite electrical substations to the regional electricity grid.

All offsite substations and transmission lines are operated by PECO and are located in ROWs situated in Montgomery and Chester Counties either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. Onsite transmission lines traverse only land disturbed during initial station construction.

Figures 1 through 9 showing the locations of the existing LGS project features are provided in Attachment 3.

Activities During the License Renewal Terms

LGS license renewal will involve no new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions. Operation and maintenance activities during the terms of the renewed LGS licenses are only expected to occur

in previously disturbed areas or existing ROWs. Hence, no new adverse impacts to threatened and endangered species are anticipated from license renewal.

Identification of Threatened and Endangered Species Resources

Using the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool, a web-based application sponsored by the Pennsylvania Natural Heritage Program (PNHP), Exelon Generation has reviewed the potential for the LGS plant site area and the properties associated with the LGS makeup water supply system to adversely affect known occurrences of species or natural communities of concern. Receipts for PNDI search #s 20100421240174 (LGS plant site), 20100421240163 (Perkiomen Pumphouse area), 20100406237563 (Bradshaw Reservoir and Pumphouse area), and 20100407237630 (Bedminster Water Processing Facility area) are attached (Attachment 1). The responses for the four project sites stated that no impact is anticipated to threatened and endangered species and/or special concern species or resources.

Given the sizable acreage and distances associated with the LGS transmission line corridors, no PNDI searches were conducted for this project component. For review by your office in identifying species of concern, we instead offer the figures in Attachment 3 showing the routes and widths of the corridors.

A review of the PNHP web site for state-listed endangered and threatened species indicates that a number of state-listed mammal and bird species could occur in Montgomery, Chester, and Bucks Counties. The enclosed Attachment 2 contains a list of these species. One mammal species, the Indiana bat (*Myotis sodalis*), state-listed as endangered with recorded locations in the three counties of interest, also is federally-listed as endangered. Although the following birds that are state-listed as threatened or endangered were observed on one or more occasions at the LGS plant site during surveys conducted from 1972 to 1985, Exelon Generation is not aware that these or any other state-listed mammal or bird species have been recently present on or near the properties associated with LGS or its associated transmission lines: American bittern (*Botaurus lentiginosus*), Great egret (*Casmerodius albus*), Blackpoll warbler (*Dendroica striata*), Yellow-bellied flycatcher (*Empidonax flaviventris*), Peregrine falcon (*Falco peregrinus*), Bald eagle (*Haliaeetus leucocephalus*), Least bittern (*Ixobrychus exilis*), Yellow-crowned night heron (*Nyctanassa violacea*), Black-crowned night heron (*Nycticorax nycticorax*), and Osprey (*Pandion haliaetus*). Also, Exelon Generation and PECO adhere to regulatory requirements regarding sensitive areas that could contain state-listed threatened and endangered plant species and work closely with your department to protect these resources.

Because license renewal involves no new construction, refurbishment, ground disturbing activities, changes to operation, or changes to existing land use conditions, Exelon Generation does not expect LGS license renewal to adversely affect threatened and endangered mammal and bird species located near the LGS plant site, makeup water supply system, or transmission system ROWs. Nevertheless, we are requesting your help to identify issues we may have overlooked that need to be addressed in the LGS license renewal environmental report. We are also interested in learning of any information your staff believes could help expedite the NRC's review of the LGS license renewal application. Hence, in closing, we would appreciate receiving a response from you detailing such issues and information for the LGS plant site, makeup water supply system and transmission system. We would also welcome your confirmation of our conclusion that LGS license renewal would not adversely affect threatened and endangered mammal and bird species.

Because we plan to incorporate a copy of your response, as well as this letter, into the LGS license renewal environmental report that will be submitted to the NRC as part of the LGS license renewal application, your response will be most helpful if we receive it by March 10, 2011.

Please call Nancy Ranek (610-765-5369), our License Renewal Environmental Lead, if there are questions or you require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael P. Gallagher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael P. Gallagher

Enclosures:

- Attachment 1: Receipts for PNDI Search #s 20100421240174, 20100421240163, 20100406237563, and 20100407237630
- Attachment 2: Threatened and Endangered Mammal and Bird Species that could occur in Montgomery, Chester, and Bucks Counties
- Attachment 3: Figures Depicting LGS Project Features (Figures 1 through 9)

ATTACHMENT 1

Receipts for PNDI Searches

Receipt for PNDI Search # 20100421240174, Limerick GS 2

Receipt for PNDI Search # 20100421240163, Perkiomen Pumphouse 7

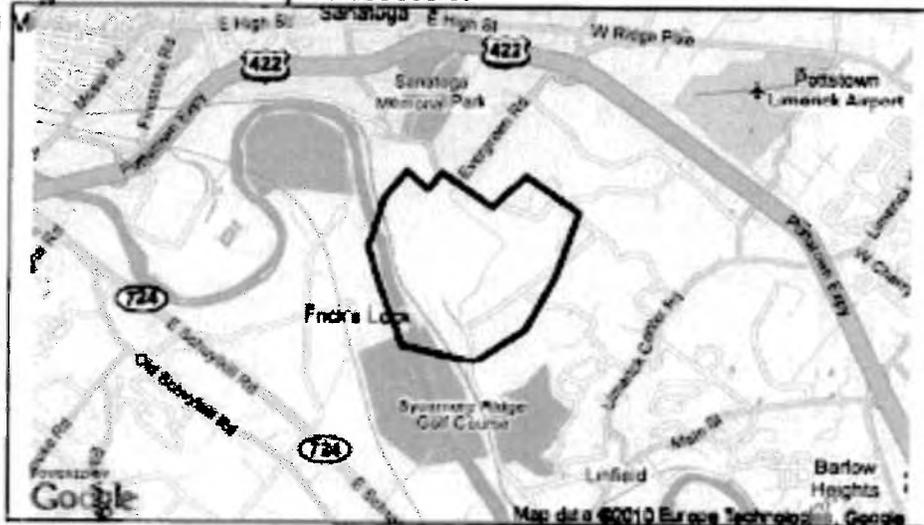
Receipt for PNDI Search # 20100406237563, Bradshaw pump 11

Receipt for PNDI Search # 20100407237630, Bedminster WPF 16

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

1. PROJECT INFORMATION

Project Name: **Limerick G5**
 Date of review: **4/21/2010 4:33:48 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**
 Project Area: **483.8 acres**
 County: **Chester, Montgomery Township/Municipality: East Coventry, Limerick, Lower Pottsgrove**
 Quadrangle Name: **PHOENIXVILLE ~ ZIP Code: 19465, 19464**
 Decimal Degrees: **40.224106 N, -75.580658 W**
 Degrees



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: "Will the entire project (including any discharge) occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?"

Your answer is: **3. Unknown**

Q2: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats

Your answer is: **1. Yes**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

DCNR Species:

Scientific Name: Rotala ramosior

Common Name: Tooth cup

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

PA Fish and Boat Commission

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

Scientific Name: Stygobromus pizzinii

Common Name: Pizzini's Cave Amphipod

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Check-list of Minimum Materials to be submitted:

- ___ SIGNED copy of this Project Environmental Review Receipt
- ___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- ___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- ___ USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- ___ A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- ___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- ___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- ___ The DEP permit(s) required for this project

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA, 17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service
Endangered Species Section
315 South Allen Street, Suite 322, State College, PA, 16801-4851
NO Faxes Please.

PA Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

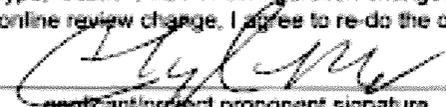
PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks Ecologist
Company/Business Name: URS Corporation
Address: 355 Commerce DC, Suite 300
City, State, Zip: Ft. Washington PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1200
Email: Cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240163

1. PROJECT INFORMATION

Project Name: **Perkiomen Pumphouse**

Date of review: **4/21/2010 4:16:12 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**

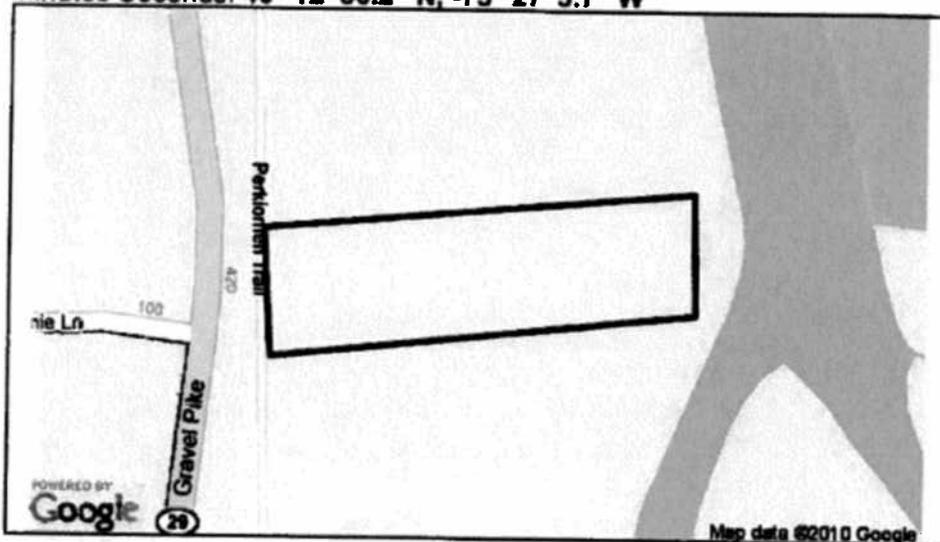
Project Area: **3.5 acres**

County: **Montgomery Township/Municipality: Perkiomen**

Quadrangle Name: **COLLEGEVILLE ~ ZIP Code: 19426**

Decimal Degrees: **40.215611 N, -75.451022 W**

Degrees Minutes Seconds: **40° 12' 56.2" N, -75° 27' 3.7" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240163

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240163

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

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PA Game Commission

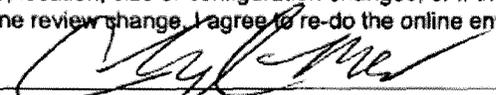
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl-marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

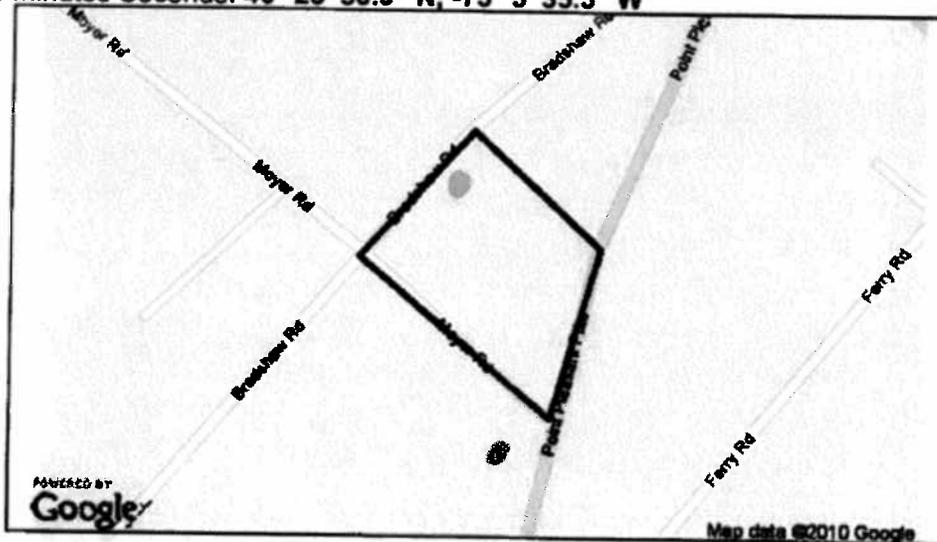
 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

1. PROJECT INFORMATION

Project Name: **Bradshaw_pump**
 Date of review: **4/6/2010 3:53:37 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**
 Project Area: **36.5 acres**
 County: **Bucks Township/Municipality: Plumstead**
 Quadrangle Name: **LUMBERVILLE ~ ZIP Code: 18947, 18901**
 Decimal Degrees: **40.397483 N, -75.093140 W**
 Degrees Minutes Seconds: **40° 23' 50.9" N, -75° 5' 35.3" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur .
Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats
Your answer is: **3. Unknown**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year (from the date of the review)**, and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A **basic** site plan (particularly showing the relationship of the project to the physical features **such as** wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- The DEP permit(s) required for this project

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
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Name: Cheryl Marks, Ecologist
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Address: 335 Commerce Dr Suite 300
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 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100407237630

1. PROJECT INFORMATION

Project Name: **Bedminster_WPF**

Date of review: **4/7/2010 10:02:31 AM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**

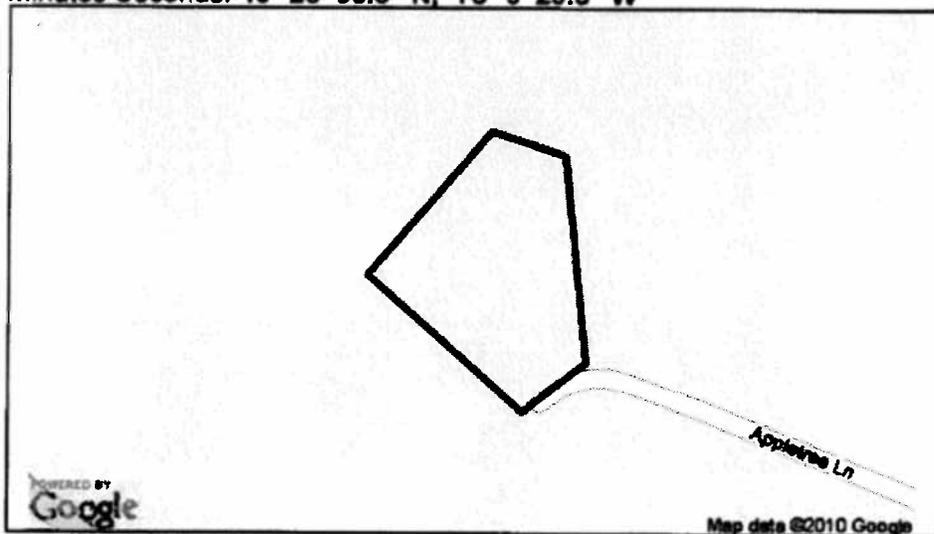
Project Area: **2.4 acres**

County: **Bucks Township/Municipality: Bedminster**

Quadrangle Name: **BEDMINSTER** ~ ZIP Code: **18947**

Decimal Degrees: **40.399023 N, -75.158205 W**

Degrees Minutes Seconds: **40° 23' 56.5" N, -75° 9' 29.5" W**



2. SEARCH RESULTS

<u>Agency</u>	<u>Results</u>	<u>Response</u>
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

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PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

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PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

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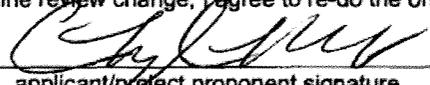
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax: (717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 387-2598 Fax: (215) 387-1000
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 4/21/10
applicant/project proponent signature date

ATTACHMENT 2

**Threatened and Endangered Mammal and Bird Species that could occur
in Montgomery, Chester, and Bucks Counties**

Attachment 2

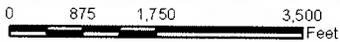
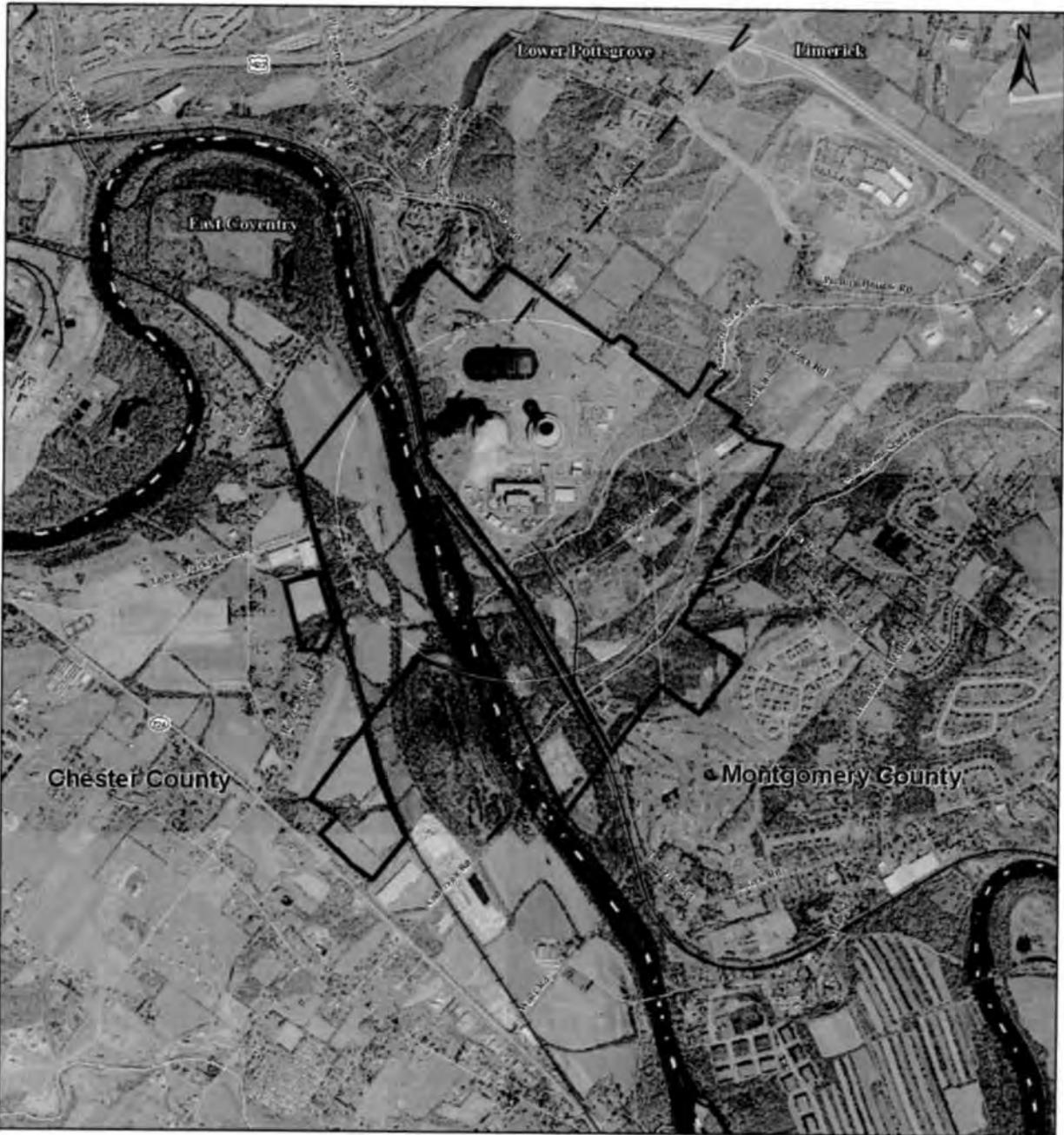
Threatened and Endangered Mammal and Bird Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
Mammals				
<i>Cryptotis parva</i>	Least Shrew	--	Endangered	Chester
<i>Myotis leibii</i>	Eastern Small-footed Myotis	--	Threatened	Bucks
<i>Myotis sodalis</i>	Indiana Bat	Endangered	Endangered	Montgomery, Chester, Bucks
Birds				
<i>Asio flammeus</i>	Short-eared Owl	--	Endangered	Chester
<i>Bartramia longicauda</i>	Upland Sandpiper	--	Threatened	Montgomery, Chester, Bucks
<i>Botaurus lentiginosus</i>	American Bittern	--	Endangered	Chester
<i>Cistothorus platensis</i>	Sedge Wren	--	Endangered	Bucks, Chester
<i>Falco peregrinus</i>	Peregrine Falcon	--	Endangered	Bucks
<i>Haliaeetus leucocephalus</i>	Bald Eagle	--	Threatened	Montgomery, Chester, Bucks
<i>Ixobrychus exilis</i>	Least Bittern	--	Endangered	Chester
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	--	Endangered	Chester
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	--	Endangered	Montgomery
<i>Pandion haliaetus</i>	Osprey	--	Threatened	Chester, Bucks
<i>Rallus elegans</i>	King Rail	--	Endangered	Chester
<i>Spiza americana</i>	Dickcissel	--	Endangered	Chester

Note: -- in the Federal Status column signifies that the species is not a federally-listed species.

ATTACHMENT 3

Figures Depicting LGS Project Features

- Figure 1 LGS Plant Site Property Boundaries
- Figure 2 Perkiomen Pumphouse
- Figure 3 LGS Makeup Water Supply System
- Figure 4 Bradshaw Reservoir and Bradshaw Pumphouse Properties
- Figure 5 Bedminster Water Processing Facility Property
- Figure 6 Limerick to Cromby 230 kV Transmission Line Route
- Figure 7 Cromby to North Wales 230 kV Transmission Line
- Figure 8 Cromby to Plymouth Meeting 230 kV Transmission Line Route
- Figure 9 Limerick to Whitpain 500 kV Transmission Line Route

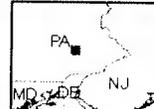


Exelon.

Reference:
 DVA/PC 2005 Aerial Imagery
 ESRI 2009 Streets and Roads

NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US

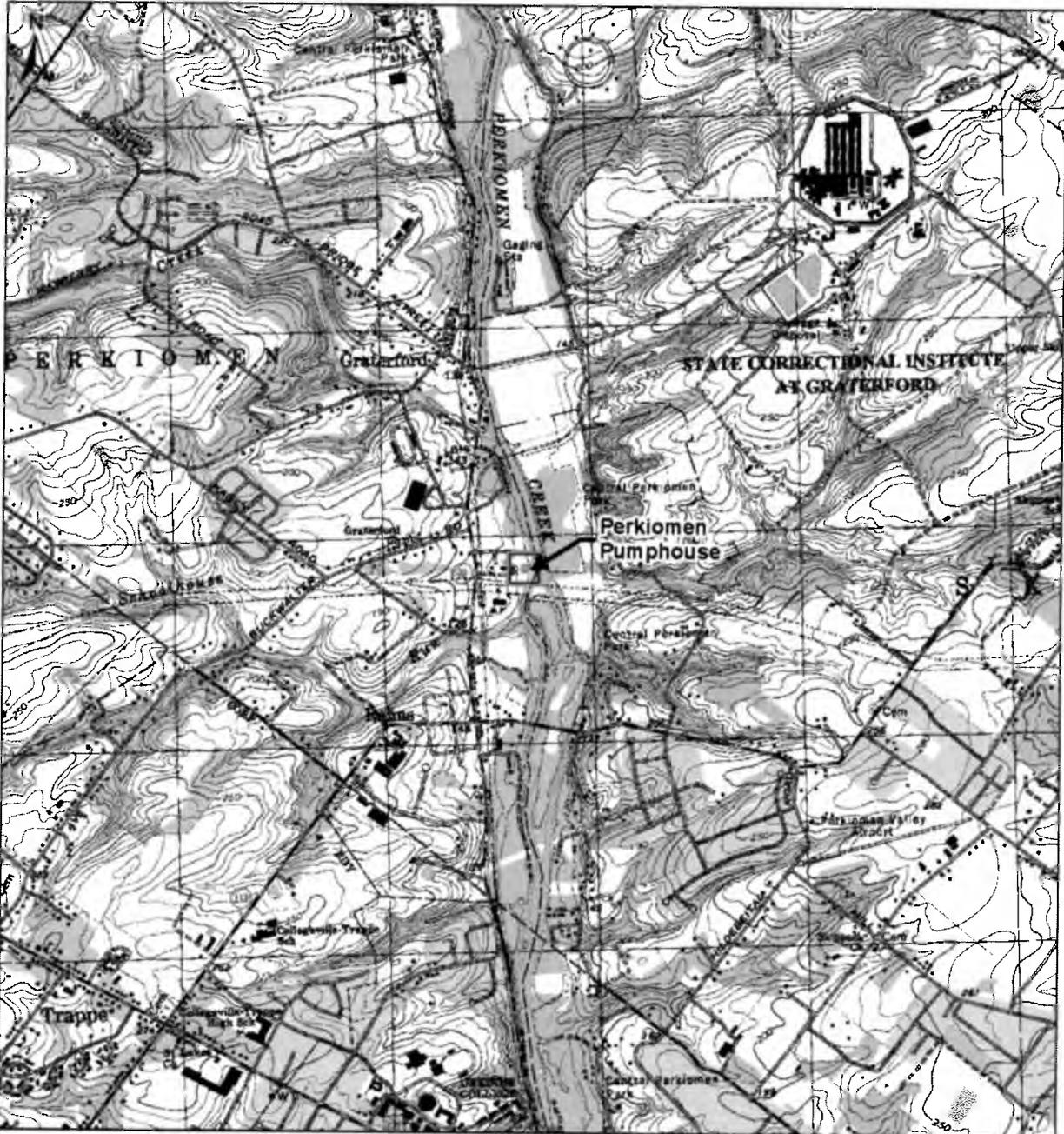
Total Exelon Generation-owned property:
 645 acres.



Legend

- Exelon Generation Property Boundary
- County Boundary
- Municipal Boundary
- 2500 Ft Radius Exclusion Area
- Conrail Line

Figure 1 LGS Plant Site Property Boundaries
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA



0 1,000 2,000 4,000
Feet

Exelon.

Legend

 Pumphouse Location

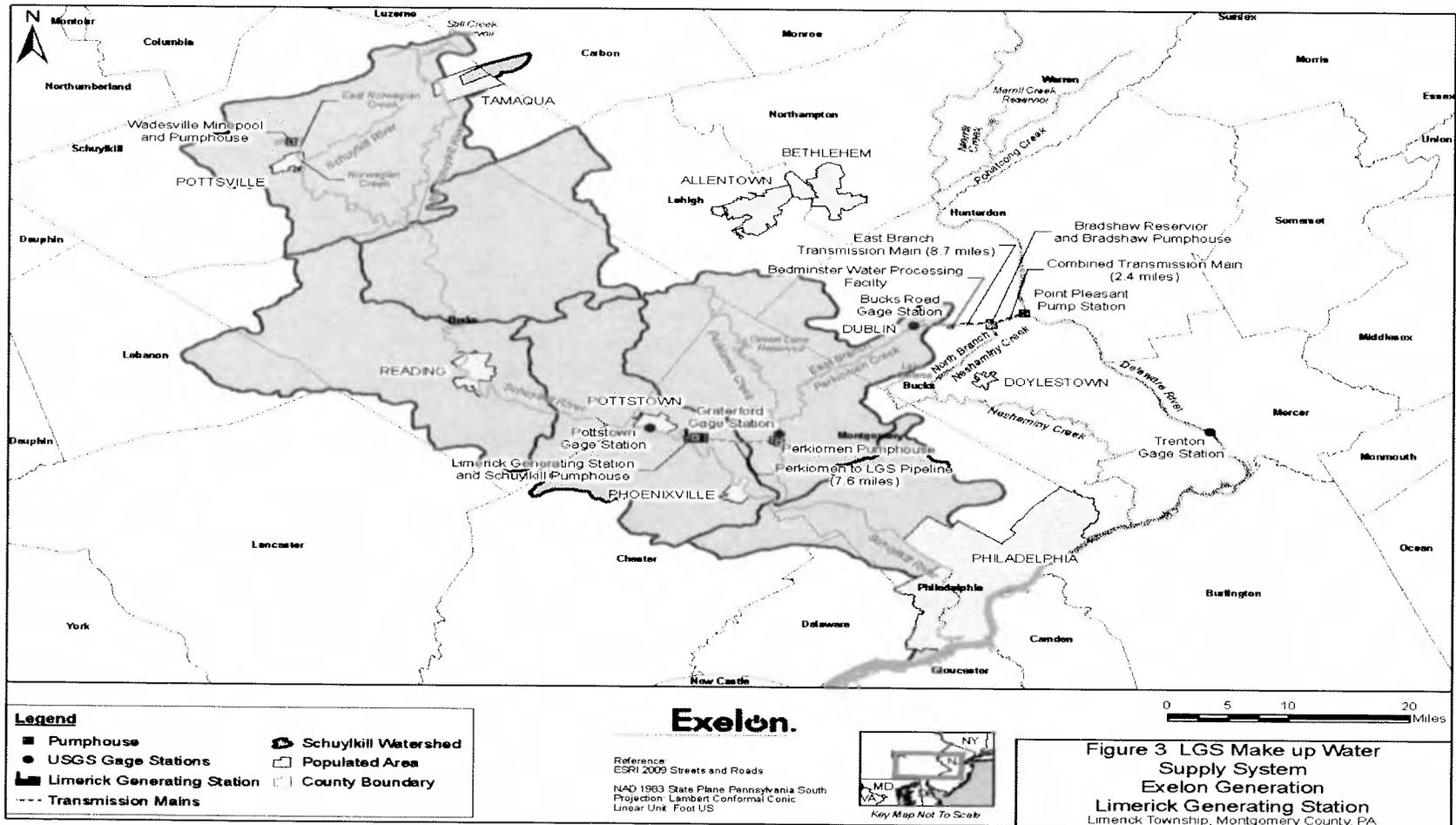
Reference:
USGS Topographic Quadrangle
Collegeville, 1998

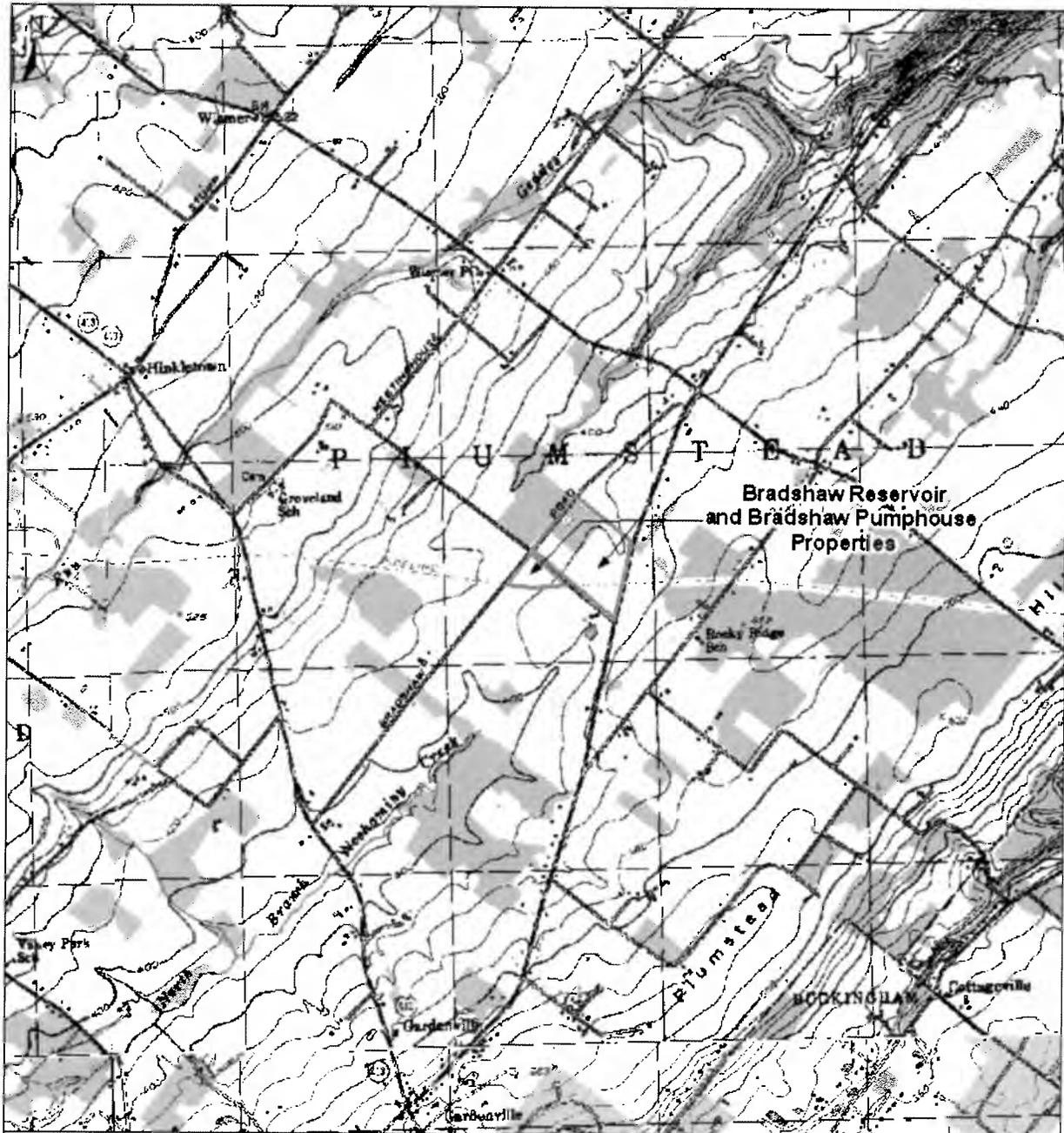
NAD 1983 State Plane Pennsylvania South
Projection: Lambert Conformal Conic
Linear Unit: Foot US



**Figure 2 Perkiomen Pumphouse
Exelon Generation
Limerick Generating Station**

Limerick Township, Montgomery County, PA





0 1,000 2,000 4,000
Feet

Legend

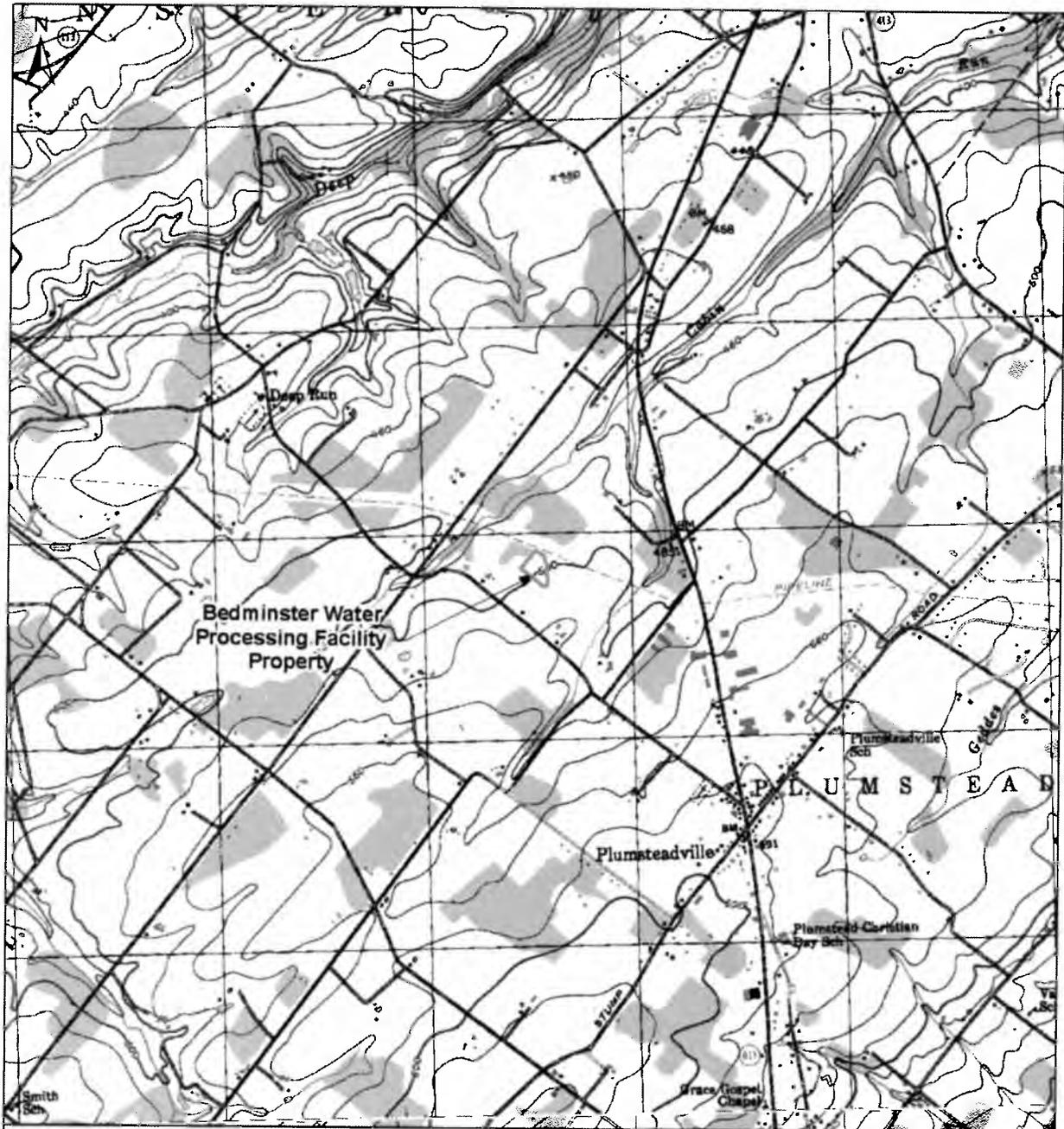
Property Boundary

Exelon.

Perth Amherst
 UCGS Topographic Grid
 Limerick, 1998
 Edition 1999

NAD 1983 State Plane Pennsylvania North
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US

Figure 4 Bradshaw Reservoir and
 Bradshaw Pumphouse Properties
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA



0 1,000 2,000 4,000
Feet

Exelon.

Legend

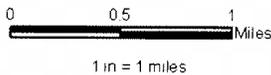
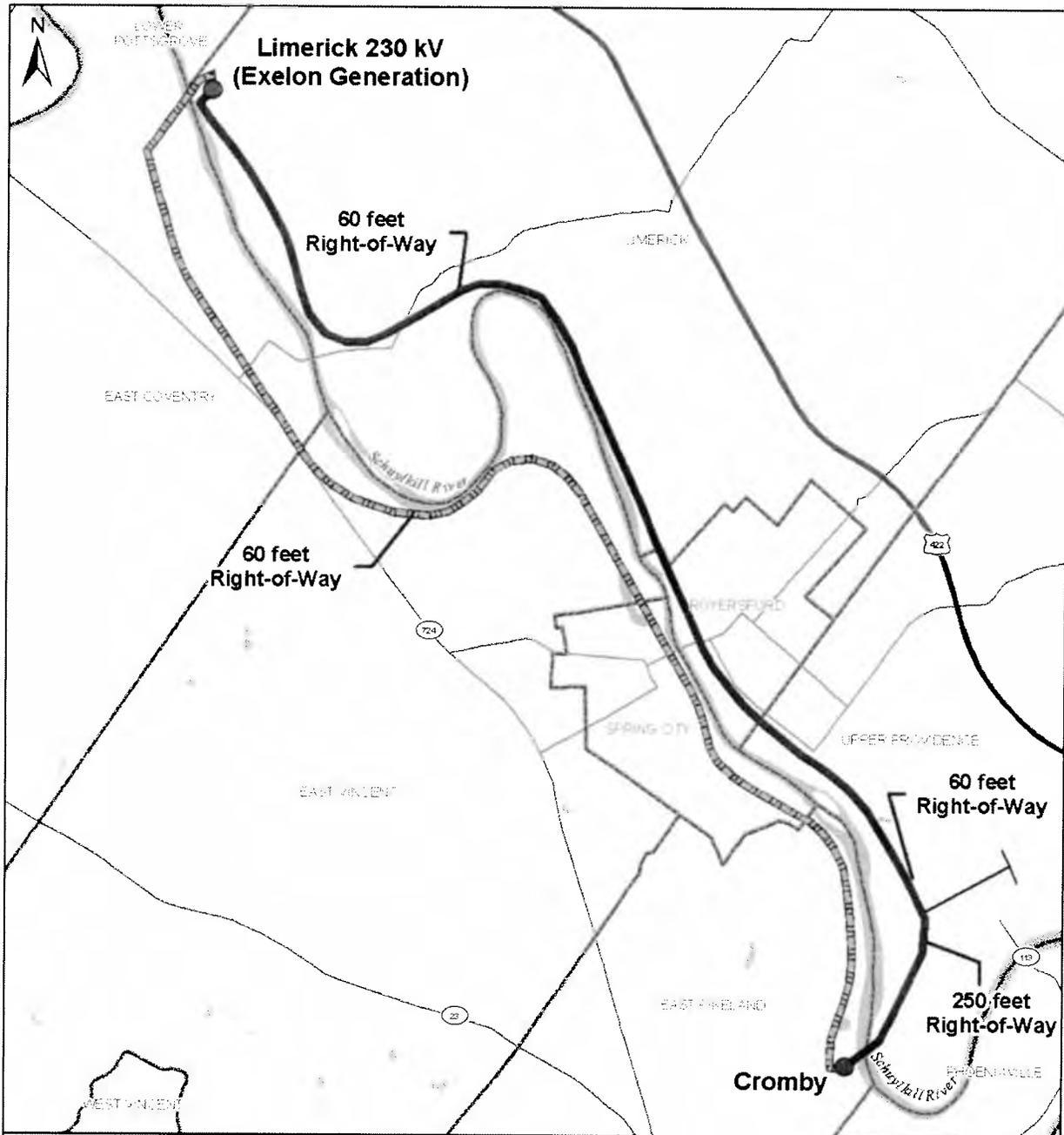
□ Property Boundary

Reference:
USGS Topographic Quadrangle
Lumberville, 1996
Bedminster, 1999

NAD 1983 State Plane Pennsylvania South
Projection: Lambert Conformal Conic
Linear Unit: Foot US

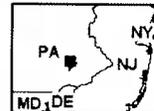


**Figure 5 Bedminster
Water Processing Facility Property
Exelon Generation
Limerick Generating Station
Limerick Township, Montgomery County, PA**



Exelon.

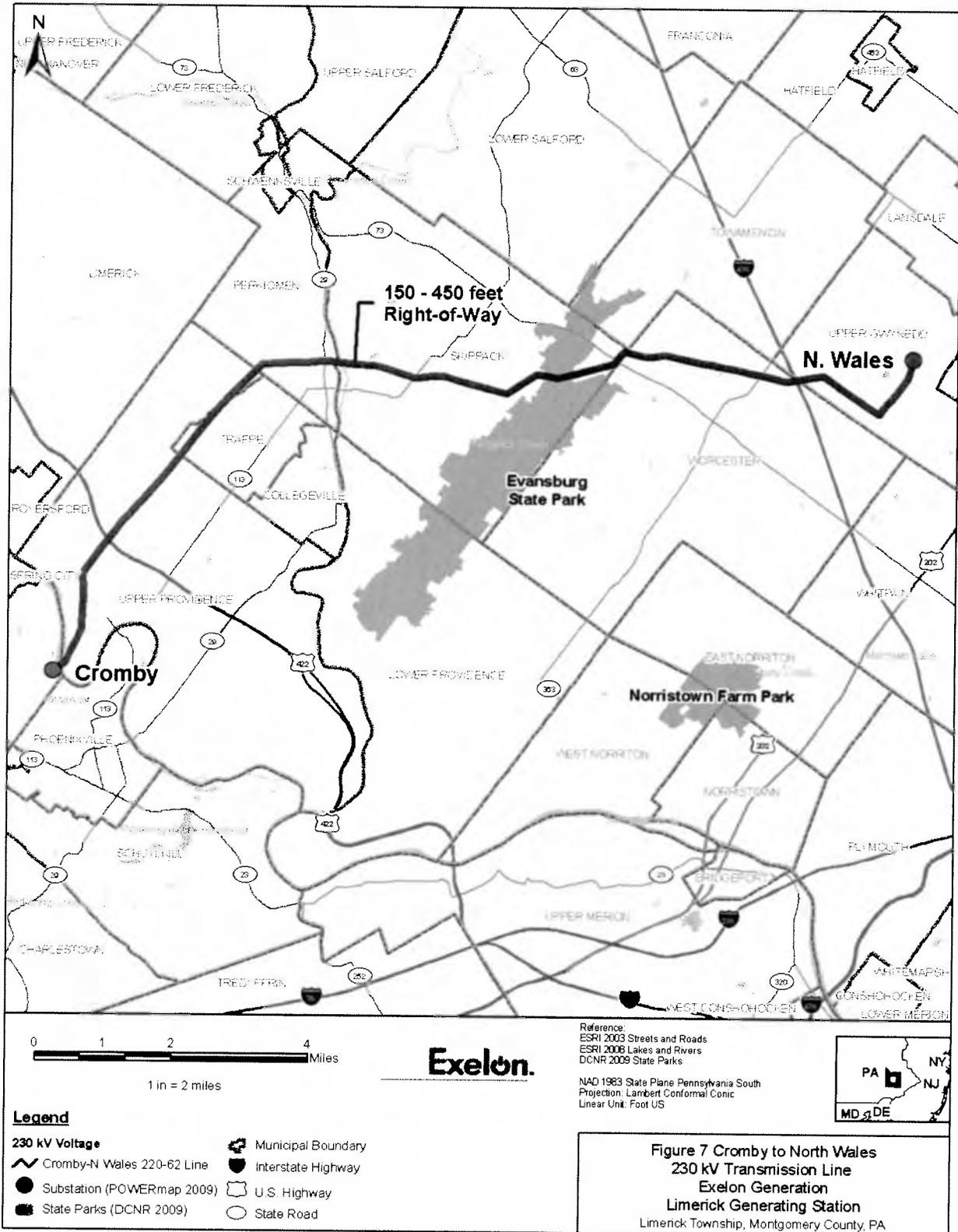
Reference:
 ESRI 2003 Streets and Roads
 ESRI 2006 Lakes and Rivers
 NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US



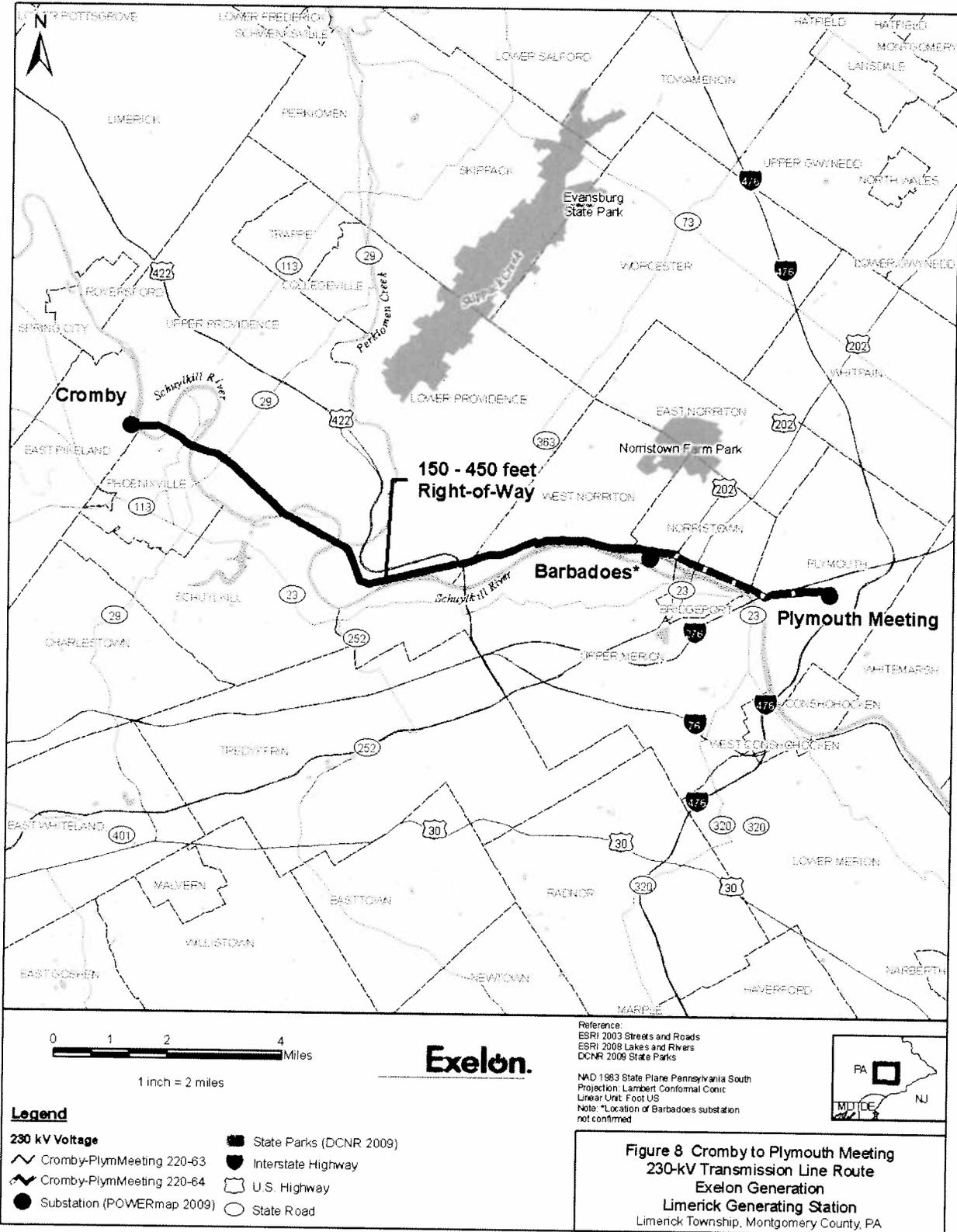
Legend

- | | |
|-----------------------------|--------------------|
| 230 kV Voltage | Municipal Boundary |
| Limerick-Cromby 220-60 Line | Interstate Highway |
| Limerick-Cromby 220-61 Line | U.S. Highway |
| Substation (POWERmap 2009) | State Road |

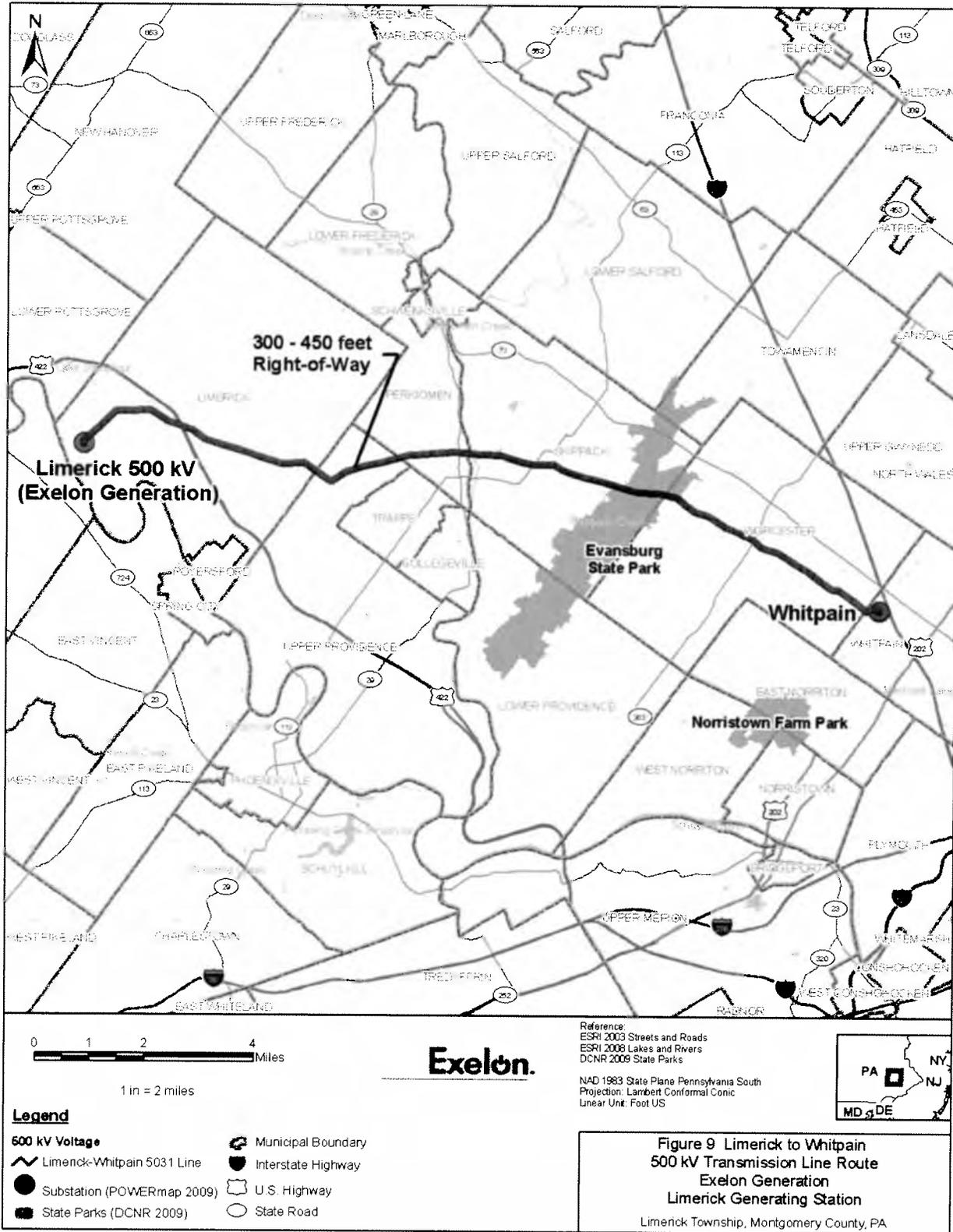
**Figure 6 Limerick to Cromby
 230 kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



**Figure 7 Cromby to North Wales
 230 kV Transmission Line
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



**Figure 8 Cromby to Plymouth Meeting
 230-kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



March 1, 2011

Ms. Olivia Braun
Wildlife Impact Review Coordinator
Pennsylvania Game Commission
2001 Elmerton Ave.
Harrisburg, PA 17110

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
"Large Project" Planning and Environmental Review Form
Request for Information on Listed Threatened and Endangered Species

Dear Ms. Braun:

In a letter dated January 20, 2011 from Michael P. Gallagher to the attention of Jim Leigey of the Pennsylvania Game Commission (PGC), Exelon Generation Company, LLC (Exelon Generation) requested information about listed threatened and endangered species that might be affected by the Limerick Generating Station, Units 1 and 2 (LGS) License Renewal Project, which has three relevant features: (1) the plant site; (2) the makeup water supply system; and (3) the transmission system. We understand that you have replaced Mr. Leigey as the Wildlife Impact Review Coordinator at the PGC. The purpose of this letter is to provide additional information about the transmission system feature of the LGS License Renewal Project, as you requested during a telephone call with me on February 8, 2011.

The transmission system feature of the LGS License Renewal Project consists of corridors for four 230-kilovolt (kV) and one 500-kV electrical transmission lines that were originally constructed to connect the electrical substations located on the LGS plant site to the regional electricity grid via several intermediate electrical substations. Figures showing routing information for the relevant transmission corridors were enclosed with our January 20, 2011 letter. However, we now understand that a completed PNDI "Large Project" Planning and Environmental Review Form should also have been submitted because the transmission corridors are too large/long for a search to be performed using the online PNDI system. Accordingly, a completed "Large Project" form for the transmission system feature is attached to this letter. In order to facilitate your review, I am also forwarding by e-mail GIS (computer shape) files showing the transmission corridor boundaries, in lieu of the USGS 7.5 minute quadrangle maps requested on the form.

Electrical substations and transmission lines within the transmission system feature of the LGS License Renewal Project that are located off the LGS plant site are owned and operated by PECO within rights-of-way (ROWs) situated in Montgomery and Chester Counties either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. PECO implements existing vegetation management and environmental protection programs for these substations and ROWs (details available upon request). The LGS License Renewal Project will not alter these existing programs or involve any new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions at offsite substations and ROWs. Onsite substations and transmission lines traverse only land disturbed during initial plant construction. Hence, onsite operation and maintenance activities during the terms of the renewed LGS licenses are only expected to

Ms. Olivia Braun
March 1, 2011

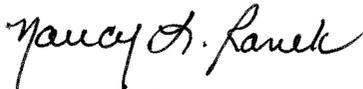
occur in previously disturbed areas. For these reasons, no adverse impacts to threatened and endangered species in any transmission corridors are anticipated from license renewal. Nevertheless, we are requesting your help to identify issues we may have overlooked that need to be addressed in the LGS license renewal environmental report. We are also interested in learning of any information your staff believes could help expedite the NRC's review of the LGS license renewal application.

Exelon Generation understands that, because the PNDI search documentation for the plant site and makeup water system features of the LGS License Renewal Project (submitted to PGC with the January 20, 2011 letter) indicates that no further PGC review would be required for those features, PGC will not respond to our January 20, 2011 letter. Notwithstanding, we will incorporate into the LGS license renewal environmental report copies of our January 20, 2011 letter, as well as copies of this letter and your response regarding the transmission system feature of the project.

In closing, we would appreciate receiving a response from you detailing any issues and information concerning effects of the transmission system feature of the LGS License Renewal Project on threatened and endangered species. We would also welcome your confirmation of our conclusion that LGS license renewal would not adversely affect threatened and endangered mammal and bird species. To support our schedule for submitting the LGS License Renewal Application to the NRC in June 2011, your response will be most helpful if we receive it by March 25, 2011.

Please call if there are questions or you require additional information.

Sincerely,
Exelon Generation Company, LLC



Nancy L. Ranek
Senior Environmental Lead, License Renewal
Phone: 610-765-5369
Fax: 610-765-5658
Email: nancy.ranek@exeloncorp.com

ELECTRONIC ATTACHMENTS:

Pennsylvania Natural Diversity Inventory Project Planning & Environmental Review
Form for Limerick Generating Station, Units 1 & 2 (LGS) License Renewal –
Transmission System Feature

GIS Shape Files:

Limerick_Transmission.dbf
Limerick_Transmission.prj
Limerick_Transmission.sbn
Limerick_Transmission.sbx
Limerick_Transmission.shp
Limerick_Transmission.shp
Limerick_Transmission.shx



Pennsylvania Natural Diversity Inventory

Project Planning & Environmental Review Form

This form provides site information necessary to perform an Environmental Review for special concern species and resources listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, the Pennsylvania Fish and Boat code or the Pennsylvania Game and Wildlife Code.

Applicant Information

Name: Exelon Generation Company, LLC
Address: 200 Exelon Way, Kennett Square, PA 19348
Phone Number: N/A Fax Number: N/A

Contact Person Information - if different from applicant

Name: Nancy L. Ranek, License Renewal Environmental Lead
Address: 200 Exelon Way, Kennett Square, PA 19348
Phone Number: 610-765-5369 Fax Number: 610-765-5658

Project Information

Project Name: Limerick Generating Station, Units 1 and 2 (LGS)
Project Location: 3146 Sanatoga Road, Pottstown, Pa 19464
Project Center Point - Latitude: 40N-13'-34" Longitude: 75W-35'-15"
Municipality: Limerick Township County: Montgomery
 Attach a copy of a U.S.G.S. 7 1/2 Minute Quadrangle Map with Project Boundaries clearly marked. U.S.G.S. Quad Name: GIS Files Available Via E-Mail
Are GIS files of the project available and would you share them if requested? Yes No

Project Description

Proposed Project Activity (including ALL earth disturbance areas and current conditions)

Exelon Generation is requesting from the U.S. Nuclear Regulatory Commission an extension to the Limerick Generating Station, Units 1 and 2 (LGS) operating licenses for an additional 20 years. The LGS License Renewal Project has three relevant features: (1) the plant site; (2) the makeup water supply system; and (3) the transmission system. PNDI searches were completed and documentation provided to PGC indicating that no further review is required (Ref. Letter from Exelon Generation's Michael P. Gallagher to PGC's Jim Leigey, dated January 20, 2011) for the plant site and the makeup water supply system. The transmission system feature of the LGS License Renewal Project consists of corridors for four 230-kiloVolt (kV) and one 500-kV electrical transmission lines that were originally constructed to connect the electrical substations located on the LGS plant site to the regional electricity grid via several intermediate electrical substations. These corridors, which traverse Montgomery and Chester Counties, span linear distances too large for entry into the online PNDI search database. Electrical substations and transmission lines within the transmission system feature of the LGS License Renewal Project that are located off the LGS plant site are owned and operated by PECO within rights-of-way (ROWS) either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. PECO implements existing vegetation management and other environmental protection programs for these substations and ROWs (details available upon request). The LGS License Renewal Project will not alter these existing programs or involve any new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions at offsite substations and ROWs. Onsite substations and transmission lines traverse only land disturbed during initial plant construction. Hence, onsite operation and maintenance activities during the terms of the renewed LGS licenses are only expected to occur in previously disturbed areas. For these reasons, no adverse impacts to threatened and endangered species in any transmission corridors are anticipated from the LGS License Renewal Project.

Total Acres of Property: 2,030 Acreage to be Impacted: 0

1. Will the entire project occur in or on an existing building, parking lot, driveway, road, maintained road shoulder, street, runway, paved area, railroad bed, or maintained lawn? Yes No
2. Are there any waterways or waterbodies (intermittent or perennial rivers, streams, creeks, tributaries, lakes or ponds) in or near the project area, or on the land parcel? If so, how many feet away is the project?
Yes <100 Feet No
3. Are wetlands located in or within 300 feet of the project area? Yes No If No, is this the result of a wetland delineation? N/A

If you have a "PNDI Project Environmental Review Receipt" with potential impacts, please send a receipt copy, this completed form, and a USGS Quad Map to the agency/agencies noted on the receipt. If you are unable to generate a PNDI Receipt because you do not have Internet access, complete this form, attach a USGS Quad Map, and send them to your local DEP or County Conservation District. For review of a "Large Project," please send form and map to all the agencies listed below. See page 2 for more information.

Dept. of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market St., PO Box 8552
Harrisburg, PA 17105
fax: 717-772-0271

PA Fish and Boat Commission

Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823
no faxes please

PA Game Commission

Bureau of Land Management
2001 Elmerton Avenue
Harrisburg, PA 17110-9797
fax: 717-787-6957

US Fish and Wildlife Service

Endangered Species Biologist
315 South Allen St., Suite 322
State College, PA 16801
no faxes please

How to Use the PNDI Project Planning & Environmental Review Form

How do I access the PNDI Environmental Review Tool?

Visit www.naturalheritage.state.pa.us. Click on "PNDI Project Planning and Environmental Review" on the bottom left corner of the homepage to access the tool. Follow this link to access the ER Tool and for step-by-step instructions on using the ER Tool, FAQ's and access to an electronic version of the PNDI Form.

When do I use this form?

1. Before conducting the PNDI online search

The Applicant can complete the PNDI Form and submit it to the person conducting the online PNDI Project Planning and Environmental Review Tool search. This person performing the search could be someone from DEP, the County Conservation Districts, or a consultant. Alternatively, if the Applicant plans to conduct the PNDI online search his or herself—a search form is not needed prior to the PNDI online search.

2. After conducting the PNDI online search

If your PNDI Project Environmental Review Receipt has "Potential Impacts," DEP and the jurisdictional agencies require that you submit additional information to the agencies noted on the Receipt for further review. Please send a copy of the PNDI Receipt, a completed PNDI Form, and a USGS 7.5 minute quadrangle map with project boundaries delineated on the map to the agencies referenced on your PNDI Receipt.

3. If your Project is a "Large Project"— too large/long to search on the online system

Projects are considered "Large Projects" when the ENTIRE project is:

- Linear/Large Projects that exceed map limits: approximately 2-2.84 miles depending on browser size

- Projects that will not fit on 1:24,000 scale map. Project Maximums: 1024 x 768 browsers: 2625 acres; 15,000 feet long x 7600 feet wide; approximately 2.84 miles 800 x 600 browsers: 1050 acres; 11,000 feet long x 4000 feet wide; approximately 2 miles
- Township-wide, Countywide or Statewide Projects. Examples: Act 537 Sewage Plans, Wind Farms, Roadway Improvements exceeding map limits above.

For “Large Project” review, please forward a completed PNDI Form and a USGS 7.5 minute quadrangle with project boundaries and quad name marked on the map to DCNR, PFBC, PGC, and USFWS (contact information on page 1 of form). Due to system limitations and agency requirements, projects should not be submitted piecemeal. The entire project area including roads and infrastructure should be submitted as a single unit.

P N D I F o r m D e f i n i t i o n s

Applicant: Person that owns the property or is proposing the project or activity

Contact Person: Person to receive response if different than applicant (e.g. Consultant)

Project Name: Descriptive title of project (e.g. Twin Pines Subdivision, Miller Bridge Replacement)

Project Location: Description of actual location (e.g. Intersection of Smith and Clay Rd., Latitude & Longitude)

Proposed Activity: Include ALL earth disturbance activities for project (e.g. for a timber sale—include stream crossings, cutting areas and new roadway accesses). Also include Current Conditions (e.g. housing, farmland, current land cover), and how Construction/Maintenance Activity is to be accomplished

Total Acres of Property: Entire site acreage (e.g. timber sale property—including road access (200 acres)

Acreage to be Impacted: Disturbance acreage (e.g. timber sale—if the property is 200 acres, but only 100 acres will be disturbed, for example: cutting on 90 acres, a road impacting 10 acres); include all temporary and permanent activities



Division of Environmental
Planning and Habitat
Protection
717-783-5957

COMMONWEALTH OF PENNSYLVANIA
Pennsylvania Game Commission
2001 ELMERTON AVENUE
HARRISBURG, PA 17110-9797

*"To manage all wild birds, mammals and their habitats
for current and future generations."*

ADMINISTRATIVE BUREAUS:

ADMINISTRATION..... 717-787-5670
HUMAN RESOURCES..... 717-787-7836
FISCAL MANAGEMENT..... 717-787-7314
CONTRACTS AND
PROCUREMENT..... 717-787-6594
LICENSING..... 717-787-2084
OFFICE SERVICES..... 717-787-2116
WILDLIFE MANAGEMENT..... 717-787-5529
INFORMATION & EDUCATION..... 717-787-6286
WILDLIFE PROTECTION..... 717-783-6526
WILDLIFE HABITAT
MANAGEMENT..... 717-787-6818
REAL ESTATE DIVISION..... 717-787-6568
AUTOMATED TECHNOLOGY
SERVICES..... 717-787-4076

www.pgc.state.pa.us

*rec'd
3/8/2011
MPC*

March 2, 2011

Large Project PNDI Review

Ms. Nancy Ranek
200 Excelon Way
Kennett Square, Pennsylvania 19348

Re: Limerick Generating Station, Unit 1 and 2 (LGS) – License Renewal
Montgomery and Chester Counties, Pennsylvania

Dear Ms. Ranek,

Thank you for submitting your Pennsylvania Natural Diversity Inventory (PNDI) Large Project Environmental Review request. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

Potential Impact Anticipated

PNDI records indicate species or resources of concern are located in the vicinity of the project. However, based on the fact that the project will involve no new construction and/or tree clearing, that any/all related maintenance activities will be restricted to the existing right-of-way corridors, the immediate location of the project area, and our detailed resource information, the PGC has determined that no impacts to state listed threatened or endangered bird or mammal species are likely.

However, it appears that portions of the above referenced project are located within close proximity to State Game Lands # 234. Please contact Mr. Bruce Metz, Land Management Supervisor, at (610) 926-3136 to discuss the project activities and coordinate obtaining the necessary approvals if your project will impact State Game Lands. It is recommended that you coordinate with Game Commission Staff early in your project planning process.

This response represents the most up-to-date summary of the PNDI data files and is valid for one (1) year from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning

listed species is found, the project will be cleared for PNDI requirements under this agency for an additional year.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,



Olivia A. Braun
Environmental Planner
Division of Environmental Planning & Habitat Protection
Bureau of Wildlife Habitat Management
Phone: 717-787-4250, Extension 3128
Fax: 717-787-6957
e-Mail: OBraun@state.pa.us

A PNHP Partner



Pennsylvania Natural Heritage Program

OAB/oab

cc: Librandi Mumma, PGC
Killough, PGC
Metz, PGC
File

April 19, 2011

Bruce Metz, Land Management Supervisor
Pennsylvania Game Commission
2001 Elmerton Ave.
Harrisburg, PA 17110-9797

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
LGS Transmission Lines and PA State Game Land #234

Dear Mr. Bruce Metz,

In mid-2011, Exelon Generation Company, LLC (Exelon Generation; a subsidiary of Exelon Corporation) plans to apply to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the operating licenses for Limerick Generating Station, Units 1 and 2 (LGS). The existing license for Unit 1 will expire on October 26, 2024 and the existing license for Unit 2 will expire on June 22, 2029. The renewal term for each unit would be an additional twenty years beyond the existing license expiration date.

The NRC requires that license renewal applications include environmental reports assessing potential environmental impacts from license renewal activities. One such impact would be effects of license renewal activities, which include continued operation of certain transmission lines that connect the power plant to the regional electrical grid, on Pennsylvania State Game Lands. Attachment 1 to this letter illustrates the proximity of the LGS transmission lines to State Game Lands.

The purpose of this letter is to confirm the telephone conversation held on April 7, 2011 between you and Mr. Robert Tarr regarding possible effects on State Game Land #234 of continued operation after license renewal of the LGS transmission lines. During the conversation, you indicated that the renewal of the LGS operating licenses would have no impact to State Game Land #234 because license renewal will involve no new construction and/or tree clearing, and the Limerick-Cromby Transmission Line 220-60 runs adjacent to, but not through State Game Lands #234.

Please call Robert Tarr (610-765-5376) if there are questions or you require additional information.

Sincerely,



Nancy L. Ranek
Senior Environmental Lead
License Renewal

Enclosure: Attachment 1: LGS Transmission Line Route Map and State Gameland #234

ATTACHMENT 1

Figure 1: LGS Transmission Line Route Map and State Game Land #234



Michael P. Gallagher, PE
Vice President
License Renewal Projects

Telephone 610.765.5958
www.exeloncorp.com
michaelp.gallagher@exeloncorp.com

Exelon Nuclear
200 Exelon Way
KSA/2-E
Kennett Square, PA 19348

January 19, 2011

Mr. Chris Urban
PA Fish and Boat Commission
Nongame & Endangered Species Unit
450 Robinson Lane
Bellefonte, PA 16823-7437

Re: Renewal of Operating Licenses for Limerick Generating Station, Units 1 and 2
Request for Information on Listed Threatened and Endangered Species

Dear Mr. Urban:

In mid-2011, Exelon Generation Company, LLC (Exelon Generation; a subsidiary of Exelon Corporation) plans to apply to the U.S. Nuclear Regulatory Commission (NRC) for renewal of the operating licenses for Limerick Generating Station, Units 1 and 2 (LGS). The existing license for Unit 1 will expire on October 26, 2024 and the existing license for Unit 2 will expire on June 22, 2029. The renewal term for each unit would be an additional twenty years beyond the existing license expiration date.

The NRC requires that license renewal applications include environmental reports assessing potential environmental impacts from license renewal activities. One such impact would be effects of license renewal activities on threatened and endangered species that are listed or proposed for listing in accordance with the Endangered Species Act (ESA) (16 USC 1531, et seq.) (10 CFR 51.53(c)(3)(ii)(E)). Accordingly, we are contacting you to obtain input for use in addressing these effects in the LGS license renewal environmental report. Later, NRC may also request an informal consultation with your office under Section 7 of the ESA (16 USC 1536(a)).

Project Features

LGS existing features that are relevant to the effects of license renewal on threatened and endangered species include the following:

1. The LGS plant site, which hosts the two generating units, is located on Exelon Generation-owned properties that are mostly situated in Limerick Township, Montgomery County, but some of which are in the adjacent Lower Pottsgrove Township, Montgomery County or directly across the Schuylkill River in East Coventry Township, Chester County.

2. The LGS makeup water supply system, which conveys water from approved sources to LGS for use in its circulating water system, is composed of the following components:
 - The Perkiomen Pumphouse, located in Graterford Township, Montgomery County, and an associated underground 7.6-mile long Perkiomen Pumphouse-to-LGS pipeline; both are located along an easement held by Exelon Generation within an electrical transmission line right-of-way (ROW) controlled by PECO, a subsidiary of Exelon Corporation;
 - The Bradshaw Reservoir and Bradshaw Pumphouse, which are both situated in Plumstead Township, Bucks County, on Exelon Generation-owned properties totaling 42 acres;
 - The Bedminster Water Processing Facility, which is situated in Bedminster Township, Bucks County, on a 3-acre Exelon Generation-owned property; and
 - An underground water transmission main, which is routed within a natural gas pipeline ROW along an easement held by Exelon Generation that runs from the Bradshaw Pumphouse to the East Branch Perkiomen Creek by way of the Bedminster Facility.

The buried Perkiomen Pumphouse-to-LGS water pipeline and the underground water transmission main are located below ground within ROWs that exist for other purposes, and their operation requires no independent vegetation management or ground disturbing activities along these ROWs. Hence, these underground components of the makeup water supply system are assumed to have no effects on threatened and endangered plant species.

3. The LGS transmission system is composed of the following components:
 - Two electrical transmission lines constructed to connect the LGS main power transformers with two onsite electrical substations (these components are located on the LGS plant site); and
 - Four 230-kiloVolt (kV) and one 500-kV electrical transmission lines, with associated structures and offsite electrical substations, constructed to connect the onsite electrical substations to the regional electricity grid.

All offsite substations and transmission lines are operated by PECO and are located in ROWs situated in Montgomery and Chester Counties either on PECO-owned properties or on properties for which PECO holds permits, grants, easements, or licenses. Onsite transmission lines traverse only land disturbed during initial station construction.

Figures 1 through 9 showing the locations of the existing LGS project features are provided in Attachment 3.

Activities During the License Renewal Terms

LGS license renewal will involve no new construction, refurbishment, ground disturbing activities, changes to operations, or changes to existing land-use conditions. Operation and maintenance activities during the terms of the renewed LGS licenses are only expected to occur in previously disturbed areas or existing ROWs. Hence, no new adverse impacts to threatened and endangered species are anticipated from license renewal.

Identification of Threatened and Endangered Species Resources

Using the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool, a web-based application sponsored by the Pennsylvania Natural Heritage Program (PNHP), Exelon Generation has reviewed the potential for the LGS plant site area and the properties associated with the LGS makeup water supply system to adversely affect known occurrences of species or natural communities of concern. Receipts for PNDI search #s 20100421240174 (LGS plant site), 20100421240163 (Perkiomen Pumphouse area), 20100406237563 (Bradshaw Reservoir and Pumphouse area), and 20100407237630 (Bedminster Water Processing Facility area) are attached (Attachment 1). Two species under the jurisdiction of the PFBC were identified for the LGS plant site: one sensitive species (unidentified) with threatened status and the Pizzini's cave amphipod (*Stygobromus pizzinii*) with "special concern species" status. Also, one sensitive species (unidentified) with threatened status under the jurisdiction of the PFBC was identified for the Bradshaw Reservoir and Pumphouse location. The responses for the other project sites stated that no impact is anticipated to threatened and endangered species and/or special concern species or resources.

Given the sizable acreage and distances associated with the LGS transmission line corridors, no PNDI searches were conducted for this project component. For review by your office in identifying species of concern, we instead offer the figures in Attachment 3 showing the routes and widths of the corridors.

A review of the PNHP web site for state-listed endangered and threatened species indicates that a number of state-listed reptile and amphibian, fish, and invertebrate species could occur in Montgomery, Chester, and Bucks Counties. The enclosed Attachment 2 contains a list of these species. One amphibian species, the bog turtle (*Glyptemys muhlenbergii*), state-listed as endangered with recorded locations in the three counties of interest, also is federally-listed as threatened. Two fish species, the shortnose sturgeon (*Acipenser brevirostrum*) and the Atlantic sturgeon (*Acipenser oxyrinchus*), which are state-listed as endangered with Bucks County as their recorded locations, also are federally-listed as endangered and candidate species, respectively. One invertebrate species, the dwarf wedgemussel (*Alasmidonta heterodon*), state-listed as endangered with recorded locations in the three counties of interest, also is federally-listed as endangered. Exelon Generation is not aware that these or any other state-listed reptile and amphibian, fish, or invertebrate species are present on or near the properties associated with LGS or its associated transmission lines.

Because license renewal involves no new construction, refurbishment, ground disturbing activities, changes to operation, or changes to existing land use conditions, Exelon Generation does not expect LGS license renewal to adversely affect threatened and endangered reptile and amphibian, fish, and invertebrate species located near the LGS plant site, makeup water supply system, or transmission system ROWs. Nevertheless, we are requesting your help to identify the two unidentified sensitive species under PFBC jurisdiction that were identified by our PNDI searches, as well as other issues we may have overlooked that need to be addressed in the LGS license renewal environmental report. We are also interested in learning of any information your staff believes could help expedite the NRC's review of the LGS license renewal application. Hence, in closing, we would appreciate receiving a response from you detailing the requested information for the LGS plant site, makeup water supply system and transmission system. We would also welcome your confirmation of our conclusion that LGS license renewal would not adversely affect threatened and endangered reptile and amphibian, fish, and invertebrate species.

Because we plan to incorporate a copy of your response, as well as this letter, into the LGS license renewal environmental report that will be submitted to the NRC as part of the LGS license renewal application, your response will be most helpful if we receive it by March 10, 2011.

Please call Nancy Ranek (610-765-5369), our License Renewal Environmental Lead, if there are questions or you require additional information.

Sincerely,



Michael P. Gallagher

Enclosures:

- Attachment 1: Receipts for PNDI Search #s 20100421240174, 20100421240163, 20100406237563, and 20100407237630
- Attachment 2: Threatened and Endangered Reptile and Amphibian, Fish, and Invertebrate Species that could occur in Montgomery, Chester, and Bucks Counties
- Attachment 3: Figures Depicting LGS Project Features (Figures 1 through 9)

ATTACHMENT 1

Receipts for PNDI Searchs

Receipt for PNDI Search # 20100421240174, Limerick GS 2

Receipt for PNDI Search # 20100421240163, Perkiomen Pumphouse..... 7

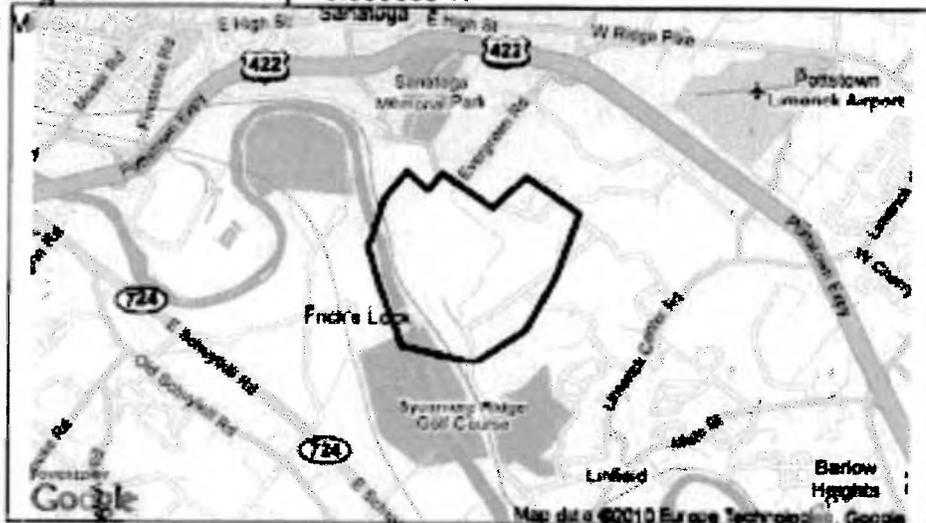
Receipt for PNDI Search # 20100406237563, Bradshaw pump 11

Receipt for PNDI Search # 20100407237630, Bedminster WPF..... 16

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

1. PROJECT INFORMATION

Project Name: **Limerick G5**
 Date of review: **4/21/2010 4:33:48 PM**
 Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**
 Project Area: **483.8 acres**
 County: **Chester, Montgomery Township/Municipality: East Coventry, Limerick, Lower Pottsgrove**
 Quadrangle Name: **PHOENIXVILLE ~ ZIP Code: 19465, 19464**
 Decimal Degrees: **40.224106 N, -75.580658 W**
 Degrees



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: "Will the entire project (including any discharge) occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?"

Your answer is: **3. Unknown**

Q2: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats

Your answer is: **1. Yes**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

DCNR Species:

Scientific Name: Rotala ramosior

Common Name: Tooth cup

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

PA Fish and Boat Commission

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

Scientific Name: Stygobromus pizzinii

Common Name: Pizzini's Cave Amphipod

Current Status: Special Concern Species*

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

PNDI Project Environmental Review Receipt Project Search ID: 20100421240174

Check-list of Minimum Materials to be submitted:

- ___ SIGNED copy of this Project Environmental Review Receipt
- ___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- ___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- ___ USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- ___ A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- ___ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- ___ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- ___ The DEP permit(s) required for this project

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt

Project Search ID: 20100421240174

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA
17105-8552
Fax: (717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

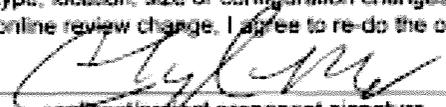
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax: (717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 355 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19024
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: Cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/2/10
applicant/project proponent signature Date

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

1. PROJECT INFORMATION

Project Name: **Perkiomen Pumphouse**

Date of review: **4/21/2010 4:16:12 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant – maintenance, modification, or expansion**

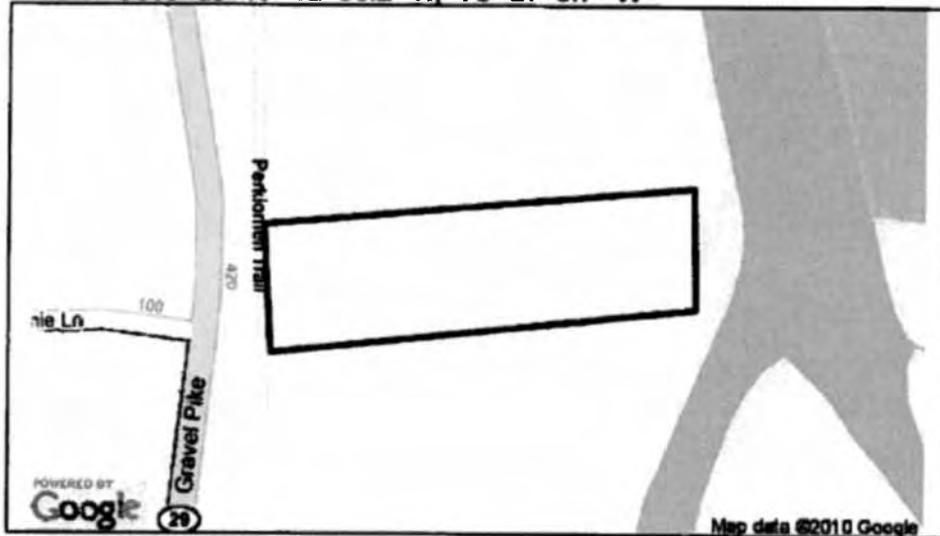
Project Area: **3.5 acres**

County: **Montgomery Township/Municipality: Perkiomen**

Quadrangle Name: **COLLEGEVILLE ~ ZIP Code: 19426**

Decimal Degrees: **40.215611 N, -75.451022 W**

Degrees Minutes Seconds: **40° 12' 56.2" N, -75° 27' 3.7" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100421240163

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
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PA Fish and Boat Commission

Division of Environmental Services
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PA Game Commission

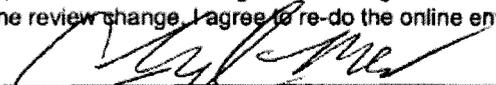
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: cheryl-marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

1. PROJECT INFORMATION

Project Name: **Bradshaw_pump**

Date of review: **4/6/2010 3:53:37 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**

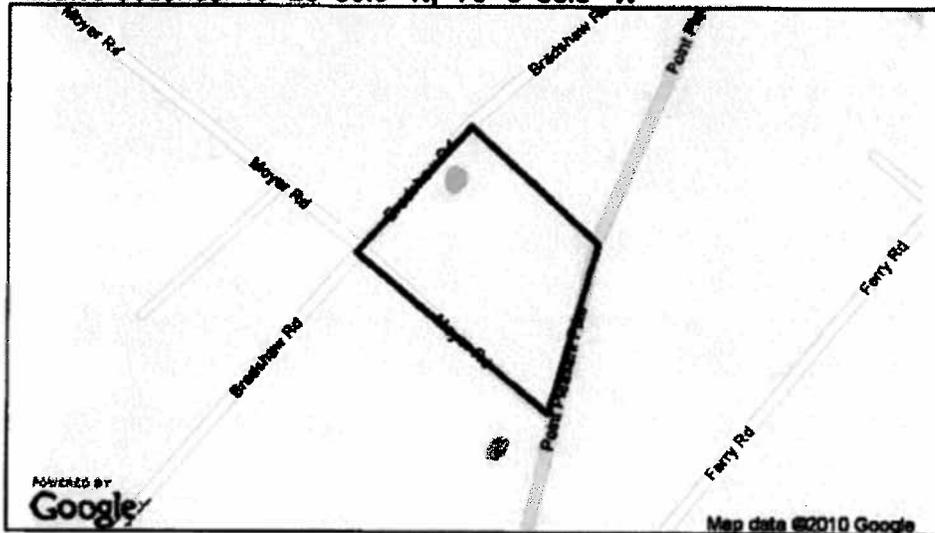
Project Area: **36.5 acres**

County: **Bucks Township/Municipality: Plumstead**

Quadrangle Name: **LUMBERVILLE ~ ZIP Code: 18947, 18901**

Decimal Degrees: **40.397483 N, -75.093140 W**

Degrees Minutes Seconds: **40° 23' 50.9" N, -75° 5' 35.3" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur .

Your answer is: **2. The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.**

Q2: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats

Your answer is: **3. Unknown**

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

PFBC Species:

Scientific Name: Sensitive Species**

Common Name:

Current Status: Threatened

Proposed Status: Special Concern Species*

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

U.S. Fish and Wildlife Service

RESPONSE: No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- The DEP permit(s) required for this project

PNDI Project Environmental Review Receipt

Project Search ID: 20100406237563

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100406237563

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service
Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
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NO Faxes Please.

PA Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 367-2598 Fax: (215) 367-1000
Email: Cheryl-marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

 4/21/10
applicant/project proponent signature date

PNDI Project Environmental Review Receipt

Project Search ID: 20100407237630

1. PROJECT INFORMATION

Project Name: **Bedminster_WPF**

Date of review: **4/7/2010 10:02:31 AM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Nuclear Power Plant -- maintenance, modification, or expansion**

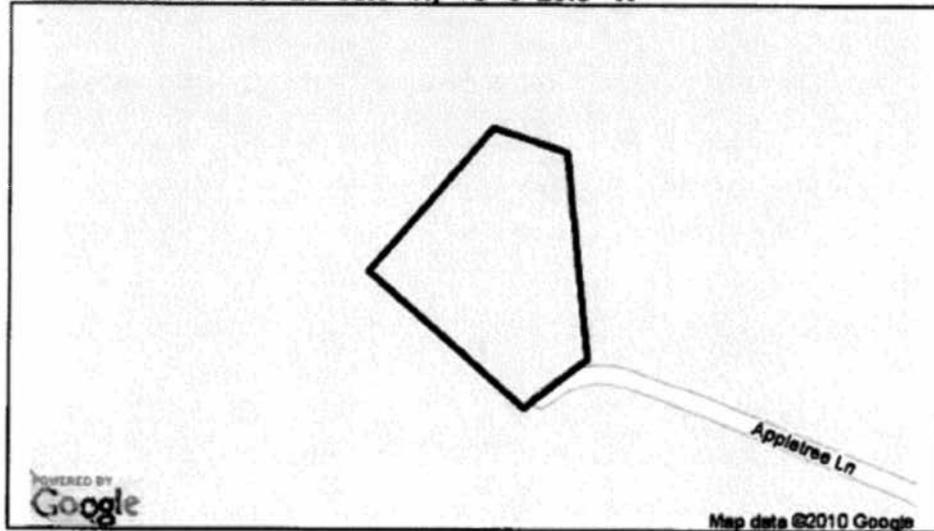
Project Area: **2.4 acres**

County: **Bucks** Township/Municipality: **Bedminster**

Quadrangle Name: **BEDMINSTER** ~ ZIP Code: **18947**

Decimal Degrees: **40.399023 N, -75.158205 W**

Degrees Minutes Seconds: **40° 23' 56.5" N, -75° 9' 29.5" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for one year** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt.

PA Game Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

PNDI Project Environmental Review Receipt Project Search ID: 20100407237630

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a **preliminary** screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

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PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Cheryl Marks, Ecologist
Company/Business Name: URS Corporation
Address: 335 Commerce Dr, Suite 300
City, State, Zip: Ft. Washington, PA 19034
Phone: (215) 387-2598 Fax: (215) 387-1000
Email: cheryl_marks@urscorp.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Cheryl Marks 4/21/10
applicant/project proponent signature date

ATTACHMENT 2

**Threatened and Endangered Reptile and Amphibian, Fish and Invertebrate Species
that could occur in Montgomery, Chester, and Bucks Counties**

Attachment 2

Threatened and Endangered Reptile and Amphibian, Fish and Invertebrate Species that could occur in Montgomery, Chester, and Bucks Counties				
Scientific Name	Common Name	Federal Status	State Status	Counties with Recorded Location
Reptiles and Amphibians				
<i>Glyptemys muhlenbergii</i>	Bog Turtle	Threatened	Endangered	Montgomery, Chester, Bucks
<i>Opheodrys aestivus</i>	Rough Green Snake	--	Endangered	Chester
<i>Pseudacris triseriata kalmi</i>	New Jersey Chorus Frog	--	Endangered	Montgomery, Bucks
<i>Pseudemys rubriventris</i>	Redbelly Turtle	--	Threatened	Montgomery, Chester, Bucks
<i>Rana sphenoccephala</i>	Coastal Plain Leopard Frog	--	Endangered	Chester, Bucks
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	--	Endangered	Bucks
Fish				
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Endangered	Endangered	Bucks
<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Candidate	Endangered	Bucks
<i>Enneacanthus obesus</i>	Banded Sunfish	--	Endangered	Bucks
<i>Lepomis megalotis</i>	Longear Sunfish	--	Endangered	Bucks
<i>Notropis chalybaeus</i>	Ironcolor Shiner	--	Endangered	Montgomery, Bucks
Invertebrates				
<i>Alasmidonta heterodon</i>	Dwarf Wedgemussel	Endangered	Endangered	Montgomery, Chester, Bucks

Note: -- in the Federal Status column signifies that the species is not a federally-listed species.

ATTACHMENT 3

Figures Depicting LGS Project Features

Figure 1 LGS Plant Site Property Boundaries

Figure 2 Perkiomen Pumphouse

Figure 3 LGS Makeup Water Supply System

Figure 4 Bradshaw Reservoir and Bradshaw Pumphouse Properties

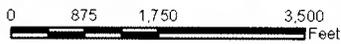
Figure 5 Bedminster Water Processing Facility Property

Figure 6 Limerick to Cromby 230 kV Transmission Line Route

Figure 7 Cromby to North Wales 230 kV Transmission Line

Figure 8 Cromby to Plymouth Meeting 230 kV Transmission Line Route

Figure 9 Limerick to Whitpain 500 kV Transmission Line Route

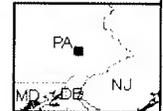


Exelon.

Reference:
 DVRPC 2005 Aerial Imagery
 ESRI 2009 Streets and Roads

NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US

Total Exelon Generation-owned property:
 645 acres.

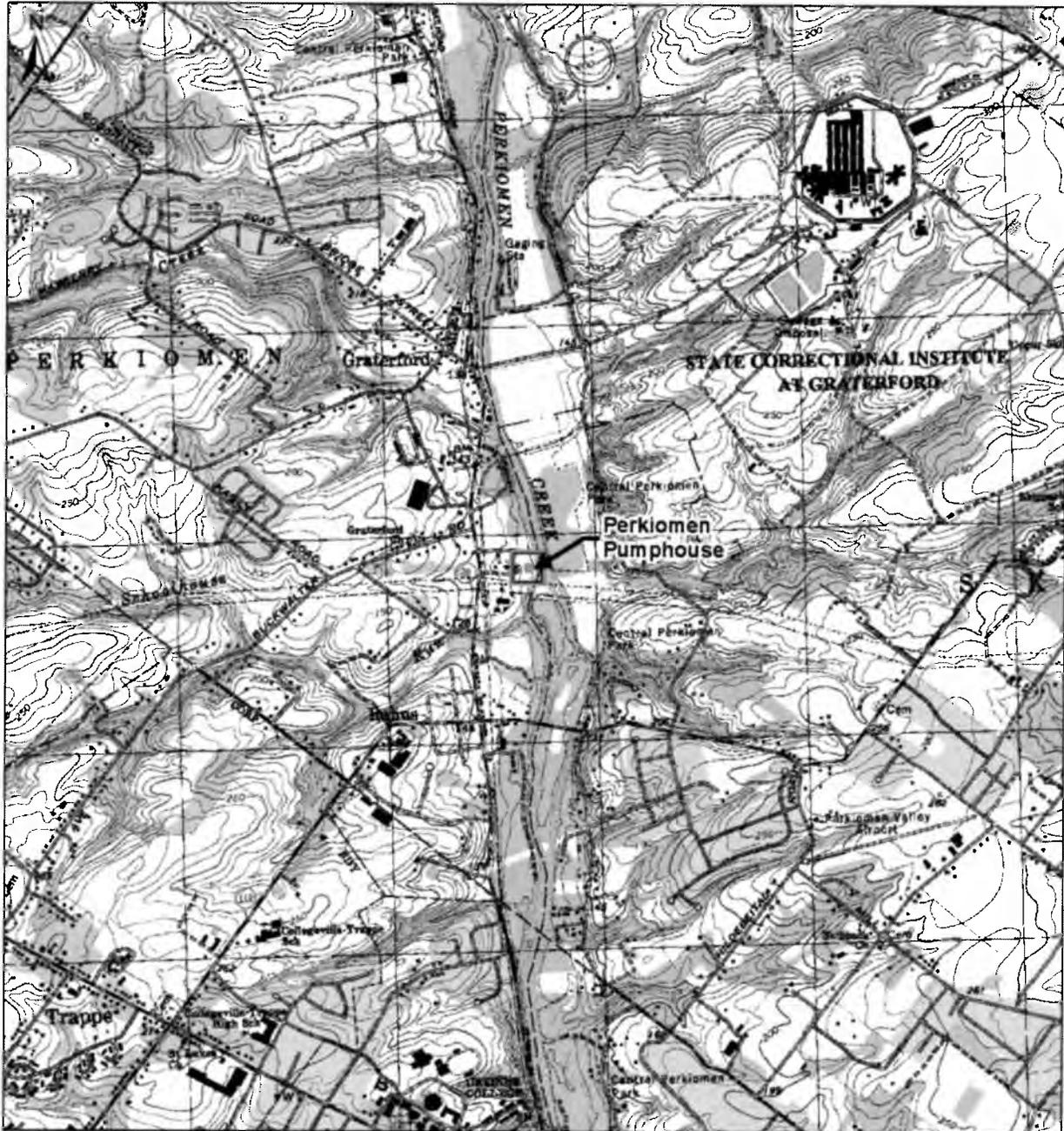


Legend

- Exelon Generation Property Boundary
- 2500 Ft Radius Exclusion Area
- Conrail Line
- County Boundary
- Municipal Boundary

**Figure 1 LGS Plant Site Property Boundaries
 Exelon Generation
 Limerick Generating Station**

Limerick Township, Montgomery County, PA



0 1,000 2,000 4,000 Feet

Exelon.

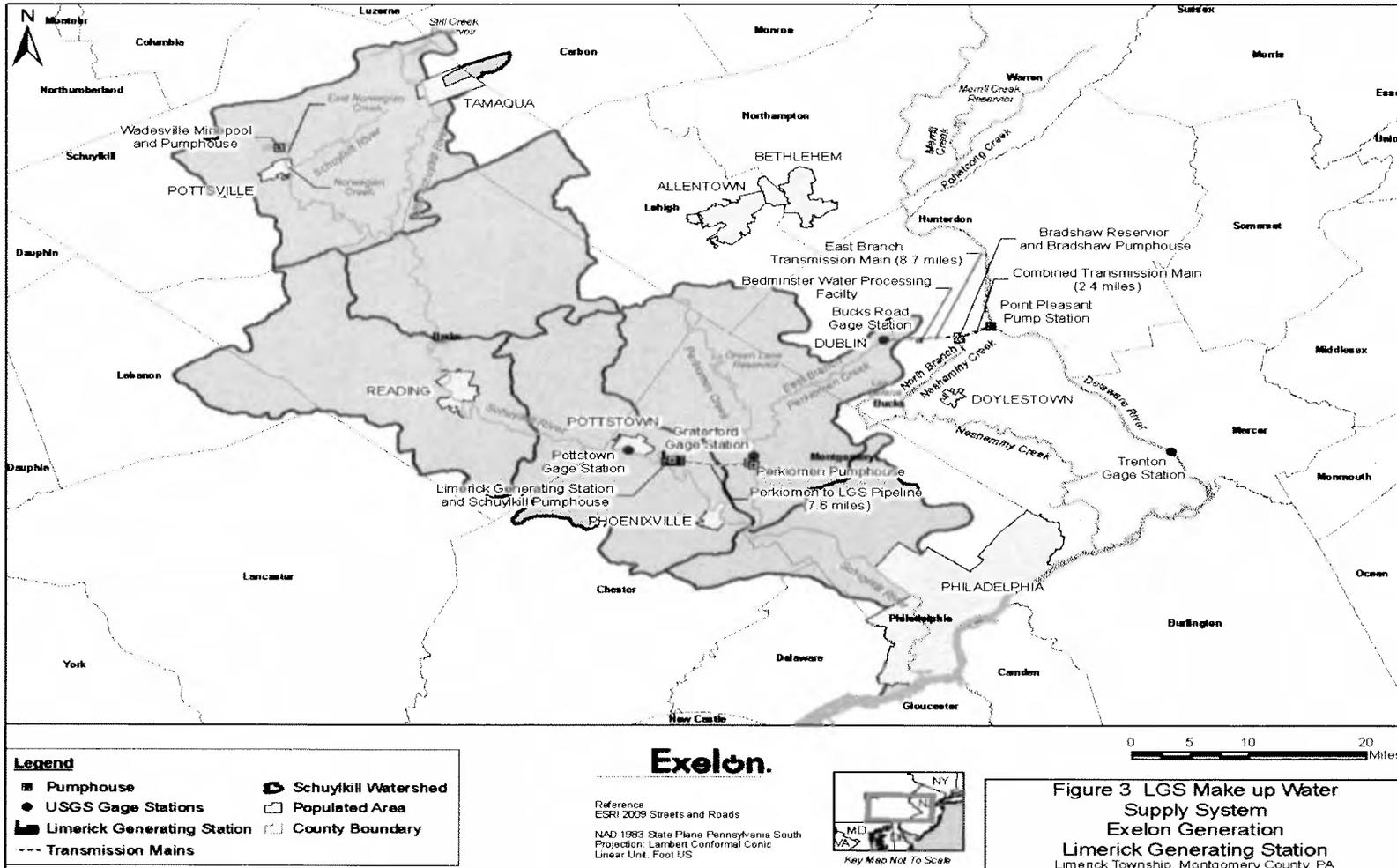
Reference:
USGS Topographic Quadrangle
Collegeville, 1958

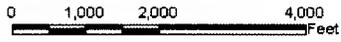
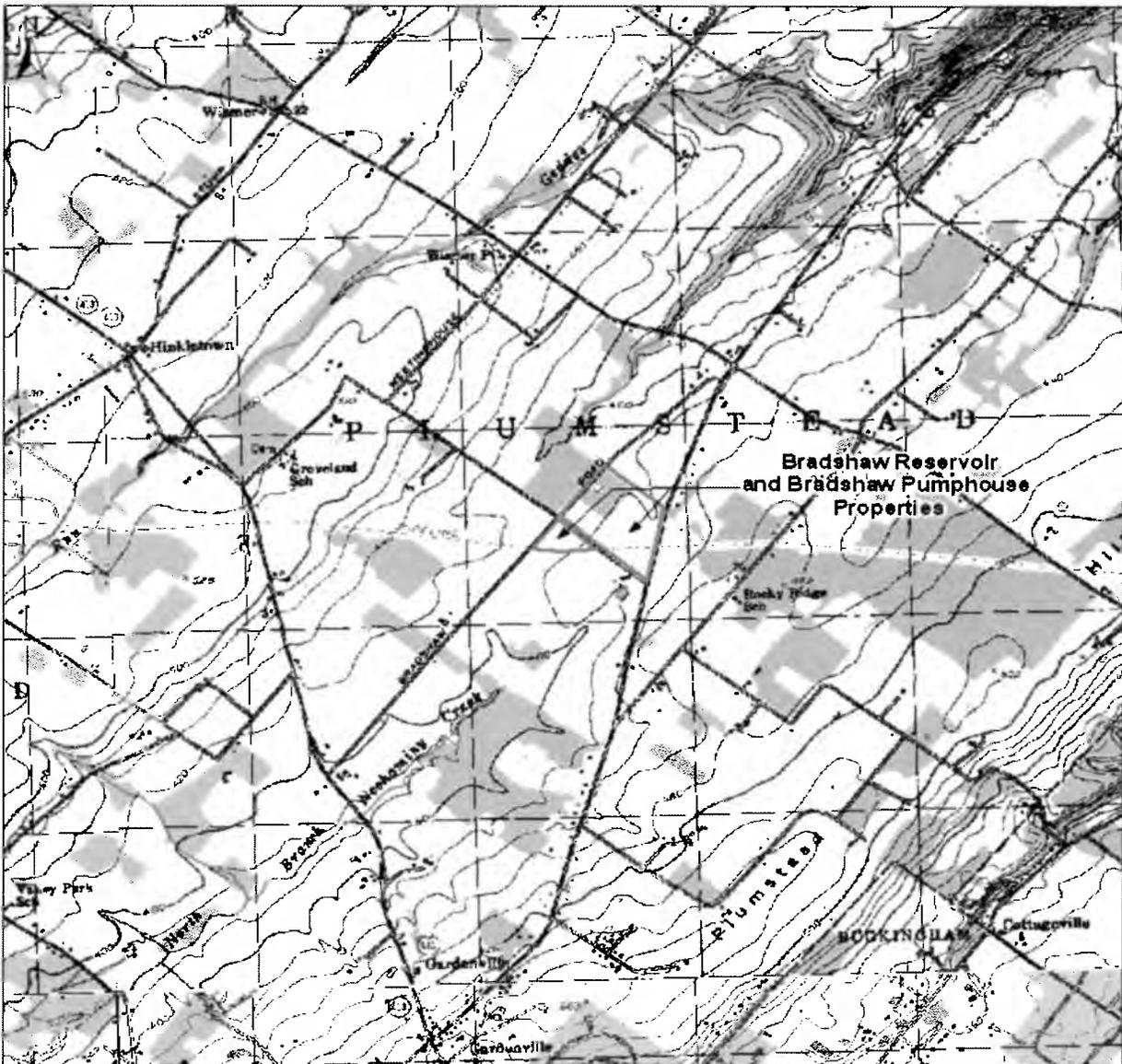
NAD 1983 State Plane Pennsylvania South
Projection: Lambert Conformal Conic
Linear Unit: Foot US

Legend

■ Pumphouse Location

Figure 2 Perkiomen Pumphouse
Exelon Generation
Limerick Generating Station
Limerick Township, Montgomery County, PA

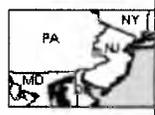




Exelon.

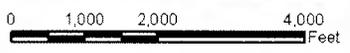
Reference:
USGS Topographic Quadrangle
Limerick, 1998
Edition 501, 1999

NAD 1983 State Plane Pennsylvania State Plane
Projection: East of North Carolina
List of State Plane US



Legend
Property Boundary

Figure 4 Bradshaw Reservoir and
Bradshaw Pumphouse Properties
Exelon Generation
Limerick Generating Station
Limerick Township, Montgomery County, PA



Exelon.

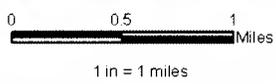
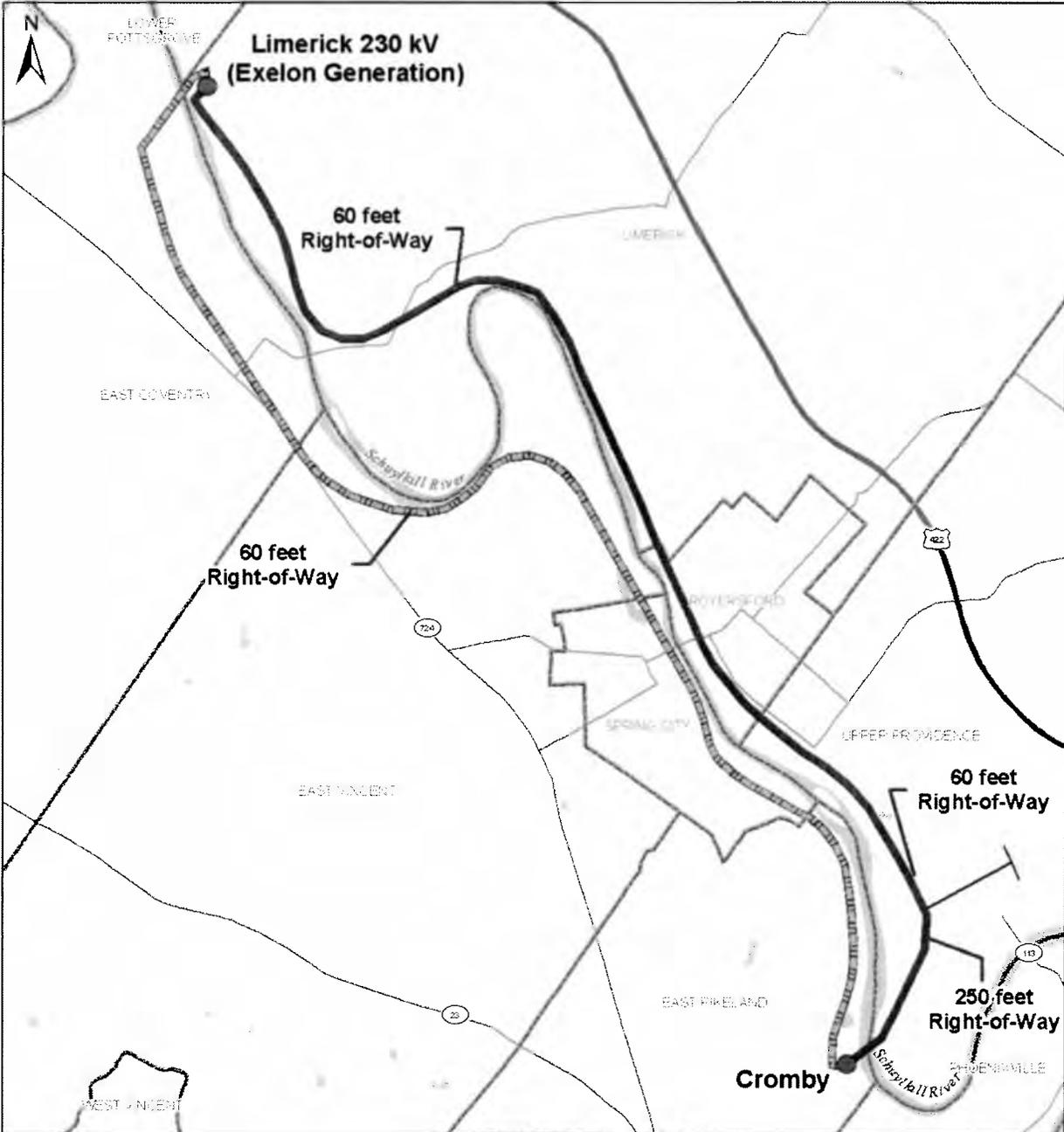
Reference:
 USGS Topographic Quadrangle
 Lumberville, 1998
 Bedminster, 1999

NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US



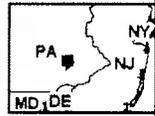
Legend
 [Symbol] Property Boundary

**Figure 5 Bedminster
 Water Processing Facility Property
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**



Exelon.

Reference:
 ESRI 2003 Streets and Roads
 ESRI 2008 Lakes and Rivers
 NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US



- Legend**
- 230 kV Voltage**
 - Limerick-Cromby 220-60 Line
 - Limerick-Cromby 220-61 Line
 - Substation (POWERmap 2009)
 - Municipal Boundary
 - Interstate Highway
 - U.S. Highway
 - State Road

**Figure 6 Limerick to Cromby
 230 kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**

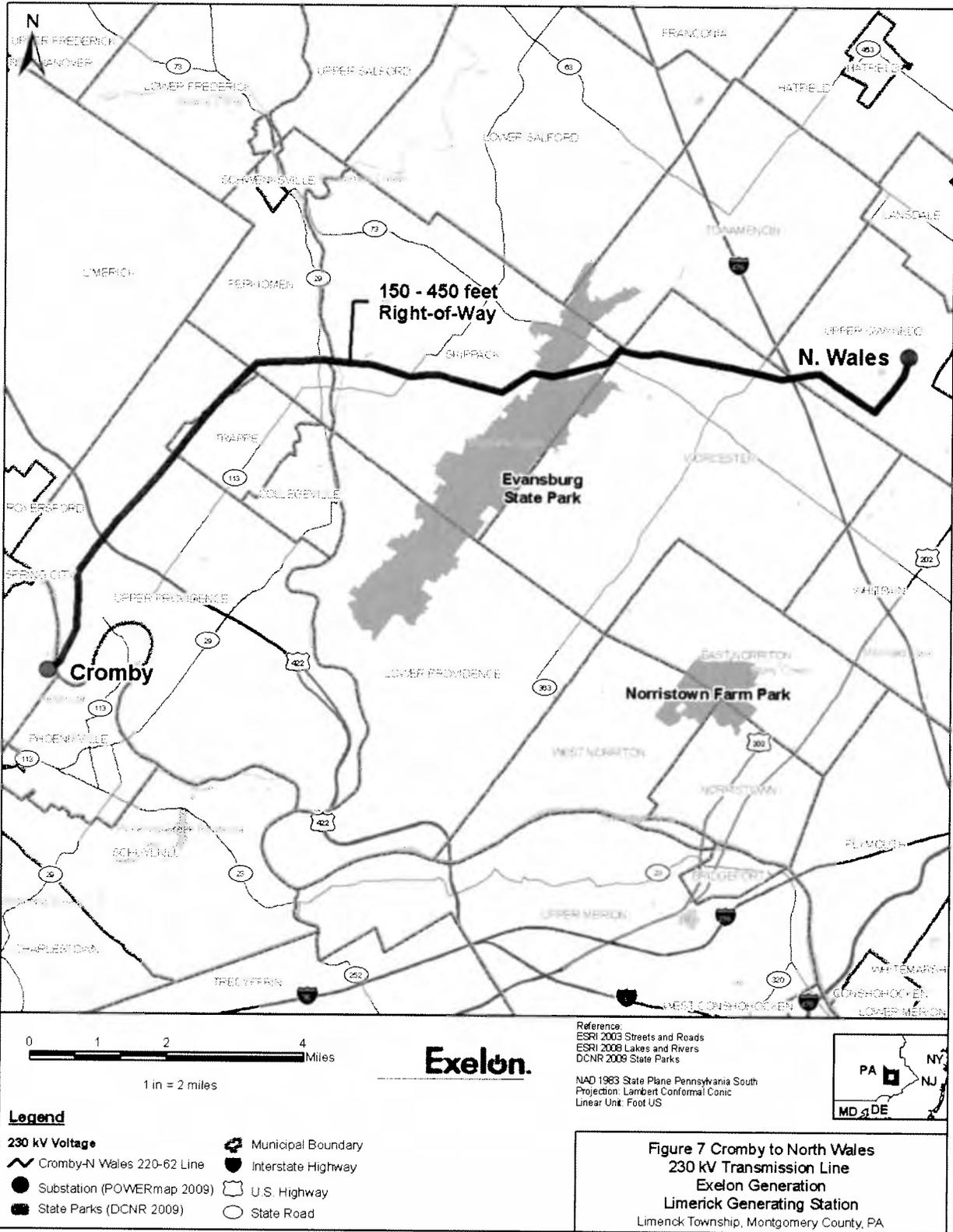
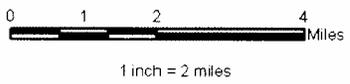
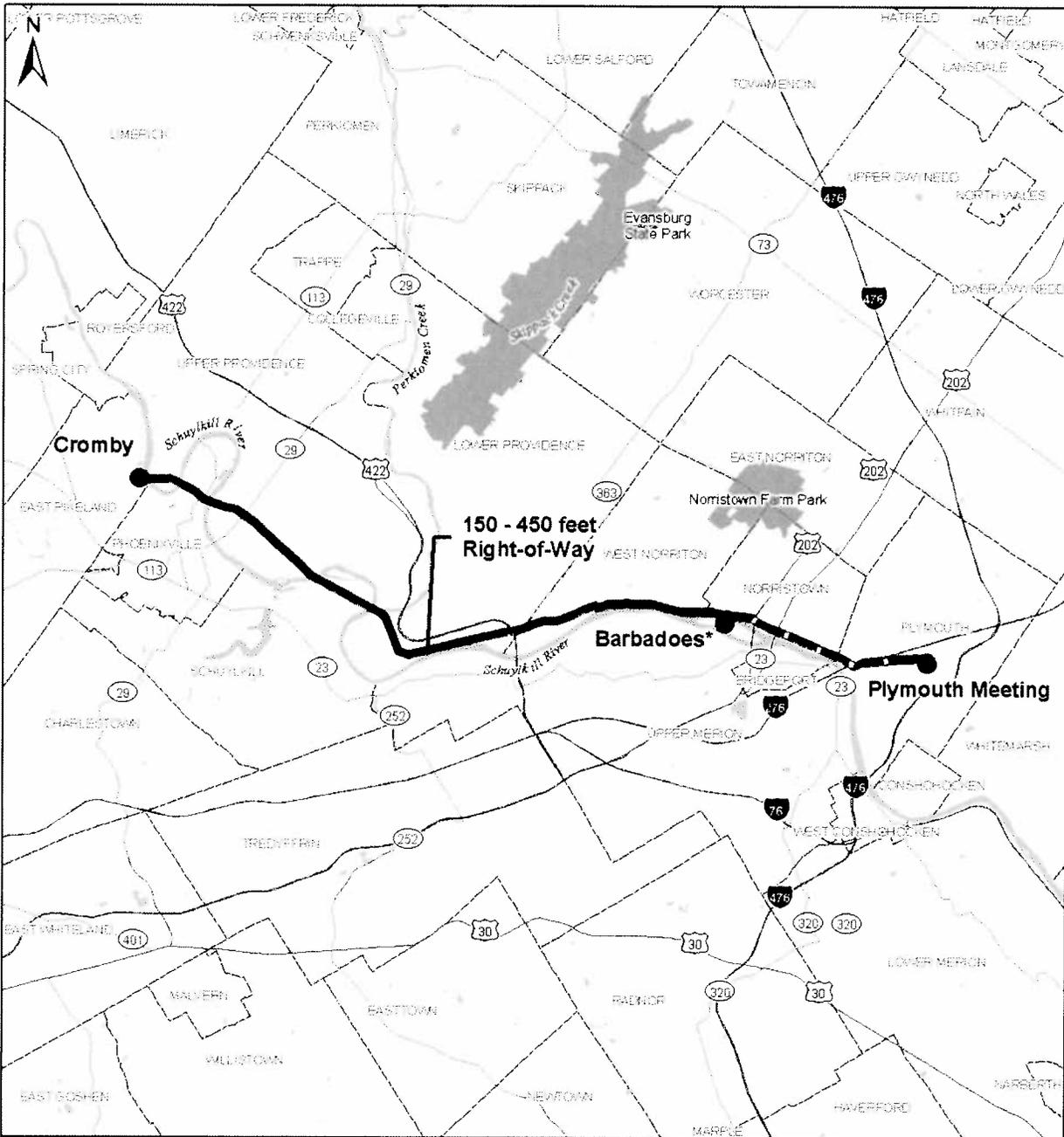


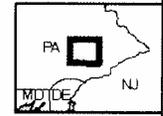
Figure 7 Cromby to North Wales
 230 kV Transmission Line
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA



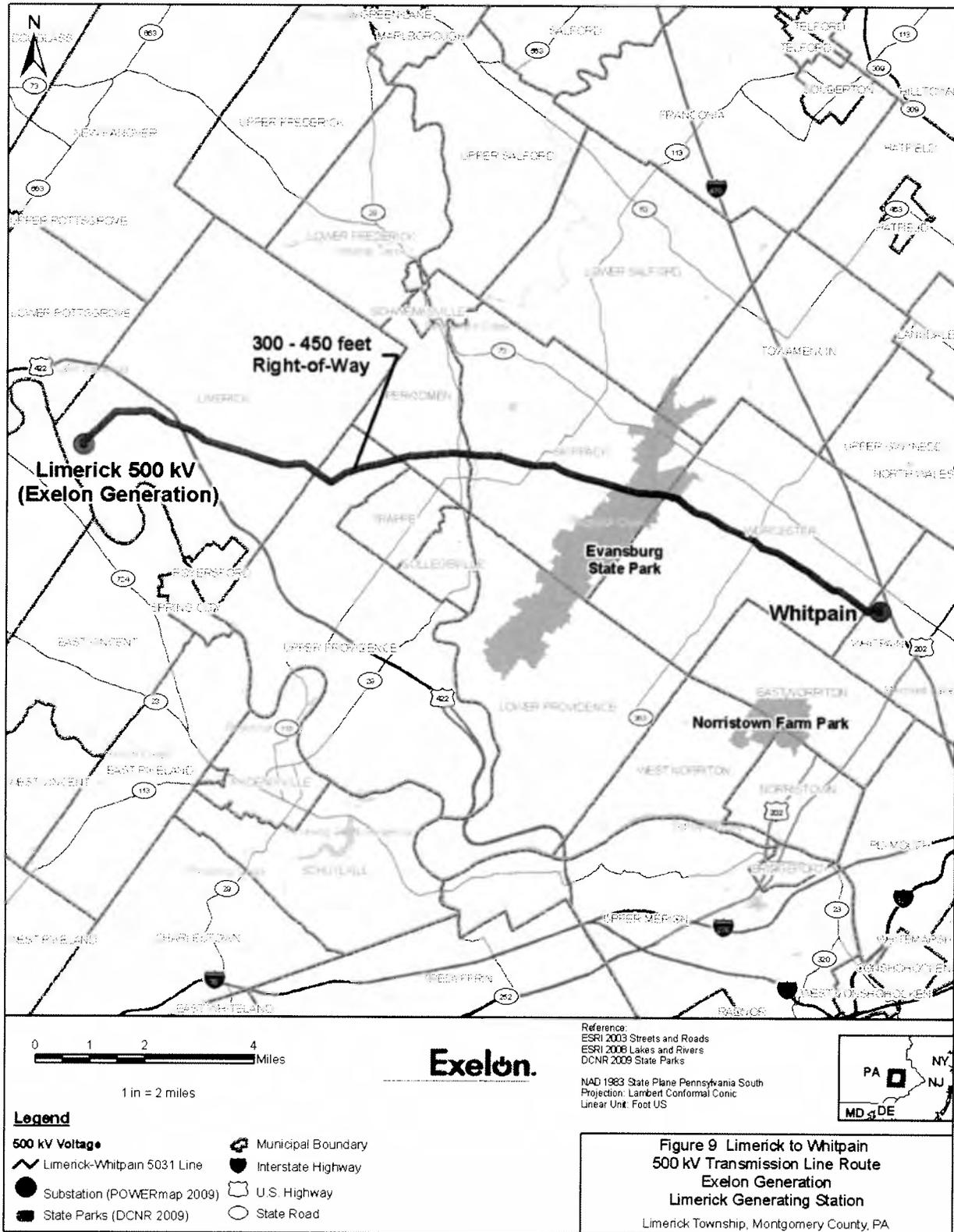
Exelon.

- Legend**
- 230 kV Voltage
 - Cromby-PlymMeeting 220-63
 - Cromby-PlymMeeting 220-64
 - Substation (POWERmap 2009)
 - State Parks (DCNR 2009)
 - Interstate Highway
 - U.S. Highway
 - State Road

Reference:
 ESRI 2003 Streets and Roads
 ESRI 2008 Lakes and Rivers
 DCNR 2008 State Parks
 NAD 1983 State Plane Pennsylvania South
 Projection: Lambert Conformal Conic
 Linear Unit: Foot US
 Note: *Location of Barbadoes substation
 not confirmed



**Figure 8 Cromby to Plymouth Meeting
 230-kV Transmission Line Route
 Exelon Generation
 Limerick Generating Station
 Limerick Township, Montgomery County, PA**





Pennsylvania Fish & Boat Commission

Division of Environmental Services
Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620
(814) 359-5237 Fax: (814) 359-5175

February 11, 2011

IN REPLY REFER TO
SIR # 35712

NANCY RANEK
EXELON NUCLEAR
200 EXELON WAY
KSA/2-E
KENNETT SQUARE, PA 19348

**RE: Species Impact Review (SIR) - Rare, Candidate, Threatened and Endangered Species
RENEWAL OF OPERATING LICENSES FOR LIMERICK GENERATING
STATION UNITS 1 & 2
MONTGOMERY AND CHESTER Counties, Pennsylvania**

Dear Ms. RANEK:

The staff of the Natural Diversity Section has examined the map accompanying your recent correspondence which shows the location of the above referenced project. Based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and Pennsylvania Fish & Boat Commission files, the eastern redbelly turtle (*Pseudemys rubriventris*, PA threatened) and globally rare amphipod and/or isopod species are known from the vicinity of the project sites.

The eastern redbelly turtle is one of Pennsylvania's largest native aquatic turtles. This turtle species is known to inhabit relatively large, deep streams, rivers, ponds, lakes and marshes with permanent water and ample basking sites. Redbelly turtles are restricted to the southcentral and southeastern regions of the Commonwealth. The existence of this turtle species is threatened by habitat destruction, poor water quality and competition with aggressive non-native turtle species that share its range and habitat (e.g., red-eared slider, *Trachemys scripta elegans*).

Isopods and amphipods are small invertebrate species (crustaceans) that inhabit coldwater springs, seeps, on hillsides and in caves. Although these species are not listed as candidate, threatened, or endangered, they may be listed in the not so distant future. These rare invertebrate species are threatened by habitat destruction and poor water quality.

Given that the proposed license renewal will involve no new construction, earth disturbance, or changes to existing land uses, I do not anticipate the proposed activity to have any significant adverse impacts to the species of concern under PFBC jurisdiction.

Note that this office performed no field inspection of the project area. Consequently, comments in this letter are not meant to address other issues or concerns that might arise concerning matters under Pennsylvania Fish and Boat Commission jurisdiction or that of other authorities. If you have any questions regarding this response, please contact Kathy Gipe of my staff (814-359-5186) and **refer to the SIR number at the top of this letter**. Thank you for your cooperation and attention to this matter

Our Mission:

www.fishandboat.com

To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.

SIR #35712
Ranek
Page 2

of endangered species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink, appearing to read "Christopher A. Urban". The signature is written in a cursive, slightly slanted style.

Christopher A. Urban, Chief
Natural Diversity Section

CAU/KDG/mr