

June 13, 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 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 e-mail [evelyn.gettys@nrc.gov](mailto:evelyn.gettys@nrc.gov).

Sincerely,

\RA\

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

RAI B.2.19-1

The generic aging lessons learned (GALL) program XI.M29 recommends that paints, coatings, sealants and caulking for aboveground steel tanks be monitored for degradation. The scope of the program for the "Condensate and Refueling Water Storage Tank Inspection Program" B.2.19 states that paints, coatings, sealants and caulking will be monitored under the "System Walkdown Program" B.2.32. Upon review of the scope of the program for B.2.32, paints, coatings, sealants and caulking are not included as materials that will be monitored in the Systems Walkdown Program. Justify the basis for not including the above mentioned materials in the "System Walkdown Program" and explain how these materials will be visually inspected under the "Systems Walkdown Program."

RAI B.2.19-2

The license renewal application (LRA) claims that the "Condensate and Refueling Water Storage Tank Program", B.2.19 in conjunction with "Systems Walkdowns" B.2.32, is consistent to the GALL Program XI.M29 "Aboveground Steel Tanks." The "acceptance criteria" program element of XI.M29 defines degradation as cracking, flaking, or peeling of paints/coatings and drying, cracking and missing sealant and caulking. The acceptance criteria in GALL recommend that corrective actions be taken upon detection of "any degradation." The corresponding element for B.2.19 and B.2.32, differs from GALL and uses the phrase no unacceptable loss of material. Justify the basis for taking corrective actions only upon the detection of an unacceptable loss of material and not upon the detection of any degradation. Explain why the acceptance criteria for B.2.19 and B.2.32 differ from the recommendations of GALL, in regards to when corrective actions will be taken based on visual inspections of the paint/coatings and sealants/caulking.

RAI 3.3.2.2.6-1

- a) On LRA page 3.5-83, Table 3.5.2-2, a footnote E was used for the AMR line item that references "Spent Fuel Rack Neutron Absorbers" under the heading "Component/Commodity." This AMR line item references GALL Vol.2 Item VII.A2-3, which list the aging effects as, reduction of neutron-absorbing capacity and loss of material due to general corrosion. Justify the basis for using a footnote E consistent with GALL basis for this AMR line item when GALL AMR VII.A2-3 identifies that reduction of neutron-absorbing capacity is an aging effect requiring management and provide a basis why it is valid to conclude that reduction of neutron-absorbing capacity is not an aging effect requiring management for the Boral panels.

ENCLOSURE

- b) Based on industry operating experience and recent license renewal application reviews, indications of aluminum in the spent fuel pool could be representative of degradation of either the Boral material made from an aluminum-boron carbide composite or the aluminum tubes that house the Boral material, known as poison cans. Please confirm whether or not SSES has plant-specific operating experience that indicates the presence of aluminum cations in the spent fuel pool from the Boral material and/or poison cans. If plant-specific operating experience exists, please explain the source of the aluminum in the spent fuel pool and provide a basis why the BWR Water Chemistry Program is sufficient for managing loss of material and possibly reduction of neutron-absorbing capacity without crediting a One-Time Inspection to determine the effectiveness of the BWR Water Chemistry Program in managing these aging effects.

Letter to B. McKinney from E. Gettys, dated June 13, 2008

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RENEWAL APPLICATION

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Units 1 and 2

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Units 1 and 2

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