

November 25, 2002

Mr. Bryce L. Shriver  
Senior Vice President  
and Chief Nuclear Officer  
PPL Susquehanna, LLC  
769 Salem Boulevard  
Berwick, PA 18603-0467

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) - SUSQUEHANNA STEAM  
ELECTRIC STATION, UNITS 1 AND 2 (SSES 1&2) - EMERGENCY PLAN  
(E-PLAN) REVISIONS (TAC NOS. MB6300 AND MB6301)

Dear Mr. Shriver:

In reviewing your application for changes to the SSES 1&2 E-Plan dated, September 6, 2002, we have determined that we will need the additional information contained in the enclosure to this letter in order to complete our review. These questions were discussed with your staff during a teleconference on November 7, 2002, and as agreed to by your staff, we request you respond within 30 days of the date of this letter.

If you have any questions, please contact me at 301-415-1402.

Sincerely,

*/RA/*

Timothy G. Colburn, Sr. Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosure: RAI

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION  
SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 & 2  
EMERGENCY PLAN (E-PLAN) REVISIONS  
DOCKET NOS. 50-387 AND 50-388

Susquehanna Emergency Action Level (EAL) Review Questions

1. Have the EAL changes been reviewed and agreed to with State and local governmental authorities in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, Appendix E, Section IV.B., "Assessment Actions"?
2. What are the units and scale of the Vent Monitors used in EAL 15?
3. In the Site Area Emergency and General Emergency EAL 15 for Dose assessment the thyroid Combined Dose Estimate is identified as for a child instead of an adult. Is this intentional?
4. Page 7-4 indicates that the dose program complies with EPA-400 and refers to the Code. Referencing EPA-400, Appendix B, it indicates that adult physiology is assumed. Is your dose assessment based on child or adult physiology and how does that impact the previous question?
5. Page 7-4 indicates that the dose calculation program is run from the Technical Support Center (TSC) and Emergency Operations Facility (EOF). What is used for dose assessment On-shift and where is it described in the E-Plan?

Susquehanna Staffing Questions

1. The staff requests clarification of the terms used in Section 6, "Organizational Control of Emergencies," of the proposed emergency plan contained in the letter dated September 6, 2002, to assist with understanding the process for augmenting on-shift staffing following the declaration of an Alert or above emergency classification. Example terms include: On page 6-2 of the proposed E-plan revision, it is stated that "the [Operations Support Center] OSC and TSC are fully functional within 30 to 60 minutes." On the same page it is stated that "the TSC will be activated as soon as possible...". In the same sentence it is stated "... it is recognized that the activation time for the alternate TSC...". On page 6-3 it is stated that "The EOF is required to be activated following a Site Area Emergency or General Emergency classification and take over management of the emergency from the TSC...". On the same page it is stated that "Activation of the Emergency Operations Facility requires the minimum ..."

Enclosure

- a. Provide E-Plan references where the following terms are defined: "activated", "activation", "activation time", "take over management of the emergency", and "fully functional." The response should include a discussion of personnel response in sequence of response from when they are notified to report to their respective emergency response facility to the point when all personnel expected to perform emergency response functions are ready to perform their functions in their respective facility.
  - b. Discuss the point from which the "fully functional" time goal is measured.
2. As part of the justification for extending the response times for augmentation personnel, provide documentation that describes the management expectation that personnel assigned emergency response functions are to respond to their respective emergency response locations as soon as possible without delay.
3. Discuss the training provided for the on-shift personnel who are designated to handle the offsite dose assessment function to compensate for the 30-minute Senior Health Physics Expertise position described in Table B-1 in NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."
4. Explain which on-shift personnel will perform the Radiation Protection functions of access control, health physics coverage, personnel monitoring and dosimetry issue. Table B-1 in NUREG-0654 notes that these functions may be performed by two on-shift personnel who may be assigned other functions.
5. Discuss shift operating crew performance related to handling emergency preparedness scenarios for 60 minutes without TSC and OSC assistance. In general terms, discuss any deficiencies related to emergency classification, required notifications, or protective action recommendations that may have been caused by or contributed to by the lack of on-shift staffing.
6. Discuss the compensation provided for the repair and corrective actions tasks to be performed by the Mechanical Maintenance/Rad Waste Operator and the Electrical Maintenance Instrument and Control Technician as specified as 60-minute responders in Table B-1 of NUREG-0654.
7. At what emergency classification level are the Operational Support Center, Technical Support Center and Emergency Operations Facility activated?
8. Describe the notification and call-out processes for staffing the emergency response facilities.

Susquehanna Steam Electric Station,  
Units 1 &2

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