

May 3, 2012

MEMORANDUM TO: Mark Tonacci, Chief
Licensing Branch 4 (LB4)
Division of New Reactor Licensing
Office of New Reactors

FROM: Amy Snyder, Senior Project Manager */RAI/*
Licensing Branch 4 (LB4)
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF A PUBLIC MEETING AND CONFERENCE CALL WITH
PROGRESS ENERGY FLORIDA ON APRIL 27, 2012, REGARDING
LEVY UNITS 1 AND 2 COMBINED LICENSE APPLICATION AND
SEISMIC REQUESTS FOR INFORMATION IN RESPONSE TO
LESSONS LEARNED FROM FUKUSHIMA EARTHQUAKE AND
TSUNAMI

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public meeting on April 27, 2012, at 1:30 p.m., at NRC's Headquarters Office located in Rockville, Maryland. The NRC's Office of New Reactors staff met with Progress Energy Florida (PEF) to discuss PEF's proposed plans to respond to the March 15, 2012, request for information (RAI) Letter No. 108 (Agencywide Documents Access Management System (ADAMS) Accession No. ML120550146) regarding how PEF has addressed or plans to address the evaluation of the Levy Nuclear Plant (LNP) site for updated seismic hazards [Near Term Task Force (NTTF) Recommendation 2.1]. The seismic re-evaluation is one of the four actions in SECY-12-0025, "Proposed Orders and Requests for Information in Response to Lessons Learned from Japan's March 11, 2011, Great Tohoku Earthquake and Tsunami," dated February 17, 2012 (ADAMS Accession No. ML12109A201). Recommendation 2.1 specifies the use of the Central and Eastern U.S. Seismic Source Characterization (CEUS-SSC) model that was published January 2012 (NUREG-2115) to determine the seismic hazard, as well as specifies restrictions on the use of the cumulative absolute velocity filter when conducting seismic evaluations.

In response to the RAI letter, dated March 28 (ADAMS Accession No. ML12109A201) and April 12, 2012 (ADAMS Accession No. ML12108A016), PEF informed the staff that it plans on submitting its completed response to the RAI Letter No. 108 concerning NTTF Recommendation 2.1 in August 2012.

Enclosed are the meeting agenda (Enclosure 1) and the meeting attendees list (Enclosure 2). The meeting notice is in ADAMS (Accession No. ML12101A367).

CONTACT: Amy Snyder, NRO/DNRL
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Discussion

The purpose of the meeting is for the Levy Units 1 and 2 combined license (COL) applicant to describe its planned approach to address the NTTF seismic reevaluation recommendation (NTTF Recommendation 2.1 - Enclosure 7 of SECY-12-0025, "Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident") in its COL application for two Westinghouse AP1000 advanced passive pressurized water reactors to be located at the LNP site in Levy County, Florida, and for the staff to ask questions or note any concerns.

PEF presented its proposed technical approach (ADAMS Accession No ML12115A315) to the staff. PEF explained that it performed a preliminary evaluation by adjusting the model that it used previously to obtain an early indication of the impact of the new CEUS SSC model. PEF concluded that it anticipates that the impact of using the new CEUS SSC source model will result in a slightly lower hard rock hazard response spectra at the LNP site than what is currently presented in its final safety analysis report for the Levy Units 1 and 2 COL. PEF said that its preliminary evaluation will be followed by full implementation of the CEUS SSC model. PEF explained that it believes that when it evaluates the seismic hazard using the CEUS SSC model, the seismic hazards for the LNP site will be bounded by the AP1000 design. NRC staff asked PEF questions regarding PEF's technical approach for the preliminary evaluation, as well as for the new CEUS SSC source model evaluation.

For planning purposes, PEF presented two options (Option A and Option B) to account for the two possible outcomes that it believes it may be faced with as it conducts the reevaluation of the Ground Motion Response Spectra (GMRS) for the LNP site. PEF explained that Option A represents PEF's expected outcome. PEF expects that the CEUS SSC modeling results will be bounded by the previous modeling results. With Option A, PEF estimates submittal of the modeling results to the NRC by the end of July 2012 followed by an updated COL application (Revision 5) by the end of August 2012. PEF defined Option B as the scenario where the new modeling results are not bounded by the previous modeling results and thus PEF would have to perform more evaluations. PEF estimates that Option B will add approximately 3 months to projected schedule for Option A because in this situation, PEF would ask the AP1000 design certification amendment holder, Westinghouse Electric Company, LLC (WEC), to perform the soil structure interaction analysis to generate floor response spectra bearing pressure, and base shear input to complete its CEUS SSC seismic hazards evaluation.

PEF informed the staff that it estimates that it will have its CEUS SSC seismic hazards evaluation ready to show the NRC staff in early July 2012 and if more work needs to be done, PEF estimated that at the earliest it would have the WEC input sometime in November 2012. NRC suggested that potentially it might be beneficial for the NRC seismic staff to conduct an audit to help the staff understand PEF's seismic evaluations. If PEF decides it must pursue Option B, then NRC suggested that a separate structural audit may also be useful to the staff's understanding of the LNP analyses and that it may be prudent to conduct a series of audits, one

M. Tonacci

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in July 2012 and one after the PEF obtains modeling input from WEC (in the November 2012 time frame) to help the staff understand the evaluations. PEF agreed to keep NRC staff informed of its progress with regard to responding to NTTF Recommendation 2.1.

Docket Nos.: 052-029 and 052-030

Enclosures:

1. Meeting Agenda
2. Meeting Attendees List

cc w/encls: See next page

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cc w/encls: See next page

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ML12123A186 - Package
 ML12101A367 - Meeting Notice
 ML12109A201 - RAI Draft Response
 ML12108A016 – RAI 30-Day Response
 ML12115A315- PEF’s Slide Presentation
 ADAMS Accession No.: ML12122A947-Meeting Summary NRC-001

OFFICE	LA: DNRL/LB4	PM: DNRL/LB4
NAME	RButler	ASnyder
DATE	05/02/2012	05/03/2012

AGENDA FOR PUBLIC MEETING

UNITED STATES NUCLEAR REGULATORY COMMISSION

Public Meeting with Progress Energy – Florida (PEF)

Friday, April 27, 2012

1:30 p.m. – 4:30 p.m.

PURPOSE: For the Levy Units 1 and 2 combined license applicant (COL) applicant to describe its planned approach to address a Fukushima Near-Term Task Force (NTTF) recommendation related to a seismic reevaluation (detailed Fukushima NTTF Recommendation 2.1 - Enclosure 7 of SECY-12-0025, “Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident”) in the Levy Units 1 and 2 COL application, and for the staff to ask questions or note any concerns.

Time	Topics	Lead By
1:30 p.m. – 1:35 p.m.	Introduction	NRC/PEF
1:35 p.m. – 4:15 p.m.	Discussion of approach to address NTTF Recommendation 2.1	NRC/PEF
4:15 p.m. – 4:30 p.m.	Summary and Conclusion	NRC/PEF

NRC/PEF Public Meeting and Conference Call

April 27 2012

List of Attendees

Purpose: For the Levy Units 1 and 2 combined license applicant (COL) applicant to describe its planned approach to address a Fukushima Near-Term Task Force (NTTF) recommendation related to a seismic reevaluation (detailed Fukushima NTTF Recommendation 2.1 - Enclosure 7 of SECY-12-0025, "Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident") in the Levy Units 1 and 2 COL application, and for the staff to ask questions or note any concerns.

Name	Organization
Don Habib	NRO/DNRL/LB4
Amy Snyder	NRO/DNRL/LB4
Gerry Stirewalt	NRO/DSEA/RGS2
Richard Laura	NRO/JLD/PMB
A.K. Singh	Sargent & Lundy/Progress Energy
Vann Stephenson	Progress Energy
Robert Youngs	AMEC Environment & Infrastructure
Mark Tonacci	NRO/DNRL/LB4
Parvin Patel	NRO/DE/SEB1
Vaughn Thomas	NRO/DE/SEB1
Susan Vrahoretis	OGC/GCHEA/AGCNRP
Rebecca Karas	NRO/DSEA/RGS1
Robert Kitchen	Progress Energy Florida/Licensing
Mohamed Shams	NRO/DE/SEB1
David Waters*	Progress Energy

*--Via Phone

NRC/PEF Public Meeting and Conference Call

April 27 2012

List of Attendees (continued)

Name	Organization
Steve Franzone. et al.*	Florida Power and Light, Turkey Point COLA
Stephanie Devlin*	NRO/DSEA/RGS2
Vladimir Graizer	NRO/DSEA/RGS2
Guy Cesare, et al.*	Enercon Licensing
Jan Bergman*	Sciencetech/CWFC
Mari Johanna Jaworsky, et al.*	Duke Energy
James Smit*	Nexus Engineering
Ron Anstey, et al.*	Bechtel Corporation
Clifford Munson	NRO/DSEA
Mark Laux*	PSC State of Florida
Frank Akstulewicz	NRO/DNRL
Michael Gray*	Lettis Consultants International
Michelle Benson	NRO/DSEA/RGS2 (Rotation from RES)
SarahTabatabai*	NRO/DSEA/RGS2

*--Via Phone

COL - Progress Energy - Levy County Mailing List
cc:

(Revised 03/15/2012)

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Public Citizens Critical Mass Energy
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Assistant Regional Administrator
NOAA Fisheries Southeast Regional Office
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Vice President
Nuclear Plant Development
Progress Energy Florida, Inc.
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COL - Progress Energy - Levy County Mailing List

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