May 19, 2008

APPLICANT: Southern Nuclear Operating Company

FACILITY: Vogtle Early Site Permit

SUBJECT: Summary of April 8, 2008, Meeting with Southern Nuclear Operating Company to Discuss Vogtle Hydrology Modeling Topics

On April 8, 2008, the U.S. Nuclear Regulatory Commission (NRC) staff held a Category 1 public meeting at NRC Headquarters, 11545 Rockville Pike, Rockville, Maryland, with representatives from Southern Nuclear Operating Company (SNC). The purpose of the meeting was to discuss Southern's hydrology modeling used for the Site Safety Analysis Report (SSAR) in the Vogtle Early Site Permit application. The meeting agenda is provided as Enclosure 1 and attendees are identified in Enclosure 2.

This meeting summary and the associated meeting notice are available through the Agencywide Documents Access and Management System (ADAMS) as a package at Accession Number ML081350178. ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at http://www.nrc.gov/reading-rm/adams.html. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

The meeting objectives were to discuss the hydrology model used by SNC to develop Section 2.4 of the SSAR and come to an understanding of what must be done to complete the modeling and close the open items in the Safety Evaluation Report.

Presentations were made by the NRC contractor, Pacific Northwest National Laboratory (PNNL); and the Southern Nuclear contractor, Bechtel.

PNNL's presentation, available at ML081000526, summarized the findings of the PNNL review of the Bechtel hydrology model and analysis. The review concluded that the process followed by the applicant to arrive at the preferred pathway on which they base their analysis must be described. Re-simulation of existing (or new) modeling efforts will be needed to achieve improved convergence and mass balance. This will establish confidence in model results.

Bechtel's presentation, available at ML081000502, outlined details of the process by which the model was developed. These were not documented in the application. Some of the graphics presented showed data supporting intermediate decisions in the modeling process. It was noted that information on the process followed by the applicant to arrive at their preferred conceptual model is available in files and calculation packages. However, new model runs held to tighter convergence criteria, and achieving an improved mass balance would be required.

Members of the public were in attendance. No public meeting feedback forms were received. Please direct any inquiries to Jan Mazza at 301-415-0498, Jan.Mazza@nrc.gov.

/RA/

Jan Mazza, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No: 52-011

Enclosures:
1. Meeting Agenda
2. List of Attendees

cc w/encl: See next page

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/RA/

Jan Mazza, Project Manager
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NAME	JMazza	KGoldstein	SCoffin
DATE	5/18/2008	5/15/2008	5/19/2008

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AGENDA FOR PUBLIC MEETING
WITH SOUTHERN NUCLEAR TO DISCUSS HYDROLOGY MODELING
TOPICS AT THE VOGTLE SITE

TUESDAY, APRIL 8, 2008

1:00 p.m.	Opening Remarks	NRC
1:10 p.m.	Presentation on Hydrology Modeling Using Southern Nuclear Inputs	NRC/Contractor
2:30 p.m.	Presentation on Hydrology Modeling by Southern	SNC/Contractor
3:45 p.m.	Questions from the public	NRC
4:00 p.m.	Adjourn	

Enclosure 1

Vogtle Hydrology Modeling Topics Meeting
April 8, 2008
Attendance List

Name	Organization
Charles Kincaid	PNNL
Hosung Ahn	NRC/NRO/DSER
Jan Mazza	NRC/NRO/NWE1
Lance Vail	PNNL
Philip Meyer	PNNL
Jim Davis	SNC
Stewart Taylor	Bechtel
Angelos Findikakis	Bechtel
Dale L. Fulton	SNC
John Prebula	Bechtel
David Fenster	Bechtel
Jeff Pantazes	PSEG
Ralph Cady	RES/NRC
Adam Schwartzman	NRC/RES
Joe Mihalcik	Unistar
Mark Thaggard	NRC/NRO/DSER
Christain Araguas	NRC/NRO/DNRL
Goutam Bagchi	NRC/NRO/DSER
Bob Prunty	Bechtel
Chuck Pierce	SNC
Tom Nicholson	NRC/RES
Stephanie Coffin	NRC/NRO

Enclosure 2