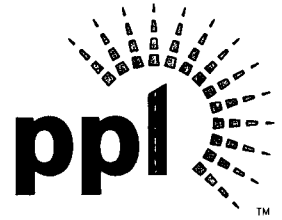


Britt T. McKinney
Sr. Vice President & Chief Nuclear Officer

PPL Susquehanna, LLC
769 Salem Boulevard
Berwick, PA 18603
Tel. 570.542.3149 Fax 570.542.1504
btmckinney@pplweb.com



OCT 16 2007

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**SUSQUEHANNA STEAM ELECTRIC STATION
REQUEST FOR ADDITIONAL INFORMATION (RAI) FOR THE
REVIEW OF THE SUSQUEHANNA STEAM ELECTRIC STATION
UNITS 1 AND 2, LICENSE RENEWAL APPLICATION (LRA)
SECTION B.2.21
PLA-6293**

**Docket Nos. 50-387
and 50-388**

- References:*
- 1) *PLA-6110, Mr. B. T. McKinney (PPL) to Document Control Desk (USNRC), "Application for Renewed Operating License Numbers NPF-14 and NPF-22," dated September 13, 2006.*
 - 2) *Letter from Ms. E. H. Gettys, (USNRC) to Mr. B. T. McKinney (PPL), "Request for Additional Information for the Review of the Susquehanna Steam Electric Station, Units 1 and 2, License Renewal Application," dated September 17, 2007.*

In accordance with the requirements of 10 CFR 50, 51, and 54, PPL requested the renewal of the operating licenses for the Susquehanna Steam Electric Station (SSES) Units 1 and 2 in Reference 1.

Reference 2 is a request for additional information related to LRA Section B.2.21. The enclosure to this letter provides the PPL response to this NRC request.

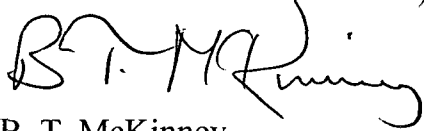
There are no new regulatory commitments contained herein as a result of this response, however, the commitment regarding additional requirements for BWRVIP-116, shown in LRA Table A-1, item 18, has been revised in response to RAI B.2.21-1.

If you have any questions, please contact Mr. Duane L Filchner at (610) 774-7819.

A120
NRR

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

Executed on: 10 16 07



B. T. McKinney

Enclosure: PPL Response to Request for Additional Information (Section B.2.21)

Copy: NRC Region I

Ms. E. H. Gettys, NRC Project Manager, License Renewal, Safety

Mr. R. V. Guzman, NRC Sr. Project Manager

Mr. R. Janati, DEP/BRP

Mr. F. W. Jaxheimer, NRC Sr. Resident Inspector

Mr. A. L. Stuyvenberg, NRC Project Manager, License Renewal, Environmental

**Enclosure to PLA-6293
PPL Response to
Request for Additional Information
(Section B.2.21)**

NRC RAI B.2.21-1:

Aging Management Program (AMP) B.2.21, "Reactor Vessel Surveillance Program," of the Susquehanna License Renewal Application (LRA) and the Updated Final Safety Analysis Report (UFSAR) supplement Section A.1.2.41 stated that the Susquehanna Steam Electric Station (SSES) reactor vessel surveillance program is part of the integrated surveillance program (ISP) described in BWRVIP-78, "BWR Integrated Surveillance Program Plan," BWRVIP-86-A, "BWR Vessel and Internals Project, BWR Integrated Surveillance Program Implementation," and BWRVIP-116, "BWR Vessel And Internals Project, Integrated Surveillance Program Implementation For License Renewal." Susquehanna will follow the requirements of the BWRVIP ISP. Since BWRVIP-116-A is not issued yet, following the requirements of the BWRVIP ISP does not necessarily mean that the additional requirements in the NRC safety evaluation dated March 1, 2006, on BWRVIP-116 will be addressed before the period of extended operation. Hence, the staff requests that you make the following commitment in LRA AMP B.2.21 and UFSAR Section A.1.2.41:

The SSES Reactor Vessel Surveillance Program will be enhanced to ensure that the additional requirements that are specified in the NRC safety evaluation dated March 1, 2006, for BWRVIP-116 will be addressed before the period of extended operation.

PPL Response:

PPL agrees to the requested commitments in RAI B.2.21-1 and RAI B.2.21-2. The commitments are reflected in the following changes to the LRA.

LRA Section A.1.2.41 is revised by adding the following statement:

The SSES Reactor Vessel Surveillance Program will be enhanced, as necessary, to ensure that the additional requirements that are specified in the NRC safety evaluation dated March 1, 2006, for BWRVIP-116 will be addressed before the period of extended operation. The program will include a requirement that, if a standby capsule is removed from either of the SSES Unit 1 or Unit 2 reactor vessels without the intent to test it, the capsule will be stored in a manner which maintains it in a condition which would permit its future use, including during the period of extended operation, if necessary.

In LRA Table A-1, the entry for item 18 is revised as follows:

Commitment: Existing program is credited with the following enhancement:

- Address the additional requirements specified in the NRC safety evaluation dated March 1, 2006, for BWRVIP-116. The program will include a requirement that, if a standby capsule is removed from either of the SSES Unit 1 or Unit 2 reactor vessels without the intent to test it, the capsule will be stored in a manner which maintains it in a condition which would permit its future use, including during the period of extended operation, if necessary.

Schedule: Prior to the period of extended operation.

LRA Section B.2.21 is revised as follows:

Exceptions to NUREG-1801

None.

Required Enhancements

The SSES Reactor Vessel Surveillance Program will be enhanced, as necessary, to ensure that the additional requirements that are specified in the NRC safety evaluation dated March 1, 2006, for BWRVIP-116 will be addressed before the period of extended operation. The program will include a requirement that, if a standby capsule is removed from either of the SSES Unit 1 or Unit 2 reactor vessels without the intent to test it, the capsule will be stored in a manner which maintains it in a condition which would permit its future use, including during the period of extended operation, if necessary.

NRC RAI B.2.21-2:

LRA AMP B.2.21 stated under the title "NUREG-1801 Consistency" that the SSES reactor vessel surveillance program is consistent with the 10 elements of NUREG-1801, Section XI.M31, "Reactor Vessel Surveillance," with an exception. This exception is later identified as the NUREG-1801 requirement that analyzed capsules be stored once the analysis is complete. The staff will not consider this exception because analyzed specimens may be reconstituted for future use during or beyond the current requested extended period of operation. The staff has not granted such exception for approved LRAs. Please revise B.2.21 to reflect this staff position. Further, Table 3-3 of the BWRVIP-116 report indicates that both SSES units have standby capsules. Since the BWRVIP-116 did not provide guidelines for standby capsules, the staff requested that you include the following commitment in the UFSAR Section A.1.2.41 of the LRA:

If the SSES standby capsule is removed from the RPV without the intent to test it, the capsule will be stored in a manner which maintains it in a condition which would permit its future use, including during the period of extended operation, if necessary.

PPL Response:

The exception regarding the storage of surveillance capsules is removed. The SSES Reactor Vessel Surveillance Program is now consistent with NUREG-1801, Section XI.M31

See revised LRA sections in the response to RAI B.2.21-1 above.