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Energy Systems

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Docket No.: STN-52-003

June 2, 1995

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

ATTENTION: MR. T. R. QUAY

SUBJECT: PRELIMINARY MARKUPS OF AP600 SSAR CHAPTER 15 (ACCIDENT ANALYSES)

Dear Mr. Quay:

Enclosed are preliminary marked up sections of the AP600 Standard Safety Analysis Report (SSAR) Chapter 15 covering the transient analyses of non-LOCA, steam generator tube rupture and large-break LOCA accidents. These preliminary sections are being provided at this time to assist the NRC review of the AP600 consistent with the June, 1994 expedited schedule. The following sections are included:

- 15.0 Accident Analyses
- 15.1 Increase in Heat Removal from the Primary System
- 15.2 Decrease in Heat Removal by the Secondary System
- 15.3 Decrease in Reactor Coolant System Flow Rate
- 15.4 Reactivity and Power Distribution Anomalies
- 15.5 Increase in Reactor Coolant Inventory
- 15.6 Decrease in Reactor Coolant Inventory
- Appendix 15A Evaluation Models and Parameters for the Analysis of Radiological Consequences of Accidents
- Appendix 15B LOFTRAN Code Modification and Verification
- Appendix 15C AP600 WCOBTRA/TRAC Vessel and Loop Models
- Appendix 15E Description of the WCOBTRA/TRAC Noding for the AP600 Long Term Cooling Analysis

A new sub-section and Appendix have been added to present the large-break LOCA long term cooling analysis. Sub-section 15.6.5.4C presents the cases analyzed, and Appendix 15E details the WCOBTRA/TRAC modeling. Other than Appendix 15A, sections relating to dose assessment (15.1.5.4, 15.3.3.3, 15.4.8.3, 15.6.2, 15.6.3.3, 15.6.5.3.3, and 15.7) are not included in this submittal. Revisions of these sections are currently in preparation and will be transmitted separately. Revisions to the sub-sections relating to small-break LOCA (15.6.5.2.2, 15.6.5.4B, 15.6.5.5 and Appendix 15C), and a new sub-section presenting the small-break LOCA long-term cooling analysis, are also in preparation, and will be transmitted separately.

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Sub-sections 15.6.5.4A.4.1, and Appendices 15B, 15C and 15E contain Westinghouse proprietary information. In line with the Westinghouse intent to remove proprietary material from the AP600 SSAR, this information will be removed as part of a future revision and will be placed in appropriate reference documents.

Enclosed with Ms. Jackson's copy of this letter are five copies of the enclosed materials. The Westinghouse Electric Corporation copyright notice, proprietary information notice, application for withholding and affidavit are also attached.

This submittal contains Westinghouse proprietary information consisting of trade secrets, commercial information or financial information which we consider privileged or confidential pursuant to 10CFR2.790. The specific types of proprietary information contained in the report are identified in paragraphs (4)(ii)(a), (4)(ii)(b) and (4)(ii)(c) of the attached affidavit. Therefore, it is requested that the Westinghouse proprietary information attached hereto be handled on a confidential basis and be withheld from public disclosures.

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Correspondence with respect to the application for withholding should reference AW-95-838, and should be addressed to N. J. Liparulo, Manager of Nuclear Safety Regulatory And Licensing Activities, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania, 15230-0355.

Please contact Brian A. McIntyre on (412) 374-4334 if you have any questions concerning this transmittal.



N. J. Liparulo, Manager
Nuclear Safety Regulatory And Licensing Activities

/nja

Enclosures
Attachment

cc: D. Jackson, NRC (5E)
W. Huffman, NRC (1E)
R. Jones, NRC (w/o Enclosures/Attachments)
T. Collins, NRC (1E)
G. Hsui, NRC (1E)
R. Landry, NRC (1E)
C. Miller, NRC (w/o Enclosures/Attachments))
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B. A. McIntyre, Westinghouse (w/o Enclosures/Attachments)

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