



Westinghouse
Electric Corporation

Energy Systems

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NSD-NRC-96-4845
DCP/NRC0626
Docket No.: STN-52-003

October 17, 1996

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: T. R. QUAY

SUBJECT: COMPLETION OF WESTINGHOUSE ACTIVITIES RELATED TO
NUREG 0711

- References:
1. NRC letter to Westinghouse, "Summary of Meeting to Discuss Human Factors Engineering for the Design of the AP600," March 24, 1995.
 2. NRC letter to Westinghouse, "HFE Insights for Advanced Reactors Based on Operating Experience," February 13, 1995.
 3. NRC letter to Westinghouse, "Human Factors Comments on the AP600 Draft Operating Experience Review Report," August 12, 1996.
 4. NSD-NRC-96-4831 (DCP/NRC0614), dated October 9, 1996, WCAP-14644 and WCAP-14651.

Dear Mr. Quay:

Please find enclosed WCAP-14645, Revision 1, "Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant." Submittal of this WCAP closes DSER OITS items 1316 through 1322 and 2063 and completes Westinghouse activities related to NUREG-0711 Element 2. In addition, a table is attached to this transmittal letter which lists the DSER Chapter 18 open items which are repeated as DSER Chapter 20 open items, all of which are also closed by this transmittal.

DSER open item 1319 is also closed since a copy of the eight references for Table 3 of the attached WCAP are now available for audit in the Westinghouse Rockville Licensing Office.

By Reference 1, Westinghouse was requested to review NUREG-0711 Appendix B and Reference 2 against NUREG-0933 and SSAR Table 1.9.4 for low, non-prioritized, or dropped issues and provide the NRC with a list of differences. A fax was transmitted to the NRC on 4/24/95 which listed those issues Westinghouse thought should not be addressed in the Human Factors Engineering Operating Experience Review (OER) Report for the AP600. The NRC reviewed this list and a telecon involving

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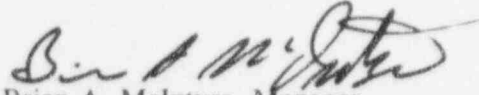
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Messrs. Span and Kerch of Westinghouse and Messrs. Huffman and Bongarra of the NRC was held on June 19, 1995. During this telecon, agreement was reached as to which items were to be included in OER Table 1 with simply a reference to the telecon that these issues were dropped. As evidenced in Reference 3, no review comments were provided which are contrary to this agreement.

As discussed in Reference 4, this transmittal completes Westinghouse activities related to NUREG-0711. It also closes all DSER Chapter 18 open items which are not associated and assigned to the ITAACs and enables the NRC to complete Chapter 18 of the AP600 FSER.

Please contact Robin K. Nydes on (412) 374-4125 if you have any questions regarding any of the SSAR Chapter 18 WCAP submittals.



Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/nja

Enclosures
Attachment

cc: W. Huffman, NRC (9E)
J. Bongarra, NRC (1E)
H. Li, NRC (1E)
J. O'Hara, BNL (1E)
J. Higgins, BNL (1E)
N. Liparulo, Westinghouse (w/o attachments/enclosures)

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bcc:	M. D. Beaumont	Rockville, MD	1L
	J. C. Butler	WEC 3-09 East	1L
	P. A. Chahoy	WEC 4-15 East	1L
	B. Z. Cowan	Eckert, Seamans, Cherin & Mellott	1L
	S. M. Franks	DOE	1L
	S. P. Kerch	WEC 4-30 East	1L, 4E
	J. M. Moore	Expo Mart 335	1L
	R. K. Nydes	WEC 3-08 East	1L, 1E
	R. B. Schreiber	WEC 3-07 East	1L
	C. Thompson	DOE	1L
	J. W. Winters	WEC 3-08 East	1L
	R. M. Vijuk	WEC 3-7A East	1L
	AP600 Central File	WEC 3-15 East	1L, 1E
	File 9.0	WEC 3-09 East	1L

DSER CHAPTER 18 OER ITEMS RELATED TO DSER CHAPTER 20

OITS ITEM #	DSER SECTION	DSER PAGE #	BRIEF ISSUE DESCRIPTION	ISSUED ADDRESSED BY
Part of 1317 N/A	Part of 18.3.3.1-2 20	20-44	USI/GSI Issue B-17: Criteria for Safety-Related Operator Actions	SSAR Section 1.9.4.2.2 OER Table 1, Item 3
1317 1524	Part of 18.3.3.1-2 20.4-1	 20-108	TMI Issue I.A.1.4: Long-Term Upgrading of Operating Personnel and Staffing	OER Table 1, Item 48
1317 1980	Part of 18.3.3.1-2 20.4-3	20-110	TMI Issue I.A.4.2: Long Term Training Simulator Upgrade	OER Table 1, Item 49
N/A 1525	References SSAR Section 18.9.8 20.4-2	 20-111	TMI Issue I.C.1: Guidance for Evaluation and Development of Procedures for Transients and Accidents	OER Table 1, Item 50
1317 1526	Part of 18.3.3.1-2 20.4-3	 20-113	TMI Issue I.C.5: Procedures for Feedback of Operating Experience to Plant Staff	SSAR Sections 13.2 and 13.5
1317 1527	Part of 18.3.3.1-2 20.4-4	20-113	TMI Issue I.C.9: Long-Term Program for Upgrading Procedures	OER Table 1, Item 51
1317 N/A	Part of 18.3.3.1-2 20	20-114	TMI Issue I.D.1: Control Room Design Reviews	SSAR Section 1.9.3 (2)(iii) OER Table 1, Item 52
1317 N/A	Part of 18.3.3.1-2 20	20-115	TMI Issue I.D.2: Plant Safety Parameter Display Console	SSAR Section 1.9.3.(2) (iv) OER Table 1, Item 34 and 53
1317 1489	Part of 18.3.3.1-2 20.1-3	20-162	TMI Issue II.K.1(5): Safety-Related Valve Position Description	OER Table 1, Item 57

DSER CHAPTER 18 OER ITEMS RELATED TO DSER CHAPTER 20

OITS ITEM #	DSER SECTION	DSER PAGE #	BRIEF ISSUE DESCRIPTION	ISSUED ADDRESSED BY
1317 1489	Part of 18.3.3.1-2 20.1-3	20-163	TMI Issue II.K.1(10): Review and Modify Procedures for Removing Safety-Related Systems From Service	SSAR Section 1.9.4.2.1 OER Table 1, Item 58
1317 N/A	Part of 18.3.3.1-2 20	20-187	Issue HF1.1 Shift Staffing	OER Table 1, Item 21
N/A 1557	References SSAR Section 18.9.8 20.5-1	20-188	Issue HF4.1 Inspection Procedure for Upgraded Emergency Operating Procedures	SSAR Section 13.5
1317 1489	Part of 18.3.3.1-2 20.1-3	20-188	HF4.4: Guidelines for Upgrading Other Procedures	SSAR Section 1.9.4.2.4 OER Table 1, Item 22
1317 N/A	Part of 18.3.3.1-2 20	20-189	HF5.1: Man-Machine Interface - Local Control Stations	SSAR Section 1.9.4.2.4 OER Table 1, Item 24
1317 1558	Part of 18.3.3.1-2 20.5-2	20-190	HF5.2: Review Criteria for Human Factors Aspects of Advance Controls and Instrumentation	SSAR Section 1.9.4.2.4 OER Table 1, Item 25