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U.S. Nuclear Regulatory Commission  
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Your ref: Project Number 740  
Our ref: DCP/NRC1794

October 31, 2006

Subject: "Transmittal of WCAP-16652-NP (Technical Report 18) Rev. 0, "AP1000 Core & Fuel Design"

Enclosed is a copy of WCAP-16652-NP (Technical Report 18) Rev. 0, "AP1000 Core & Fuel Design" dated October 2006.

This information is being submitted by Westinghouse Electric Company, LLC in support of Combined License application pre-application activities. This report completes and documents on a generic basis, activities required for COL Information Items 4.2-1, 4.3-1, 4.4-1, and 4.4-2 in the AP1000 Design Control Document. This report is submitted as part of the NuStart Bellefonte COL Project (NRC Project Number 740). The information in this report is generic and is expected to apply to all COL applications referencing the AP1000 Design Certification. It is also expected that when the NRC review of the enclosed report is complete, the changes to the AP1000 Design Control Document identified in Technical Report 18 will be considered approved generically for COL applicants referencing the AP1000 Design Certification.

Questions or requests for additional information related to the content and preparation of these reports should be directed to Westinghouse. Please send copies of such questions or requests to the prospective applicants for combined licenses referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

Very truly yours,

A handwritten signature in cursive script that reads "Andrea Sterdis".

Andrea Sterdis, Manager  
Licensing & Customer Interface  
Regulatory Affairs and Standardization

/Enclosure

1. WCAP-16652-NP (Technical Report 18), Rev. 0, "AP1000 Core & Fuel Design" (Non-Proprietary) dated October 2006

cc:	S. Bloom	- U.S. NRC	1E	1A
	S. Coffin	- U.S. NRC	1E	1A
	G. Curtis	- TVA	1E	1A
	P. Grendys	- Westinghouse	1E	1A
	P. Hastings	- Duke Power	1E	1A
	C. Ionescu	- Progress Energy	1E	1A
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	C. Pierce	- Southern Company	1E	1A
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	G. Zinke	- NuStart/Entergy	1E	1A

ATTACHMENT 1

“Oath of Affirmation”



ENCLOSURE 1

Westinghouse Non-proprietary

WCAP-16652-NP (Technical Report 18), Rev 0  
"AP1000 Core & Fuel Design"