

The included responses include revised COLA content. This future revision of the COLA is a new regulatory commitment.

Should you have questions or need additional information, please contact the undersigned at 570.802.8102.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 25, 2011

Respectfully,



Rocco R. Sgarro

RRS/kw

- Enclosures:
- 1) Responses to Environmental Requests for Additional Information No. 5026, 5033, & 5035, Bell Bend Nuclear Power Plant
 - 2) RAI No. 5026 EIS USACE-15 Cultural Resources Review Letters, Bell Bend Nuclear Power Plant
 - 3) RAI No. 5035 EIS 9.3-25 Reference Collection, Bell Bend Nuclear Power Plant, (Compact Disc)

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Enclosure 1

Responses to Environmental Requests for Additional Information
No. 5026, 5033, & 5035
Bell Bend Nuclear Power Plant

RAI No. 5026 EIS USACE-15

Summary: *This RAI is related to the second alternative sites audit information need CR-10 (USACE-7).*

Provide a clearance letter from the PA-SHPO regarding historic and archeological impacts on the BBNPP site; SHPO clearance and any requirement from SHPO for mitigation to address adverse impacts will affirm the required compliance under Section 106 of the NHPA.

Full Text (Supporting Information): Section 5.1.3 of Part 3 of the ER states: "Based on results of cultural resources investigations conducted to date, it is likely that there will be adverse impacts to cultural resources from construction."

Response:

Between 2007 and 2010, Phase Ia cultural resources investigations (archaeological/geomorphological reconnaissance and architectural survey) and a series of three Phase Ib surveys (initial, supplemental, and second supplemental) were performed. A combined Phase I Cultural Resources Investigation and Phase II National Register Site evaluation was conducted on the additional property purchased for the Plot Plan Change (i.e. relocation of the power block). Technical reports or management summaries providing results of the Phase Ia study, the initial and supplemental Phase Ib surveys, and the architectural survey have been reviewed by the Pennsylvania Historical and Museum Commission (PHMC); reports presenting results of the Phase II studies and the second supplemental Phase Ib survey are pending PHMC review. PHMC comments, including concurrence on National Registry of Historic Places (NRHP)-eligibility recommendations and requirements for additional work, are provided in the following review letters (see Enclosure 2):

- June 5, 2008, Letter from Douglas McLearn (PHMC/BHP) to John Price (UniStar), ER 81-0658-079-H, NRC: Proposed Bell Bend Nuclear Power Plant, Salem Township, Luzerne County, Phase IA Cultural Resources Survey
- March 2, 2009, Letter from Douglas McLearn (PHMC/BHP) to George Wrobel (UniStar), ER# 81-0658-079-N, Management Summary, Phase Ib Cultural Resources Investigation, Bell Bend Nuclear Power Plant, Salem Township, Luzerne County, Pennsylvania
- March 23, 2009, Letter from Douglas McLearn (PHMC/BHP) to T. L. Harpster (PPL Bell Bend, LLC), ER# 81-0658-079-Q, Management Summary, Supplemental Phase Ib Cultural Resources Investigation, 263 Acres of Additional Project Area Bell Bend Nuclear Power Plant, Salem Township, Luzerne County, Pennsylvania
- June 11, 2009, Letter from Douglas McLearn (PHMC/BHP) to Rocco Sgarro (PPL Bell Bend, LLC), ER# 81-0658-079-T, Scope of Work Proposal for Phase II Archaeological Evaluations and Assessment of Effects to Historic Resources, Bell Bend Nuclear Power Plant, Salem Township, Luzerne County, Pennsylvania
- March 17, 2010, Letter from Andrea MacDonald (PHMC/BHP) to Hannah Cole (GAI), ER# 81-0658-079-U, NRC: Bell Bend Nuclear Power Plant Phase IB Investigations Management Summary: Historic Resources, Conyngham, Nescopeck, Salem Townships, Luzerne County

Phase II investigations of seven potentially eligible archaeological sites were conducted between July and November 2009. Based on these investigations, all seven sites are recommended as Not Eligible for listing in the NRHP and no further work is recommended at

these localities. The results of the Phase II study, as well as results of additional architectural investigations requested by the PHMC, are presented in a Phase I/II Technical Report which is pending PHMC review.

A Second Supplemental Phase Ib survey, performed in 2010, recommended that one identified archaeological site is potentially eligible for listing in the NRHP. Results of this survey are provided in an Addendum Report which is also pending PHMC review.

Following PHMC review and concurrence on eligibility recommendations provided in these reports, additional archaeological investigations (e.g., Phase II) will be performed, as required, and an assessment of effects (aka criteria of effects) study will be conducted to evaluate proposed project impacts to NRHP-eligible architectural and historical resources.

Upon completion of the assessment of effects study and additional Phase II investigations, as required, consultation with the PHMC will be conducted to identify measures to avoid, minimize or mitigate adverse effects to NRHP-eligible resources per Section 106 of the NHPA. It is anticipated that this consultation will result in documentation of PHMC concurrence on the effects evaluation and mitigation. This clearance is not anticipated until mid-2012.

Reports provided to PHMC:

- Final Letter Report Phase 1a Cultural Resources Reconnaissance of PPL Lands in the Vicinity of Susquehanna Steam Electric Station, Luzerne County, Pennsylvania, June 2007.
- Technical Report Phase 1a Cultural Resources Reconnaissance, Berwick, PA, NNP-1 Areas 6, 7, 8 and Confers Lane Parcel, Luzerne County, Pennsylvania, February 2008.
- Management Summary Phase Ib Cultural Resources Investigation, Bell Bend Nuclear Power Plant, Luzerne County, Pennsylvania, ER 81-0658-079, September 2008.
- Management Summary, Supplemental Phase Ib Cultural Resources Investigations, Bell Bend Nuclear Power Plant, Luzerne County, Pennsylvania, ER 81-0658-079, November 17, 2008.
- Addendum Report Second Supplemental Phase 1b Cultural Resources Investigation Power Block Relocation, Bell Bend Nuclear Power Plant, Luzerne County, Pennsylvania, October 8, 2010.
- Phase I Cultural Resources Investigations and Phase II National Register Site Evaluations Technical Report, Bell Bend Nuclear Power Plant, Luzerne County, Pennsylvania, October 11, 2010¹.

¹Contains correspondence with PHMC.

COLA Impact:

No changes to the BBNPP COLA ER are required as a result of this RAI response.

RAI No. 5033 EIS 9.3-38

Summary: *This RAI is related to the second alternative sites audit information need AE-18.*

Montour Alternative Site. Clarify whether or not there would be impacts to Mahoning Creek. If there would be impacts to the creek or its tributaries, identify them and their causes.

Full Text (Supporting Information): This is a follow up question based on the response provided to AE-18 in the July 9, 2010 submittal (ML101930519). The response stated that the existing 230-kV line does not cross Mahoning Creek and that right of way (ROW) expansion also would not cross the creek, which implies there would be no impacts to the creek. However, ER Table 9.3-14 lists about 800 lf of impacts to the creek and its tributaries. The creek and its watershed are located well south of the Montour site so it is not clear what would be the source of the listed impacts.

Response:

The existing 230-kV transmission line that would be expanded for the Montour site's conceptual transmission line corridor runs generally south/southeast from the Montour site and does cross the Mahoning Creek watershed. The expanded corridor adjacent to this existing 230-kV transmission line crosses two streams in the Mahoning Creek watershed, one of which is identified as Mahoning Creek on some maps but as an unnamed tributary on other maps. The information presented in ER Table 9.3-14 was based on GIS mapping that identified the one stream as Mahoning Creek rather than as an unnamed tributary and the other as an unnamed tributary. The response provided to Information Need AE-18 in the July 9, 2010, submittal (ML101930519) was based on review of hard copy maps that identified both streams as unnamed headwater tributaries of Mahoning Creek. The response to Information Need AE-18 would have been more complete if it had identified the potential impact to the tributaries of Mahoning Creek.

The conceptual transmission line corridor adjacent to the existing 230-kV transmission line crosses the two streams at acute angles, resulting in potential stream impacts greater than the width of the proposed right-of-way at each crossing (300 linear feet (lf) at each). Based on the angle of crossing, the two crossings would include 800 lf of stream. The impacts reported were based on clearing up to this amount of stream to construct the new right-of-way, as a conservative estimate of potential impacts. However, because this is a conceptual route for the transmission corridor, if this alternative site were selected for construction of a new plant, the corridor would be designed to avoid or minimize to the extent possible any impacts to the streams in the Mahoning Creek watershed and associated ecological and terrestrial species; therefore, actual impacts to streams in the Mahoning Creek watershed would likely be significantly less than 800 lf.

COLA Impact:

No changes to the BBNPP COLA ER are required as a result of this RAI response.

RAI No. 5035 EIS 9.3-25

Summary: *This RAI is related to the second alternative sites audit information need G-1.*

Provide any references (electronic format if available) not included in previous submissions to the NRC.

Full Text (Supporting Information): None.

Response:

The attached list contains the references for the Bell Bend Nuclear Power Plant Environmental Report Section 9.3 that were added on November 25, 2009 (see BNP-2009-371, ML093380312) and not previously provided to the NRC at the environmental audit in April 2009. All of these references are publicly available. Of these new references, the following five references are books that are copyright protected and not available electronically. The Rhoads and Block, 2007, reference was provided for review during the June 2010, alternative sites visits, at NRC request. The other four references can be purchased or provided for NRC review upon request.

- **Page, L.M. and B.M. Burr, 1991.** Peterson Field Guides Freshwater Fishes.
- **Peterson, Roger Tory, 2002.** Birds of Eastern and Central North America. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.
- **Rhoads, A.F. and T.A. Block, 2007.** The Plants of Pennsylvania, Second Edition. University of Pennsylvania Press. 1042pp. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.
- **Sibley, D.A., 2000.** The Sibley Guide to Birds of Eastern North America, The Audubon Society, 490 p. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.
- **Whitaker, John O. Jr. and William J. Hamilton Jr., 1998.** Mammals of the Eastern United States, Third Edition. Cornell University Press, Ithaca.

The following reference from the attached list was provided in the PPL Bell Bend, LLC November 25, 2009, letter to the NRC (BNP-2009-371, ML093380312):

UniStar, 2009. Bell Bend Nuclear Power Plant Alternative Site Evaluation, UniStar Nuclear Energy, September.

The remaining references in the attached list are provided on a CD (Enclosure 3), excluding the NRC regulations and guidance references.

For clarity, a note regarding the copyright will be added to the Page and Burr, 1991; Peterson, 2002; and Whitaker and Hamilton, 1998; references in a future revision of the COLA.

See attached list for Data Sources.

COLA Impact:

BBNPP COLA ER Section 9.3.4 will be revised, as follows, in a future revision of the COLA:

Page, L.M. and B.M. Burr, 1991. Peterson Field Guides Freshwater Fishes. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.

Peterson, Roger Tory, 2002. Birds of Eastern and Central North America. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.

Whitaker, John O. Jr. and William J. Hamilton Jr., 1998. Mammals of the Eastern United States, Third Edition. Cornell University Press, Ithaca. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.

Data Sources:

New References Added to the Bell Bend Nuclear Power Plant Environmental Report Section 9.3 November 25, 2009, and not previously provided to the NRC.

CFR, 2007. "Environmental Effect of Renewing the Operating License of a Nuclear Power Plant," Code of Federal Regulations, Title 10 Part 51, Appendix B to Subpart A, 2007 Edition.

City Data, 2009. City-Data.com, Montour County, Pennsylvania Detailed Profile, Website: http://www.city-data.com/county/Montour_County-PA.html, Date accessed: October 7, 2009.

Coal Township, 2009. Zoning of Seedco Industrial Park Site, Personal Communication with Charles Donaldson/CH2M HILL from Susan Burns of Coal Township on July 24, 2009.

Columbia County, 2009. History of Columbia County, Website: <http://www.columbiapa.org/history/index.php>, Date accessed: October 10, 2009.

Cornell Laboratory of Ornithology, 2009. All About Birds: Wilson's Snipe Life History. Website: http://www.allaboutbirds.org/guide/Wilsons_Snipe/lifehistory, Date accessed: October 12, 2009.

Delaware Geographic Data Committee, 1998. Delaware State Parks, Delaware Division of Parks and Recreation, Geospatial Data from the Delaware Geographic Data Committee, Website: <http://stateplanning.delaware.gov/dgdc/>, Date accessed: July 28, 2009.

DOL, 2008. Bureau of Labor Statistics, Occupational Employment Statistics - May 2008 Metropolitan and Nonmetropolitan Area Estimates, Website: http://www.bls.gov/oes/current/county_links.htm, Date accessed: July 1 and 23, 2009.

ESRI, 2005. HydroMetadata. Website <http://www.esri.com/metadata/esriprof80.html>.

ESRI, 2009a. Railroads (layer), Metadata, 2005 Edition, Website: <http://www.esri.com/metadata/esriprof80.html>.

ESRI, 2009b. U.S. Census Tracts, Metadata, 2008 Edition, Website: <http://www.esri.com/data/data-maps/index.html>.

ESRI, 2009c. Counties (Layer), Metadata, 2005 Edition, Website: <http://www.esri.com/metadata/esriprof80.html>.

ESRI, 2009d. U.S. Populated Place Areas (Layer), Metadata, 2008 Edition, Website:
<http://www.esri.com/data/data-maps/index.html>.

FEMA, 2007. HAZUS-MH MR3 (v1.3), September 2007, DVD available at Website:
<http://www.fema.gov/plan/prevent/hazus>.

Google Earth, 2009. National Register of Historic Places, Listed Properties in Google Earth, Northeast Region, Website: <http://nrhp.focus.nps.gov/natreg/docs/Download.html>, Date accessed: July 26, 2009.

Greater Hazleton Can Do, 2009. Humboldt Industrial Park Brochure, Website:
http://www.hazletoncando.com/downloads/HIP_BROCHURE.pdf, Date accessed: July 26, 2009.

Hazle Township, 2005. Zoning Department, Zoning Map, 2005, Communication with CH2M HILL via facsimile from Hazle Township on July 24, 2009.

Luzerne County, 2009a. History of Luzerne County, Website:
http://www.luzernecounty.org/living/history_of_luzerne_county, Date accessed: October 10, 2009.

Luzerne County, 2009b. Luzerne County Living, Dupont Borough, Website:
http://www.luzernecounty.org/living/municipalities/dupont_borough, Date accessed: October 14, 2009.

Luzerne County, 2009c. Luzerne County Living, Township of Salem, Website:
http://www.luzernecounty.org/living/municipalities/township_of_salem, Date accessed: October 14, 2009.

Luzerne County EMA, 2009. Emergency Management, Website:
http://www.luzernecounty.org/county/departments_agencies/emergency_management, Date accessed: July 26, 2009.

MCPC, 2009. Montour County Planning Commission, Montour County Comprehensive Plan, April.

MDNR, 1999. Swpldn - DNR Lands, Geospatial Data from the Maryland Department of Natural Resources, Website: www.msgic.state.md.us/techtool, Date accessed: May 20, 2009.

MDNR, 2009. Common Map Turtle (*Graptemys geographica*). Website:
http://www.michigan.gov/dnr/0,1607,7-153-10370_12145_12201-60652--,00.html, Date accessed: October 12, 2009.

Medaille College, 2009. Shorthead Gartersnake. Website:
http://www.medaille.edu/vmacer/herps_snakes_shortheadgarter.htm, Date accessed: October 9, 2009.

Montour County, 1972. Montour County Zoning Map, 1972.

Montour County, 2009. History of Montour County, Website:
<http://www.montourco.org/montour/cwp/view.asp?a=3&Q=404239&montourNav=|>, Date accessed: October 10, 2009.

Montour County EMA, 2009. Emergency Management Agency, Website:
<http://www.montourema.org/home.html>, Date accessed: July 26, 2009.

National Atlas of the United States, 2005. Federal Lands of the United States, Geospatial Data from the National Atlas of the United States, Website: <http://nationalatlas.gov/atlasftp.html>, Date accessed: May 20, 2009.

NatureServe, 2009a. An Online Encyclopedia of Life – *Lampsilis cariosa*, Website: <http://www.natureserve.org/explorer/index.htm>, Date accessed: October 9, 2009.

NatureServe, 2009b. An Online Encyclopedia of Life – *Anodonta implicata*, Website: <http://www.natureserve.org/explorer/index.htm>, Date accessed: October 12, 2009.

NatureServe, 2009c. An Online Encyclopedia of Life – *Scaphiopus holbrookii*, Website: <http://www.natureserve.org/explorer/index.htm>, Date accessed: October 13, 2009.

NJDEP, 1995. NJDEP State Owned, Protected Open Space and Recreation Areas in New Jersey (Version 200812), Geospatial Data from the NJDEP GIS - Bureau of Geographic Information Systems, Website: <http://www.state.nj.us/dep/gis>, Date accessed: July 28, 2009.

Northumberland County, 2009. Northumberland County History, Website: <http://www.northumberlandco.org/default.asp?ild=JKDHH>, Date accessed: October 10, 2009.

Northumberland County Department of Public Safety, 2009. Emergency Management Agency, Website: <http://www.publicsafety.norriycopa.net/>, Date accessed: July 26, 2009.

NPS, 2009. U.S. Department of the Interior (DOI), Mandatory Class I Areas Map, Website: <http://www.nature.nps.gov/air/maps/images/ClassIAreas.jpg>, Date accessed: June 17, 2009.

NRC, 1999. Standard Review Plans for Environmental Reviews for Nuclear Power Plants, NUREG-1555, Nuclear Regulatory Commission, October.

NRC, 2004. Procedural Guidance for Preparing Environmental Assessments and Considering Environmental Issues in Appendix D. NRR Office Instruction LIC-203, Revision 1. Office of Nuclear Reactor Regulation. May.

NRHP, 2009a. National Park Service, The National Register of Historic Places, Luzerne County, Website: <http://nrhp.focus.nps.gov/natreghome.do>, Date accessed: July 24, 25 and 26, 2009.

NRHP, 2009b. National Park Service, The National Register of Historic Places, Columbia County, Website: <http://nrhp.focus.nps.gov/natreghome.do>, Date accessed: July 24, 25 and 26, 2009.

NRHP, 2009c. National Park Service, The National Register of Historic Places, Montour County, Website: <http://nrhp.focus.nps.gov/natreghome.do>, Date accessed: July 24, 25 and 26, 2009.

NRHP, 2009d. National Park Service, The National Register of Historic Places, Northumberland County, Website: <http://nrhp.focus.nps.gov/natreghome.do>, Date accessed: July 24, 25 and 26, 2009.

NYDEC, 2009. Northern Cricket Frog Fact Sheet, Website: <http://www.dec.ny.gov/animals/7120.html>, Date accessed: October 12, 2009.

Ohio DNR, 2009a. A to Z Species Guide: Blanding's Turtle, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/blandingsturtle/tabid/6560/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009b. A to Z Species Guide: Eastern Massasauga, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/easternmassasauga/tabid/6610/Default.aspx, Date accessed: October 12, 2009.

Ohio DNR, 2009c. A to Z Species Guide: Kirtland's Snake, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/kirtlandssnake/tabid/6666/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009d. A to Z Species Guide: Mountain Chorus Frog, Website, http://www.ohiodnr.com/Home/species_a_to_z/SpeciesGuideIndex/mountainchorusfrog/tabid/6689/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009e. A to Z Species Guide: Northern Leopard Frog, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/northernleopardfrog/tabid/6702/Default.aspx, Date accessed: October 12, 2009.

Ohio DNR, 2009f. A to Z Species Guide: Queensnake, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/queensnake/tabid/6728/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009g. A to Z Species Guide: Rough Green Snake, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/roughgreensnake/tabid/6745/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009h. A to Z Species Guide: Spotted Turtle. Website: http://www.dnr.state.oh.us/Home/species_a_to_z/AZReptilesandAmphibians/tabid/17914/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009i. A to Z Species Guide: Western Chorus Frog, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/westernchorusfrog/tabid/6785/Default.aspx, Date accessed: October 12, 2009.

Ohio DNR, 2009j. A to Z Species Guide: Wood Turtle, Website, http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/woodturtle/tabid/6796/Default.aspx, Date accessed: October 9, 2009.

Ohio DNR, 2009k. A to Z Species Guide: Jefferson Salamander, Website: http://www.dnr.state.oh.us/Home/species_a_to_z/SpeciesGuideIndex/jeffersonsalamander/tabid/6663/Default.aspx, Date accessed: October 9, 2009.

PA DCNR, 2009. PA DCNR State Parks, Geospatial Data from the Pennsylvania Spatial Data Access, Website: <http://www.pasda.psu.edu/default.asp>, Date accessed: July 28, 2009.

PADEP, 2009a. Pennsylvania Department of Environmental Protection, eMapPA, Website: <http://www.emappa.dep.state.pa.us/emappa/viewer.htm>, Date accessed: July 24, 2009.

PADEP, 2009b. Pennsylvania Department of Environmental Protection, eMapPA, Website: <http://www.emappa.dep.state.pa.us/emappa/viewer.htm>, Date accessed: July 24, 2009.

PADEP, 2009c. Pennsylvania Department of Environmental Protection, Water Standards and Facility Regulation Performance Measures Glossary, Website:

<http://www.depweb.state.pa.us/watersupply/cwp/view.asp?a=1450&q=512599#POTW>, Date accessed: October 9, 2009.

PADEP, 2009d. Pennsylvania Department of Environmental Protection, Water Standards and Facility Regulation, Wastewater Facilities and Permits, Municipal Sewage NPDES Permits Excel Spreadsheet, Updated June 2009, Website:

<http://www.depweb.state.pa.us/watersupply/cwp/view.asp?a=1450&q=535524#spreadsheet>, Date accessed: October 9, 2009.

PADEP, 2009e. Pennsylvania Department of Environmental Protection, eMapPA, Website: <http://www.emappa.dep.state.pa.us/emappa/viewer.htm>, Date accessed: July 24, 2009.

PADEP, 2009f. Pennsylvania Department of Environmental Protection, eMapPA, Website: <http://www.emappa.dep.state.pa.us/emappa/viewer.htm>, Date accessed: July 24, 2009.

PADOT, 2009. Pennsylvania Railroad Map – January 2009. Bureau of Rail Freights, Ports & Waterways, Center for Program Development and Management, Bureau of Planning and Research.

PAGC, 2004a. Pennsylvania Game Commission. Black Bear Wildlife Notes, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=458&q=150412>, Date accessed: October 6, 2009.

PAGC, 2004b. Pennsylvania Game Commission. Ring-necked Pheasant Wildlife Notes, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=458&q=150811>, Date accessed: October 7, 2009.

PAGC, 2004c. Pennsylvania Game Commission. Whitetailed Deer Wildlife Notes, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=458&q=150818>, Date accessed: October 9, 2009.

PAGC, 2007. Pennsylvania Game Commission. Wild Turkey Wildlife Notes, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=458&q=150678>, Date accessed: October 6, 2009.

PAGC, 2009a. Pennsylvania Game Commission. 2008-09 Deer Harvest, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=493&q=159281>, Date accessed: October 7, 2009.

PAGC, 2009b. Pennsylvania Game Commission. 2008 Bear Harvest, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=493&q=159281>, Date accessed: October 7, 2009.

PAGC, 2009c. Pennsylvania Game Commission. 2007 Turkey Harvests, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=493&q=174898>, Date accessed: October 7, 2009.

PAGC, 2009d. Pennsylvania Game Commission. Estimated Harvest by Species, 1990-Present, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=493&q=159239>, Date accessed: October 7, 2009.

PAGC, 2009e. Pennsylvania Game Commission. Pennsylvania's Wildlife Action Plan, Website: <http://www.pgc.state.pa.us/pgc/cwp/view.asp?a=496&q=162067>, Date accessed: October 9, 2009.

PA GCLGS, 2006. Pennsylvania Governor's Center for Local Government Services, 2006 Statewide Municipal Financial Information, Website: <http://munstatspa.dced.state.pa.us/Reports.aspx>, Date accessed: October 7, 2009.

Page, L.M. and B.M. Burr, 1991. Peterson Field Guides Freshwater Fishes.

PEMA, 2009. PEMA Contact Information, Website: <http://www.portal.state.pa.us/portal/server.pt?open=512&objID=4731&mode=2>, Date accessed: July 27, 2009.

Peterson, Roger Tory, 2002. Birds of Eastern and Central North America.

PFBC, 2002. Pennsylvania Fish and Boat Commission, Lizards and Skinks of Pennsylvania. Website: http://www.fish.state.pa.us/amp_rep.htm, Date accessed: October 9, 2009.

PFBC, 2004. Pennsylvania Fish and Boat Commission, Pennsylvania Angler and Boater Magazine, January-February 2004: The Timber Rattlesnake, Website: http://www.fish.state.pa.us/amp_rep.htm, Date accessed: October 9, 2009.

PFBC, 2009a. Pennsylvania Fish and Boat Commission, Popular Sportfishes of Pennsylvania, Website: <http://www.fish.state.pa.us/fishes.htm>, Date accessed: October 9, 2009.

PFBC, 2009b. Pennsylvania Fish and Boat Commission, Trout Stocking Events in Northumberland County from 3/1/2009 to 2/28/2010, Website: http://pfbc.state.pa.us/pfbc_webgis/TroutStockingDetails.aspx, Date accessed: October 9, 2009.

PJM, 2008b. PJM Transmission Grid, Website: <http://www.pjm.com/documents/maps.aspx>.

Platts, 2009. Electric Transmission Lines (Layers), 2008 Metadata, Website: <http://www.platts.com/Analytic%20Solutions/Custom/gis/index.xml>, Date accessed: June 22, 2009.

PNHP, 2009a. Pennsylvania Natural Heritage Program, Invertebrate Species List Montour County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009b. Pennsylvania Natural Heritage Program, Plant Species List Montour County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009c. Pennsylvania Natural Heritage Program, Vertebrate Species List Montour County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009d. Pennsylvania Natural Heritage Program, Rank and Status Definitions, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009e. Pennsylvania Natural Heritage Program, Invertebrate Species Luzerne County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009f. Pennsylvania Natural Heritage Program, Plant Species Luzerne County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009g. Pennsylvania Natural Heritage Program, Vertebrate Species Luzerne County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009h. Species of Concern – Eastern Mudminnow, Website: <http://www.dcnr.state.pa.us/wrcp/emudmin.aspx>, Date accessed: October 12, 2009.

PNHP, 2009i. Pennsylvania Natural Heritage Program, Invertebrate Species List Northumberland County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009j. Pennsylvania Natural Heritage Program, Plant Species List Northumberland County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009k. Pennsylvania Natural Heritage Program, Vertebrate Species List Northumberland County, Website: <http://www.naturalheritage.state.pa.us>, Date accessed: October 8, 2009.

PNHP, 2009l. Species of Concern – Greenfloater, Website: <http://www.dcnr.state.pa.us/wrcp/greenfloat.aspx>, Date accessed: October 13, 2009.

PNHP, 2009m. Species of Concern - Checkered Sculpin (*Cottus sp.n.*), Website: http://mddnr.chesapeakebay.net/mbss/SA_spec6.cfm?species=Checkered%20sculpin, Date accessed: October 19, 2009.

PPL, 2006. Applicant's Environmental Report SSES Operating License Renewal Stage, Pennsylvania Power and Light, September.

Rhoads, A.F. and T.A. Block, 2007. The Plants of Pennsylvania, Second Edition. University of Pennsylvania Press. 1042pp. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.

Sibley, D.A., 2000. The Sibley Guide to Birds of Eastern North America, The Audubon Society, 490 p. Note: Copyright protected. Electronic version not available for printing. Reference available for purchase.

The Pennsylvania Code, 2007. Title 25 Environmental Protection, Part 1 Department of Environmental Protection, Subpart C Protection of Natural Resources, Article II Water Resources, Chapter 93 Water Quality Standards, March.

The Pennsylvania Code, 2009. Conservation of Pennsylvania native Wild Plants. Website: <http://www.pacode.com/secure/data/017/chapter45/chap45toc.html>. Date accessed: October 15, 2009.

TxPW, 2009. Texas Parks and Wildlife Department. Southern Leopard Frog (*Rana sphenoccephala*). Website: <http://www.tpwd.state.tx.us/huntwild/wild/species/southernleopardfrog/>, Date accessed: October 12, 2009.

UniStar, 2009. Bell Bend Nuclear Power Plant Alternative Site Evaluation, UniStar Nuclear Energy, September.

USCB, 2000a. 2000 Tribal Census Tracts, Geospatial Data from the U.S. Census, Department of Commerce, Geography Division, Website: <http://www.census.gov/geo/www/cob/tt2000.html>, Date accessed: July 1, 2009.

USCB, 2000b. Salem Township, Website: <http://www.census.gov/>, Date accessed: October 14, 2009.

USCB, 2000c. Anthony Township, Website: <http://www.census.gov/>, Date accessed: October 14, 2009.

USCB, 2000d. Census 2000 Summary File 3: Census of Population and Housing 2000; U.S. Department of Commerce Economic and Statistics Administration - U.S. Census Bureau. DVD Issue 2003.

USCB, 2000e. Hazle Township, Website: <http://www.census.gov/>, Date accessed: October 14, 2009.

USCB, 2000f. Coal Township, Website: <http://www.census.gov/>, Date accessed: October 14, 2009.

USCB, 2009a. U.S. Census Bureau, American FactFinder, T1. Population Estimates; Data Set: 2007 Population Estimates, Website: <http://factfinder.census.gov>, Date accessed: October 13, 2009.

USCB, 2009b. U.S. Census Bureau, American FactFinder, QT-P32 Income Distribution in 1999 of Households and Families, Census 2000 Summary File 3, Montour County, Pennsylvania, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USCB, 2009c. U.S. Census Bureau, American FactFinder, Table H85 Median Value (Dollars) for all Owner-Occupied Housing Units, Census 2000 Summary File 3, Montour and Northumberland Counties, Pennsylvania, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USCB, 2009d. U.S. Census Bureau, American FactFinder, Comparison Profile, Pennsylvania, Selected Housing Characteristics: 2008, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USCB, 2009e. U.S. Census Bureau, Housing and Household Economic Statistics Division, September 29, 2009, Website: <http://www.census.gov/hhes/www/poverty/povdef.html#2>, Date accessed: October 20, 2009.

USCB, 2009f. U.S. Census Bureau, American FactFinder, QT-P32 Income Distribution in 1999 of Households and Families, Census 2000 Summary File 3, Luzerne County, Pennsylvania, Website: <http://factfinder.census.gov>, Date accessed: October 14, 2009.

USCB, 2009g. U.S. Census Bureau, American FactFinder, Comparison Profile, Luzerne County, Pennsylvania, Selected Economic Characteristics: 2008, Website: <http://factfinder.census.gov>, Date accessed: October 14, 2009.

USCB, 2009h. U.S. Census Bureau, American FactFinder, Comparison Profile, Luzerne County, Pennsylvania, Selected Housing Characteristics: 2008, Website: <http://factfinder.census.gov>, Date accessed: October 14, 2009.

USCB, 2009i. U.S. Census Bureau, American FactFinder, Table H85 Median Value (Dollars) for all Owner-Occupied Housing Units, Census 2000 Summary File 3, Luzerne County, Pennsylvania, Website: <http://factfinder.census.gov>, Date accessed: October 14, 2009.

USCB, 2009j. U.S. Census Bureau, American FactFinder, QT-P32 Income Distribution in 1999 of Households and Families, Census 2000 Summary File 3, Northumberland County, Pennsylvania, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USCB, 2009k. U.S. Census Bureau, American FactFinder, Comparison Profile, Northumberland County, Pennsylvania, Selected Economic Characteristics: 2008, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USCB, 2009l. U.S. Census Bureau, American FactFinder, Comparison Profile, Northumberland County, Pennsylvania, Selected Housing Characteristics: 2008, Website: <http://factfinder.census.gov>, Date accessed: October 8, 2009.

USDA, 2009. Natural Resources Conservation Service, U.S. Department of Agriculture, Soil Survey Geographic (SSURGO) Database for Luzerne, Montour, Northumberland, and Schuylkill Counties, Pennsylvania; Website: <http://soils.usda.gov/survey/geography/ssurgo/>; Date accessed: October 14, 2009.

USEPA, 2001. Decision Rationale Total Maximum Daily Loads Shamokin Creek Watershed For Acid Mine Drainage Affected Segments.

USEPA, 2009a. "EPA Green Book," Website: <http://www.epa.gov/air/oaqps/greenbk/ancl.html>, Date accessed: July 21, 2009.

USEPA, 2009b. U.S. Environmental Protection Agency, Safe Drinking Water Information System (SDWIS), List of Water Systems in SDWIS, Community Water Systems, Montour County, Pennsylvania, Website: <http://oaspub.epa.gov>, Date accessed: October 9, 2009.

USEPA, 2009c. U.S. Environmental Protection Agency, Safe Drinking Water Information System (SDWIS), List of Water Systems in SDWIS, Community Water Systems, Luzerne County, Pennsylvania, Website: <http://oaspub.epa.gov>, Date accessed: October 14, 2009.

USEPA, 2009d. U.S. Environmental Protection Agency, Safe Drinking Water Information System (SDWIS), List of Water Systems in SDWIS, Community Water Systems, Northumberland County, Pennsylvania, Website: <http://oaspub.epa.gov>, Date accessed: October 9, 2009.

USFWS, 2008b. National Wetlands Inventory Download Seamless Wetlands Data by State. Website: <http://www.fws.gov/wetlands/data/DataDownloadState.html>, Date accessed: July 1, 2009.

USFWS, 2009. U.S. Fish and Wildlife Service, National Wetland Inventory, CONUS_wet_poly, Classification of Wetlands and Deepwater Habitats of the United States, Washington, DC, FWS/OBS-79/31, National Wetlands Metadata, Website: <http://www.fws.gov/wetlands/Data/DataDownloadState.html>, Date access: June 17, 2009.

USGS, 1975. Shamokin Quadrangle, Pennsylvania, 7.5 Minute Series (Topographic).

USGS, 1983. Washingtonville Quadrangle, Pennsylvania, 7.5 Minute Series (Topographic).

USGS, 1989. Berwick Quadrangle, Pennsylvania, 7.5 Minute Series (Topographic).

USGS, 2009a. USGS 01536500 Susquehanna River at Wilkes-Barre, Pennsylvania, Website: http://waterdata.usgs.gov/nwis/dv?cb_00060=on&format=gif_default&begin_date=1999-07-24&end_date=2009-07-24&site_no=01536500&referred_module=sw, Date accessed: July 25, 2009.

USGS, 2009b. USGS 01553500 West Branch Susquehanna River at Lewisburg, Pennsylvania, Website:

http://waterdata.usgs.gov/nwis/dv?cb_00060=on&format=html&begin_date=1999-07-24&end_date=2009-07-24&site_no=01553500&referred_module=sw, Date accessed: July 25, 2009.

USGS, 2009c. Nonindigenous Aquatic Species FactSheet: Corbicula fluminea. Revised 6/22/2009. Downloaded PDF Document:

<http://nas.er.usgs.gov/queries/FactSheet.asp?speciesID=92>, Date accessed: October 15, 2009.

USGS, 2009d. Nonindigenous Aquatic Species FactSheet: Dreissena polymorpha. Revised 8/29/2009. Downloaded PDF Document:

<http://nas.er.usgs.gov/queries/FactSheet.asp?speciesID=5>, Date accessed: October 15, 2009.

USGS, 2009e. Geographic Names Information System (GNIS) for Pennsylvania, Search Criteria: Airport, 2009. Website: <http://www.esri.com/metadata/esriprof80.html>.

USGS, 2009f. Geographic Names Information System (GNIS) for Pennsylvania, Search Criteria: Non-Populated Places/Parks, 2009. Website:

<http://www.esri.com/metadata/esriprof80.html>.

USGS, 2009g. USGS 01554000 Susquehanna River at Sunbury, Pennsylvania, Website:

http://waterdata.usgs.gov/nwis/dv?cb_00060=on&format=html&begin_date=1999-07-25&end_date=2009-07-25&site_no=01554000&referred_module=sw, Date accessed: July 26, 2009.

VADGIF, 2009a. Bog turtle species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=030061>, Date accessed: October 9, 2009.

VADGIF, 2009b. Eastern box turtle species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=030068>, Date accessed: October 12, 2009.

VADGIF, 2009c. Eastern hellbender species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=020020>, Date accessed: October 12, 2009.

VADGIF, 2009d. Eastern ribbon snake species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=030045>, Date accessed: October 9, 2009.

VADGIF, 2009e. Four-toed salamander species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=020029>, Date accessed: October 12, 2009.

VADGIF, 2009f. Fowler's Toad species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=020062>, Date accessed: October 9, 2009.

VADGIF, 2009g. Mountain earth snake species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=030048>, Date accessed: October 9, 2009.

VADGIF, 2009h. New Jersey chorus frog species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=020072>, Date accessed: October 12, 2009.

VADGIF, 2009i. Northern Red-bellied cooter species description, Website:

<http://www.dgif.virginia.gov/wildlife/information/?s=030057>, Date accessed: October 12, 2009.

VADGIF, 2009j. Upland chorus frog species description, Website:
<http://www.dgif.virginia.gov/wildlife/information/?s=020018>, Date accessed: October 12, 2009.

Whitaker, John O. Jr. and William J. Hamilton Jr. 1998. Mammals of the Eastern United States, Third Edition. Cornell University Press, Ithaca.

World Port Source, 2009. Ports in Pennsylvania, available at website:
http://www.worldportsource.com/ports/USA_PA.php, accessed July 27, 2009.

Enclosure 2

RAI No. 5026 EIS USACE-15 Cultural Resources Review Letters
Bell Bend Nuclear Power Plant



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

June 5, 2008

John E. Price
UniStar Nuclear Energy
750 E. Pratt Street, 14th floor
Baltimore, MD 21202

**TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER**

Re: ER 81-0658-079-H
NRC: Proposed Bell Bend Nuclear Power Plant
Salem Township, Luzerne County
Phase IA Cultural Resources Survey

Dear Mr. Price:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

We agree with the recommendations of the Phase IA archaeological study and look forward to working with you further as the successive phase of work proceeds.

We have reviewed the preliminary information concerning historic structures in the Area of Potential Effect of this project. Based on this information, no further survey work will be needed on the following properties.

1. Beach Grove Cemetery, Salem Twp., Luzerne County
2. Stone Walls, Bell Bend Rd., Salem Twp., Luzerne County
3. House 65 Bell Bend Rd., Salem Twp., Luzerne County
4. House, 115 Bell Bend Rd., Salem Twp., Luzerne County
5. House, 189 Bell Bend Rd., Salem Twp., Luzerne County
6. House, 193 Bell Bend Rd., Salem Twp., Luzerne County
7. House, 1021 Salem Blvd., Salem Twp., Luzerne County
8. Bell Bend Efficiency Apartments, 1043 Salem Blvd., Salem Twp., Luzerne County
9. House, 1047 Salem Blvd., Salem Twp., Luzerne County
10. House, 1091 Salem Blvd., Salem Twp., Luzerne County
11. House, 1069 Salem Blvd., Salem Twp., Luzerne County
12. Barn & Trailer, 998 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County
13. House, 906 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County

Page 2
J, Price
June 5, 2008

14. House, 809 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County
15. House, 175 E. Cherry Rd., Nescopeck Twp., Luzerne County
16. House, 598 River Rd., Nescopeck Twp., Luzerne County
17. House, 546 River Rd., Nescopeck Twp., Luzerne County
18. House, 520 River Rd., Nescopeck Twp., Luzerne County
19. House, 510 River Rd., Nescopeck Twp., Luzerne County
20. Quarry, River Rd., Nescopeck Twp., Luzerne County
21. Bridge, N. Market St., Salem Twp., Luzerne County

Additional survey information must be supplied for the following properties. Please submit a Historic Resource survey form for the following resources. This form and instructions can be obtained from our website at www.phmc.state.pa.us/bhp.

1. United Reformed and Lutheran Church, Conyngham Twp., Luzerne County
2. Woodcrest, Conyngham Twp., Luzerne County
3. Hummel Farmstead, Salem Twp., Luzerne County
4. Stone Arch Bridge, Salem Twp., Luzerne County
5. Kiliti Farm, Salem Twp., Luzerne County
6. Heller Farm, Salem Twp., Luzerne County
7. North Market Street Bridge, Salem Twp., Luzerne County
8. North Branch of the Pennsylvania Canal in the APE, Salem Twp., Luzerne County
9. Canadian Pacific/Bloomsburg Division of the Delaware, Lackawanna & Western Railway in the APE, Salem Twp., Luzerne County
10. Susquehanna and Tioga Turnpike, Salem Twp., Luzerne County
11. House, 29 Bell Bend Rd., Salem Twp., Luzerne County
12. House, 49 Bell Bend Rd., Salem Twp., Luzerne County
13. Valley View Farm, 1022 Salem Blvd., Salem Twp., Luzerne County
14. Michaels Farm, 4252 N. Market St., Salem Twp., Luzerne County
15. House, 1405 Berwick-Hazleton Highway, Nescopeck Twp., Luzerne County
16. PA Railroad-Sunbury Line/Delaware & Hudson Railroad, Nescopeck Twp., Luzerne County
17. Farm, 950 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County
18. House, 944 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County
19. Farm, 783 Berwick-Hazleton Hwy, Nescopeck Twp., Luzerne County
20. Farm, 212 E. Cherry Rd., Nescopeck Twp., Luzerne County
21. Wapwallopen Historic District, Wapwallopen, Luzerne County
22. Farm, 811 River Rd., Nescopeck Twp., Luzerne County

Page 3
J. Price
June 5, 2008

If you need further information in this matter please consult Susan Zacher at (717) 783-9920.

Sincerely,



Douglas C. McLearn, Chief
Division of Archaeology &
Protection

DCM/smz



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

2 March 2009

George Wrobel
UniStar Nuclear Energy
1503 Lake Road
Ontario, NY 14519

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 81-0658-079-N
Management Summary, Phase Ib Cultural
Resources Investigation, Bell Bend Nuclear Power
Plant, Salem Township, Luzerne County,
Pennsylvania

Dear Mr. Wrobel:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations* (BHP 1991) and the Secretary of the Interior's Guidelines for Archaeological Documentation. This report documents survey of 11 previously unrecorded archaeological sites.

We agree with the recommendation that the following sites are not eligible for inclusion on the National Register of Historic Places: **Site 1 (36Lu278), Site 6 (36Lu282), Site 8 (36Lu284), and Site 11 (36Lu287)**. In our opinion, no further work is necessary at these sites.

We agree with the recommendation that the following sites have potential to be eligible for inclusion on the National Register of Historic Places: **Site 2 (36Lu279), Site 3 (36Lu280), Site 4 (36Lu281), Site 5 (36Lu288), Site 7 (36Lu283), Site 9 (36Lu285), and Site 10 (36Lu286)**. In our opinion, these sites should either be avoided by construction or Phase II archaeological investigations will be necessary.

ER# 81-0658-079-N
2 March 2009
Page 2

If you need further information in this matter please consult Steven McDougal at (717) 772-0923.

Sincerely,



Douglas C. McLearn, Chief
Division of Archaeology &
Protection

cc: B. Munford, GAI Consultants
J. Davis, NRC

DCM/srm



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

23 March 2009

T. L. Harpster
PPL Bell Bend, LLC
38 Bombooy Lane, Suite 2
Berwick, PA 18603

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 81-0658-079-Q
Management Summary, Supplemental Phase Ib
Cultural Resources Investigation, 263 Acres of
Additional Project Area Bell Bend Nuclear Power
Plant, Salem Township, Luzerne County,
Pennsylvania

Dear Mr. Harpster:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations* (BHP 1991) and the Secretary of the Interior's Guidelines for Archaeological Documentation. This report documents archaeological survey of an additional 263 acres added to the original 630 acres reported in the previous Phase Ib Management Summary. No archaeological sites were found as a result of this survey and we agree with the recommendations that no further archaeological work is necessary within this area. We look forward to working with you further in this matter.

If you need further information in this matter please consult Steven McDougal at (717) 772-0923.

Sincerely,

A handwritten signature in black ink, appearing to read "Douglas C. McLearen".

Douglas C. McLearen, Chief
Division of Archaeology &
Protection

cc: B. Munford, GAI Consultants
S. Imboden, NRC

DCM/srm



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

11 June 2009

Rocco R. Sgarro
PPL Bell Bend, LLC
38 Bomboy Lane, Suite 2
Berwick, PA 18603

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 81-0658-079-T
Scope of Work Proposal for Phase II
Archaeological Evaluations and Assessment of
Effects to Historic Resources, Bell Bend Nuclear
Power Plant, Salem Township, Luzerne County,
Pennsylvania

Dear Mr. Sgarro:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

We agree with the proposed scope of work for both the archaeological and historic structures investigations. We look forward to consulting further with you in this matter.

If you need further information in this matter please consult Steven McDougal at (717) 772-0923.

Sincerely,

Douglas C. McLearn, Chief
Division of Archaeology &
Protection

cc: B. Munford, GAI Consultants
S. Imboden, NRC, Mailstop T-6D38M
J. Davis, NRC, Mailstop O-11F1

DCM/srm



Commonwealth of Pennsylvania
 Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
 Commonwealth Keystone Building, 2nd Floor
 400 North Street
 Harrisburg, PA 17120-0093
 www.phmc.state.pa.us

RECEIVED

MAR 22 2010

GAI CONSULTANTS INC.
 PROJ. NO. C080204.10

March 17, 2010

CC: JNT
 BAM
 BR
 CF
 MPK

TO EXPEDITE REVIEW USE
 GHP REFERENCE NUMBER

Hannah L. Cole
 GAI Consultants, Inc.
 385 E. Waterfront Drive
 Homestead, PA 15120-5005

Re: ER 81-0658-079-U
 NRC: Bell Bend Power Plant Phase 1B Investigations Management
 Summary: Historic Resources
 Conyngham, Nescopeck, Salem Townships, Luzerne County

Dear Ms. Cole:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

We concur with the findings of the agency that the following resources are eligible for the National Register of Historic Places.

1. United Reformed & Lutheran Church (Old River Church), Conyngham Township, Luzerne County: This church is an excellent example of the Federal style of architecture and meets National Register criterion C.
2. Woodcrest, 3209 SR 239, Conyngham Township, Luzerne County: This farms is eligible for its local agricultural significance and meets National Register criterion A. It may also be eligible under criterion C, for it architectural significance, however, information and photographs of its interior would need to be submitted to evaluate for this criterion.

We disagree with the findings of the agency concerning the eligibility of the following resource. In our opinion, this resource is eligible for the National Register of Historic Places.

3. North Branch of the Pennsylvania Railroad, Salem Township, Luzerne County: This intact section of the canal reflects the significance of the canal in the mid to late 19th century and therefore is eligible under National Register criterion A.

Page 2
H. Cole
March 17, 2010

We concur with the findings of the agency that the following properties are not eligible for the National Register of Historic Places. Based on the information supplied they are not historically or architecturally significant.

4. Thrash Farm, 783 Berwick-Hazleton Highway, Nescopeck Township, Luzerne County
5. Fortner Farm, 212 E. Cherry Road, Nescopeck Township, Luzerne County
6. Croll Farm, 811 River Road, Nescopeck Township, Luzerne County
7. Raber Farm, 950 Berwick-Hazleton Highway, Nescopeck Township, Luzerne County
8. Michaels Farm, 4252 N. Market Street, Salem Township, Luzerne County
9. Heller Farm, 4210 N. Market Street, Salem Township, Luzerne County
10. Valley View Farm, Salem Township, Luzerne County
11. Susquehanna & Tioga Turnpike, Salem Township, Luzerne County
12. Jameson Farm, 62 Kiliti Road, Salem Township, Luzerne County

We disagree with the findings of the agency concerning the National Register eligibility of the following resources. In our opinion, these railroads are not eligible.

13. Pennsylvania & Sunbury Line of the Delaware and Hudson Railroad, Nescopeck Township, Luzerne County: This line was a connection between major Railroad lines of the Pennsylvania Railroad. While Sunbury, Wilkes-Barre and Hazleton were all major economic centers at the time, it does not make this spur significant nor played a significant role in the transportation of anthracite coal.
14. The Bloomsburg Division of the Delaware, Lackawanna and Western Railroad, Salem Township, Luzerne County: Based on the information provided the significance of this section of the DL&W is unproven. It does not appear to have provided significant competition to other railroad lines or to have been an important carrier in relation to other railroads.

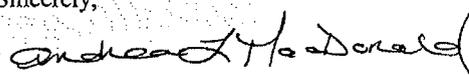
We are unable to complete our review of the following resources until additional information is submitted.

15. Stone Arch Bridge/North Market Street Bridge, Salem Township, Luzerne County: Please supply the correct length measurement of this bridge (see attached guidance for measuring bridges). The submission states that there are only 3 intact stone arch bridges in the county. Our on-line Geographical Information Submission shows that there are over 50 stone arch bridges. Please evaluate this bridge in the context of the bridge survey.
16. Wapwallopen Historic District (potential), Conyngham Township, Luzerne County: Please contact our agency to schedule a site visit to verify the presence and boundaries of a historic district.

Page 3
H. Cole
March 17, 2010

If you need further information in this matter please consult Susan Zacher at (717)
783-9920.

Sincerely,



Andrea L. MacDonald, Chief
Division of Preservation Services

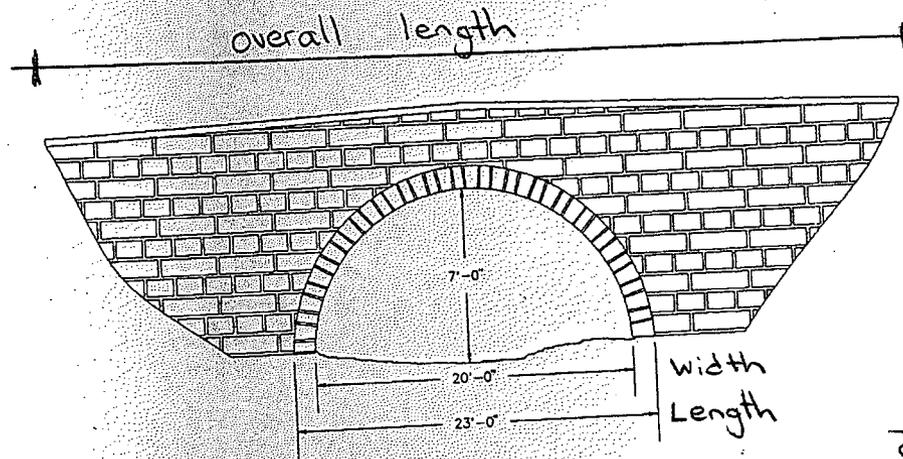
Enclosure
AM/smz

Enclosure for Bridge Measurements

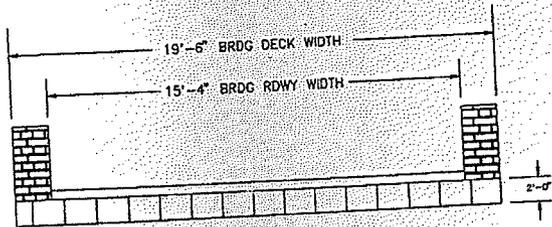
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Stone Arch Bridge (GAI-06) & North
Market St Bridge (GAI-07), Salem Twp, Luzerne Co

Example for
Bridge Measuring



ELEVATION



SECTION "A-A"

LUZERNE COUNTY		ROAD AND BRIDGE DEPARTMENT	
BRIDGE # 42502		NEW COLUMBUS BOROUGH	
DRAWN	GAS	CHECKED	JJB
SCALE	NOTED	DATE	AUGUST-94
			DWG 2/2

Enclosure 3

RAI No. 5035 EIS 9.3-25 Reference Collection
Bell Bend Nuclear Power Plant
(Compact Disc)