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April 27, 2012

Mr. Joseph Buczynski, P.E.  
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Ms. Amy Elliott  
U.S. Army Corps of Engineers - Baltimore District  
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Mr. James Richenderfer, Ph.D., P.G.  
Director, Technical Programs  
Susquehanna River Basin Commission  
1721 N. Front Street  
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**BELL BEND NUCLEAR POWER PLANT  
JOINT PERMIT APPLICATION  
SRBC WATER USE APPLICATIONS  
FINAL AQUATICS STUDY REPORT  
BNP-2012-097      Docket No. 52-039**

- References:
- 1) BNP-2011-207, R.R. Sgarro to J. Buczynski, PADEP, and A. Elliott, USACE, "Joint Permit Application and Request for Water Quality Certification, Rev 1" dated November 21, 2011
  - 2) BNP-2011-126, G. Petrewski to J. Richenderfer, SRBC, "Project Response Status and Filing of Joint Permit Application", dated June 28, 2011.
  - 3) BNP-2010-103, T. Harpster to J. Richenderfer, SRBC, "IFIM and Aquatic Impact Studies Workplan", dated April 29, 2010.

Enclosed for inclusion in the project record(s) is the final report "Potential Effects of the Bell Bend Project on Aquatic Resources and Downstream Users, April 2012" prepared by Normandeau Associates. The report includes the results of 2D hydraulic habitat modeling of an approximate 0.9 mile river reach, and has otherwise been amended in response to SRBC comments on the draft report that was filed with the Joint Permit Application (JPA) in June 2011. (References 1 and 2) Certain appendices to the report are provided on the enclosed DVD.

This report presents the results of studies undertaken as outlined in the Study Plan submitted to the SRBC on April 29, 2010 (Reference 3), as amended via subsequent communications with the Commission, and replaces the draft report included in JPA Binder 3, Appendix B, Section 7. A copy of the JPA was filed with the SRBC for inclusion in the project record before the Commission.

It should be noted that PPL will undertake additional studies of certain mussel species of concern during the summer of 2012 and will also be undertaking additional studies of backwater areas inhabited by young-of-year bass in accordance with a study plan that was reviewed with the resource agencies on April 19, 2012. We anticipate filing the results of these studies for inclusion in the application record by the end of the third quarter 2012.

Should you have any questions on the attached please feel free to contact me.

Respectfully,

A handwritten signature in cursive script that reads "Gary Petrewski".

Gary Petrewski

GP/kw

Enclosure: 21665.001-LFHC3, Rev 0, "Potential Effects of the Bell Bend Project on Aquatic Resources and Downstream Users" prepared by Normandeau Associates, April 2012

cc: (w/ Enclosure on DVD)

Ms. Jamie Davis  
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(w/ Enclosure) (Hardcopy and DVD)

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