



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

July 22, 2010

**LICENSEE:** Carolina Power & Light Company

**FACILITY:** Brunswick Steam Electric Plant, Units 1 and 2

**SUBJECT:** SUMMARY OF APRIL 7, 2010, MEETING WITH PROGRESS ENERGY TO DISCUSS PLANNED AMENDMENT REQUESTS AT BRUNSWICK, UNITS 1 AND 2 (TAC NOS. ME3554 AND ME3555)

On April 7, 2010, the Nuclear Regulatory Commission (NRC) staff conducted a Category 1 public meeting with Progress Energy, representing Carolina Power & Light Company (the licensee), at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss the licensee's planned license amendment request to adopt the AREVA topical report, ANP 10298P, Revision 0, "ACE/ATRIUM 10XM Critical Power Correlation," at the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. The licensee plans to load 226 fresh ATRIUM-10XM (A10XM) fuel assemblies, if approved by the NRC, at BSEP, Unit 2 for Cycle 20 in spring 2011. This was not intended as a decision-making meeting. A list of attendees is provided in the enclosure. The licensee's slide presentation may be accessed from the NRC's Agencywide Documents Access and Management System through Accession No. ML100980004.

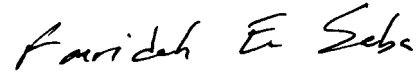
During the meeting, the licensee presented an A10XM fuel design overview, which included the operating experience and the AREVA new fuel design licensing process. In the background section of its presentation, the licensee stated that because of the NRC's feedback during a meeting in August 2009, the licensee decided to submit the maximum extended load limit line analysis plus application after its request for A10XM amendment is approved. In addition, the licensee stated that the A10XM core operating limit report (COLR) limits are calculated based on two NRC-approved methodologies, namely: 1) BAW-10726PA RODEX4, mechanical methodology, which was approved in February 2008, and 2) ANP-10298PA/A10XM Critical Power Ratio (CPR) correlation, which was approved in March 2010. The licensee also pointed out that it will follow the process outlined in ANF-89-98(P)(A) Revision 1 and Supplement 1, May 1995, "Generic Mechanical Design Criteria for BWR [Boiling Water Reactor] Fuel Designs," with NRC-accepted clarifications in letter dated May 31, 2000.

During the meeting, the licensee presented its plans for submitting two license amendments in April 2010, to calculate the COLR limits for A10XM fuel: ACE/A10XM CPR correlation and RODEX4 mechanical methodologies. Furthermore, the licensee stated that a separate safety limit maximum CPR licensing amendment request is expected to be submitted in September 2010. During the meeting, the NRC staff and the licensee discussed challenges regarding application of the ANP-10298PA process and the licensee-requested approval date for the licensee's planned submittals. The NRC staff specifically noted that the licensee should have contingency plans for the BSEP, Unit 2 refueling outage in spring 2011, in case the A10XM is not approved prior to this outage. In addition, the licensee listed in its presentation reports that support the planned licensing amendment requests, which will be provided to the NRC for information.

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Although members of the public were invited, none were in attendance. No Public Meeting Feedback Form was received.

Please direct any inquiries to me at 301-415-1447, or [farideh.saba@nrc.gov](mailto:farideh.saba@nrc.gov).

A handwritten signature in black ink that reads "Farideh E. Saba". The signature is written in a cursive style with a large initial 'F'.

Farideh Saba, Senior Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-325 and 324

Enclosure: List of Attendees

cc w/encl: Distribution via Listserv

LIST OF ATTENDEES

U. S. NUCLEAR REGULATORY COMMISSION

PUBLIC MEETING WITH PROGRESS ENERGY

REGARDING BRUNSWICK UNITS 1 AND 2 PLANNED AMENDMENT REQUESTS

APRIL 7, 2010

NRC

F. Saba  
P. Yarsky  
T. Huang  
A. Attard  
S. Wu  
A. Ulises  
K. Wood

Progress Energy

B. Murray  
E. Geyer  
J. Siphers  
R. Thomas

AREVA

A. Meginnis  
S. Cole  
D. Carr  
R. DeSteese (by telephone)

Enclosure

Although members of the public were invited, none were in attendance. No Public Meeting Feedback Form was received.

Please direct any inquiries to me at 301-415-1447, or [farideh.saba@nrc.gov](mailto:farideh.saba@nrc.gov).

*/RA/*

Farideh Saba, Senior Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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ADAMS Accession No. Meeting Notice: ML100820171

Summary: ML101040596, Slides: ML100980004, Package: ML100980003

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