

July 25, 2007

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

SUBJECT: REQUESTS 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 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 301-415-4029 or e-mail EHG@nrc.gov.

Sincerely,

/RA/

Evelyn Gettys, 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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Requests for Additional Information

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Letter to B. McKinney from E. Gettys dated July 25, 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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Susquehanna Steam Electric Station, -2-
Units 1 and 2

cc:

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

RAI 2.2-1

License Renewal Application (LRA) Table 2.2-1 lists the following HVAC systems as “Not in Scope” based on the License Renewal Scoping Results:

- Chlorination Building HVAC
- Circulating Water Pump Room HVAC
- Intake Works HVAC
- Service and Administration Building HVAC
- Service Water Pump Room HVAC
- Turbine Building HVAC
- Water Treatment Room HVAC

Provide justification for the exclusion of these systems and their applicable components and passive functions from the scope of license renewal. If these systems and their applicable components are in the scope of license renewal, in accordance with 10 CFR 54.4(a), and subject to an aging management review in accordance with 10 CFR 54.21(a)(1), update the LRA by providing the applicable information in the appropriate LRA Sections, tables, and drawings.

RAI 2.3.2.5 - 1

Drawing No. LR-M-157, Sheet 4, 1-inch valve 157011 at penetration X-234A and 1-inch valve 157023 at penetration X-232A which belong to suppression pool level monitoring system are shown as not in scope for license renewal.

Provide justification for the exclusion of these valves from the scope of license renewal. If these valves are in the scope of license renewal, in accordance with 10 CFR 54.4(a), and subject to an aging management review in accordance with 10 CFR 54.21(a)(1), update the LRA by providing the applicable information in the appropriate LRA Sections, tables, and drawings.

RAI 2.3.2.5 - 2

LRA Section 2.3.2.5, “Containment and Suppression System” under “License Renewal Drawings” lists drawings LR-M-151 sheet 1, and LR-M-155 sheet 1 for Susquehanna Steam Electric Station (SSES) Unit 1, and LR-M-2151 sheet 1, and LR-M-2155 sheet 1 for SSES Unit 2.

It is not clear as to which functions or items belonging to the containment and suppression system are covered in these drawings. Please provide information as to which functions or items shown in these drawings belong to the containment and suppression system. In case these drawings do not cover any items belonging to the containment and suppression system, delete these from LRA Section 2.3.2.5.

Enclosure

RAI 2.3.2.6 - 1

LRA Section 2.3.2.6 identifies the Combustible Gas Control System described in final safety analysis report (FSAR) Section 6.2.5 as Containment Atmosphere Control System for license renewal. The description and functions of Containment Atmospheric Control System as described in LRA Section 2.3.2.6 is not consistent with the description given in SSES Units 1 and 2, FSAR Section 6.2.5. According to FSAR Section 6.2.5.2, the combustible gas control depends on the following functions and subsystems:

- a. Hydrogen mixing
- b. Hydrogen and oxygen monitoring system
- c. Hydrogen recombiner system
- d. Containment hydrogen purge system
- e. Containment nitrogen inerting system

The LRA Section 2.3.2.6 does not mention the Containment Nitrogen Inerting System which maintains the primary containment inerted with nitrogen during power operation with oxygen concentration not to exceed 4% by volume. It is requested to either add the description of Containment Nitrogen Inerting System either in LRA Section 2.3.2.6 or add another Section to the LRA describing this system and its license renewal function.

RAI 2.3.2.6 - 2

FSAR Table 6.2-12, "Containment Penetration Data" shows the 24-inch butterfly valve HV15722 as a containment isolation safety-related valve located at drywell penetration X-25. This valve located in zone C-5 of drawing No. LR-M-157 Sheet No. 1 is shown as not in scope of license renewal.

Provide justification for the exclusion of this valve from the scope of license renewal. If this valve is in the scope of license renewal, in accordance with 10 CFR 54.4(a), and subject to an aging management review in accordance with 10 CFR 54.21(a)(1), update the LRA by providing the applicable information in the appropriate LRA Sections, tables, and drawings.

RAI 2.3.2.6 - 3

LRA Section 2.3.2.6, "Containment Atmosphere Control System," under the heading "License Renewal Drawings," lists LR-M-157 sheets 6 and 7 for SSES Unit 1, and LR-M-2157 sheets 6 and 7 for SSES Unit 2. These drawings provide containment radiation monitoring details and it appears that they do not have any item described in LRA Section 2.3.2.6.

Provide justification for listing these drawings in LRA Section 2.3.2.6. If any of the system components in these drawings belong to the LRA Section 2.3.2.6, provide a list of these components and revise Table 2.3.2-6 as required. Please note that suppression pool level and temperature functions are covered in containment and suppression system in LRA Section 2.3.2.5 which lists these drawings under "License Renewal Drawings." Please note that containment radiation monitoring system is covered in LRA Section 2.3.3.18 which lists these under the heading "License Renewal Drawings."

RAI 2.3.2.6 - 4

LRA Section 2.3.2.6, "Containment Atmosphere Control System," under the heading "License Renewal Drawings," lists LR-M-157 sheet 8 for SSES Unit 1, and LR-M-2157 sheet 8 for SSES Unit 2. These drawings provide details of suppression pool level and pressure monitoring and it appears they do not have any items described in Section 2.3.2.6.

Provide justification for listing the above drawings in LRA Section 2.3.2.6. If any of the system components in these drawings belong to the LRA Section 2.3.2.6, provide a list of these components and revise LRA Table 2.3.2-6 as required. Please note that suppression pool level and temperature functions are covered in containment and suppression system in LRA Section 2.3.2.5 which lists these drawings under the heading "License Renewal Drawings."

RAI 2.3.2.6 - 5

Drawing LR-M-157, sheet 1, zone F-3, at primary containment penetration X-221A shows the piping component at the upstream side of valve 157201 as not in scope for license renewal.

Provide justification for the exclusion of this piping component from the scope of license renewal. If this component is in the scope of license renewal, in accordance with 10 CFR 54.4(a), and subject to an aging management review in accordance with 10 CFR 54.21(a)(1), update the LRA by providing the applicable information in the appropriate LRA Sections, tables, and drawings.