

May 16, 2007

Mr. Britt T. McKinney
Sr. Vice President and Chief Nuclear Officer
PPL Susquehanna, LLC
769 Salem Blvd., NUCSB3
Berwick, PA 18603-0467

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION (RAI 4.1.3) FOR THE REVIEW
OF THE SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2,
LICENSE RENEWAL APPLICATION

Dear Mr. McKinney:

By letter dated September 13, 2006, PPL Susquehanna, LLC submitted an application pursuant to 10 CFR Part 54, to renew the operating licenses for Susquehanna Steam Electric Station, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Duane Filchner, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1594 or e-mail YKS@nrc.gov.

Sincerely,

/RA/

Yaira K. Diaz Sanabria, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
Requests for Additional Information

cc w/encl: See next page

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SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2
LICENSE RENEWAL APPLICATION
REQUESTS FOR ADDITIONAL INFORMATION

RAI 4.1.3 Identification of Exemptions

Paragraph §54.21(c)(2) of Title 10, *Code of Federal Regulations*, Part 54 (10 CFR 54.21(c)(2)) requires an applicant for license renewal of its facilities to identify all exemptions in effect that have been granted in accordance with Paragraph §50.12 of Title 10, *Code of Federal Regulations*, Part 50 (10 CFR 50.12) and are based on time-limited aging assumptions. PPL has identified in license renewal application (LRA) Section 4.2 that the pressure-temperature (P-T) limits and the upper-shelf energy (USE) assessments for Susquehanna Steam Electric Station (SSES), Units 1 and 2 are time limited aging analyses (TLAAs) for the LRA. The TLAAs are required pursuant to the requirements of Appendix G to Part 50 of Title 10, *Code of Federal Regulations* (10 CFR Part 50, Appendix G)

The staff has reviewed the current licensing basis (CLB) for SSES Units 1 and 2 and has determined that the CLB includes the following exemptions that were granted to PPL in lieu of meeting the requirements of 10 CFR Part 50, Appendix G:

- (1) Paragraph 2E of the Operating License NPF-14 for SSES Unit 1
- (2) The NRC's letter of February 7, 2002, from D. S. Collins (NRC) to R. G. Byram (PPL), granting PPL an exemption to use methods of ASME Code Case N-640 in the generation of the P-T limits for SSES Units 1 and 2.

The staff has also determined that these exemptions were granted in accordance with 10 CFR 50.12 and are associated with analyses that involve time-limited aging assumptions.

Part A: Clarify whether the exemptions listed above have been withdrawn from the applicable dockets for SSES, such that the exemptions would no longer be in effect for the CLB. If not, pursuant to 10 CFR 54.21(c)(2), PPL is required to amend the LRA to identify the exemptions listed in items (1) and (2) above as exemptions in effect that were granted in accordance with 10 CFR 50.12 and are based on time-limited aging assumptions.

Part B: Clarify whether the 10 CFR Part 50, Appendix G-based exemption referred to in Paragraph 2E of the Operating License NPF-14 for SSES Unit 1 was granted relative to the USE requirements that are promulgated in Section IV.A.1 of 10 CFR Part 50, Appendix G, or the P-T limit requirements that are promulgated in Section IV.A.2 of 10 CFR Part 50, Appendix G.

Part C: Provide your regulatory basis that justifies whether or not the exemptions granted on the 10 CFR Part 50, Appendix G requirements, as referred to in Paragraph 2E of the Operating License NPF-14 for SSES Unit 1 and in the NRC's letter of February 7, 2002, are needed for the period of extended operation.

Enclosure

Letter to B. McKinney from Y. Diaz Sanabria dated, May 16, 2007

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SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2, LICENSE
RENEWAL APPLICATION

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Susquehanna Steam Electric Station,
Units 1 and 2

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Units 1 and 2

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