

September 15, 2006

MEMORANDUM TO: Stephanie Coffin, Branch Chief  
AP1000/EPR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

FROM: Christian J. Araguas, Project Manager **/RA/**  
AP1000/EPR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: SOUTHERN NUCLEAR EARLY SITE PERMIT PRE-APPLICATION  
REVIEW - SUMMARY OF TELEPHONE CALL HELD ON JULY 12, 2006,  
TO DISCUSS SOUTHERN NUCLEAR'S SEISMIC ACTIVITIES

This memorandum documents the results of a telephone conference between the NRC staff and Southern Nuclear Operating Company on July 12, 2006.

A summary of the call is attached.

Project No. 737

cc: Christian Araguas  
Clifford Munson  
Yong Li  
Rebecca Karas

## Telephone Call Summary

Subject: Discussion on Southern Nuclear's Seismic Activities in support of the Vogtle Early Site Permit (ESP)

Date of Call: July 12, 2006

### Participants

#### NRC

Christian Araguas  
Clifford Munson  
Yong Li  
Rebecca Karas

#### Pre-Applicant

Charles Pierce  
Donald Moore  
Bob Kennedy  
Carl Stepp

### Actions

#### Topic

#### NRC

#### Applicant

Pre-Submittal  
Conference Call

None

None

### Other Discussion

During an April 14, 2006 public meeting with Southern Nuclear Operating Company (SNC), the staff identified several areas of concern pertaining to SNC's seismic program. On July 12, 2006, the staff conducted a phone call with SNC in which SNC raised an issue with one of the concerns identified by the staff during the April 14, 2006 public meeting. This issue was in regards to the determination of the control point for developing the safe shutdown earthquake (SSE) for the site. SNC said that approximately 90 feet of existing soil above the blue bluff marl unit would be removed and replaced with engineered backfill. Therefore, according to the applicant, per standard review plan (SRP) 3.71, the SSE would be specified at the top of the blue bluff marl unit. During the phone call, the applicant reiterated its selection of the control point for developing the SSE, and its interpretation of the regulations, and the staff agreed. The staff said that according to the SRP that the top of the blue bluff marl was indeed an acceptable location for the control point.

The applicant also discussed how it had incorporated the staff's comments from the April 14, 2006, public meeting into its seismic program. With the exception of the development of site transfer functions, SNC said that it had addressed all the staff's concerns and incorporated these changes into its analysis. SNC said that regarding the development of the site transfer functions, it recognizes that Exelon incorporated the NUREG/CR-6728 2B method, but SNC feels that the 2A method is more conservative and therefore has decided on this approach.

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ADAMS ACCESSION NO.: ML062000299

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