

BellBendEnveRAIPEm Resource

From: Terry, Tomeka
Sent: Friday, January 10, 2014 5:00 PM
To: Rocco R. Sgarro (rrsgarro@pplweb.com)
Cc: Mcdowell, Bruce K (Bruce.Mcdowell@pnnl.gov); 'Leigh, Kimberly D'; Kuntzleman, Nancy; Doub, Peyton; Becker, James M (james.becker@pnnl.gov); Kropp, Roy K (Roy.Kropp@pnnl.gov); BellBendEnveRAIPEm Resource; Quinn-Willingham, Laura
Subject: Final RAI ENV-24
Attachments: RAI ENV-24 Ecology GEN.pdf

Rocky,

Attached is the final RAI ENV-24 for the Bell Bend COL application. The ENV-24 RAI is related to aquatic ecology, terrestrial ecology, and permits and authorizations.

The NRC assumes technically correct and complete responses within 30 days of receipt of the final RAIs. For any RAIs that cannot be responded to within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30-day period so that the staff can access how this information might impact the schedule. Please contact me if you have any questions.

Thanks!

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From: Terry, Tomeka

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Request for Additional Information No. 7313

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS AE - Ecology/Aquatic

Application Section: Part 3 - Environmental Report

QUESTIONS

ESRP sections 2.3.1 and 5.3.1 direct the staff's description of the surface-water bodies that could be affected by the plant operation and of the impacts of the intake system during station operation. The Susquehanna River Basin Commission requires PPL to provide low-flow augmentation for consumptive water use by the Bell Bend Nuclear Power Plant. PPL's proposed mitigation measures for consumptive water use include alterations in operations of offsite water storage facilities and surface flows in natural stream courses (Consumptive Use Mitigation Plan, October 21, 2013, BNP-2013-142; RAI ENV-19 response, 12-4-12 ML123490007 PPL BNP-2012-281). In this plan, PPL describes the comprehensive plan for consumptive use mitigation, including plans to release water from Rushton Mine into Moshannon Creek to satisfy low-flow augmentation for the Montour Generating Station. To evaluate the potential effects of low-flow augmentation releases, the staff needs to identify the affected reach of Moshannon Creek. Identify the specific location at which water discharged from the Rushton Mine enters Moshannon Creek.

Request for Additional Information No. 7315

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS AE - Ecology/Aquatic

Application Section: Part 3 - Environmental Report

QUESTIONS

ESRP section 5.3.1 directs the staff to describe the impacts of the intake system during station operation. Consumptive use mitigation is one of the possible impacts resulting from operation of the intake system. The Susquehanna River Basin Commission requires PPL to provide low-flow augmentation for consumptive water use by the Bell Bend Nuclear Power Plant (BBNPP). PPL's proposed mitigation measures for consumptive water use include alterations in operations of offsite water storage facilities and surface flows in natural stream courses (Consumptive Use Mitigation Plan, October 21, 2013, BNP-2013-142; RAI ENV-19 response, 12-4-12 ML123490007 PPL BNP-2012-281). In this plan, PPL describes using the water in Cowanesque Reservoir currently allocated to consumptive use mitigation for the Montour Generating Station (8.8 mgd) to satisfy part of the BBNPP consumptive use mitigation required by SRBC. PPL did not describe the circumstances under which low-flow augmentation releases currently are required for Montour by the Susquehanna River Basin Commission and whether the same requirements would apply to BBNPP consumptive use. Provide the current trigger information (gauge location, flow value) for releasing low-flow augmentation water for the Montour plant from the Cowanesque Lake. Provide additional information regarding the Rushton Mine option, including whether the same trigger would be applicable, the frequency of low-flow augmentation into Moshannon Creek required for the Montour plant assuming the same trigger that is in effect now, the rate of release for the low-flow augmentation water, and the length of time that the Rushton Mine could deliver the total water demand (~15 mgd) during low-flow augmentation.

Request for Additional Information No. 7317

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS AE - Ecology/Aquatic

Application Section: Part 3 - Environmental Report

QUESTIONS

ESRP Section 4.3.2 directs the staff's description, quantification, and assessment of the impacts of construction of the proposed facilities on the aquatic ecosystem. ESRP Section 5.3.1.2 directs the staff's description, quantification and assessment of the impacts of the operation of the proposed facilities on the aquatic ecosystem. ER Rev 4, Sections 4.2.1.1 and 4.3.2.1 list several aquatic resources that may be affected by the construction and operation of BBNPP even though they no longer exist (Beaver Pond) or appear to be outside the disturbance area shown in Figure 4.3-1 and others (Johnson Pond, Farm Pond, West Building Pond, and Unnamed Ponds 1 & 2). Clarify which, if any, ponds would be affected by the BBNPP construction activities and identify the potential impacts to the affected water bodies.

Request for Additional Information No. 7321

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS TE - Ecology/Terrestrial

Application Section: Part 3 - Environmental Report

QUESTIONS

ESRP Section 9.3 states that the staff's environmental review of alternative sites should include all major aspects of environmental impacts of construction and operation, economic costs, and safety considerations. ER Rev 4 Sections 9.3.2.2 through 9.3.2.4 refer to a Pennsylvania American Water Company construction water pipeline for the Montour, Humboldt, and Seedco sites. However, no details are provided about the routes the pipeline would follow, installation construction activities, or habitat impacts to local species. Specifically, no forested and non-forested habitat or wetland or waterbody habitat information is provided for the construction water pipeline corridor at the Montour, Humboldt, and Seedco sites, as it is for the transmission line corridors and cooling water pipeline corridors (see response to RAI 5043 EIS 9.3-46 for affected forested and non-forested habitat, and ER Rev. 4 Table 9.3-13 for affected wetland and waterbody habitat). Provide details regarding the location of the dedicated Pennsylvania American Water Company pipeline; construction activities involved in its installation; and a table with the acreages of forested and non-forested upland habitat and wetland habitat, and acreages (or linear feet) and names of any water bodies and that would be affected at the Montour, Humboldt, and Seedco sites.

Request for Additional Information No. 7323

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS TE - Ecology/Terrestrial

Application Section: Part 3 - Environmental Report

QUESTIONS

ESRP Sections 4.3.1 and 4.3.2 direct the staff's description, quantification, and assessment of the impacts of construction of the proposed facilities on terrestrial and aquatic ecosystems. ER Rev 4, Section 4 presents differing amounts for the acreage that would be converted to impervious or relatively impervious surfaces. In section 4.2.1.5 states that there would be increased runoff from about 526 ac of impervious and relatively impervious surfaces. Section 4.2.2.2 lists about 669 ac of impervious and relatively impervious surfaces. Section 4.3.2.1 corrected the acreage specified in ER Rev 3 (87 ac) to 252 ac of impervious and relatively impervious surfaces, and section 4.3.1.6 states that there would be a reduction in impervious surfaces. Because of this change, the acreage within the Walker Run watershed (as described in the RAI AE-01 response dated May 31, 2012 (BNP-2012-131; ML121580599)) may have changed. Provide the correct acreage of the impervious and relatively impervious surfaces that would result from the site preparation and construction. Confirm that the information provided in the response to RAI AE-01 response dated May 31, 2012 (BNP-2012-131; ML121580599) is correct. Update the information if that in RAI AE-01 is not correct.

Request for Additional Information No. 7325

Issue Date: 1/10/2014

Application Title: Bell Bend Environmental Review Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: EIS GEN - General

Application Section: Part 3 - Environmental Report

QUESTIONS

ESPR Section 1.2 directs the staff to list the environmentally related authorizations required by Federal, State, regional, local, and affected Native American tribal agencies which should be developed as part of the review process. Revision 4 of the Environmental Report did provide an update, however the staff asks that PPL update Table 1.3-1 with each revision of the ER and ensure that all local and state permits are captured in Table 1.3-1, consistent with each revision. The staff did not find a permit listing for a "Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste" under the U.S. Department of Energy purview, nor a "Certificate of Registration" under the U.S. Department of Transportation purview listed in Table 1.3-1. Please provide a current listing of permits and authorizations.