



August 9, 2012  
ND-2012-0044

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

Subject: **PSEG POWER, LLC**  
**Docket No. 52-043**  
**Documents in Support of Application**  
**Early Site Permit for the PSEG Site**

- Reference:
- 1) PSEG Power, LLC letter ND-2010-0073 to USNRC, Application for Early Site Permit for the PSEG Site, dated May 25, 2010
  - 2) PSEG Power, LLC letter ND-2012-0031 to USNRC, Submittal of Revision 1 of the Early Site Permit Application for the PSEG Site, dated May 21, 2012
  - 3) PSEG Power, LLC letter ND-2012-0035 to USNRC, Re-Submittal of Revision 1 of the Early Site Permit Application for the PSEG Site, dated June 11, 2012

In Reference 1, PSEG Power, LLC and PSEG Nuclear, LLC (PSEG) submitted an Application for an Early Site Permit (ESP) for a site near Salem, New Jersey (the PSEG Site). In Reference 2, PSEG submitted Revision 1 to the Application for an Early Site Permit (ESP). In Reference 3, PSEG provided a revised DVD in which the issues identified during NRC pre-flight checks were corrected.

Enclosure 1 provides the roadmaps for the changes made to the application in revision 1. The first roadmap contains a list of changes that were identified through the PSEG Corrective Action Process (CAP). The second roadmap is a list of changes resulting from our responses to NRC Requests for Additional Information (RAIs). Enclosure 2 provides the list of Combined License Application (COLA) action items that PSEG has committed to perform in the Early Site Permit application.

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NRO

If 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 August, 2012.

Respectfully,

A handwritten signature in black ink, appearing to read "James Mallon". The signature is fluid and cursive, with the first name "James" and last name "Mallon" clearly distinguishable.

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

Enclosure 1: Roadmaps for Changes in PSEG Early Site Permit Application, Revision 1  
Enclosure 2: PSEG Early Site Permit Application List of Combined License Application  
Action Items

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

**PSEG Letter ND-2012-0044, dated August 9, 2012**

**ENCLOSURE 1**

**Roadmaps for Changes in  
PSEG Early Site Permit Application, Revision 1**

PSEG Site ESPA  
CAP Items Roadmap

CR NO	Action Item Number	Description of Issue	Action / ESPA Document Revised	Prior NRC Correspondence
4	3	SSAR Revised per acceptance review correspondence noted in PSEG Letter No. ND-2010-0092.	SSAR Subsections 2.4.13.1.2, 2.4.13.1.4, 2.4.13.3, Table 2.4.13-1	ML102020480
5	3	SSAR Revised per acceptance review correspondence noted in PSEG Letter No. ND-2010-0094.	SSAR Section 13.6	ML102140332
8	1	Review of ER Subsections 2.2.3 and 3.7.2 identified that the mileages assigned to the Salem and Hope Creek to New Freedom transmission lines were incorrect. The correct mileages are 50 miles for Salem to New Freedom line and 43 miles from Hope Creek to New Freedom line.	ER Subsections 2.2.3 and 3.7.2	None
21	3	SSAR Subsections 2.5.4.10.2 and 2.5.4.10-3 each have a reference to 2.5.4.10-2, which is listed as not used. The correct reference is 2.5.4.10-3.	SSAR Subsections 2.5.4.10.2 and 2.5.4.10.3	None
34	1	Hydrology Audit Serial No. 6	SSAR Subsection 2.4.1.2.1	ML110950380
34	3	Hydrology Audit Serial No. 8	SSAR Subsections 2.4.1.3, 2.4.2.4, 2.4.3, 2.4.9.8 and Tables 2.4.1-5, 2.4.7-1, and 2.4.2-2, ER Subsection 2.3.4	ML110950380
34	5	Hydrology Audit Serial No. 10	SSAR Table 2.4.1-3	ML110950380
34	6	Hydrology Audit Serial No. 17	SSAR Subsection 2.4.3.3	ML110950380
34	7	Hydrology Audit Serial No. 20	SSAR Figure 2.4.2-7	ML110950380
34	8	Hydrology Audit Serial No. 21	SSAR Subsection 2.4.4.7	ML110950380
34	10	Hydrology Audit Serial No. 23	SSAR Table 2.4.6-1	ML110950380
34	11	Hydrology Audit Serial No. 24	SSAR Subsections 2.4.2.3, 2.4.3.1, 2.4.3.1.3, 2.4.3.2, 2.4.4, 2.4.4.1, 2.4.4.2, 2.4.4.3, 2.4.5, 2.4.5.1, 2.4.5.5, 2.4.7.1, 2.4.7.2.1, 2.4.8.1, 2.4.10	ML110950380
34	12	Hydrology Audit Serial No. 27	SSAR Subsection 2.4.7.1	ML110950380
34	13	Hydrology Audit Serial No. 29	SSAR Subsection 2.4.7.1	ML110950380
34	14	Hydrology Audit Serial No. 36	SSAR Subsection 2.4.7.1 and Table 2.4.7-2	ML110950380
34	15	Hydrology Audit Serial No. 39	SSAR Subsection 2.4.7.6	ML110950380
34	16	Hydrology Audit Serial No. 41	SSAR Table 2.4.7-1	ML110950380
34	17	Hydrology Audit Serial No. 42	SSAR Table 2.4.7-2 and Subsection 2.4.7-6	ML110950380
34	18	Hydrology Audit Serial No. 43	SSAR Subsection 2.4.11	ML110950380
34	19	Hydrology Audit Serial No. 45	SSAR Subsection 2.4.11.1	ML110950380
34	20	Hydrology Audit Serial No. 46	SSAR Subsection 2.4.11.3	ML110950380
34	24	Hydrology Audit Serial No. 52	SSAR Subsection 2.4.12.1.1, ER Subsection 2.3.1.2.1	ML110950380
34	26	Hydrology Audit Serial No. 58	SSAR Subsections 2.4.12.2, 2.4.12.3.2 and Table 2.4.1-9	ML110950380
34	29	Hydrology Audit Serial No. 69	SSAR Subsection 2.4.12.4.1.4	ML110950380
34	32	Hydrology Audit Serial No. 124	SSAR Subsection 2.4.5.4	ML110950380
44	2	Revised ESP description of traffic impacts within ER Subsection 4.4.1.5 and Table 4.4.2 detailing intersection level of service (LOS) changes to correspond to KLD Traffic Study TR-441 Rev 4. Table 23, Intersection LOS.	ER Section 4.4.1.5 and Table 4.4.2	None
47	1	RAI 39 identified that the value of 7.6 ft used in Section 2.4.5 should be 7.7 ft. Review of extent of SSAR Section 2.4 identified additional locations as requiring revision. Basis for change is noted in response to RAI 39, Question 02.04.05-5.	SSAR Subsection 2.4.2.1, and Tables 2.4.2-1 & 2.4.3-3	None
47	2	Review of RAI 9 indicates ER Subsection 2.1.1 should be revised to assure consistency between the SSAR and ER.	ER Subsection 2.1.1	None
47	3	Review of RAI 14 indicates ER Subsection 2.7.3.3 should be revised to assure consistency between the SSAR and ER.	ER Subsection 2.7.3.3	None
47	4	Review of RAI 32 indicates ER Subsection 2.5.1.4.2 (and associated tables and figures) should be revised to assure consistency between the SSAR and ER.	ER Subsection 2.5.1.4.2, Table 2.5-14, Figure 2.5-3	None
47	5	Review of RAIs 29 and 38 indicates ER Subsection 2.3.1.2 (and associated tables) should be revised to assure consistency between the SSAR and ER.	ER Subsections 2.3.1.2.2.1 through 2.3.1.2.2.8, 2.3.1.2.2.10 through 2.3.1.2.2.12, Table 2.3-9, Table 2.3-16	None
47	6	RAIs 6, 7 and 18 affected SSAR Tables 11.3-5 and 11.2-1. ER Tables 5.4-1 and 5.4-2 are updated for consistency between the SSAR and ER.	ER Tables 5.4-1 and 5.4-2	None
47	7	RAI 9 revised SSAR Figure 1.2-3 (and ER Figure 3.1-2 for consistency) to add FT to the NJ State Plane coordinates and UTM coordinates. For consistency, the Plant Grid Coordinates unit designation for feet is changed from ' to FT.	SSAR Figure 1.2-3 and ER Figure 3.1-2	None
47	8	Applicant Contacts and Management were updated to reflect status as of May 17, 2012. Identification of ESPA Contractors updated to reflect acquisitions (AMEC acquired MACTEC and Fugro acquired William Lettis Associates).	Part 1, Section 1.3, Table 3-1 and Table 3-2. SSAR Subsections 1.4.2 and 1.4.3.	None

PSEG Site Early Site Permit Application  
RAI Roadmap

RAI Number	eRAI	Question Number	Document to be Revised	PSEG LTR NO
1	5261	13.03-1	Eplan, Section 1, "Introduction"	ND-2011-0001
2	5207	13.03-2	Eplan, ETE Attachment 11, Table 3-4 (p. 3-11), Table 3-5 (p.3-15), Section 3-3 (p. 3-14)	ND-2011-0002
2	5207	13.03-3	Eplan, ETE Attachment 11, Section 3.6 (p.3-18)	ND-2011-0002
2	5207	13.03-4	Table E-1,2 (p. E-2,4), Figures E-1,2 (p. E-3, 7), Appendix M	ND-2011-0002
2	5207	13.03-5	Eplan, ETE Attachment 11, Table 8-2, E-1 (p. 8-16, E-2)	ND-2011-0002
2	5207	13.03-8	Eplan, ETE Attachment 11, Section 1.1 (p. 1-2), Section 9. (p. 9-2), Section 13. (p. 13-1). Appendix G (p. G-2)	ND-2011-0002
3	5321	13.06.03-1	SSAR Section 13.6	ND-2011-0003
3	5321	13.06.03-2	SSAR Subsection 2.2.2.5	ND-2011-0003
6	5421	11.03-1	SSAR Table 11.3-5	ND-2011-0007
7	5423	11.02-1	SSAR Table 11.2-1	ND-2011-0009
8	5249	02.05.04-1	SSAR Subsection 2.5.4.2, and Tables 2.5.4.2-2 and 2.5.4.2-8	ND-2011-0012
9	5357	02.01.01-1	SSAR Subsection 2.1.1.2 and Figure 1.2-3, ER Figure 3.1-2	ND-2011-0011
9	5357	02.01.01-2	SSAR Subsection 2.1.1.1 and Figure 1.2-3, ER Figure 3.1-2	ND-2011-0011
10	5358	02.01.02-1	SSAR Subsections 2.1.1.2, 2.1.2.1 and 2.1.2.2, SSAR Figure 1.2-3, ER Figure 3.1-2	ND-2011-0013
11	5424	11.03-2	SSAR Table 11.3-9	ND-2011-0010
13	5471	02.04.13-1	SSAR Subsection 2.4.13, Tables 2.4.13-1, 2.4.13-2, 2.4.13-3, 2.4.13-4, and 2.4.13-5	ND-2011-0014
13	5471	02.04.13-2	SSAR Section 1.3 and Subsection 2.4.13, Tables 1.3-1 and 1.3-9	ND-2011-0014
14	5483	02.03.01-1	SSAR Section 2.3 and Subsection 2.3.1.5.2, Table 2.3-5, 6	ND-2011-0030
14	5483	02.03.01-2	SSAR Section 2.3 and Subsection 2.3.1.5.4	ND-2011-0030
14	5483	02.03.01-3	SSAR Subsection 2.3.1.6,7	ND-2011-0030
14	5483	02.03.01-4	SSAR Subsection 2.3.1.7 and Tables 2.0-1, 2.3-14	ND-2011-0030
14	5483	02.03.01-5	SSAR Subsection 2.3.1.7	ND-2011-0030
15	5485	02.03.02-1	SSAR Subsection 2.3.2.2.2	ND-2011-0017
16	5486	02.03.05.-2	SSAR Section 2.3 and Tables 2.3-35, 36	ND-2011-0016
18	5466	11.03-3	SSAR Subsection 11.3.3, Table 11.3-8	ND-2011-0018
19	5616	17.5-1	SSAR Tables 1.9-1,2 and QAPD page 38	ND-2011-0027
20	5632	02.04.06-1	SSAR Subsections 2.4.6.1, 2.4.6.1.2,3, 2.5.1.2.3.2, 2.5.1.3 and 2.5.4.1.3	ND-2011-0026
20	5632	02.04.06-2	SSAR Subsection 2.4.6.2 and Figure 2.4.6-1	ND-2011-0026,32
20	5632	02.04.06-3	SSAR Subsections 2.4.6.1.1 and 2.4.6.9	ND-2011-0026
20	5632	02.04.06-4	SSAR Subsections 2.4.6.3.1, 2, & 2.4.6.4.4, 5, 6, 7, 8, & 2.4.6.9 and Figures 2.4.6-7 through 2.4.6-26	ND-2011-0026,32
21	5638	02.01.03-1	SSAR Subsections 2.1.3.3.2 and 2.1.3.6	ND-2011-0039
21	5638	02.01.03-2	SSAR Subsection 2.1.3.3.2 and Tables 2.1-5, 6	ND-2011-0039
22	5670	13.03-09	Part 5 Emergency Plan Attachment 10	ND-2011-0052
22	5670	13.03-10	Part 5 Emergency Plan Subsection 2.2.1	ND-2011-0052
22	5670	13.03-11	Part 5 Emergency Plan Attachment 10	ND-2011-0052
22	5670	13.03-14	Part 5 Emergency Plan Subsection 9.5.1 and Attachment 10	ND-2011-0052
22	5670	13.03-20	Part 5 Emergency Plan Subsection 17.5	ND-2011-0052
22	5670	13.03-22	Part 5 Emergency Plan Attachment 10	ND-2011-0052
23	5673	11.02-3	SSAR Subsection 11.2.3.2 and Table 11.2-9	ND-2011-0038
25	5710	02.04.01-2	SSAR Subsection 2.4.5.2.2.2; 2.4.7.2.2; 2.4.7.6; 2.4.11.1; 2.4.11.8 and Tables 2.4.1-4,5 and 2.4.2-3	ND-2011-0045,
26	5711	02.04.04-2	SSAR Subsection 2.4.4.1	ND-2011-0042
29	5714	02.04.12-1	SSAR Subsections 2.4.12.1.2,1,2,3,5,6,7,8,9,11,12,13 and Table 2.4.12-1	ND-2011-0043
29	5714	02.04.12-2	SSAR Subsections 2.4.12.4.1.1,2,3,6 and Tables 2.4.12-14,15	ND-2011-0043
29	5714	02.04.12-4	SSAR Tables 2.4.12-1 and 2.4.12-8	ND-2011-0043
30	5726	02.05.04-2	SSAR Subsections 2.5.4.8.1,3 and Table 2.5.4.8-2	ND-2011-0047
31	5720	02.04.13-12	SSAR Subsection 2.4.13.1.9 and 2.4.13.1.3	ND-2011-0048, 53
31	5720	02.04.13-3	SSAR Subsections 2.4.13.1.4 and 2.4.13.1.3	ND-2011-0048, 53
31	5720	02.04.13-4	SSAR Subsection 2.4.13.1.3	ND-2011-0048, 53
31	5720	02.04.13-5	SSAR Subsection 2.4.13.1.4	ND-2011-0048, 53

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RAI Number	eRAI	Question Number	Document to be Revised	PSEG LTR NO
31	5720	02.04.13-6	SSAR Subsection 2.4.13.1.4	ND-2011-0048, 53
31	5720	02.04.13-7	SSAR Subsection 2.4.13.1.3	ND-2011-0048, 53
31	5720	02.04.13-8	SSAR Subsection 2.4.13.1.4, Tables 2.4.13-2 thru 2.4.13-5	ND-2011-0048, 53
32	5791	02.01.03-3	SSAR Subsection 2.1.3.4, Table 2.1-7 and Figure 2.1-21	ND-2011-0063
32	5791	02.01.03-4	SSAR Subsection 2.1.3.5 Table 2.1-8	ND-2011-0063
32	5791	02.01.03-5	SSAR Subsection 2.1.3.5	ND-2011-0063
32	5791	02.01.03-6	SSAR Subsection 2.1.3.5	ND-2011-0063
33	5843	02.03.01-6	SSAR Subsection 2.3.1.7, Table 2.0-1	ND-2011-0057
34	5844	02.03.04-2	SSAR 2.3.2.2.1.2, 2.3.4.1	ND-2011-0058
35	5845	02.03.05-3	SSAR Subsection 2.3.5.1	ND-2011-0059
35	5845	02.03.05-4	SSAR Subsection 2.3.5.2 New Table 2.3-37	ND-2011-0059
35	5845	02.03.05-5	SSAR Subsection 2.3.5.1	ND-2011-0059
37	5963	11.03-7	SSAR Table 11.3-6	ND-2011-0061
38	5973	02.04.12-6	SSAR Subsections 2.4.12.2.2, 2.4.12.3.2, 2.4.12.4.1.1,2,3,4,5, Table 2.4.12-14 and Figure 2.4.12-30	ND-2011-0062
39	6051	02.04.05-1	SSAR Subsection 2.4.5.1 Table 2.4.5-2	ND-2011-0064,66
39	6051	02.04.05-2	SSAR Subsection 2.4.5.1, 2.4.5.2.2 Table 2.4.5-3	ND-2011-0064,66
39	6051	02.04.05-5	SSAR Subsection 2.4.5.2.1,2	ND-2011-0064,66
40	6145	03.05.01.06-1	SSAR Subsections 2.2.2.7.2 & 3.5.1.6.2	ND-2011-0067 ND-2012-0017
41	6153	02.05.04-10	SSAR Subsections 2.5.4.2.2.1.9 and 2.5.4.10.2, and Table 2.5.4.2-8	ND-2012-0001
41	6153	02.05.04-12	SSAR Subsection 2.5.4.2.3 and Table 2.5.4.2-8	ND-2012-0001
41	6153	02.05.04-16	SSAR Subsection 2.5.4.5.3	ND-2012-0001
41	6153	02.05.04-4	SSAR Figures 2.5.4.1-11A, B and C; 2.5.4.1-12A and B; 2.5.4.1-13A, B and C; 2.5.4.1-14A and B; 2.5.4.4-2A, B and C; 2.5.4.4-3A and B; 2.5.4.4-4A, B and C; 2.5.4.4-5A and B; 2.5.4.7-1A, B and C; 2.5.4.7-2A and B; 2.5.4.7-3A, B and C; 2.5.4.7-4A and B.	ND-2012-0001
41	6153	02.05.04-9	SSAR Subsection 2.5.4.2.2.1.5	ND-2012-0005
42	6160	02.05.01-15	SSAR Figures 2.5.1-40 and 2.5.4.1-6	ND-2011-0069
42	6160	02.05.01-16	Subsection 2.5.1.2.4	ND-2011-0069
42	6160	02.05.01-2	SSAR Figure 2.5.1-10	ND-2011-0069
42	6160	02.05.01-3	Subsection 2.5.1.1.5, Subsection 2.5.1.1.5.4	ND-2012-0004
42	6160	02.05.01-7	Subsection 2.5.1.1.4.2.5.11	ND-2012-0004
42	6160	02.05.01-8	SSAR Figure 2.5.1-17	ND-2011-0069
42	6160	02.05.01-9	Subsection 2.5.1.1.4.2.5	ND-2011-0069
43	6162	02.05.02-2	SSAR Table 2.5.2-5, SSAR Figures 2.5.2-3 and 2.5.2-5 through 2.5.2-10	ND-2012-0009
43	6162	02.05.02-7	Subsection 2.5.2.4.2.1	ND-2012-0002
44	6164	02.05.03-1	Subsection 2.5.3.1.2	ND-2012-0007
44	6164	02.05.03-10	Subsection 2.5.3.2.2	ND-2012-0010
44	6164	02.05.03-12	Subsection 2.5.3.8, SSAR Figure 2.5.3-1	ND-2012-0003
44	6164	02.05.03-13	SSAR Figure 2.5.3-1	ND-2012-0010
44	6164	02.05.03-8	Subsection 2.5.1.2.4.1	ND-2012-0010
46	6219	11.03-8	SSAR Table 1.3-7	ND-2012-0023
47	6241	13.03-27	SSAR Section 13.3	ND-2012-0015
48	6226	02.03.01-7	Subsection 2.3.1.5.4 & SSAR Table 2.0-1	ND-2012-0011
49	6249	02.01.01-3	Subsection 2.1.1.3	ND-2012-0012
50	6283	02.02.01-02.02.02-1	SSAR Subsection 2.2.1 and SSAR Figure 2.2.1	ND-2012-0016
52	6285	02.02.03-5	SSAR Table 2.2-3	ND-2012-0021
54	6287	02.02.03-3	SSAR Subsection 2.2.3.2.2	ND-2012-0014
55	6289	02.02.03-4	SSAR Subsection 2.2.3.2.1, 2.2.3.2.2, 2.2.3.2.4, 2.2.3.2.6, Table 2.2-14 and Table 2.2-15	ND-2012-0027
56	6309	02.03.01-8	SSAR Table 2.0-1, Subsection 2.3.1.5.3 and New Table 2.3-38	ND-2012-0019
58	6250	02.01.02-4	SSAR Subsection 2.1.2.1 and 2.1.2.2	ND-2012-0025
58	6250	02.01.02-5	SSAR Subsection 2.1.2.2	ND-2012-0025
58	6250	02.01.02-6	SSAR Subsection 2.1.2.1	ND-2012-0025

PSEG Site Early Site Permit Application  
RAI Roadmap

RAI Number	eRAI	Question Number	Document to be Revised	PSEG LTR NO
59	6255	02.01.03-7	SSAR Subsection 2.1.3.6	ND-2012-0024
60	6239	02.04.13-14	SSAR Subsection 2.4.13	ND-2012-0028

**PSEG Letter ND-2012-0044, dated August 9, 2012**

**ENCLOSURE 2**

**PSEG Early Site Permit Application  
List of Combined License Application Action Items**



COL Actions		
Action Item No.	Section	Statement
2.1-1	2.1.2.1	PSEG will obtain legal authority from the USACE prior to the issuance of the COL that will either allow PSEG and its surrogates to control activities on this land or obtain an agreement with the USACE that provides assurances that the USACE will control activities and access if required.
2.2-1	2.2.3.2	On-site chemical storage for the new plant is not included in the ESPA and is analyzed for the combined license application (COLA) when the new plant reactor technology is selected.
2.2-2	2.2.3.2.2	A review of the supporting calculations for this section, including a review of the distances from chemicals to safety-related buildings, will be analyzed at the COLA stage when a reactor technology is selected.
2.2-3	2.2.3.2.6	The conditional probability ( <i>due to explosion</i> ) is unknown at this time and will be evaluated at COL when a reactor technology is selected.
2.4-1	2.4.1.1	Floor elevations for safety-related structures, systems and components (SSC) for the new plant, other than the intake structure, will be established to maintain one foot of clearance above the DBF, as required by Tier 1 of the design control document (DCD) for the technology selected.
2.4-2	2.4.2.3	The new plant area will be graded to ensure that PMP runoff drains away from safety-related SSC via overland flow to outfalls that discharge to the Delaware River. The local PMP event will not affect the new plant safety-related facilities. The location and design of stormwater management systems for the new plant have not been determined for this early site permit application. This will be done as part of detailed engineering design and will be described in the combined license application.
2.4-3	2.4.3.2	The intake structure will be designed to protect it from debris resulting from the PMF.
2.4-4	2.4.3.3	Safety-related SSC will be protected against erosion and deposition that could affect the integrity of those facilities.
2.4-5	2.4.4	The new plant's UHS or SWS may include mechanical draft cooling towers with basins designed to hold water volumes as required by RG 1.27, Ultimate Heat Sink for Nuclear Power Plants, Revision 2, 1976, and the appropriate design control document. These basins will be designed to not adversely impact operation of any safety-related SSC following a design basis event.
2.4-6	2.4.7.2.2	The invert elevations of the new plant intake structure will be set at an elevation to maintain operations during low water conditions. Intakes will be designed to assure that adequate water is available in the event of low water conditions. Design features to address floating and frazil ice will be included.
2.4-7	2.4.7.4	In accordance with ANS 2.8, Section 8.3, the intake structure at the new plant location will be designed with protective measures to mitigate potential effects from frazil ice, surface ice, and other dynamic forces associated with ice effects.
2.4-8	2.4.10	The intake structure will be designed to be protected from the effects of flooding and to withstand the applicable hydrodynamic forces, including wave forces, in accordance with RG 1.27, 1.59, and 1.102.
2.4-9	2.4.12.3.3	Once the final technology is selected and the footprint of the new plant determined, the existing PSEG groundwater monitoring programs will be evaluated with respect to placement of the new plant to determine if any additional monitoring of existing or construction of new observation wells will be required to adequately monitor groundwater levels. This evaluation will include a review of the observation wells installed for the ESPA to determine if they may be used as part of a longer-term groundwater monitoring program. The results will be presented in the combined license (COL) application.
2.4-10	2.4.12.4.1.1	The design of the dewatering system is further evaluated in the COL application after the technology and plant layout is selected.
2.5-1	2.5.1.2.5.2	The foundation-bearing layer (competent unit) considers the presence and removal of softer soils and will be confirmed during more detailed COLA investigations for the Category 1 structures and construction excavation mapping.
2.5-2	2.5.4.5	Specific details regarding these items will be addressed in the COLA for the plant design technology selected.
2.5-3	2.5.4.5.2.1	The method of excavation support and the stability of temporary excavation slopes or support are evaluated in the combined license application (COLA).
2.5-4	2.5.4.5.3	Details for the backfill quantities, types and sources will be discussed in the COLA. Lateral loading conditions are not included as part of the ESPA because information on the type and characteristics of these backfill materials is not available. Additionally, the reactor technology, and its corresponding foundation depth, has not been selected. Lateral pressure evaluation from backfill materials will be evaluated during the COLA phase.
2.5-5	2.5.4.6.3.1	The groundwater flow model and the excavation system and sequence are preliminary at the ESPA stage; further evaluation of dewatering and potential impacts discussed in the subsections below will be performed during the COLA.
2.5-6	2.5.4.8.5	Further evaluation of non-seismic liquefaction will be performed during the COLA.
2.5-7	2.5.4.11	Consideration of settlement and construction groundwater control will be addressed in the COLA.
2.5-8	2.5.5.1	Slope stability analysis for the selected technology will include the evaluation of deep slope failure surfaces that may extend into the Delaware River and various water level considerations. This analysis will be completed during the COLA phase of the project.
13.3-1	13.3	At COL, PSEG will update the Emergency Plan to identify the specific monitoring capability for the radiological parameters identified in Regulatory Guide 1.97.
13.3-2	13.3	When a reactor technology selection is made and a combined license (COL) application is prepared, the specific design features to assure site security in compliance with 10 CFR 73.55, will be defined.
15.2-1	15.2	Radiological consequences related to control room personnel will be evaluated as part of the combined license (COL) review.