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U.S. Nuclear Regulatory Commission
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Your ref: Project Number 740
Our ref: DCP/NRC1731

April 6, 2006

Subject: AP1000 COL Technical Report Submittal (HFE Related)

In support of Combined License application pre-application activities, Westinghouse is submitting additional AP1000 Standard Combined License Technical reports. These reports complete and document, on a generic basis, activities required for COL information items in the AP1000 Design Control Document. These reports are related to human factors engineering. In addition to these technical reports, a WCAP report referenced by one of the COL reports is also provided. These reports are submitted as part of the NuStart Bellefonte COL Project (NRC Project Number 740). The information included in these reports is generic and is expected to apply to all projects referencing the AP1000 Design Certification.

The purpose for the submittal of these reports and the expected pre-application review was explained in a March 8, 2006 letter from NuStart to the NRC. A tentative schedule for the reports was included in the letter.

The enclosed documents included in this submittal are as follows:

- APP-GW-GLR-012, HFE Program Status Topical, Completing COL Information Item 18.2-1 / 18.8-1 Technical Report Number 72
- APP-GW-GLR-010, Main Control Room Position Task, Completing COL Information Item 18.5-2 Technical Report Number 52
- APP-GW-GLR-011, Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration, Completing COL Information Item 18.7-1 Technical Report Number 59
- WCAP-16555, AP1000 Identification of Critical Human Actions and Risk Important Tasks, April 2006

It is expected that when the NRC review of these reports is complete, the subject COL Information Items will be considered complete 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 of each applicant is included on the cc: list of this letter.

Table 1 is attached to this letter to provide the status and anticipated schedule for reports that were expected to be complete in March 2006.

Very truly yours,



A. Sterdis, Manager
Licensing and Customer Interface
New Plants Engineering

/Attachments

1. Table 1, "AP1000 Near Term COL Pre-application Submittals," April 5, 2006

/Enclosures

1. APP-GW-GLR-012, "HFE Program Status Topical"
2. APP-GW-GLR-010, "Main Control Room Position Task"
3. APP-GW-GLR-011, "Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration"
4. WCAP-16555, "AP1000 Identification of Critical Human Actions and Risk Important Tasks"

cc:	S. Bloom	- U.S. NRC	1A	1E
	G. Curtis	- TVA	1A	1E
	L. Dudes	- U.S. NRC	1A	1E
	P. Hastings	- Duke Power	1A	1E
	C. Ionescu	- Progress Energy	1A	1E
	D. Lindgren	- Westinghouse	1A	1E
	A. Monroe	- SCANA	1A	1E
	C. Pierce	- Southern Company	1A	1E
	E. Schmiech	- Westinghouse	1A	1E
	G. Zinke	- NuStart/Entergy	1A	1E

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Table 1 AP1000 Near Term COL Pre-application Submittals					
Document Number	TR No.	COL Item No. or DCD Sec. No.	Subject	NRC Review Result	Schedule or Status
APP-GW-GLR-005	9	3.8-1	Containment Vessel Design Adjacent to Large Penetrations	Closure of Standard Plant COL Item	April 13
APP-GW-GLR-006	15	3.9-6	Piping Benchmark Program	Closure of Standard Plant COL Item	DCD/NRC1728, 3/31/06
APP-GW-GLN-006	62	3D	Methodology For Qualifying AP1000 Safety Related Electrical & Mechanical Equipment	Clarification of Standard Plant Equipment Qualification *	April 13
Letter	18		Changes to Reference Reactor Design	Outline planned approach and report submittals for updating fuel design to the NRC. April 10	
APP-GW-GLN-002	32	5.2	Zinc Addition	Acceptance of Standard Plant Design Change *	DCP/NRC1729, 4/5/2006
APP-GW-GLN-003	37	6.2	Hydrogen Igniter Locations	Acceptance of Standard Plant Design Change *	DCP/NRC1729, 4/5/2006
APP-GW-GLN-001	38	6.3	PRHR Hx Design	Acceptance of Standard Plant Design Change *	DCP/NRC1729, 4/5/2006
APP-GW-GLR-007	27	6.4-3	Main Control Room Inleakage Test Frequency	Closure of Standard Plant COL Item	DCD/NRC1728, 3/31/06
APP-GW-GLN-004	39	7.2	I&C Design Changes	Acceptance of Standard Plant Design Change *	April 13

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Table 1 AP1000 Near Term COL Pre-application Submittals					
Document Number	TR No.	COL Item No. or DCD Sec. No.	Subject	NRC Review Result	Schedule or Status
APP-GW-GLR-008	48	11.2-3 / 11.3-2	Identification of Ion Exchange and Absorbent Media	Closure of Standard Plant COL Item	DCD/NRC1728, 3/31/06
APP-GW-GLR-014	73	11.2-4	Dilution and Control of Boric Acid Discharge	Closure of Standard Plant COL Item	DCD/NRC1728, 3/31/06
Deleted	41	16.1	Minimum Reactor Coolant System Flow	Report deleted. Will be addressed as part of Tech Specs. Completion	
APP-GW-GLR-012	72	18.2-1 / 18.8-1	HFE Program Status Topical	Outline COL item closure activity status and planned activities to the NRC.	Included in this submittal
APP-GW-GLR-010	52	18.5-2	Main Control Room Position Task	Closure of Standard Plant COL Item	Included in this submittal
APP-GW-GLR-011	59	18.7-1	Execution and Documentation of the Human Reliability Analysis/Human Factors Engineering Integration	Closure of Standard Plant COL Item	Included in this submittal

* These items represent design or DCD changes that satisfy the criteria of Part 52 Appendix D Section VIII B. 5 and do not require NRC approval. A summary of the changes will be provided.