

PSEGSPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Friday, February 18, 2011 12:16 PM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGESP Resource; PSEGSPeRAIPEm Resource; 'David.Lewis2@pseg.com'; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Colaccino, Joseph; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Williams, Stephen; Roach, Edward
Subject: PSEG Site ESPA DRAFT RAI 13 (eRAI 5471) SRP-02.04.13 (CHPB)
Attachments: PSEG Site ESPA Draft RAI 13 (eRAI 5471).doc

Please find attached DRAFT RAI No. 13 for the PSEG Site ESP application. You have ten working days to review this request and to decide whether you need a conference call to discuss it. Please notify me of your decision in this regard.

After the call, or after ten days, the RAI will be finalized and issued to you. You will then have 30 calendar days to respond. These durations are factored into your review schedule. If additional time is required to respond, please inform me of your proposed schedule to respond at your earliest opportunity.

If you have any questions, please contact me.

Prosanta Chowdhury
Project Manager
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors
301-415-1647

Hearing Identifier: PSEG_Site_EarlySitePermit_RAI
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From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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Options

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Request for Additional Information No. 13
Application Revision 0

DRAFT

2/18/2011

PSEG Site ESP
PSEG Power LLC, PSEG Nuclear LLC
Docket No. 52-043

SRP Section: 02.04.13 - Accidental Releases of Radioactive Liquid Effluents in Ground and Surface Waters

Application Section: 2.4.13

QUESTIONS for Health Physics Branch (CHPB)

02.04.13-1

10 CFR 20 requires all radionuclides to be considered when determining releases to the environment.

In Table 2.4.13-1 of the PSEG ESP Application, the applicant lists 12 radionuclides that they determine to be a potential migration threat.

Sections 2.4.13.1.4 and 2.4.13.1.5 state that other radionuclides were removed from consideration for several different factors (including high decay rates, dilution factors, and bounding concentrations that are already less than the ECLs (effluent concentration limits)).

In order for the staff to review Table 2.4-13-1 of the PSE&G Application, please provide and list all radionuclides initially considered, and provide how any radionuclides were eliminated from consideration.

02.04.13-2

In order to determine the appropriate initial radionuclide concentrations utilized in section 2.4.13.1.2 Accident Scenario, for 10 CFR 20 analysis, the staff requests the following information:

- 1) The application currently states, "The hypothetical accident scenario involves instantaneous release (NUREG-0800, 15.7.3, III.1.a, 1981) of 80 percent of the contents of a liquid radioactive waste tank into nearby groundwater." NUREG-0800, 15.7.3 is no longer used as the technical basis to assess this scenario. NRC Branch Technical Position (BTP) 11-6 is the current guidance. Please use BTP 11-6 to revise this section.
- 2) Please provide "the four DCDs currently under NRC review" and the source of the public information that was used to determine the hypothetical release.
- 3) Please provide the specified tanks from the four DCDs referenced and their radionuclide concentrations utilized to determine the PPE bounding concentrations.
- 4) Please provide, from the four DCDs referenced, the location of the hypothetical tank used for this accident scenario.

- 5) Please provide the criteria utilized to determine which specified tank from the four DCDs was chosen to represent the accident scenario.
- 6) Please provide information on how the determination was made to utilize 30,000 gallons as the specified tank volume used for this accident scenario.

Please include the information requested above in the PSE&G ESP application.