



ND-2012-0016
March 9, 2012

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: **PSEG Early Site Permit Application**
Docket No. 52-043
Response to Request for Additional Information, RAI No. 50,
Identification of Potential Hazards in Site Vicinity

- References: 1) PSEG Power, LLC letter to USNRC, Application for Early Site Permit for the PSEG Site, dated May 25, 2010
- 2) RAI No. 50, SRP Section: 02.02.01-02.02.02 – Identification of Potential Hazards in Site Vicinity, dated February 10, 2012 (eRAI 6283)

The purpose of this letter is to respond to the request for additional information (RAI) identified in Reference 2 above. This RAI addresses Evaluation of Potential Accidents, as described in Subsections 2.2.1 and 2.2.2 of the Site Safety Analysis Report (SSAR), as submitted in Part 2 of the PSEG Site Early Site Permit Application, Revision 0.

Enclosure 1 provides our response for RAI No. 50, Question No. 02.02.01-02.02.02-1. Enclosure 2 includes the revisions to SSAR Subsection 2.2.1 resulting from our response to RAI No. 50, Question No. 02.02.01-02.02.02-1. Enclosure 3 provides a CD-ROM containing revised SSAR Figure 2.2-1. Enclosure 4 includes the new regulatory commitments established in this submittal.

The response to RAI No. 50, Question No. 02.02.01-02.02.02-1, Sub-question 5, will require data from the U.S. Coast Guard (USCG) to evaluate the question. Upon receipt and evaluation of data from the USCG, a supplemental response to this question will be provided. This supplemental response will be provided by September 30, 2012.

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If any additional information is needed, please contact David Robillard, PSEG Nuclear Development Licensing Engineer, at (856) 339-7914.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 9th day of March, 2012.

Sincerely,

A handwritten signature in cursive script, appearing to read "James Mallon".

James Mallon
Early Site Permit Manager
Nuclear Development
PSEG Power, LLC

- Enclosure 1: Response to NRC Request for Additional Information, RAI No. 50, Question No. 02.02.01-02.02.02-1, SRP Section: 02.02.01-02.02.02 – Identification of Potential Hazards in Site Vicinity
- Enclosure 2: Proposed Revisions, Part 2 – Site Safety Analysis Report (SSAR), Section 2.2 - Identification of Potential Hazards in Site Vicinity
- Enclosure 3: CD-ROM Containing Revised SSAR Figure 2.2-1
- Enclosure 4: Summary of Regulatory Commitments

cc: USNRC Project Manager, Division of New Reactor Licensing, PSEG Site (w/enclosures)
USNRC Environmental Project Manager, Division of Site and Environmental Reviews (w/enclosures)
USNRC Region I, Regional Administrator (w/enclosures)

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ENCLOSURE 1

RESPONSE to RAI No. 50

**QUESTION No.
02.02.01-02.02.02-1**

Response to RAI No. 50, Question 02.02.01-02.02.02-1:

In Reference 2, the NRC staff asked PSEG for information regarding identified nearby industrial, transportation, and military facilities, as described in Subsections 2.2.1 and 2.2.2 of the Site Safety Analysis Report. The specific request for Question 02.02.01-02.02.02-1 was:

RS-002 and RG 1.206 provide guidance regarding the information that is needed to ensure 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 order to address and evaluate the potential hazards in the site vicinity, the applicant identified nearby industrial, transportation and military facilities in SSAR Section 2.2.1 and presented the descriptions of these identified facilities in SSAR Section 2.2.2. The staff's review identified the information pertaining to the following facilities is either not presented or not presented in a consistent manner between the text and figure 2.2-1, and therefore need the clarification and update of the information, that may be used further in the evaluation of potential hazards in SSAR Section 2.2.3.

1. The applicant states the Valero Delaware City Refinery ceased operations in 2009. Are the hazardous material inventories shipped to and from this facility via the Delaware River included in the evaluation in SSAR Section 2.2.3? If they are not, then will they be evaluated in the future if and when it becomes operational over the operational life of the proposed plant? Please clarify.

2. The transportation routes (Delaware Route 7 and Delaware Route 896) listed between 5 and 10 miles in SSAR Section 2.2.1 are not shown on Figure 2.2-1, and the routes (DE9, DE25, and DE425) which are shown on Figure 2.2-1 are not listed in the text. Please resolve the inconsistencies.

3. The applicant did not list railroads and also did not address the railroad that passes within 10 miles SW through NW of the site, and the spur connection to the Valero Delaware City Refinery. Please include the information, address and evaluate as appropriate.

4. Although a gas transmission pipeline is noted as being 5.9 miles away from the proposed PSEG site in SSAR Section 2.2.2.2, it is not listed among the facilities evaluated in Section 2.2.3. In addition, the staff finds a hazardous liquid pipeline located about 9 miles to the north-northwest near the Air Liquide and Formosa plants. Please clarify, update and evaluate as appropriate.

5. At least two "General Anchorage Areas" are shown in SSAR Figure 2.2-3 as being within 5 miles of the site, the closest being 0.75 mile away. These facilities are not addressed in the application. Furthermore, Figure 2.2-3 is of very poor quality and these facilities are barely legible. The applicant should address these facilities and evaluate as appropriate by including an updated or additional, better quality figure.

PSEG Response to NRC RAI:

- (1) The shipment data used in the analysis provided in SSAR Subsection 2.2.3 is from the United States Army Corps of Engineers (USACE) and covers the period from 2003 to 2007 (Table 2.2-15). During this time the Valero refinery was in operation. The data from the USACE does not specify the destination of the shipments, but it includes all vessels that traveled on the Delaware River. We did not remove shipments from the analysis to account for the closure of the Valero facility. Therefore, the shipments to that facility are included in the analysis provided in SSAR Subsection 2.2.3.

This response does not require a change to the SSAR.

- (2) There are a few inconsistencies with the presentation of transportation routes in the existing SSAR. Delaware Route 9 is listed in SSAR Subsection 2.2.1 as being within 5 miles, but on SSAR Figure 2.2-1 it appears to be outside of 5 miles. Delaware Routes 7 and 896 are listed in SSAR Subsection 2.2.1, and they are shown but not labeled on SSAR Figure 2.2-1. Routes 25 and 425 are labeled on SSAR Figure 2.2-1 as if they are Delaware state routes, but they are not; in fact, they are minor roads and should not be labeled on SSAR Figure 2.2-1.

The inconsistencies listed above will be resolved by updating SSAR Figure 2.2-1. The figure will be updated to show Delaware Route 9's closest approach to the PSEG Site, which is within 5 miles of the site. Delaware Routes 7 and 896 will be labeled within 5-10 miles of the site. Finally, Routes 25 and 425 will be removed from SSAR Figure 2.2-1 because they are minor roads.

- (3) There are two inconsistencies with the presentation of railroads in the existing SSAR. The closest railroad is mentioned in SSAR Subsection 2.2.2.6, but railroads are not listed in SSAR Subsection 2.2.1. In addition, railroads are shown but not labeled on SSAR Figure 2.2-1.

Railroads will be added to the list of transportation facilities in SSAR Subsection 2.2.1, and they will be labeled in SSAR Figure 2.2-1. No further evaluation is needed per Regulatory Guide 1.206 Section C.1.2.2.1 and Standard Review Plan NUREG-0800 Section 2.2.1-2.2.2, as all railroads are more than 5 miles from the PSEG Site.

- (4) There are two inconsistencies with the presentation of pipelines in the existing SSAR. The closest pipeline is mentioned in SSAR Subsection 2.2.2.2, but pipelines are not listed in SSAR Subsection 2.2.1. In addition, pipelines are not shown in SSAR Figure 2.2-1.

Pipelines will be added to the list of industrial facilities in SSAR Subsection 2.2.1, and they will be shown and labeled on SSAR Figure 2.2-1. No further evaluation is needed per Regulatory Guide 1.206 Section C.1.2.2.1 and Standard Review Plan NUREG-0800 Section 2.2.1-2.2.2, as all pipelines are more than 5 miles from the PSEG Site.

- (5) The U.S. Coast Guard (USCG) was contacted to provide information on ships utilizing the General Anchorage Areas in the Delaware River. The USCG has indicated these General Anchorage Areas are infrequently used, but they have not provided the requested data to complete our evaluation of the area at the time of this submittal. When the USCG provides useable data to evaluate these areas, a supplemental response to this question will be provided. This supplemental response will be provided by September 30, 2012.

Associated PSEG Site ESP Application Revisions:

SSAR Subsection 2.2.1 will be updated as specified in Enclosure 2 of this document. Revised SSAR Figure 2.2.1 is provided in Enclosure 3.

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ENCLOSURE 2

Proposed Revisions

Part 2 – Site Safety Analysis Report (SSAR)

Section 2.2 – Identification of Potential Hazards in Site Vicinity

Marked-up Page
2.2-2

**PSEG Site
ESP Application
Part 2, Site Safety Analysis Report**

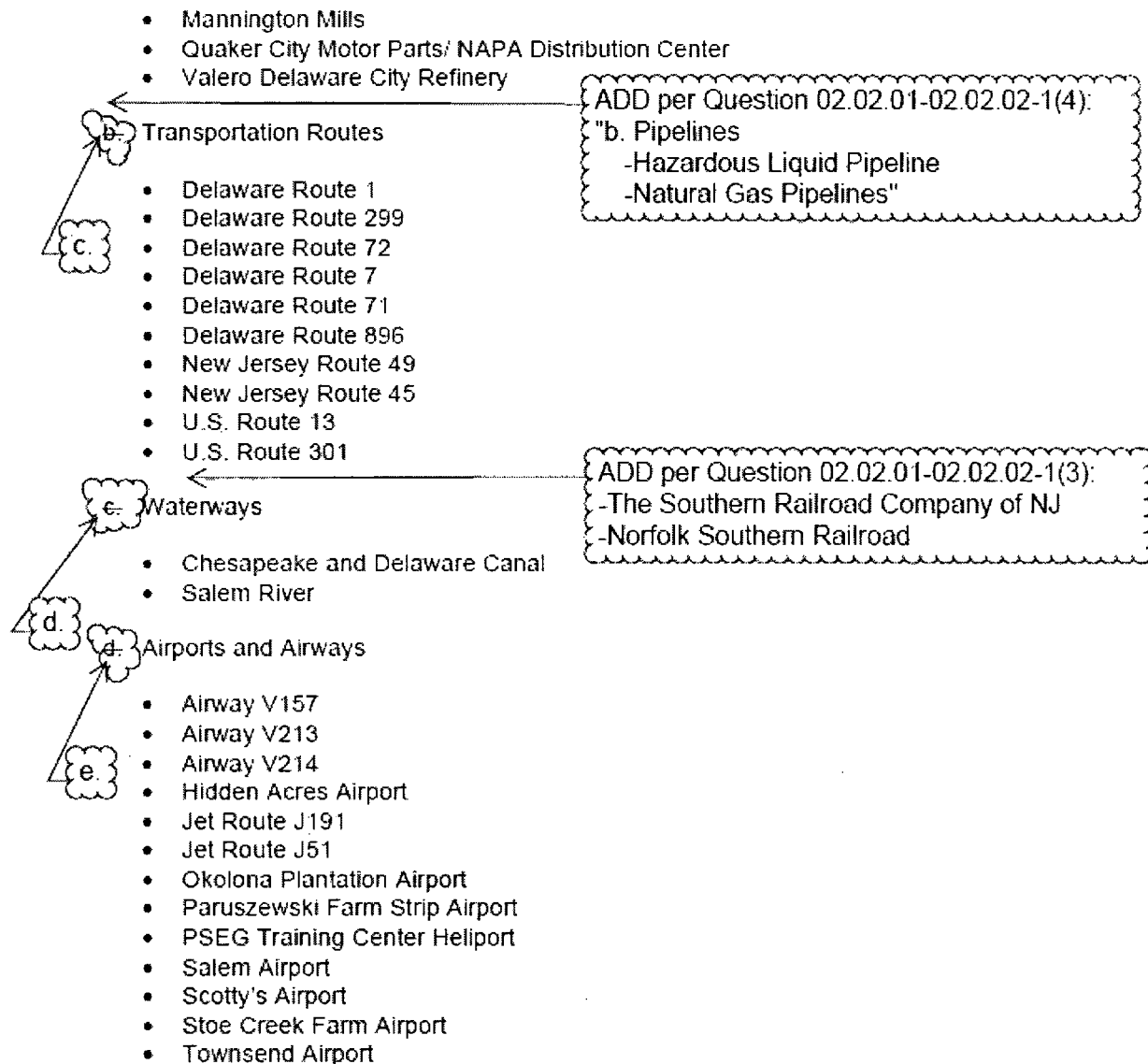


Figure 2.2-1 is a site vicinity map that shows the location of the identified industrial and transportation facilities, with the exception of airports and airways, within 10 mi. of the PSEG Site. Figure 2.2-2 shows the airports and airways within 10 mi. of the PSEG Site.

2.2.2 DESCRIPTIONS

The following subsections describe the industrial, transportation, and military facilities identified within 5 mi. and beyond 5 mi. as appropriate to their significance.

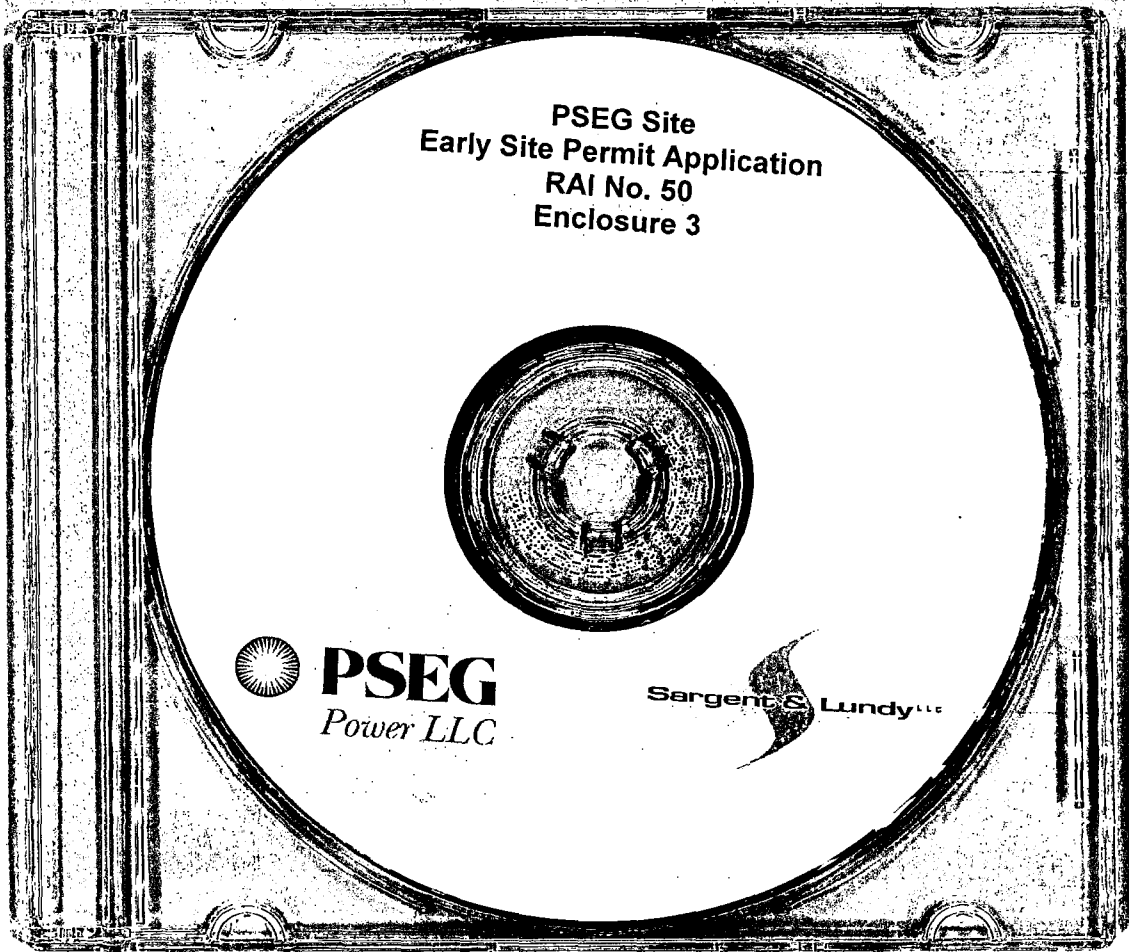
Rev. 0

2.2-2

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ENCLOSURE 3

CD-ROM Containing Revised SSAR Figure 2.2-1



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ENCLOSURE 4

Summary of Regulatory Commitments

ENCLOSURE 4

SUMMARY OF REGULATORY COMMITMENTS

The following table identifies commitments made in this document. (Any other actions discussed in the submittal represent intended or planned actions. They are described to the NRC for the NRC's information and are not regulatory commitments.)

COMMITMENT	COMMITTED DATE	COMMITMENT TYPE	
		ONE-TIME ACTION (YES/NO)	PROGRAMMATIC (YES/NO)
PSEG will revise SSAR Subsection 2.2.1 and SSAR Figure 2.2-1 to incorporate the changes in Enclosures 2 and 3 in response to NRC RAI No. 50, Question 02.02.01-02.02.02-1.	This revision will be included in a future update of the PSEG ESP application.	Yes	No
PSEG will evaluate the General Anchorage Areas per Question 02.02.01-02.02.02-1(5) and submit a supplemental response to RAI No. 50.	September 30, 2012	Yes	No