

October 5, 2006

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

FROM: Rebecca Karas, Chief **/RAI/**  
Geosciences & Civil Engineering Branch B  
Division of Engineering  
Office of Nuclear Reactor Regulation

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) FOR THE  
VOGTLE EARLY SITE PERMIT APPLICATION SECTION 2.4  
(TAC No. MD2535)

The Geosciences & Civil Engineering Branch B (EGCB) has prepared a Request for Additional Information (RAI) for Section 2.4 of the Vogtle Early Site Permit Application. Based on our preliminary review of this section of the application, EGCB has identified a request for additional information (Enclosure) that is necessary for the staff to review the application in a detailed and timely manner. We suggest the RAI be sent to the licensee early to facilitate the staff's review of this section. Additional RAIs for the section will be forthcoming.

Enclosure : As stated

CONTACT: Hosung Ahn, NRR/DE/EGCB  
(301) 415-1398

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OFFICE	EGCB/DE	DE	EGCB/DE
NAME	HAhn	GBagchi	RKaras
DATE	10/03/2006	10/ 5 /2006	10/ 5 /2006

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**REQUEST FOR ADDITIONAL INFORMATION**  
**THE VOGTLE EARLY SITE PERMIT APPLICATION SECTION 2.4**

SECTION 2.4 - HYDROLOGIC ENGINEERING

RAI 2.4-1 In order for the staff to perform a confirmatory analysis, provide the following background materials and modeling data which were created and used to prepare Section 2.4 of the Vogtle ESP application:

- (a) Digital maps including topography, bathymetry, land use, soil, water use, etc.
- (b) Hydrologic features (e.g., location, geometry, and cross section, if applicable) of rivers, canals, dams, reservoirs, etc.
- (c) Hydrologic time series including stages, flows, groundwater heads, hydrometeorologic data, etc.
- (d) Modeling data (HEC1, HEC-RAS, and NWS DAMBRK, etc.) including input, output, and codes if they are not publicly available.
- (e) Brief descriptions of the items (a) through (d).