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

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
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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