

April 17, 2009

MEMORANDUM TO: Belkys Sosa, Branch Chief  
ESBWR/ABWR Projects 2  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Raj Anand, Project Manager **/RA/**  
ESBWR/ABWR Projects 2  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SUMMARY OF MARCH 23, 2009 PRE-APPLICATION MEETING WITH  
PUBLIC SERVICE ENTERPRISE GROUP TO DISCUSS PLANT  
PARAMETER ENVELOPE APPROACH FOR THEIR EARLY SITE  
PERMIT APPLICATION

On March 23, 2009, the Office of New Reactors (NRO) staff held a public meeting with the representatives from Public Service Enterprise Group (PSEG) in Rockville, Maryland to discuss the Plant Parameter Envelope (PPE) approach for their Early Site Permit (ESP) application. PSEG plans to submit their ESP application to the U.S. Nuclear Regulatory Commission (NRC) during the second quarter of 2010. The reactor designs under consideration include AP1000, ABWR, EPR, and USAPWR.

The meeting agenda is provided as Enclosure 1. A list of the meeting attendees is attached as Enclosure 2. PSEG presentation slides discussed during the meeting are included as Enclosure 3.

CONTACT: Raj Anand, DNRL/NRO  
301-415-1146  
[Raj.Anand@nrc.gov](mailto:Raj.Anand@nrc.gov)

Project No. 0771

Enclosure:  
As stated

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<b>OFFICE</b>	NRO:DNRL:NGE2:PM	NRO:DNRL:NGE2:LA	NRO:NRGA	NRO:DNRL:NGE2:BC
<b>NAME</b>	RAnand	BAbeywickrama	NGilles	BSosa w/comments
<b>DATE</b>	04/06/2009	04/06/2009	04/16/09	04/17/2009

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**Meeting with Public Service Enterprise Group  
Plant Parameter Envelope Approach for Their Early Site Permit Application  
March 23, 2009**

On March 23, 2009, the Office of New Reactors (NRO) staff held a public meeting with representatives from Public Service Enterprise Group (PSEG) in Rockville, Maryland to discuss the Plant Parameter Envelope (PPE) approach for their anticipated Early Site Permit (ESP) application. The staff discussed the lessons learned from the three previously submitted ESP applications, site specific issues, and the requirements contained in NUREG-0800 (Standard Review Plan for the Review of Safety Analysis Reports) and NUREG-1555 (Standard Review Plan for the Review of Environmental Reports). The staff also provided clarifications to frequently used terminology and definitions in an ESP application such as design parameters, site parameters, design characteristics and site characteristics. The staff suggested that in addition to the published guidance documents for ESP applications, insights into the PPE approach could be obtained from Atomic Safety and Licensing Board (ASLB) hearing records and RAI responses from the first three ESP applications.

The staff informed PSEG that a number of new Internal Staff Guidance (ISG) documents are being developed that could provide helpful information including siting treatment of accidental releases into ground water. A list of such ISGs (ML090980479) were provided during the Regulatory Information Conference (RIC) held in Rockville, Maryland on March 10-12, 2009.

The staff discussed the emergency planning (EP) approach. The staff discussed two general methods of addressing EP which other applicants have utilized:

1. Providing a revision of the existing site emergency plan to address the changes needed to incorporate the new unit(s), or
2. Provide a separate emergency plan for the new unit(s) that may or may not incorporate some common EP elements for an existing site.

In response to PSEG's question concerning interactions with the Federal Emergency Management Agency (FEMA), the staff encouraged PSEG to reach out to State and County governments and to FEMA Regional Offices concerning PSEG's ESP intentions. FEMA will be interacting directly with PSEG in regards to questions related to the review of offsite EP for the proposed ESP.

PSEG asked if the staff has a specific format in mind for the PPE table in the ESP application. In the three previous ESP applications, the PPEs submitted to the U.S. Nuclear Regulatory Commission (NRC) were presented in different formats. One ESP application provided the PPE design parameter values in one table with the definitions of the design parameters provided in a separate table. The PPE site characteristic values were provided separately. Another ESP application provided a PPE table which listed design parameter and site characteristic values in two columns with the definitions of parameters provided on a separate table. The third ESP application provided a PPE table which listed "Bounding Values" (design parameters and site characteristics) in a single column with the definition of the parameter on the same page. The staff prefers an approach that lists both the design parameters and site characteristics with definitions together in one table.

PSEG asked if the staff has a preference regarding where the PPE should be provided in the ESP application. The staff stated the Standard Review Plan (SRP) states that PPE information should be provided in the Site Safety Analysis Report, and it should also be referenced in the environmental report.

The NRC plans to conduct a public outreach meeting in the vicinity of the site to explain the ESP process in the first quarter of 2010.

No members of the public participated in this meeting.

**Meeting Agenda**  
**PSEG Meeting on Plant Parameter Envelope (PPE) Approach**  
**Monday, March 23, 2009**  
**U. S. Nuclear Regulatory Commission Headquarters**  
**10:00 a.m. - Noon**  
**Room T-9A1**

10:00 a.m. – 10:10 a.m.	Introductions
10:10 a.m.– 10:40 a.m.	PSEG staff explanation of PPE approach
10:40 a.m.– 11:40 a.m.	Discussion with NRC staff regarding PPE approach
11:40 a.m. – Noon	Questions from members of the public
Noon	Adjourn

Enclosure 1

**MEETING WITH PUBLIC SERVICE ENTERPRISE GROUP (PSEG)  
PLANT PARAMETER ENVELOPE APPROACH  
March 23, 2009**

**Attendees List**

<b>Name</b>	<b>Affiliation</b>
Raj Anand	NRC
Nanette Gilles	NRC
Jamie Mallon	Public Service Enterprise Group
Mike Shervin	Sargent and Lundy
Gary Janosko	Public Service Enterprise Group
Mike Launi	Sargent and Lundy
Rocky Foster	NRC
Dan Barss	NRC
Michelle Hart	NRC
Brent Clayton	NRC
Dan Barnhurst	NRC
Joe Giaunto	NRC
Goutam Bagchi	NRC
Belkys Sosa	NRC
Brad Harvey	NRC
Kevin Quinlan	NRC