

## **PSEGESPeRAIPEm Resource**

---

**From:** Chowdhury, Prosanta  
**Sent:** Friday, February 03, 2012 2:18 PM  
**To:** 'PSEGRAIResponses@pseg.com'  
**Cc:** PSEGESPeRAIPEm Resource; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Segala, John; Silvia, Andrea; Roach, Kevin; Clark, Phyllis; McLellan, Judith; Tammara, Seshagiri; Schaaf, Robert  
**Subject:** PSEG Site ESPA DRAFT RAI 53 (eRAI 6286) SRP-02.02.03 (RPAC-RSAC)  
**Attachments:** PSEG Site ESPA Draft RAI 53 (eRAI 6286).doc

Please find attached DRAFT RAI No. 53 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  
Licensing Branch 1 (LB1)  
Division of New Reactor Licensing  
Office of New Reactors  
301-415-1647

**Hearing Identifier:** PSEG\_Site\_EarlySitePermit\_RAI  
**Email Number:** 102

**Mail Envelope Properties** (320204600EA7B9408FE833FF15E4FF7D7F5D91E8D6)

**Subject:** PSEG Site ESPA DRAFT RAI 53 (eRAI 6286) SRP-02.02.03 (RPAC-RSAC)  
**Sent Date:** 2/3/2012 2:17:46 PM  
**Received Date:** 2/3/2012 2:17:51 PM  
**From:** Chowdhury, Prosanta

**Created By:** Prosanta.Chowdhury@nrc.gov

**Recipients:**

"PSEGESPeRAIPEm Resource" <PSEGESPeRAIPEm.Resource@nrc.gov>  
Tracking Status: None  
"James.Mallon@pseg.com" <James.Mallon@pseg.com>  
Tracking Status: None  
"David.Robillard@pseg.com" <David.Robillard@pseg.com>  
Tracking Status: None  
"Segala, John" <John.Segala@nrc.gov>  
Tracking Status: None  
"Silvia, Andrea" <Andrea.Silvia@nrc.gov>  
Tracking Status: None  
"Roach, Kevin" <Kevin.Roach@nrc.gov>  
Tracking Status: None  
"Clark, Phyllis" <Phyllis.Clark@nrc.gov>  
Tracking Status: None  
"McLellan, Judith" <Judith.McLellan@nrc.gov>  
Tracking Status: None  
"Tammara, Seshagiri" <Seshagiri.Tammara@nrc.gov>  
Tracking Status: None  
"Schaaf, Robert" <Robert.Schaaf@nrc.gov>  
Tracking Status: None  
"PSEGRAIResponses@pseg.com" <PSEGRAIResponses@pseg.com>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	769	2/3/2012 2:17:51 PM
PSEG Site ESPA Draft RAI 53 (eRAI 6286).doc		30714

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Request for Additional Information No. 53

Application Revision 0

DRAFT

2/3/2012

PSEG Site ESP

PSEG Power LLC, PSEG Nuclear LLC

Docket No. 52-043

SRP Section: 02.02.03 - Evaluation of Potential Accidents

Application Section: 2.2.3

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.02.03-2

RS-002 and RG 1.206 provide guidance regarding the information that is needed to ensure that the potential hazards in the site vicinity are identified and evaluated in order to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21.

In SSAR Section 2.2.3.2.2, the applicant evaluated liquid/vapor explosions due to vessels on the Delaware River. The applicant relied on data from industry databases to identify large chemical explosions and evaluated the explosion of a vessel containing an estimated 116 tons of methyl tertiary-butyl ether (MTBE) vapor. Please clarify the relevance of this chemical vapor as compared to the chemicals that are documented to be shipped during 2003-2007 on the Delaware River. Please provide an evaluation of the potentially limiting chemical among those transported on the Delaware River with a maximum carried transport amount of 10,000,000 lbs (as bounding case), based on the guidance provided in RG 1.91 to calculate the minimum safe distance.