

July 23, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION 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 Title 10 of the *Code of Federal Regulation* Part 54 (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. Further requests for additional information may be issued in the future.

Items in the enclosure 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 301-415-4029 or by e-mail at evelyn.gettys@nrc.gov.

Sincerely,

/RA by BPham for/

Evelyn Gettys, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure:
As stated

cc w/encl: See next page

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ADAMS Accession No.: **ML081990316**

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|--------|---------|-------------------|---------|-----------------|
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| NAME | IKing | BPham for EGettys | JDozier | BPham |
| DATE | 7/18/08 | 7/23/08 | 7/21/08 | 7/23/08 |

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SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2
LICENSE RENEWAL APPLICATION
REQUEST FOR ADDITIONAL INFORMATION (RAI)

RAI 3.3.2-04

License renewal application (LRA) Table 3.3.2-22 contains a Table 2 item with the following material, environment, aging effect and program combination: copper alloy, treated water (internal), cracking and Closed Cooling Water Chemistry Program. This Table 2 item references generic aging lessons learned (GALL) Item VII.C2-4, which lists the aging effect as loss of material due to pitting, crevice and galvanic corrosion for the same material, environment and program combination. Clarify the applicability of the GALL Item VII.C2-4 to the Table 2 item in LRA Table 3.3.2-22 described above.

RAI B.2.6-1

The control rod drive (CRD) Return Line Nozzle Program takes an exception to the “acceptance criteria” program element to the GALL Aging Management Program (AMP) XI.M1 to use a weld overlay methodology as an alternative corrective action repair technique for flaw indications that are detected in the CRD return line nozzles or their pressure boundary welds (including the CRD return line cap-to-nozzle welds). The staff has noted that the applicant indicates that the weld overlay repair methodology will be implemented in accordance with the requirements of 10 CFR 50.55a. The staff also noted that the applicant did not indicate that this exception was applicable to the “corrective actions” program element for the CRD Return Line Nozzle Program. The ASME Code Section XI currently does not include any weld overlay methodologies as acceptable ASME Code Class repair techniques and reliefs for use of non-Code weld overlay methods have not yet been granted for either of the 10-Year inservice inspection intervals that are applicable to Susquehanna Steam Electric Station (SSES), Units 1 and 2, in the period of extended operation.

A) If PPL seeks approval for the use of a non-Code weld overlay repair methodology for leaks that may develop in CRD return line nozzles or their pressure boundary welds (including the CRD return line cap-to-nozzle welds) during the period of extended operation, the staff requests that PPL place a commitment in the LRA that PPL will perform an ASME Code Section XI repair of the leaking component unless the weld overlay repair methodology is submitted for NRC review and approval and is granted in accordance with the requirements that are mandated in 10 CFR 50.55a(a)(3).

B) Provide your basis for not applying the exception on the weld overlay methodology to the “corrective actions” program element in the GALL AMP XI.M6, Control Rod Drive Return Line Nozzle.

ENCLOSURE

RAIs On Added Program B.2.49

In its letter dated June 30, 2008, PPL added an existing plant specific program, B.2.49, Preventive Maintenance Activities – Main Turbine Casing. The following are RAIs associated with that program.

RAI B.2.49-1

In comparing the “monitoring and trending” element with the corresponding element of Standard Review Plan-License Renewal (SRP-LR), Appendix A.1, Section A.1.2.3.5, the staff determined that monitoring and trending is not described in enough detail to allow an assessment of the predictability of the extent of degradation. Please provide details describing the methods to assess remaining component life for loss of material using inspection results such that timely corrective action can be taken.

RAI B.2.49-2

In comparing the “acceptance criteria” element with the corresponding element of SRP-LR, Appendix A.1, Section A.1.2.3.6, the staff determined that the applicant did not provide specific acceptance criteria or its basis, such as comparison to design minimum wall or manufacturer suggested minimum wall. Please provide detail on how acceptance criteria will be established.

Letter to B. McKinney from E. Gettys, dated July 23, 2008

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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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