

## **Section E**

### **PA Natural Diversity Inventory Form**

1. PNDI search results
2. Correspondence with Agencies and proof of receipt

#### Status

PNDI consultations have been occurring with the US Fish and Wildlife Service since 2007 and the PADCNr, PA Fish and Boat, and PA Game Commission since 2008. The most recent PNDI search notices were sent to each respective agency in September 2011.

PA Fish and Boat identified the following rare or protected species that could be impacted by project implementation; the Northern Cricket frog, Yellow Lampmussel, and Green Floater mussel. The DNCR response letter indicated the Baltimore Checkerspot and Mulberry Wing as two species of concern that could potentially be impacted by the project. PA Game Commission indicated the Indiana Bat is a species of concern and defers to the US Fish and Wildlife Service for project clearance.

All agencies requested additional project information. Subsequent correspondence between PPL and each agency is included in this section. Only one clearance letter from PA Fish and Boat for the Northern Cricket frog was received at the time of the June 2011 Joint Permit submittal. No additional clearances were obtained at the time of JPA Rev 1 submittal. PPL is actively working to meet agency requirements and clearance letters will be provided as an addendum to this application once they are obtained.

#### Appendix B Supplemental Reports

- A Field Survey of Terrestrial Fauna at the Proposed Bell Bend Nuclear Power Plant Site, Luzerne County, PA; Normandeau Associates, Inc., Rev. 5, September 2011.
- Impingement and Entrainment Sampling for the Proposed Bell Bend Nuclear Power Plant at the SSES Circulating Water Supply System Intake Structure, Luzerne County, PA; Normandeau Associates, Inc., Rev. 1, June 2010.
- Mussel Survey in the Susquehanna River in the Vicinity of the Proposed Bell Bend Nuclear Power Plant Site, Luzerne County, PA; Normandeau Associates, Inc., Rev. 1, June 2010.
- Indiana Bat (*Myotis sodalis*) Roost Tree Survey Report, Proposed Bell Bend NPP Site, Luzerne County, Pennsylvania; Normandeau Associates, Inc., October 2011.

**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



September 20, 2010

Ms. Chris Firestone  
Pennsylvania Department of Conservation and Natural Resources  
Bureau of Forestry  
Ecological Services Section  
P.O. Box 8552  
Harrisburg, PA 17105-8552

**BELL BEND NUCLEAR POWER PLANT  
LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2010-205                      Docket No. 52-039**

PPL Bell Bend, LLC is conducting an environmental evaluation for a potential nuclear power plant adjacent to the Susquehanna Steam Electric Station (SSES) site in Salem Township, Luzerne County, Pennsylvania. For screening purposes, the project area boundaries as shown on Figure 1 encompass the entire footprint of possible disturbance for the construction and maintenance of a nuclear power plant under consideration for the site, as well as the existing SSES site. The existing active SSES operating unit is within this boundary, but will not be altered. This letter is a follow up to a similar letter sent December 21, 2007 and your response dated March 24, 2008 with a reference PNDI #019535.

PPL Bell Bend, LLC wishes to screen the entire area as shown on Figure 1 for species of special concern under jurisdiction of the Pennsylvania Department of Conservation and Natural Resources. Please provide all current and historical information concerning the occurrence of rare, threatened and endangered species, as well as any other ecological resources of special concern within the project area. In addition, please provide this information for a 0.5-mile buffer surrounding the project area. This latter screen is requested for the purpose of evaluating environmental impacts and compliance with Pennsylvania Department of Environmental Protection regulations (e.g., 25 PA Code Chapter 105.17). A PNDI search form is attached for your use.

If you have any questions or need additional information, please contact Bradley Wise at 610.774.6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Thank you for your assistance.

Respectfully,

  
Terry L Harpster

TLH/dw

Enclosures    1) Site Location Map  
                    2) PNDI Review Form

cc: Ms. Stacey Imboden  
Senior Project Manager  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, MD 20852

Ms. Jamie Davis  
Office of Environmental Programs (3EA30)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

Mr. Tom Shervinskie  
Pa Fish & Boat Commission  
450 Robinson Lane  
Bellefonte, PA 16823

Ms. Jennifer Kagel  
United States Fish & Wildlife Service  
Pennsylvania Field Office  
315 S. Allen St. #322  
State College, PA 16801

Mr. Eugene Trowbridge  
Pa Dept Environmental Resources  
Northeast Regional Office  
2 Public Square  
Wilkes-Barre, PA 18711

Ms. Amy Elliott  
U.S. Army Corps of Engineers - Baltimore District  
State College Field Office  
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State College, PA 16801

Ms. Paula B. Ballaron  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

Mr. Thomas W. Beauduy  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

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R. Sgarro [rrsgarro@pplweb.com](mailto:rrsgarro@pplweb.com)  
D. Klinch [David.Klinch@constellation.com](mailto:David.Klinch@constellation.com)



Enclosure 1

Site Location Map



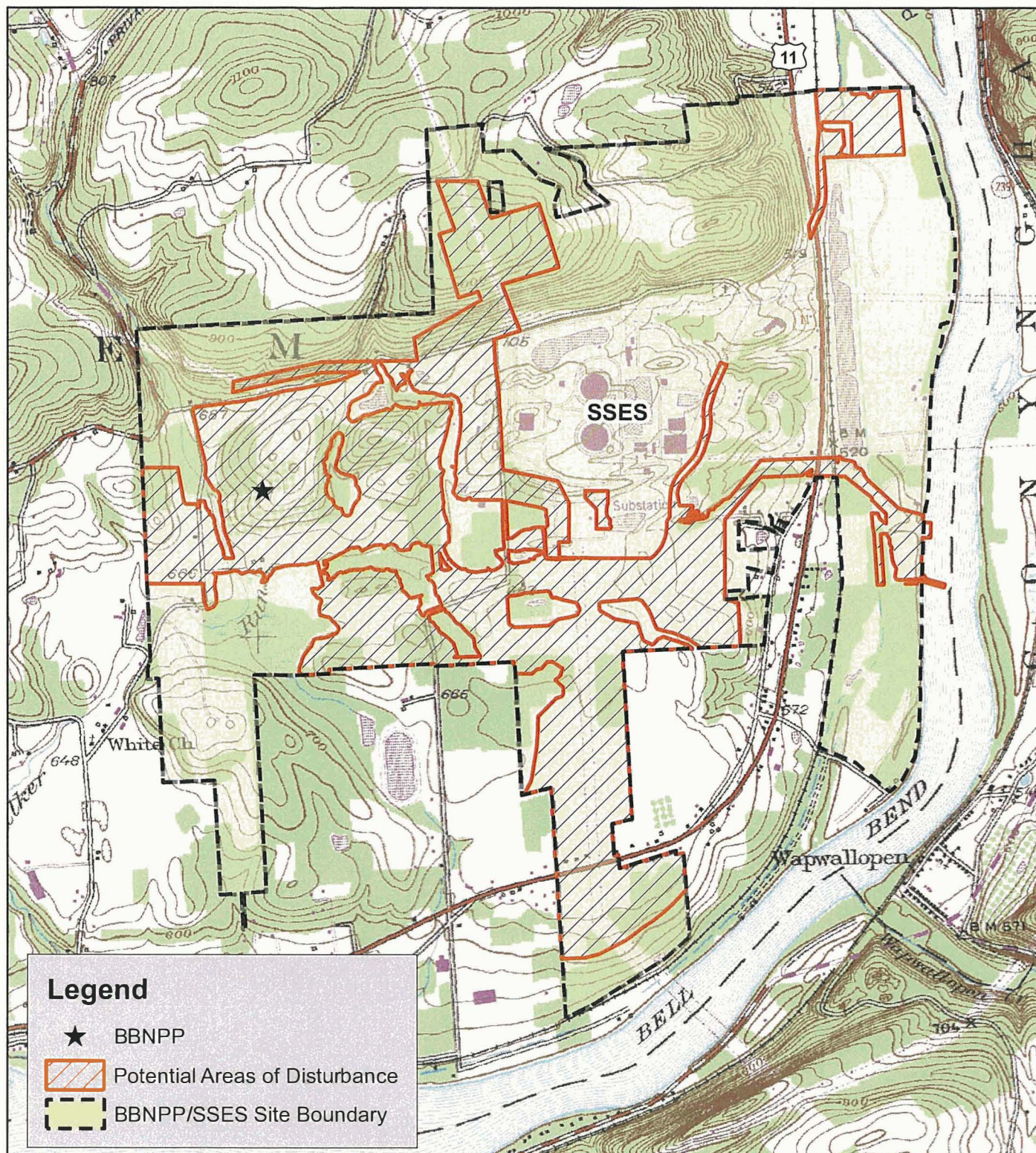


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 21766.004

rev. date:  
prepared for: b.lee  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form



## 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: PPL Bell Bend, LLC

Address: 38 Bomboy Lane, Suite 2, Berwick, PA 18603

Phone Number: 570.802.8100

Fax Number: 570.802.8119

#### Contact Person Information - if different from applicant

Name: Bradley A. Wise, Environmental Permitting Supervisor, PPL Bell Bend LLC

Address: Two North Ninth Street (GENPL4), Allentown, PA 18101-1179

Phone Number: (610) 774-6508

Fax Number: (610) 774-2618

---

#### Project Information

Project Name: Bell Bend Nuclear Power Plant Project

Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s

Municipality: Salem Township County: Luzerne

☒ 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: Berwick, PA

---

#### Project Description

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

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Total Acres of Property: 1,700

Acres to be Impacted: 700 acres (**approximately**)

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 ☒ X
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 ☒ X feet 0
3. Are wetlands located in or within 300 feet of the project area? Yes ☒ X No If No. is this the result of a wetland delineation?

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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 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.

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Harrisburg, PA 17105  
fax: 717-771-0271  
PA Game Commission  
Bureau of Land Management  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797  
fax: 717-787-6957

PA Fish and Boat Commission  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 10828  
fax: 814-359-5175  
US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Attn: Ms. Chris Firestone  
PA Dept of Conservation and  
Natural Resources  
Bureau of Forestry  
Ecological Services Section  
P.O. Box 8552  
Harrisburg PA 17105-8552

## 2. Article Number

(Transfer from service label)

7009 3410 0000 8705 0206

PS Form 3811, February 2004

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

☐ Agent  
☐ Addres

## B. Received by (Printed Name)

C. Date of Deliv

SEP 22 2010

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

## 3. Service Type

☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchand  
☐ Insured Mail ☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

Domestic Return Receipt

102595-02-M-15

**T. L. Harpster**  
VP-Bell Bend Project-Development

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September 20, 2010

Mr. Christopher A. Urban  
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**BELL BEND NUCLEAR POWER PLANT  
LARGE PROJECT SPECIES  
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SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2010-206                      Docket No. 52-039**

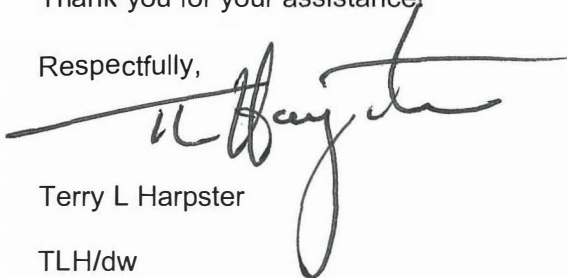
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R. Sgarro [rrsgarro@pplweb.com](mailto:rrsgarro@pplweb.com)  
D. Klinch [David.Klinch@constellation.com](mailto:David.Klinch@constellation.com)



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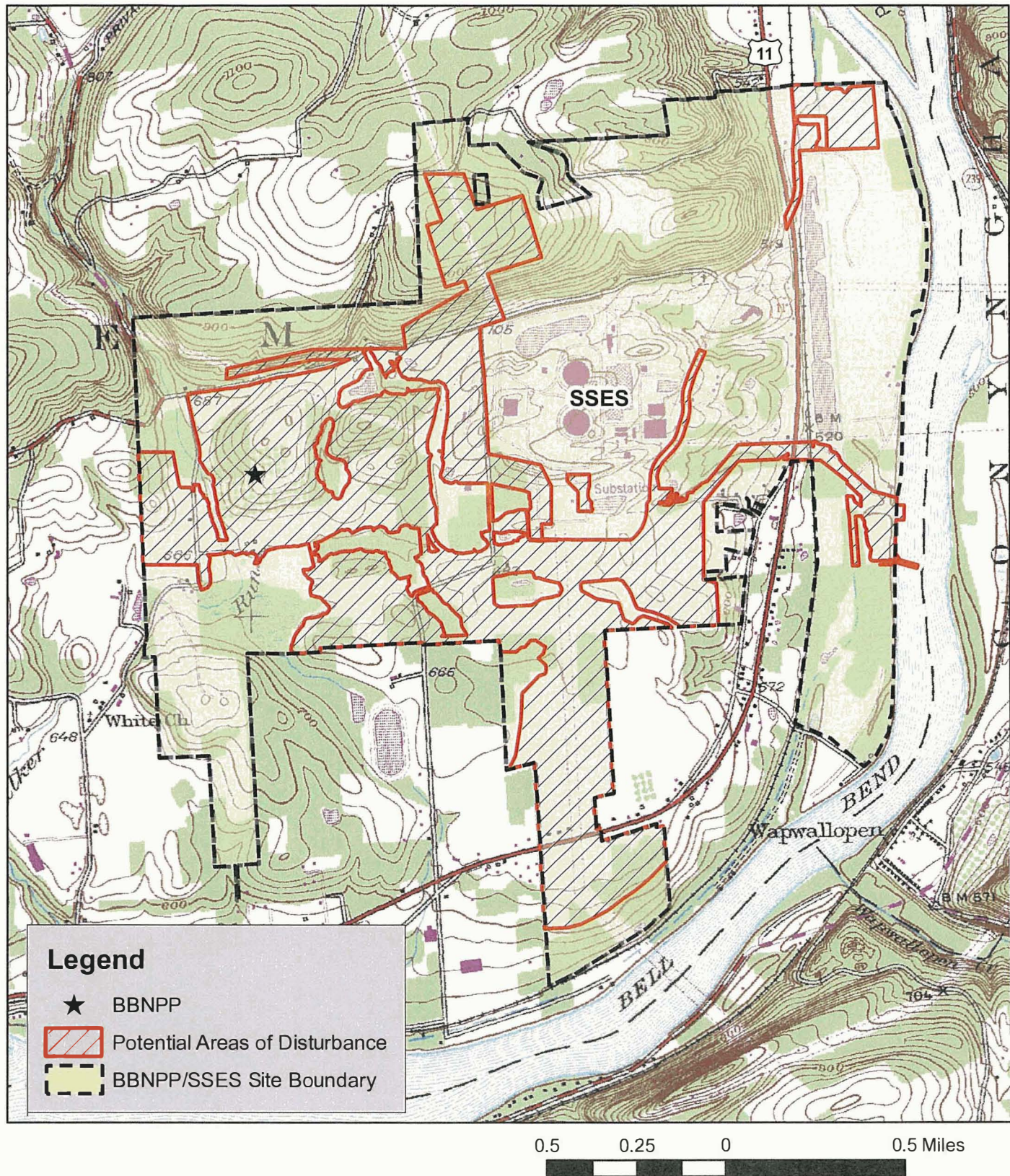


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Bellefonte, PA 16823

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(Transfer from service label)

7009 3410 0000 8705 0190

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Karl Lutz

☐ Agent☐ Addressee

B. Received by (Printed Name)

Karl Lutz

C. Date of Delivery

9-23-10

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

**T. L. Harpster**  
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September 20, 2010

Ms. Tracey Librandi Mumma  
Pennsylvania Game Commission  
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2001 Elmerton Avenue  
Harrisburg, PA 17110-9797

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SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2010-207                      Docket No. 52-039**

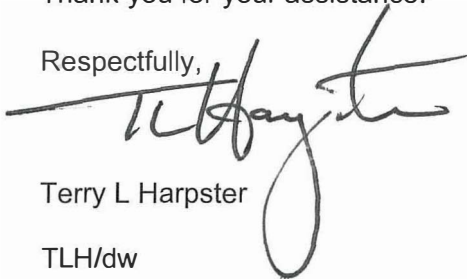
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J. S. Fields            [jsfields@pplweb.com](mailto:jsfields@pplweb.com)  
R. Sgarro              [rrsgarro@pplweb.com](mailto:rrsgarro@pplweb.com)  
D. Klinch              [David.Klinch@constellation.com](mailto:David.Klinch@constellation.com)



Enclosure 1

Site Location Map



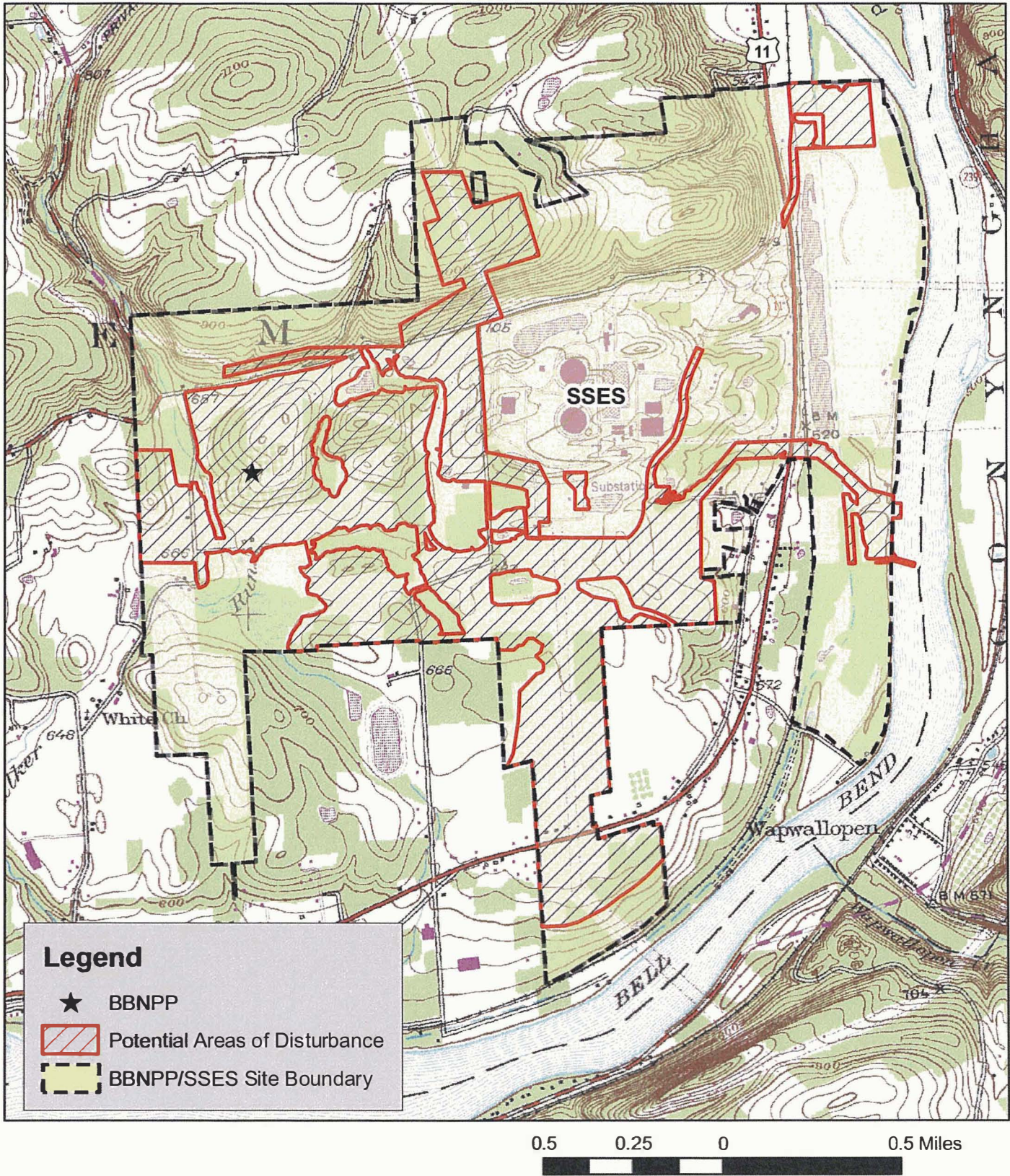


Figure 1.  
Bell Bend NPP  
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**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 21766.004

rev. date:  
prepared for: b.lees  
file name: Figure1.BBNPP\_Site\_USGS



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US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Attn: Ms. Tracey Librand Mummig  
PA Game Commission  
Bureau of Land Development  
Division of Environmental Planning  
and Habitat Protection  
2001 Elmerston Ave.  
Harrisburg, PA 17110-9797

## 2. Article Number

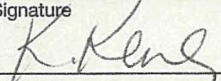
(Transfer from service label)

7009 3410 0000 8705 0183

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

X

☐ Agent☐ Address

## B. Received by (Printed Name)

## C. Date of Delivery

9-22-02

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

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## 4. Restricted Delivery? (Extra Fee)

☐ Yes

**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



September 20, 2010

Ms. Pamela Shellenberger  
U. S. Fish and Wildlife Service  
Endangered Species Section  
315 South Allen Street, Suite 322  
State College, PA 16801

**BELL BEND NUCLEAR POWER PLANT  
LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2010-208                      Docket No. 52-039**

PPL Bell Bend, LLC is conducting an environmental evaluation for a potential nuclear power plant adjacent to the Susquehanna Steam Electric Station (SSES) site in Salem Township, Luzerne County, Pennsylvania. For screening purposes, the project area boundaries as shown on Figure 1 encompass the entire footprint of possible disturbance for the construction and maintenance of a nuclear power plant under consideration for the site, as well as the existing SSES site. The existing active SSES operating unit is within this boundary but will not be altered. This letter is a follow up to a similar letter sent March 26, 2008 and your agency's response dated April 21, 2008 with a reference USFWS Project #2008-0518.

Please note that the project team has initiated consultation with USFWS with respect to the project's impacts to Indiana bat at the proposed BBNPP.

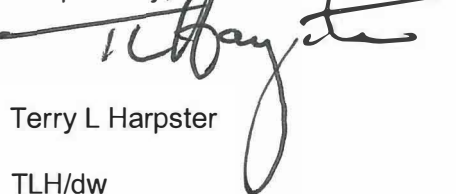
PPL Bell Bend, LLC wishes to screen the entire area as shown on Figure 1 for species of special concern under jurisdiction of the U. S. Fish and Wildlife Service. Please provide all current and historical information concerning the occurrence of Federally-listed and proposed threatened and endangered species; designated and proposed critical habitats; and any other ecological resources of special concern within the project area. This information may be used in future consultations with your agency under Section 7 of the Endangered Species Act.

In addition, please provide this information for a 0.5-mile buffer surrounding the project area. This latter screen is requested for the purpose of evaluating environmental impacts and compliance with Pennsylvania Department of Environmental Protection regulations (e.g., 25 PA Code Chapter 105.17). A PNDI search form is attached for your use.

If you have any questions or need additional information, please contact Bradley Wise at 610.774.6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Thank you for your assistance.

Respectfully,



Terry L Harpster

TLH/dw

Enclosures    1) Site Location Map  
                    2) PNDI Review Form

cc: Ms. Stacey Imboden  
Senior Project Manager  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, MD 20852

Ms. Jamie Davis  
Office of Environmental Programs (3EA30)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

Mr. Tom Shervinskie  
Pa Fish & Boat Commission  
450 Robinson Lane  
Bellefonte, PA 16823

Ms. Jennifer Kagel  
United States Fish & Wildlife Service  
Pennsylvania Field Office  
315 S. Allen St. #322  
State College, PA 16801

Mr. Eugene Trowbridge  
Pa Dept Environmental Resources  
Northeast Regional Office  
2 Public Square  
Wilkes-Barre, PA 18711

Ms. Amy Elliott  
U.S. Army Corps of Engineers - Baltimore District  
State College Field Office  
1631 South Atherton Street, Suite 102  
State College, PA 16801

Ms. Paula B. Ballaron  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

Mr. Thomas W. Beauduy  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

bcc: B. A. Wise [bawise@pplweb.com](mailto:bawise@pplweb.com)  
J. S. Fields [jsfields@pplweb.com](mailto:jsfields@pplweb.com)  
R. Sgarro [rrsgarro@pplweb.com](mailto:rrsgarro@pplweb.com)  
D. Klinch [David.Klinch@constellation.com](mailto:David.Klinch@constellation.com)



Enclosure 1

Site Location Map



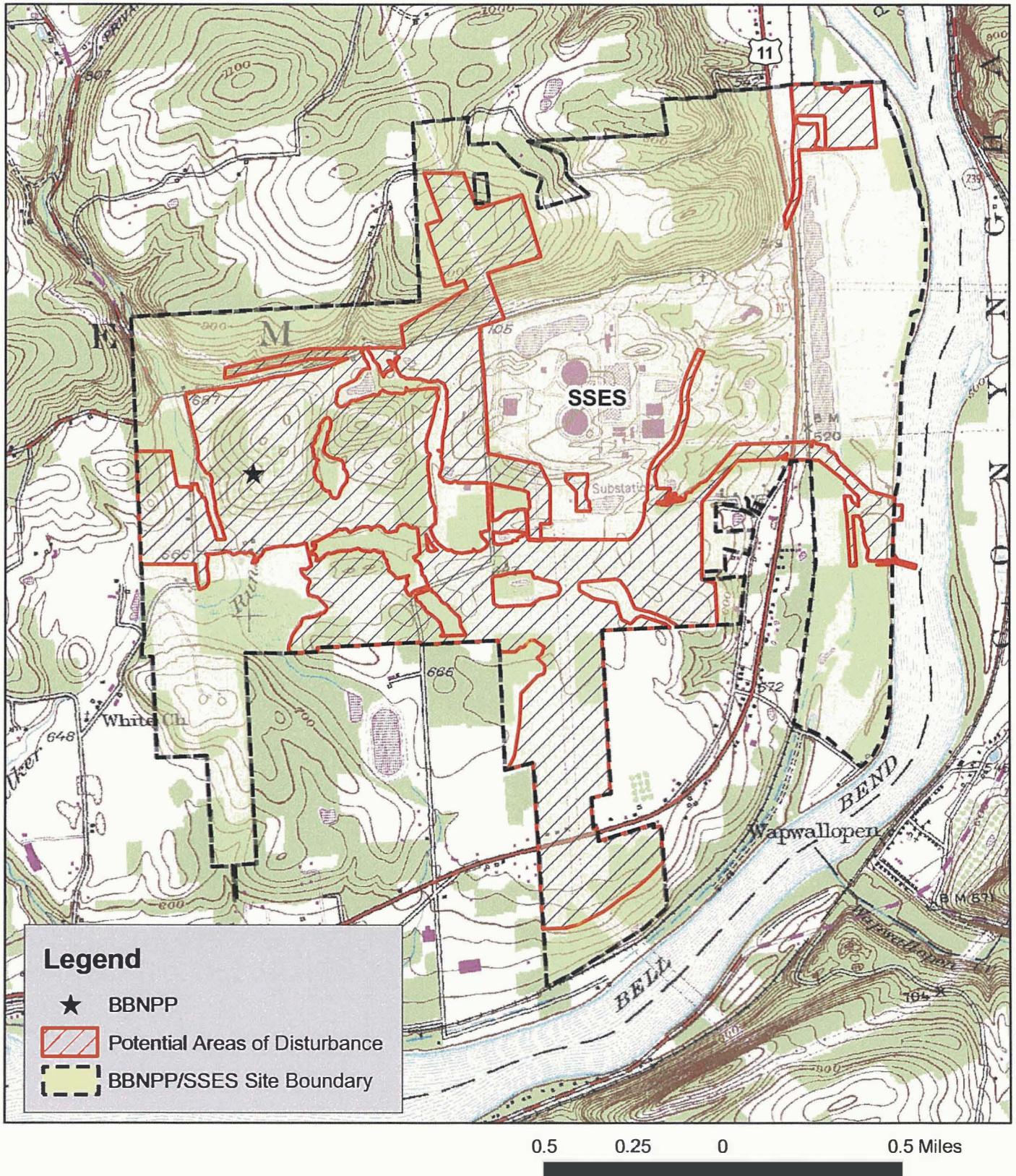


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 21766.004

rev. date:  
prepared for: b. lees  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form



## 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: PPL Bell Bend, LLC

Address: 38 Bomboy Lane, Suite 2, Berwick, PA 18603

Phone Number: 570.802.8100

Fax Number: 570.802.8119

#### Contact Person Information - if different from applicant

Name: Bradley A. Wise, Environmental Permitting Supervisor, PPL Bell Bend LLC

Address: Two North Ninth Street (GENPL4), Allentown, PA 18101-1179

Phone Number: (610) 774-6508

Fax Number: (610) 774-2618

---

#### Project Information

Project Name: Bell Bend Nuclear Power Plant Project

Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s

Municipality: Salem Township County: Luzerne

☒ 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: Berwick, PA

---

#### Project Description

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

The Bell Bend Nuclear Power Plant Project involves development of a combined license application (COLA) to the U.S. Nuclear Regulatory Commission (NRC) for potential construction and operation of a new nuclear powered steam electric plant adjacent to the Susquehanna Steam Electric Station. In the event a decision is made to develop the plant, associated activities would involve land clearing, grubbing, grading/excavation, and construction of plant and support facilities and structures; landscaping; and subsequent operation and maintenance of plant facilities and grounds. Land use of areas potentially disturbed consists predominately of active/former farmland and forest, to roadways, and natural vegetation (e.g., shrub-scrub).

Total Acres of Property: 1,700

Acreage to be Impacted: 700 acres (approximately)

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 ☒ feet 0
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?

---

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 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: 717-771-0271  
PA Game Commission  
Bureau of Land Management  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797  
fax: 717-787-6957

PA Fish and Boat Commission  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16828  
fax: 814-359-5175  
US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>Dianne B. Hees</i> <input type="checkbox"/> Agent <input type="checkbox"/> Address	
1. Article Addressed to: ATTN: Ms. Pamela Shellenberger U.S. Fish and Wildlife Service Endangered Species section 315 South Allen St. Suite 322 State College, PA 16801		B. Received by (Printed Name) <i>Dianne B. Hees</i>	C. Date of Delivery <i>9/23/10</i>
		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7009 3410 0000 8705 0176	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-15	



# Pennsylvania Fish & Boat Commission

RECEIVED OCT 25 2010

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

October 14, 2010

IN REPLY REFER TO  
SIR# 35087

BRADLEY WISE  
PPL  
TWO NORTH NINTH ST  
BERWICK, PA 18603

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
BELL BEND NUCLEAR POWER PLANT  
UPDATE TO SIR 27486  
SALEM Township, LUZERNE County, Pennsylvania

Dear Mr. WISE:

I have examined the map accompanying your recent correspondence, which shows the location for the above referenced project. Based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files, the following rare or protected species are known from the vicinity of the project site:

<u>Common Name</u>	<u>Scientific Name</u>	<u>PA Status</u>
Northern cricket frog	<i>Acris crepitans</i>	endangered
Yellow lampmussel	<i>Lampsilis cariosa</i>	rare
Green floater	<i>Lasmigona subviridis</i>	rare

The Northern cricket frog is a small (less than 2") frog species found in a wide variety of habitats including permanent bodies of water such as slow-moving streams, ponds, lakes, marshes, bogs, and swamps, but also semi-permanent ponds and seasonal forest pools.. Breeding occurs from May to August with metamorphosed froglets emerging July to September. The Northern cricket frog occurs in small, isolated populations in eastern Pennsylvania. These small populations are threatened by pollution, and filling/clearing of wetlands and breeding habitat.

If wetlands, waterways, or vernal pools are to be directly or indirectly impacted by the project activity, we will need to conduct a more thorough evaluation of the potential adverse impacts to the northern cricket frog. Please provide us with the following information to assist us with our review: detailed project plans including a project narrative, identification and delineation of wetlands or streams within the direct and indirect impact area, and color photographs (dated, labeled, and keyed to a map) of wetlands, vernal pools, or waterways expected to be impacted. A habitat assessment or presence/absence survey may be requested for the species of concern.

Freshwater mussels are the most imperiled taxonomic group in North America. Nearly half of the species known to occur in the Commonwealth are now extirpated (locally extinct) from Pennsylvania. We

## Our Mission:

[www.fish.state.pa.us](http://www.fish.state.pa.us)

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

SIR #35087.

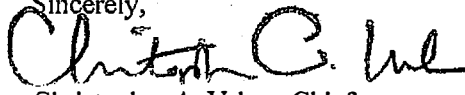
WISE

Page 2

are concerned about direct and indirect (i.e., runoff) effects that the proposed project may have on the species of concern. Freshwater mussel species are extremely vulnerable to physical (i.e., siltation, dredging, trenching, rip-rap) and chemical (i.e., pH, temperature, dissolved oxygen, organic contaminants, heavy metals) changes to their aquatic environment. Therefore, we recommend construction techniques that eliminate in-stream work, sedimentation and changes to water quality. I recommend that you avoid any in-stream disturbance or water quality degradation in the Susquehanna River during and after the project installation. Storm sewers and retention basins should be designed so as to minimize/remove all silt from the water before it is released into the river. Strict erosion and sedimentation control measures, as well as best management practices should be employed.

If wetlands or water bodies *are not* to be disturbed by the proposed activity, and provided that best management practices are employed and strict erosion and sedimentation control measures are maintained, I do not foresee any adverse impacts to the species of concern listed above or any other rare or protected species under Pennsylvania Fish and Boat Commission 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 at 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 of nongame species conservation.

Sincerely,  
  
Christopher A. Urban, Chief  
Natural Diversity Section

CAU/KDG/mr



**pennsylvania**  
DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

RECEIVED NOV 01 2010

---

BUREAU OF FORESTRY

Date November 1, 2010

PNDI Number: 21008

Terry L. Harpster  
PPL Bell Bend, LLC  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
FAX: 570-802-8119 (Hard copy will not follow)  
Re: Bell Bend Nuclear Power Plant  
County: Luzerne Township: Salem

Dear Mr. Harpster,

Thank you for submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 21008 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.

There are no plant species or geologic features of concern in your project area. There are two terrestrial invertebrates of concern that were known to be in the project area.

*Euphydras phaeton*, Baltimore Checkerspot, habitat is wet meadows, bogs, and marshes with flight in June through August. Larval food is Turtlehead, Hairy Beardtongue, English plantain, Foxglove and White Ash and the adult food is nectar from Milkweed, Virburnums and Wild Rose.

*Poanes massasolt*, Mulberry Wing, habitat is freshwater marshes or bogs with flight in late June through mid August. Larval food is *Carex stricta* and adult food is any flower nectar.

When more detailed project information becomes available, please submit this project to our office for further review of potential impacts to these terrestrial species.

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](http://www.naturalheritage.state.pa.us)

Sincerely,

  
Richard Shockey, Environmental Review Manager FOR Chris Firestone, Wild Plant Program Mgr.

Ph: 717-772-0263 ~ [c-rshockey@state.pa.us](mailto:c-rshockey@state.pa.us)

conserve

sustain

enjoy

---

P.O. Box 6552, Harrisburg, PA 17015-8552 717-787-3444 (fax) 717-772-0271





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."*

**BUREAU OF WILDLIFE  
HABITAT MANAGEMENT  
717-787-6818**

**ADMINISTRATIVE BUREAUS:**

ADMINISTRATION.....717-787-5670  
HUMAN RESOURCES.....717-787-7858  
FISCAL MANAGEMENT.....717-787-7314  
CONTRACTS AND  
PROCUREMENT.....717-787-6584  
LICENSING.....717-787-2084  
OFFICE SERVICES.....717-787-2118  
WILDLIFE MANAGEMENT.....717-787-5528  
INFORMATION & EDUCATION.....717-787-8286  
WILDLIFE PROTECTION.....717-783-6528  
WILDLIFE HABITAT  
MANAGEMENT.....717-787-6818  
REAL ESTATE DIVISION.....717-787-6568  
AUTOMATED TECHNOLOGY  
SERVICES.....717-787-4078

[www.pgc.state.pa.us](http://www.pgc.state.pa.us)

December 28, 2010

**Large Project Review**

RECEIVED DEC 28 2010

Mr. Bradley A. Wise  
PPL Bell Bend, LLC  
Two North Ninth Street (GENGL4)  
Allentown, Pennsylvania 18101-1179

Re: Bell Bend Nuclear Power Plant Project -- Proposed Electrical Plant  
Salem Township, Luzerne County, Pennsylvania

Dear Mr. Wise,

Thank you for submitting the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number Bell Bend Nuclear Power Plant Project for review. 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. The PGC has received and thoroughly reviewed the information that you provided to this office, as well as PNDI data, and has determined that potential impacts to the following endangered species may be associated with your project:

Scientific Name	Common Name	PA Status	Federal Status
<i>Myotis sodalis</i>	Indiana Bat	ENDANGERED	ENDANGERED

**Next Steps**

Indiana bats are a federally listed endangered species under the jurisdiction of the U.S. Fish and Wildlife Service. As a result, our agency defers comments on potential impacts to Indiana bats to the U.S. Fish and Wildlife Service.

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](http://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](mailto:OBraun@state.pa.us)

A PNHP Partner



Pennsylvania Natural Heritage Program

OAB/oab

cc: Pamela Shellenberger, U.S. Fish & Wildlife Service  
Librandi Mumma, PGC  
DuBrock, PGC  
Brauning, PGC  
Butchkoski, PGC  
Turner, PGC  
Terry L. Harpster, PPL  
File



January 14, 2011

Ms. Kathy Gipe  
Pennsylvania Fish and Boat Commission  
Division of Environmental Services  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16823

**BELL BEND NUCLEAR POWER PLANT  
SIR #35087, SPECIES IMPACT REVIEW  
NORTHERN CRICKET FROG  
BNP-2011-004      Docket No. 52-039**

References: 1) PAFBC-2010-283, Christopher Urban, PFBC, to Bradley Wise, "Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species, Update to SIR 27486", October 14, 2010

PPL Bell Bend, LLC is providing herein a response to the Commission's correspondence of October 14, 2010 (SIR 35087, update to SIR 27486)(Reference 1). Specifically, PPL is providing information requested by the Commission to aid in the assessment of potential impact to the newly listed as "endangered" Northern cricket frog (*Acris crepitans*).

This letter provides a brief introduction to important characteristics of the project as related to Northern cricket frog habitat and associated impacts at the Bell Bend Nuclear Power Plant (BBNPP) site. Additionally, this letter provides the Commission with two project topical reports on terrestrial fauna (including amphibians) and wetlands at the site, Enclosures 1 and 2 respectively.

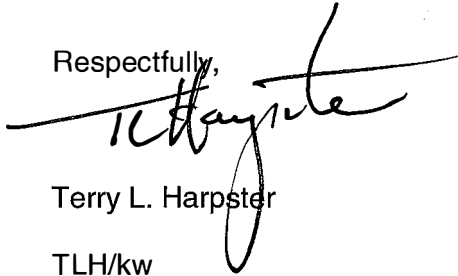
These reports describe the methods and findings of surveys completed between 2007 and 2010, and include faunal observations as well as the locations, types, and characteristics of wetlands and streams at the BBNPP site. As described in the Terrestrial Fauna report, biologists evaluating the BBNPP site reported hearing the call of a Northern cricket frog twice on a single day in November, 2007. The species has not been seen or observed otherwise at the BBNPP site or adjacent lands associated with the Susquehanna Steam Electric Station and Riverlands Nature Preserve. On-going field work by Dr. Brian Mangan of Kings College, and the staff of Ecology III have failed to find this species on-site. The locations of the observations were in the western part of the watershed of Walker Run, as shown in Enclosure 1.

As part of project siting and design, BBNPP has undergone an extensive wetland avoidance and minimization program, including substantial redesign of major project elements in response and coordination with state and federal regulatory agencies, including the Commission. The development of the project proposes less than 2 acres of direct wetland impact within the 1,991 acres of land supporting project development. In addition to the direct wetlands impacts, vegetation management, primarily associated with transmission line right-of-way maintenance, will permanently convert approximately 9 acres of wetlands from a mixed forested/emergent/scrub community to a low-growing emergent/scrub community. A mitigation

program for BBNPP, developed in coordination with state and federal agencies, including the Commission, provides for stream and wetland restoration and creation to offset unavoidable impacts of the project. The Commission contacts for the BBNPP project have been Tom Shervinskie and Mark Hartle.

Should you have any questions or require additional information, please don't hesitate to Brad Wise of my staff at (610) 774-6508 or bawise@pplweb.com.

Respectfully,

A handwritten signature in black ink, appearing to read "T. Harpster", with a long horizontal line extending to the left.

Terry L. Harpster

TLH/kw

- Enclosures:
- 1) A Field Survey of Terrestrial Fauna at the Proposed Bell Bend Nuclear Power Plant Site Luzerne County, Pennsylvania, Rev. 4, December, 2010 (Provided on DVD)
  - 2) Wetlands Delineation and Exceptional Value Wetlands Analysis Report for the Proposed Bell Bend Nuclear Power Plant Site, Rev. 5, November, 2010. (Provided on DVD)

Enclosure 1

A Field Survey of Terrestrial Fauna at the Proposed Bell Bend Nuclear Power Plant Site  
Luzerne County, Pennsylvania, Rev. 4, December, 2010 (Provided on DVD).



Enclosure 2

Wetlands Delineation and Exceptional Value Wetlands Analysis Report for the Proposed Bell Bend Nuclear Power Plant Site, Rev. 5, November, 2010. (Provided on DVD)

T. L. Harpster  
VP- Bell Bend Project-Development

PPL Bell Bend, LLC  
38 Bomboy Lane, Suite2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



March 4, 2011

Ms. Kathy Gipe  
Pennsylvania Fish and Boat Commission  
Division of Environmental Services  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16823

**BELL BEND NUCLEAR POWER PLANT  
SIR #27486, SPECIES IMPACT REVIEW  
FRESHWATER MUSSEL SURVEY  
BNP-2011-049      Docket No. 52-039**

References: 1) PAFBC-2010-283, Christopher Urban, PFBC, to Bradley Wise, "Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species, Update to SIR 27486", October 14, 2010

PPL Bell Bend, LLC is providing herein a response to the Commission's correspondence of October 14, 2010 (Reference 1).

In response to your telephone request of February 14, we have enclosed the "Mussel Survey in the Susquehanna River in the Vicinity of the Proposed Bell Bend Nuclear Power Plant Site, Luzerne County, Pennsylvania" prepared by Normandeau Associates. While the survey was performed in October 2007, the report was revised to incorporate a figure change resulting from the Bell Bend Nuclear Power Plant (BBNPP) Plot Plan Change, hence its July 2010 revision date.

Should you have any questions or require additional information, please don't hesitate to contact Brad Wise of my staff at (610) 774-6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Respectfully,

A handwritten signature in black ink, appearing to read "T. Harpster", is written over the typed name "Terry L. Harpster". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Terry L. Harpster

TLH/kw

Enclosure: Mussel Survey in the Susquehanna River in the Vicinity of the at the Proposed Bell Bend Nuclear Power Plant Site, Luzerne County, Pennsylvania, Rev. 2, July 2010.

Enclosure

Mussel Survey in the Susquehanna River in the Vicinity of the at the Proposed Bell Bend  
Nuclear Power Plant Site, Luzerne County, Pennsylvania, Rev. 2, July 2010



# Pennsylvania Fish & Boat Commission

RECEIVED MAR 14 2011

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

March 10, 2011

IN REPLY REFER TO  
SIR# 35087

BRADLEY WISE  
PPL  
TWO NORTH NINTH ST  
ALLENTOWN, PA 18101

RE: Secondary Species Impact Review (SIR) #35087  
BELL BEND NUCLEAR POWER PLANT  
SALEM Township, LUZERNE County, Pennsylvania

Dear Mr. WISE:

I have examined the map accompanying your recent correspondence, which shows the location for the above referenced project. Based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files, the following rare or protected species are known from the vicinity of the project site:

<u>Common Name</u>	<u>Scientific Name</u>	<u>PA Status</u>
Northern cricket frog	<i>Acris crepitans</i>	endangered
Yellow lampmussel	<i>Lampsilis cariosa</i>	rare
Green floater	<i>Lasmigona subviridis</i>	rare

You sent additional information related to this project in response to our letter of October 14, 2010. According to our review of the wetland delineation report, the field survey of terrestrial fauna, and the proposed project plan, we do not anticipate adverse impacts from the proposed project to the northern cricket frog, which has not been confirmed on the site.

However, it has come to our attention that the proposed water withdrawal as well as the intake and outfall structures, have the potential to adversely impact the freshwater mussel species of concern. Preliminary mussel surveys confirmed the presence of rare mussels in the project area. These survey results were referenced in the wetland delineation report, but this office has not yet received the survey results. Additional mussel surveys and instream flow analysis are planned in 2011. The results of this work should be forwarded to this office for review of the potential impacts from the proposed project to the Commonwealth's freshwater mussel resources.

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 Nevin Welte at 412-586-2334 and **refer to the SIR**

## Our Mission:

[www.fish.state.pa.us](http://www.fish.state.pa.us)

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

SIR #35087

WISE

Page 2

**number at the top of this letter.** Thank you for your cooperation and attention to this matter of nongame species conservation.

Sincerely,

  
Christopher A. Urban, Chief  
Natural Diversity Section

CAU/NW/mr

Cc: Tom Shervinski, PFBC  
Mark Hartle, PFBC  
Eugene Trowbridge, PADEP  
Jennifer Kagel, USFWS



**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



October 7, 2011

Mr. Chris Firestone  
Pennsylvania Department of Conservation and Natural Resources  
Bureau of Forestry  
Ecological Services  
Section P.O. Box 8552  
Harrisburg, PA 17105-8552

**BELL BEND NUCLEAR POWER PLANT  
PLANT LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN UPDATE  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2011-183                      Docket No. 52-039**

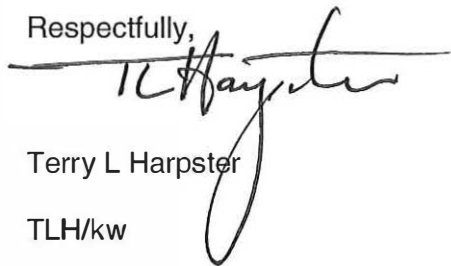
This letter is the annual notification required for Pennsylvania Natural Diversity Inventory (PNDI) changes until a NRC Combined Operating License (COL) is issued for the proposed Bell Bend Nuclear Power Plant Project. The COL is currently expected to be issued in late 2014. This Update is for PNDI Number: 21008. Included for your review is a site location map (Enclosure 1), and Project Planning & Environmental Review Form (Enclosure 2).

PPL Bell Bend, LLC is conducting an environmental evaluation for this potential nuclear power plant adjacent to the Susquehanna Steam Electric Station (SSES) site in Salem Township, Luzerne County, Pennsylvania. For screening purposes, the project area boundaries as shown on Enclosure 1 encompass the entire footprint of possible disturbance for the construction and maintenance of a nuclear power plant under consideration for the site, as well as the operating SSES site.

PPL Bell Bend, LLC wishes to screen the entire area as shown on Enclosure 1 for species of special concern under jurisdiction of the Pennsylvania Department of Conservation and Natural Resources. Please provide all current and historical information concerning the occurrence of rare, threatened and endangered species, as well as any other ecological resources of special concern within the project area. In addition, please provide this information for a 0.5-mile buffer surrounding the project area. This latter screen is requested for the purpose of evaluating environmental impacts and compliance with Pennsylvania Department of Environmental Protection regulations (e.g., 25 PA Code Chapter 105.17).

If you have any questions or need additional information, please contact Bradley Wise at 610.774.6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Respectfully,

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Terry L Harpster

TLH/kw

Enclosures: 1) Site Location Map  
2) PNDI Review Form

cc: (w/ Enclosures)

Ms. Stacey Imboden  
Senior Project Manager  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, MD 20852

Ms. Jamie Davis  
Office of Environmental Programs (3EA30)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

Mr. Tom Shervinskie  
Pa Fish & Boat Commission  
450 Robinson Lane  
Bellefonte, PA 16823

Ms. Jennifer Kagel  
United States Fish & Wildlife Service  
Pennsylvania Field Office  
315 S. Allen St. #322  
State College, PA 16801

Mr. Eugene Trowbridge  
Pa Dept of Environmental Resources  
Northeast Regional Office  
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Wilkes-Barre, PA 18711

Ms. Amy Elliott  
U.S. Army Corps of Engineers - Baltimore District  
State College Field Office  
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Ms. Paula B. Ballaron  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

Mr. Thomas W. Beauduy  
Susquehanna River Basin Commission  
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Enclosure 1

Site Location Map



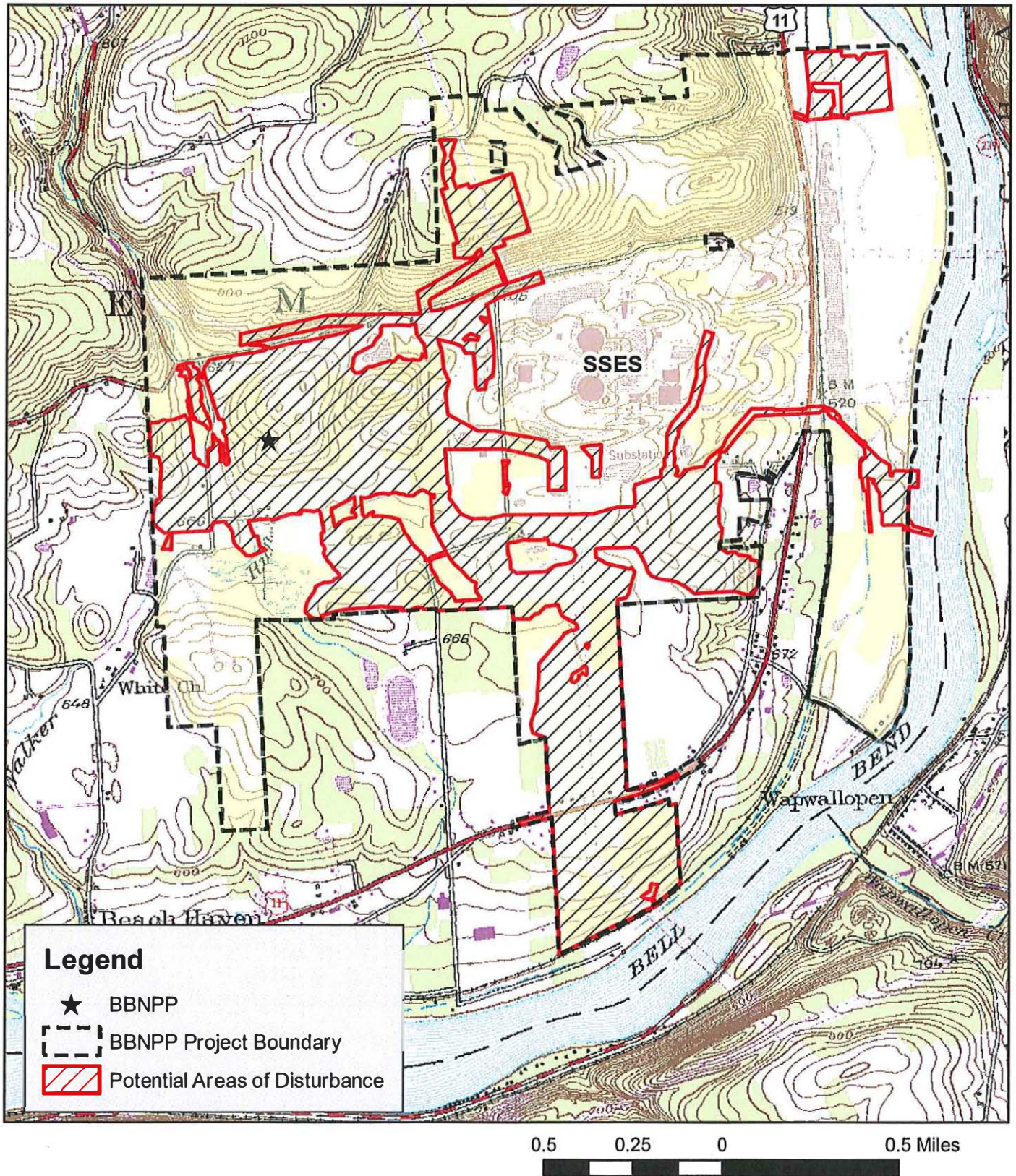


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 22474.000

rev. date: 09/30/10, 09/06/11  
prepared for: b.lee  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form



**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: PPL Bell Bend, LLC  
Address: 38 Bomboy Lane, Suite 2, Berwick, PA 18603  
Phone Number: 570.802.8100 Fax Number: 570.802.8119

**Contact Person Information - if different from applicant**

Name: Bradley A. Wise, Environmental Permitting Supervisor, PPL Bell Bend LLC  
Address: Two North Ninth Street (GENPI4), Allentown, PA 18101-1179  
Phone Number: (610) 774-6508 Fax Number: (610) 774-2618

---

**Project Information**

Project Name: Bell Bend Nuclear Power Plant Project  
Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s  
Municipality: Salem Township County: Luzerne  
☒ 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: Berwick, PA

---

**Project Description**

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

The Bell Bend Nuclear Power Plant Project involves development of a combined license application (COLA) to the U.S. Nuclear Regulatory Commission (NRC) for potential construction and operation of a new nuclear powered steam electric plant adjacent to the Susquehanna Steam Electric Station. In the event a decision is made to develop the plant, associated activities would involve land clearing, grubbing, grading/excavation, and construction of plant and support facilities and structures; landscaping; and subsequent operation and maintenance of plant facilities and grounds. Land use of areas potentially disturbed consists predominately of active/former farmland and forest, to roadways, and natural vegetation (e.g., shrub-scrub).

Total Acres of Property: 2,055 Acreage to be Impacted: 687 acres (approximately)

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 ☒ feet 0
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?

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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 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: 717-771-0271  
PA Game Commission  
Bureau of Land Management  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797  
fax: 717-787-6957

PA Fish and Boat Commission  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16828  
fax: 814-359-5175  
US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please

**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



October 7, 2011

Mr. Christopher A. Urban  
Pennsylvania Fish and Boat Commission  
Division of Environmental Services  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16823

**BELL BEND NUCLEAR POWER PLANT  
PLANT LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN UPDATE  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2011-184                      Docket No. 52-039**

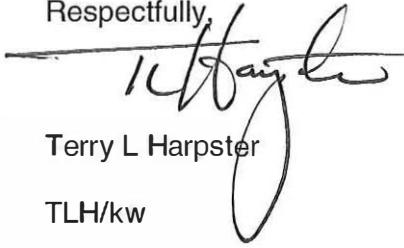
This letter is the annual notification required for Pennsylvania Natural Diversity Inventory (PNDI) changes until a NRC Combined Operating License (COL) is issued for the proposed Bell Bend Nuclear Power Plant Project. The COL is currently expected to be issued in late 2014. This Update is for PNDI Number: SIR 27486. Included for your review is a site location map (Enclosure 1), and Project Planning & Environmental Review Form. (Enclosure 2)

PPL Bell Bend, LLC is conducting an environmental evaluation for this potential nuclear power plant adjacent to the Susquehanna Steam Electric Station (SSES) site in Salem Township, Luzerne County, Pennsylvania. For screening purposes, the project area boundaries as shown on Enclosure 1 encompass the entire footprint of possible disturbance for the construction and maintenance of a nuclear power plant under consideration for the site, as well as the operating SSES site.

PPL Bell Bend, LLC wishes to screen the entire area as shown on Enclosure 1 for species of special concern under jurisdiction of the Pennsylvania Fish and Boat Commission. Please provide all current and historical information concerning the occurrence of rare, threatened and endangered species, as well as any other ecological resources of special concern within the project area. In addition, please provide this information for a 0.5-mile buffer surrounding the project area. This latter screen is requested for the purpose of evaluating environmental impacts and compliance with Pennsylvania Department of Environmental Protection regulations (e.g., 25 PA Code Chapter 105.17).

If you have any questions or need additional information, please contact Bradley Wise at 610.774.6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Respectfully,

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Terry L Harpster

TLH/kw

Enclosures: 1) Site Location Map  
2) PNDI Review Form

cc: (w/ Enclosures)

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Senior Project Manager  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, MD 20852

Ms. Jamie Davis  
Office of Environmental Programs (3EA30)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

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Enclosure 1

Site Location Map



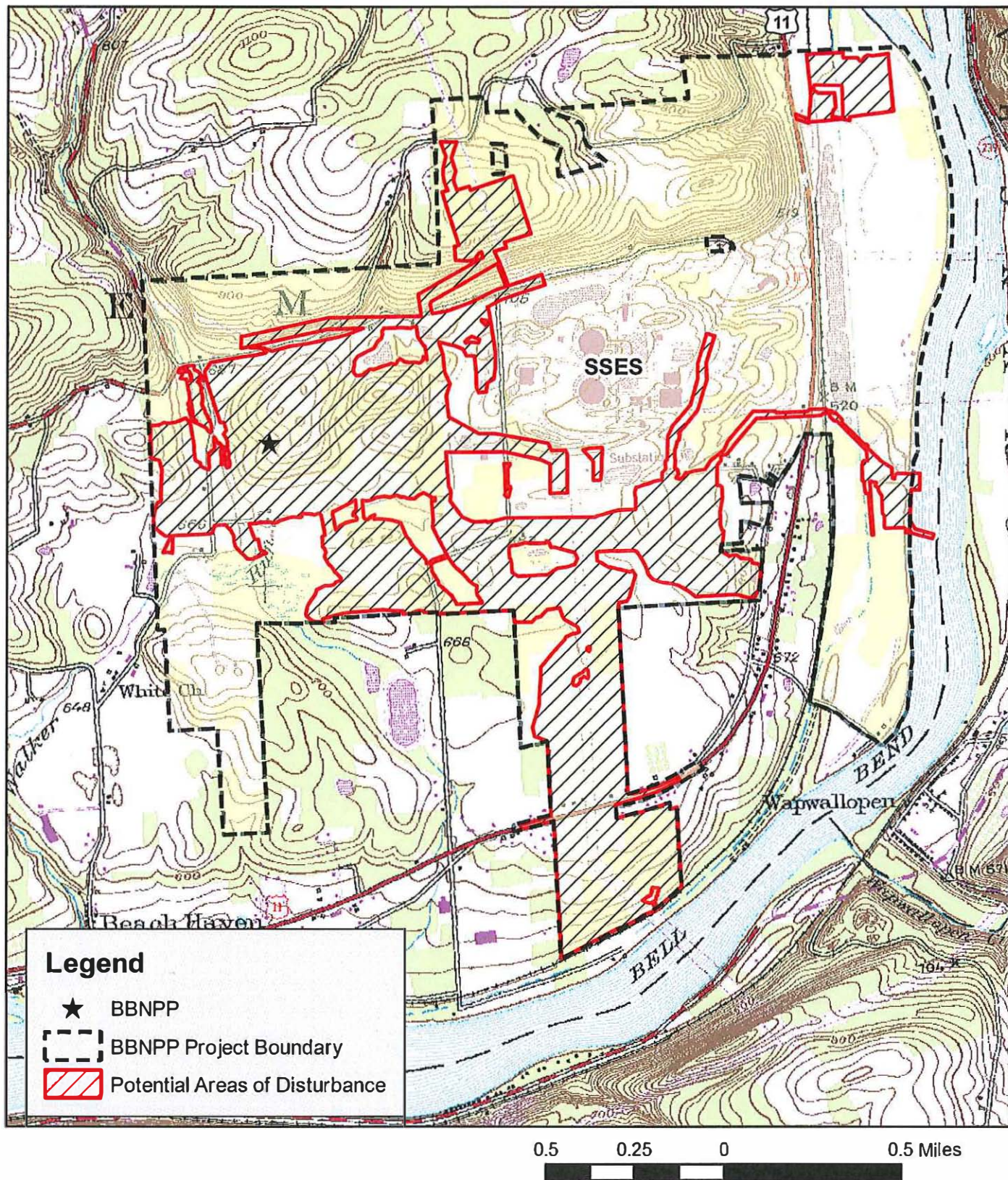


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 22474.000

rev. date: 09/30/10, 09/06/11  
prepared for: b.lee  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form



## 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: PPL Bell Bend, LLC

Address: 38 Bomboy Lane, Suite 2, Berwick, PA 18603

Phone Number: 570.802.8100

Fax Number: 570.802.8119

### Contact Person Information - if different from applicant

Name: Bradley A. Wise, Environmental Permitting Supervisor, PPL Bell Bend LLC

Address: Two North Ninth Street (GENPL4), Allentown, PA 18101-1179

Phone Number: (610) 774-6508

Fax Number: (610) 774-2618

### Project Information

Project Name: Bell Bend Nuclear Power Plant Project

Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s

Municipality: Salem Township County: Luzerne

☒ 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: Berwick, PA

### Project Description

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

The Bell Bend Nuclear Power Plant Project involves development of a combined license application (COLA) to the U.S. Nuclear Regulatory Commission (NRC) for potential construction and operation of a new nuclear powered steam electric plant adjacent to the Susquehanna Steam Electric Station. In the event a decision is made to develop the plant, associated activities would involve land clearing, grubbing, grading/excavation, and construction of plant and support facilities and structures; landscaping; and subsequent operation and maintenance of plant facilities and grounds. Land use of areas potentially disturbed consists predominately of active/former farmland and forest, to roadways, and natural vegetation (e.g., shrub-scrub).

Total Acres of Property: 2,055

Acreage to be Impacted: 687 acres (approximately)

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 ☒ feet 0
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fax: 717-787-6957

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450 Robinson Lane  
Bellefonte, PA 16828  
fax: 814-359-5175  
US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please

**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



October 7, 2011

Ms. Tracey Librandi Mumma  
Pennsylvania Game Commission  
Bureau of Land Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797

**BELL BEND NUCLEAR POWER PLANT  
PLANT LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN UPDATE  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2011-185                      Docket No. 52-039**

This letter is the annual notification required for Pennsylvania Natural Diversity Inventory (PNDI) changes until a NRC Combined Operating License (COL) is issued for the proposed Bell Bend Nuclear Power Plant Project. The COL is currently expected to be issued in late 2014. This is a Large Project Review. Included for your review is a site location map (Enclosure 1), and Project Planning & Environmental Review Form (Enclosure 2).

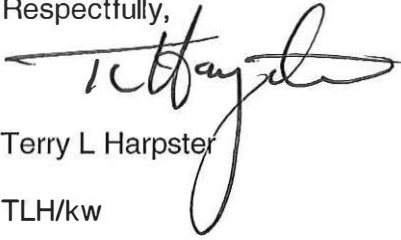
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Respectfully,

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Terry L Harpster

TLH/kw

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2) PNDI Review Form

cc: (w/ Enclosure)

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Enclosure 1

Site Location Map



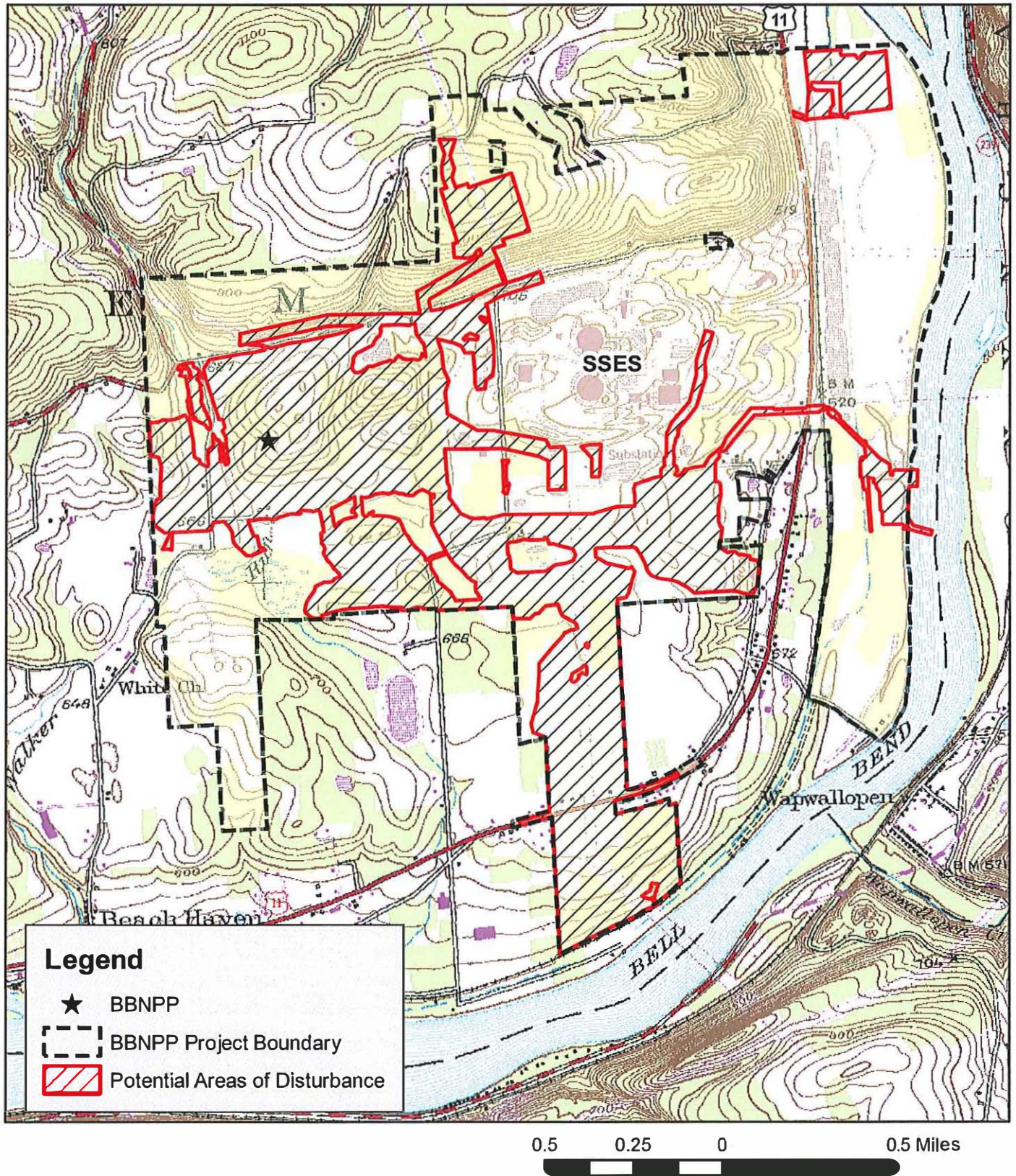


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 22474.000

rev. date: 09/30/10, 09/06/11  
prepared for: b.lee  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form





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**Project Planning & Environmental Review Form**

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Phone Number: (610) 774-6508

Fax Number: (610) 774-2618

---

**Project Information**

Project Name: Bell Bend Nuclear Power Plant Project

Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s

Municipality: Salem Township County: Luzerne

☒ 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: Berwick, PA

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**Project Description**

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

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fax: 814-359-5175  
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315 South Allen St., Suite 322  
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no faxes please

**T. L. Harpster**  
VP-Bell Bend Project-Development

**PPL Bell Bend, LLC**  
38 Bomboy Lane, Suite 2  
Berwick, PA 18603  
Tel. 570.802.8111 FAX 570.802.8119  
[tlharpster@pplweb.com](mailto:tlharpster@pplweb.com)



October 7, 2011

Ms. Pamela Shellenberger  
U. S. Fish and Wildlife Service  
Endangered Species Section  
315 South Allen Street, Suite 322  
State College, PA 16801

**BELL BEND NUCLEAR POWER PLANT  
PLANT LARGE PROJECT SPECIES  
OF SPECIAL CONCERN SCREEN  
SALEM TOWNSHIP, LUZERNE COUNTY, PA  
BNP-2011-186                      Docket No. 52-039**

This letter is the annual notification required for Pennsylvania Natural Diversity Inventory (PNDI) changes until a NRC Combined Operating License (COL) is issued for the proposed Bell Bend Nuclear Power Plant Project. The COL is currently expected to be issued in late 2014. This letter is a follow up to similar letters sent March 26, 2008 and September 20, 2010 with a reference to USFWS Project #2008-0518. Included for your review is a site location map (Enclosure 1), and Project Planning & Environmental Review Form (Enclosure 2).

PPL Bell Bend, LLC is conducting an environmental evaluation for this potential nuclear power plant adjacent to the Susquehanna Steam Electric Station (SSES) site in Salem Township, Luzerne County, Pennsylvania. For screening purposes, the project area boundaries as shown on Enclosure 1 encompass the entire footprint of possible disturbance for the construction and maintenance of a nuclear power plant under consideration for the site, as well as the operating SSES site.

Please note that the project team has initiated consultation with U.S. Fish and Wildlife Service (USFWS) with respect to the project's potential impacts to the Indiana bat in the vicinity of the proposed BBNPP.

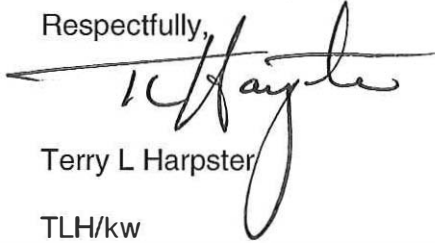
PPL Bell Bend, LLC wishes to screen the entire area as shown on Enclosure 1 for species of special concern under jurisdiction of the USFWS. Please provide all current and historical information concerning the occurrence of Federally-listed and proposed threatened and endangered species; designated and proposed critical habitats; and any other ecological resources of special concern within the project area. This information may be used in future consultations with your agency under Section 7 of the Endangered Species Act.

In addition, please provide this information for a 0.5-mile buffer surrounding the project area. This latter screen is requested for the purpose of evaluating environmental impacts and

compliance with Pennsylvania Department of Environmental Protection regulations (e.g., 25 PA Code Chapter 105.17).

If you have any questions or need additional information, please contact Bradley Wise at 610.774.6508 or [bawise@pplweb.com](mailto:bawise@pplweb.com).

Respectfully,

A handwritten signature in black ink, appearing to read "T. Harpster", with a long horizontal line extending to the left.

Terry L Harpster

TLH/kw

Enclosures: 1) Site Location Map  
2) PNDI Review Form

cc: (w/ Enclosure)

Ms. Stacey Imboden  
Senior Project Manager  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, MD 20852

Ms. Jamie Davis  
Office of Environmental Programs (3EA30)  
U.S. Environmental Protection Agency  
1650 Arch Street  
Philadelphia, PA 19103-2029

Mr. Tom Shervinskie  
Pa Fish & Boat Commission  
450 Robinson Lane  
Bellefonte, PA 16823

Ms. Jennifer Kagel  
United States Fish & Wildlife Service  
Pennsylvania Field Office  
315 S. Allen St. #322  
State College, PA 16801

Mr. Eugene Trowbridge  
Pa Dept of Environmental Resources  
Northeast Regional Office  
2 Public Square  
Wilkes-Barre, PA 18711

Ms. Amy Elliott  
U.S. Army Corps of Engineers - Baltimore District  
State College Field Office  
1631 South Atherton Street, Suite 102  
State College, PA 16801

Ms. Paula B. Ballaron  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

Mr. Thomas W. Beauduy  
Susquehanna River Basin Commission  
1721 North Front Street  
Harrisburg, PA 17102-0425

Enclosure 1

Site Location Map



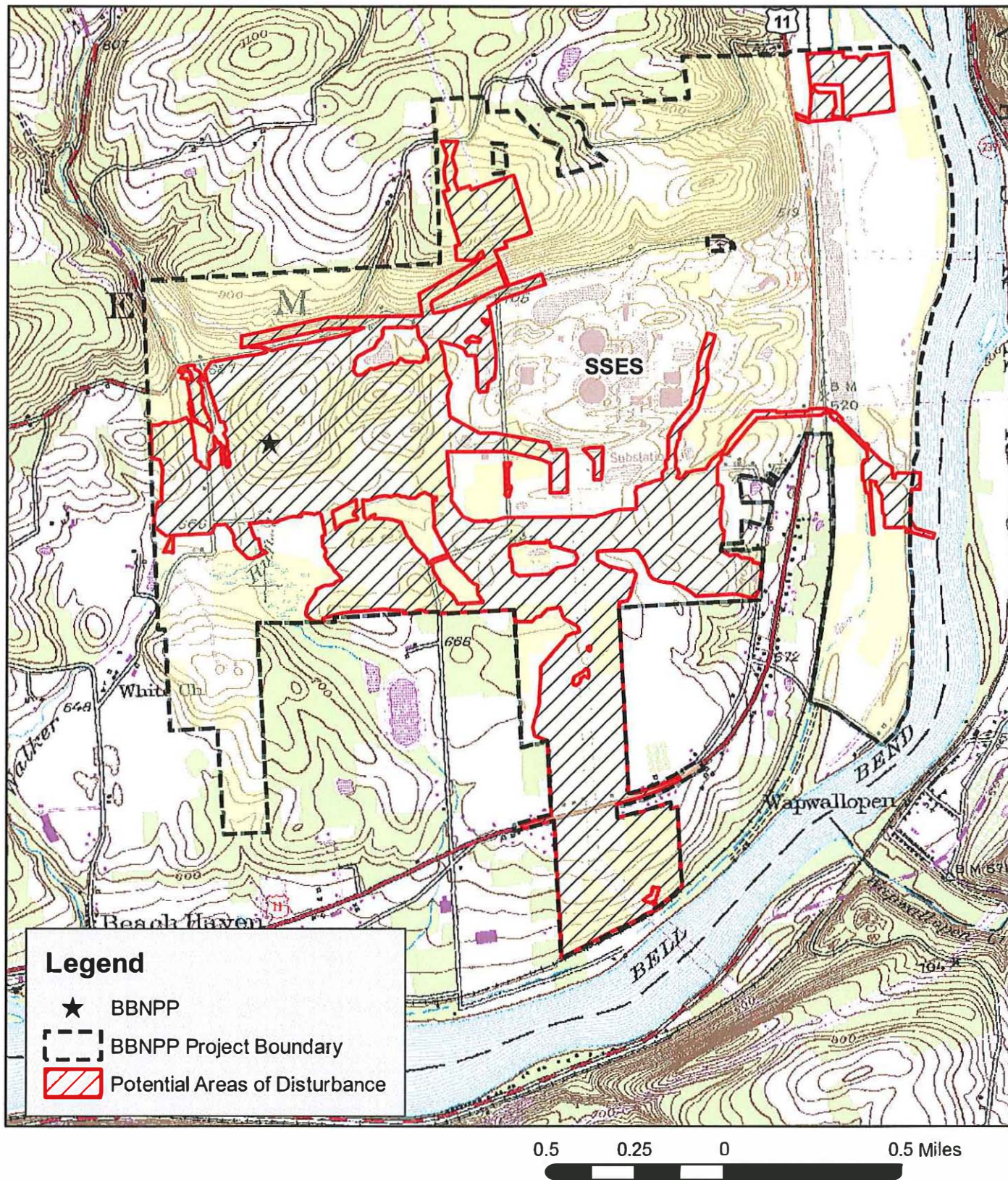


Figure 1.  
Bell Bend NPP  
Site Location Map



**NORMANDEAU ASSOCIATES**  
ENVIRONMENTAL CONSULTANTS  
400 Old Reading Pike, Bldg A, Suite 101 Stowe, PA 19464

date: 07/27/10  
prepared by: s.sherman  
project: 22474.000

rev. date: 09/30/10, 09/06/11  
prepared for: b.lee  
file name: Figure1.BBNPP\_Site\_USGS



Enclosure 2

PNDI Review Form



## 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: PPL Bell Bend, LLC

Address: 38 Bomboy Lane, Suite 2, Berwick, PA 18603

Phone Number: 570.802.8100

Fax Number: 570.802.8119

### Contact Person Information - if different from applicant

Name: Bradley A. Wise, Environmental Permitting Supervisor, PPL Bell Bend LLC

Address: Two North Ninth Street (GENPL4), Allentown, PA 18101-1179

Phone Number: (610) 774-6508

Fax Number: (610) 774-2618

### Project Information

Project Name: Bell Bend Nuclear Power Plant Project

Project Locations: Lat N 41d 5m 20.7s Lon W 76d 9m 4.5s

Municipality: Salem Township County: Luzerne

☒ 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: Berwick, PA

### Project Description

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

The Bell Bend Nuclear Power Plant Project involves development of a combined license application (COLA) to the U.S. Nuclear Regulatory Commission (NRC) for potential construction and operation of a new nuclear powered steam electric plant adjacent to the Susquehanna Steam Electric Station. In the event a decision is made to develop the plant, associated activities would involve land clearing, grubbing, grading/excavation, and construction of plant and support facilities and structures; landscaping; and subsequent operation and maintenance of plant facilities and grounds. Land use of areas potentially disturbed consists predominatly of active/former farmland and forest, to roadways, and natural vegetation (e.g., shrub-scrub).

Total Acres of Property: 2,055

Acreage to be Impacted: 687 acres (approximately)

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 ☒ feet 0
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?

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 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: 717-771-0271  
PA Game Commission  
Bureau of Land Management  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797  
fax: 717-787-6957

PA Fish and Boat Commission  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16828  
fax: 814-359-5175  
US Fish and Wildlife Service  
Endangered Species Biologist  
315 South Allen St., Suite 322  
State College, PA 16801  
no faxes please



**pennsylvania**  
DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

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**BUREAU OF FORESTRY**

October 24, 2011

**PNDI Number: 21544**

**Terry Harpster**  
**PPL Bell Bend LLC**  
358 Bomboy Lane, Suite 2  
Berwick, PA 18603  
FAX: 570-802-8119 (hard copy will not follow)

Re: Bell Bend Nuclear Power Plant  
Salem Twp., Luzerne County

Dear Mr. Harpster,

Thank you for your submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 21544 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 there are no plant species or geologic features of concern in your project area. There are two terrestrial invertebrates of concern previously found onsite.

*Euphydryas phaeton* (Baltimore Checkerspot, S3) is a butterfly species of concern known from previous surveys to be found onsite. It inhabits moist areas such as wet meadows, bogs, and marshes. The larvae of this species use Turtlehead, Hairy Beardtongue, English plantain, Foxglove and White Ash as host plants; adult food sources are nectar from Milkweed, Virburnums and Wild Rose.

*Poanes massasoit* (Mulberry Wing, S2) is another butterfly species of concern known from previous collection on the project area. Habitat includes freshwater marshes or bogs. The larvae of this species use *Carex stricta* and other sedges as host plants; adult food source is flower nectar.

As a voluntary conservation measure, DCNR suggests using these host and food species in your eventual revegetation plan. This would provide additional habitat for these species. As these species utilize bog and wet, marshy areas as habitat, continue to avoid impacting wetlands onsite. DCNR has determined that no impact is likely to occur to species of special concern under our jurisdiction as a result of this project. If more information becomes available, or plans change to impact wetlands, please contact DCNR for further coordination.

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](http://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](mailto:c-rbowen@state.pa.us)

**conserve**

**sustain**

**enjoy**

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P.O. Box 8552, Harrisburg, PA 17105-8552 717-787-3444 (fax) 717-772-0271