



ND-2012-0009
February 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. 43, Vibratory Ground Motion

- References:
- 1) PSEG Power, LLC letter to USNRC, Application for Early Site Permit for the PSEG Site, dated May 25, 2010
 - 2) RAI No. 43, SRP Section: 02.05.02 – Vibratory Ground Motion, dated December 12, 2011 (eRAI 6162)
 - 3) PSEG Power, LLC Letter No. ND-2012-0002 to USNRC, Response to Request for Additional Information, RAI No. 43, Vibratory Ground Motion, dated January 10, 2011
 - 4) PSEG Power, LLC Letter No. ND-2012-0006 to USNRC, Response to Request for Additional Information, RAI No. 43, Vibratory Ground Motion, dated January 25, 2011

The purpose of this letter is to respond to the request for additional information (RAI) identified in Reference 2 above. This RAI addresses Vibratory Ground Motion, as described in Subsection 2.5.2 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. 43, Question No. 02.05.01-2. The response to RAI No. 43, Question Nos. 02.05.02-1 and 02.05.02-4 will be provided by March 15, 2012. The response to RAI No. 43, Question No. 02.05.02-5 will be provided by July 20, 2012. The responses to RAI No. 43, Question Nos. 02.05.02-1 and 02.05.02-4 and 02.05.02-5 have been delayed due to the need to perform additional sensitivity analysis to support the response.

D079
NRO

The responses to the remaining RAI No. 43 questions were provided in References 3 and 4.

Enclosure 2 provides the revisions to SSAR Subsection 2.5.2 resulting from our response to RAI No. 43, Question No. 02.05.02-2.

Enclosure 3 provides the revisions to SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10 resulting from our response to RAI No. 43, Question No. 02.05.02-2.

Enclosure 4 includes the new regulatory commitments established in this submittal.

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 February, 2012.

Sincerely,



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

- Enclosure 1: Response to NRC Request for Additional Information, RAI No. 43, Question No. 02.05.02-2, SRP Section: 2.5.2 – Vibratory Ground Motion
- Enclosure 2: Proposed Revisions, Part 2 – Site Safety Analysis Report (SSAR), Subsection 2.5.2 - Vibratory Ground Motion
- Enclosure 3: CD-ROM containing Revised SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10
- 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)

PSEG Letter ND-2012-0009, dated February 9, 2012

ENCLOSURE 1

RESPONSE to RAI No. 43

**QUESTION No.
02.05.02-2**

Response to RAI No. 43, Question 02.05.02-2:

In Reference 2, the NRC staff asked PSEG for information regarding the Vibratory Ground Motion, as described in Subsection 2.5.2 of the Site Safety Analysis Report. The specific request for Question 02.05.02-2 was:

In SSAR Subsection 2.5.2.1.1 the applicant stated that the updated earthquake catalog covers an area bounded by 36° to 43° N and 71° to 80° W. This update area does not completely cover all of the EPRI seismic sources the applicant used in their hazard calculations. In compliance with 10 CFR 100.23 and in conformance to NUREG-0800, Standard Review Plan, Section 2.5.2, "Vibratory Ground Motion," and Regulatory Guide (RG) 1.208, "A Performance-Based Approach to Define the Site-Specific Earthquake Ground Motion," please

- a. justify the use of a limited spatial extent in your earthquake catalog update for the PSEG site. Please describe how you account for the impacts of any potential earthquakes occurring since 1985 within the EPRI sources you used, but outside of the update area; provide information on any moderate to larger size earthquakes in these regions that might potentially impact seismic source parameters (such as Mmax and probability of activities) used in the hazard calculations.*
- b. correct and/or resolve the conflict in SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10, which show a different update area than what is stated in the SSAR Subsection 2.5.2.1.1.*

PSEG Response to NRC RAI:

- a) A supplemental earthquake catalog (referred to here as the "supplemental catalog") has been compiled that encompasses the full extent of all of the EPRI-SOG source zones that were considered for the PSEG Site (see SSAR Tables 2.5.2-3 through 2.5.2-8). The supplemental catalog covers a greater extent than the update area of the updated seismicity catalog developed for the SSAR (referred to here as the "updated catalog") (see SSAR Section 2.5.2.1.2). The explicit purpose of compiling the supplemental catalog was to determine whether any earthquakes occur within the considered EPRI-SOG zones, yet outside of the updated catalog extent, that: (1) have magnitudes greater than the lower-bound maximum magnitude (Mmax) for the source zone containing the earthquake; and/or (2) imply the potential need to update the Pa value for a zone.

The supplemental catalog was compiled using web-based searches of regional and national seismicity catalogs. The regional catalogs searched were: the Lamont-Doherty Cooperative Seismographic Network, the New England Seismic Network, the Southeastern U.S. Seismic Network, the catalog of Sykes et al. (SSAR

Reference 2.5.2-80), and the Ohio Seismic Network. The national catalogs searched were: the USGS National Earthquake Information Center, the National Earthquake Database, and the Advanced National Seismic System.

The earthquakes occurring between 1 January 1985 and 19 December 2011 with magnitudes greater than or equal to 4.5 and located within 25° to 54° N and 54.5° to 89° W were extracted from the source catalogs and combined into a supplemental catalog. The earthquake magnitudes were converted to mb, and duplicate events were removed based on catalog priority as discussed in SSAR Section 2.5.2.1.2.

The supplemental catalog contains 59 earthquakes. Of these 59 earthquakes, 22 have magnitudes greater than or equal to mb 5.0 (the minimum magnitude of the EPRI-SOG PSHA), and eight occur within source zones that were considered for the PSEG Site (SSAR Tables 2.5.2-3 through 2.5.2-8). These eight earthquakes, and the zones within which they occur, are shown in Table RAI-43-2-1. The potential impact of the earthquakes on each zone is discussed below, with the exception of the August 23, 2011, Mineral, VA earthquake. This earthquake is the subject of RAI 43, Question 2.5.2-5, and is addressed in that RAI response. The Pa and Mmax values for the zones discussed in this response are shown in SSAR Table 2.5.2-3 through 2.5.2-8 and are summarized in Table RAI-43-2-2.

Bechtel – Zone BZ6

Zone BZ6 has a lower-bound Mmax value of mb 5.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 5.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 1.0 (Table RAI 43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Bechtel – Zone 2

Zone 2 has a lower-bound Mmax of mb 6.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 0.45 (Table RAI-43-2-2), but the earthquakes within the catalog do not require a revision to the Pa value because Zone 2 is one of two interpretations the Bechtel team made of the seismicity in this region. In the alternate interpretation where Zone 2 is not considered active (i.e., with a Pa of $1-0.45=0.55$), Zone BZ7 (a background zone) describes the seismicity in the region (SSAR Reference 2.5.2-36).

Bechtel – Zone C08

Zone C08 has a lower-bound Mmax of mb 6.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The zone is a combination zone and does not have an explicit Pa value (Table RAI-43-2-2).

Bechtel – Zone 3

Zone 3 has a lower-bound Mmax of mb 6.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 0.8 (Table RAI-43-2-2), but the earthquakes within the catalog do not motivate a revision to the Pa value because Zone 3 is one of two interpretations the Bechtel team made of the seismicity in this region. In the alternate interpretation where Zone 3 is not considered active, Zone 2 describes the seismicity, and, as described in SSAR Reference 2.5.2-36 (p. 4-11), the joint probability of either Zone 2 or Zone 3 being active is 1.0.

Dames & Moore – Zone 58

Zone 58 has a lower-bound Mmax value of mb 6.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Dames & Moore – Zone C02

Zone C02 has a lower-bound Mmax value of mb 5.6 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 5.6 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The zone is a combination zone and does not have an explicit Pa value (Table RAI-43-2-2).

Dames & Moore – Zone 59

Zone 59 has a Mmax value of mb 7.2 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 7.2 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Law – Zone 112

Zone 112 has a lower-bound Mmax value of mb 4.6 (Table RAI-43-2-2). This distribution is renormalized in the PSHA so that none of the Mmax values are below the minimum magnitude of the EPRI-SOG PSHA (mb 5.0) (SSAR Reference 2.5.2-36). The largest magnitude earthquake in the supplemental catalog that falls within the zone is mb 5.4 (Table RAI-43-2-1), so the Mmax for the zone potentially needs to be updated to take into account the more recent earthquakes. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Law – Zone 9

Zone 9 has a lower-bound Mmax value of mb 5.0 (Table RAI-43-2-2). The largest magnitude earthquake in the supplemental catalog that falls within the zone is mb

5.3 (Table RAI-43-2-1), so the Mmax for the zone should potentially be updated to take into account the more recent earthquakes. The Pa for the zone is 0.89 (Table RAI-43-2-2), so the Pa for the zone should potentially be updated to take into account the more recent earthquakes.

Law – Zone 12

Zone 12 has a lower-bound Mmax value of mb 6.4 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.4 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Rondout – Zone C07

Zone C07 has a lower-bound Mmax value of mb 4.8 (Table RAI-43-2-2). This distribution is renormalized in the PSHA so that none of the Mmax values are below the minimum magnitude of the EPRI-SOG PSHA (mb 5.0) (SSAR Reference 2.5.2-36). The largest magnitude earthquake in the supplemental catalog that falls within the zone is mb 5.4 (Table RAI-43-2-1), so the Mmax for the zone should potentially be updated to take into account the more recent earthquakes. The zone is a combination zone and does not have an explicit Pa value (Table RAI-43-2-2).

Rondout – Zone C02

Zone C02 has a lower-bound Mmax value of mb 4.8 (Table RAI-43-2-2). This distribution is renormalized in the PSHA so that none of the Mmax values are below the minimum magnitude of the PSHA (mb 5.0) (SSAR Reference 2.5.2-36). There are two earthquakes in the supplemental catalog with $mb \geq 5.0$ that occur within this zone (Table RAI-43-2-1). The mb 6.2 earthquake is the Saguenay earthquake, and the impact of this earthquake on the Rondout source characterization is addressed in the response to RAI 43, Question 2.5.2-4. In brief, the Saguenay earthquake is likely best represented for the Rondout team through either defining a new source zone for the Saguenay graben or expanding the St. Lawrence rift source zone, as opposed to updating Zone C02 (a large background zone that was designed to capture all leftover Grenville crust) (SSAR Reference 2.5.2-34). Therefore, the mb 6.2 earthquake does not have an impact on the Mmax distribution for Zone C02. The second earthquake within the zone has a magnitude of mb 5.4 (Table RAI-43-2-1), so the Mmax for the zone should potentially be updated to take into account this earthquake. The zone is a combination zone and does not have an explicit Pa value (Table RAI-43-2-2).

Rondout – Zone 37

Zone 37 has a lower-bound Mmax value of mb 7.1 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 7.1 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Rondout – Zone 39

Zone 39 has a lower-bound Mmax value of mb 5.8 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 5.8 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 0.99 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Weston – Zone 1

Zone 1 has a Mmax value of mb 7.2 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 7.2 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax for the zone. The Pa for the zone is 1.0 (Table RAI-43-2-2), so the supplemental catalog has no impact on the Pa value for the zone.

Woodward-Clyde – Zone 12

Zone 12 has a lower-bound Mmax value of mb 6.5 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.5 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 0.894 (Table RAI-43-2-2), but the more recent earthquakes do not provide new information that would motivate updating the Pa value of the zone. The basis for this conclusion is that the Woodward-Clyde team was aware of earthquakes within the zone with magnitudes much greater than mb 5.0 during their evaluations (e.g., 1925 Emb 6.4), and their methodology led to a Pa of 0.894. The more recent mb 5.4 (Table RAI-43-2-1) does not provide any new information that would change that original Pa evaluation.

Woodward-Clyde – Zone 14

Zone 14 has a lower-bound Mmax value of mb 6.6 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 6.6 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The Pa for the zone is 0.25 (Table RAI-43-2-2), so the occurrence of more recent earthquakes potentially motivates revising the Pa for the zone.

Woodward-Clyde – Zone C07

Zone C07 has a lower-bound Mmax value of mb 5.8 (Table RAI-43-2-2). None of the earthquakes from the supplemental catalog that occur within the zone have a magnitude greater than mb 5.8 (Table RAI-43-2-1), so the supplemental catalog has no impact on the Mmax values for the zone. The zone is a combination zone and does not have an explicit Pa value (Table RAI-43-2-2).

Summary

A supplemental earthquake catalog covering the extent of the source zones considered for the PSEG Site was developed to determine if any of the earthquakes indicated the potential need to update the P_a and/or M_{max} of any zones. This review revealed the following potential updates to the PSEG Site source characterization:

- Law
 - Update the M_{max} value for Zone 112 to account for the 1998 mb 5.4 earthquake
 - Update the M_{max} and P_a values for Zone 9 to account for the 2002 mb 5.2 earthquake
- Rondout
 - Update the M_{max} value for Zone C07 to account for the 1998 mb 5.4 earthquake
 - Update the M_{max} value for Zone C02 to account for the 1998 mb 5.4 earthquake
- Woodward-Clyde
 - Update the P_a value for Zone 14 to account for the 2005 mb 5.4 and 1997 mb 5.1 earthquakes

The impact of these potential updates to the ground motion at the PSEG Site will be presented with the response to RAI 43, Question 2.5.2-5. It is likely that any potential impact on the ground motion will be small given the relatively minor updates to the M_{max} distributions and the fact that only three of the six EPRI-SOG teams are impacted by the supplemental catalog.

- b) SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10 show an incorrect “Extent of updated seismicity” box. These figures will be revised to show the correct extent: 71°W to 80°W and 36°N to 43°N.

Table RAI-43-2-1
Earthquakes in the Supplemental Catalog with mb \geq 5.0
that occur within zones considered for the PSEG Site.

Date	Lon.	Lat.	Mag. (mb)	Seismic Zone					
				Bechtel	Dames & Moore	Law	Rondout	Weston	Woodward- Clyde
1/31/86	81.16	41.65	5	BZ6	C02	112	C07	NA	NA
11/25/88	71.18	48.12	6.2	NA	NA	NA	C02	NA	NA
11/6/97	71.42	46.8	5.1	2, C08	58	9	37	NA	12, 14
9/25/98	80.39	41.50	5.4	BZ6	C02	112	C02, C07	NA	NA
3/16/99	66.34	49.61	5.1	2, C08	58	9	39	NA	14, C07
4/20/02	73.70	44.51	5.3	NA	NA	9	NA	NA	NA
3/6/05	69.73	47.75	5.4	2, 3	59	12	37	1	12, 14
8/23/11	77.94	37.91	5.8	17, BZ5, E	41	17	29	22, C21, C22, C34	26, 27, B10

NA indicates that the earthquake does not occur within any zones for the given team.

Table RAI-43-2-2
Mmax and Pa values for Selected EPRI-SOG Zones

Team	Zone	Mmax [weight]	Pa
Bechtel	BZ6	5.4 [0.1] 5.7 [0.4] 6.0 [0.4] 6.6 [0.1]	1.0
	2	6.4 [0.1] 6.6 [0.1] 6.7 [0.4] 7.0 [0.4]	0.45
	C08	6.4 [0.1] 6.6 [0.1] 6.7 [0.4] 7.0 [0.4]	NA
	3	6.4 [0.1] 6.6 [0.1] 6.7 [0.4] 7.0 [0.4]	0.8
Dames & Moore	58	6.4 [0.75] 7.2 [0.25]	1.0
	C02	5.6 [0.8] 7.2 [0.2]	NA
	59	7.2 [1.0]	1.0
Law	112	4.6 [0.2] 5.1 [0.5] 5.5 [0.3]	1.0
	9	5.0 [0.2] 5.8 [0.5] 7.4 [0.3]	0.89
	12	6.4 [0.2] 7.4 [0.8]	1.0
Rondout	C07	4.8 [0.2] 5.5 [0.6] 5.8 [0.2]	NA
	C02	4.8 [0.2] 5.5 [0.6] 5.8 [0.2]	NA
	37	7.1 [0.1] 7.3 [0.8] 7.4 [0.1]	1.0
	39	5.8 [0.15] 6.5 [0.60] 6.8 [0.25]	0.99
Weston	1	7.2 [1.0]	1.0
Woodward -Clyde	12	6.5 [0.33] 7.0 [0.34] 7.5 [0.33]	0.894
	14	6.6 [0.33] 6.8 [0.34] 7.3 [0.33]	0.25
	C07	5.8 [0.33] 6.5 [0.34] 6.8 [0.33]	NA

NA – not applicable

Associated PSEG Site ESP Application Revisions:

In preparation of this response, two typographical errors were noted within SSAR Table 2.5.2-5.

- The Mmax distribution for Zone 9 (St. Lawrence Rift) was listed as: 5.0 [0.2], 5.8 [0.5], and 6.8 [0.3]. The correct Mmax distribution for that zone is: 5.0 [0.2], 5.8 [0.5], 7.4 [0.3].
- The Mmax distribution for Zone 102 (C. New England) was listed as: 5.7 [0.85]. The correct Mmax distribution for that zone is: 5.7 [1.0].

These typographical errors only impact SSAR Table 2.5.2-5 and do not impact any of the analyses or conclusions presented within the SSAR. SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10 will be revised to show the correct "Extent of updated seismicity" box.

The changes to SSAR Table 2.5.2-5 are provided in Enclosure 2 and the revisions to SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10 are provided in Enclosure 3.

PSEG Letter ND-2012-0009, dated February 9, 2012

ENCLOSURE 2

**Proposed Revisions
Part 2 – Site Safety Analysis Report (SSAR)**

Section 2.5.2 – Vibratory Ground Motion

Marked Up Pages

2.5-155

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

Revise to: "7.4"

**Table 2.5.2-5
Summary of Law Seismic Source Zones**

Source	Description	Closest Source to Site Distance km (mi)	Pa ^(a)	M _{max} (mb) and Wts.[]	Contributes to 99% of Hazard	New Information Requiring Change in Source	
						Geometry ^(b)	M _{max} ^(c)
9	St. Lawrence Valley Rift	500 (311)	0.89	5.0 [0.2] 5.8 [0.5] 6.8 [0.3]	Yes	No	No
12	Charlevoix-La Malbaie	943 (586)	1.0	6.4 [0.2] 7.4 [0.8]	Yes	No	No
17	Eastern Basement	55 (34)	0.62	5.7 [0.2] 6.8 [0.8]	Yes	No	No
107	Eastern Piedmont	0 (0)	1.0	4.9 [0.3] 5.5 [0.4] 5.7 [0.3]	Yes	No	No
C10	8-35	11 (7)	NA	6.8 [1.0]	Yes	No	No
C11	22-35	0 (0)	NA	6.8 [1.0]	Yes	No	No
C13	22-24-35	0 (0)	NA	6.8 [1.0]	Yes	No	No
M*	Mafic Plutons (M11, M13 to M21)	34 (21)	0.43	6.8 [1.0]	Yes	No	No
101	W. New England	78 (48)	1.0	4.5 [0.15] 5.5 [0.85]	No	No	No
102	C. New England	268 (167)	1.0	5.7 [0.85]	No	No	No
103	E. New England	142 (88)	1.0	4.5 [0.15] 5.5 [0.4] 5.7 [0.3]	No	No	No
105	N. Coastal Plain	34 (21)	1.0	4.6 [0.9] 4.9 [0.1]	No	No	No
112	Ohio-PA Block	23 (14)	1.0	4.6 [0.2] 5.1 [0.5] 5.5 [0.3]	No	No	No
M*	Mafic Plutons (M12, M22, M25, M26)	264 (164)	0.43	6.8 [1.0]	No	No	No

a) Probability of activity.

b) No, unless new information and data motivate change in EPRI-SOG geometry.

c) No, unless new information and data motivate change in EPRI-SOG M_{max}.

Revisions on this page are per Question 02.05.02-2.

Revise to: "[1.0]"

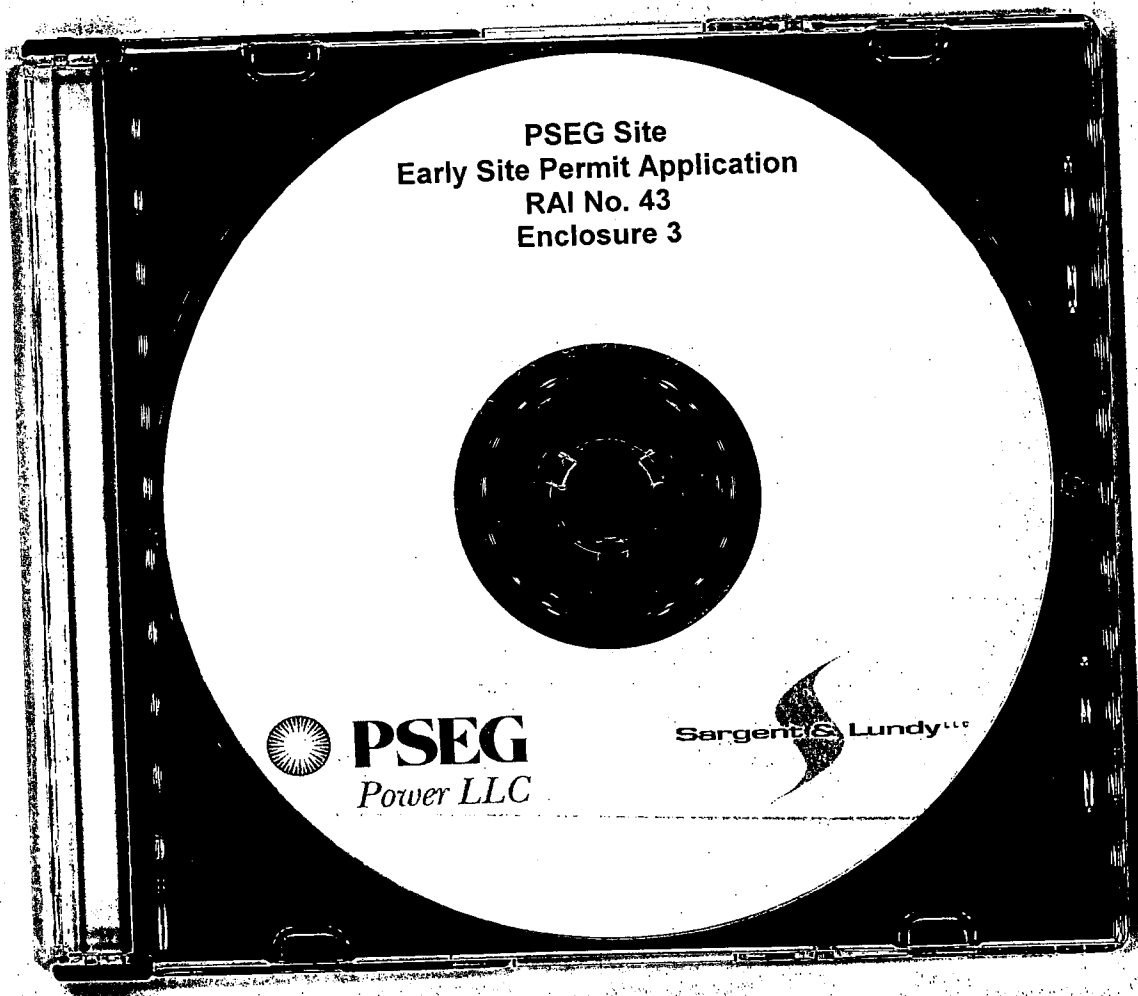
Rev. 0

2.5-155

PSEG Letter ND-2012-0009, dated February 9, 2012

ENCLOSURE 3

CD-ROM containing Revised Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10



PSEG Letter ND-2012-0009, dated February 9, 2012

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 2.5.2 to incorporate the changes in Enclosures 2 and 3 in response to NRC RAI No. 43, Question No. 02.05.02-2.	This revision will be included in a future update of the PSEG ESP application.	Yes	No