

July 7, 2008

MEMORANDUM TO: Stephanie M. Coffin, Branch Chief  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Jan Mazza, Project Manager */RA/*  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SOUTHERN NUCLEAR OPERATING COMPANY (SNC) EARLY SITE  
PERMIT (ESP) APPLICATION FOR THE VOGTLE ESP SITE-  
SUMMARY OF TELEPHONE CALL HELD ON MARCH 10, 2008 TO  
DISCUSS GEOLOGICAL AND GEOTECHNICAL TOPICS

This memorandum documents a telephone conference between the U.S. Nuclear Regulatory Commission staff and Southern Nuclear Operating Company on March 10, 2008.

A summary of the call is enclosed.

Docket No. 52-011

Enclosure:  
Telephone Conference Call

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NRC-001

OFFICE	DNRL/NWE1:LA	DNRL/NWE1:PM	DNR/NWE1:BC
NAME	KGoldstein	JMazza	SCoffin
DATE	06/02/08	06/03/08	07/07/08

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## Telephone Call Summary

Subject: Calculation of GMRS (Ground Motion Response Spectrum), Eastern Tennessee Seismic Zone Study (ETSZ), and Inspection Testing and Acceptance Criteria (ITAAC) for the backfill and moisture barrier beneath the nuclear island

Date of Call: March 10, 2008

### Participants

#### NRC

Christian Araguas  
Becky Karas  
Jan Mazza  
Stephanie Coffin  
Clifford Munson

#### SNC

Jim Davis  
Tom McCallum  
Don Moore  
Chuck Pierce

#### Bechtel

Jim Marrone  
Joe Litehiser  
Farhang Osterdam

### Referenced documents

Accession Number	Title	Date
ML073470851	Vogtle Electric Generating Plant Units 3 & 4 Early Site Permit Application	Revision 3 - November 2007

### Discussion

On March 10, 2008, at the request of NRC staff, a phone call was held with Southern Nuclear Operating Company to further discuss the calculation of GMRS, Eastern Tennessee Seismic Zone Study (ETSZ), and Inspection Testing and Acceptance Criteria (ITAAC) for the backfill and moisture barrier beneath the nuclear island.

GMRS – NRC staff agreed that SNC's calculation of the GMRS at the top of the proposed backfill meets the definition of calculation of free-field GMRS at the free ground surface as defined in 10 CFR 100.23.

ETSZ Study – SNC has determined that the Vogtle is not an appropriate site for NEI to use in the sensitivity analysis of the Dames and Moore study. Vogtle data will not be used for this study. NRC staff noted that it will review this study when it becomes available, and will continue its review of the ESP application.

## **Telephone Call Summary**

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ITAAC – SNC will provide the NRC staff with proposed ITAAC and modifications to section 2.5.4 of the SSAR for both the shear wave velocity of the backfill and the moisture barrier later this week.

