



Westinghouse
Electric Corporation

Energy Systems

Box 355
Pittsburgh Pennsylvania 15230-0355

NTD-NRC-95-4480
DCP/NRC0341
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.

9506130102 950602
PDR ADOCK 05200003
A PDR

EPD
Change: NRC PDR 1 INP
W. G. G.

June 2, 1995

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.

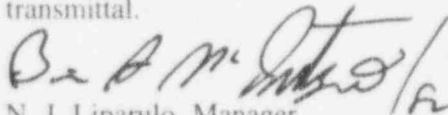
Enclosed with Ms. Jackson's copy of this letter are five copies of the enclosed materials. The Westinghouse Electric Corporation copyright notice, proprietary information notice, application for withholding and affidavit are also attached.

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.

This material is for your internal use only and may be used for the purpose for which it is submitted. It should not be otherwise used, disclosed, duplicated, or disseminated, in whole or in part, to any other person or organization outside the Commission, the Office of Nuclear Reactor Regulation, the Office of Nuclear Regulatory Research and the necessary subcontractors that have signed a proprietary non-disclosure agreement with Westinghouse without the express written approval of Westinghouse.

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))
P. Boehnert (w/o Enclosures/Attachments)
B. A. McIntyre, Westinghouse (w/o Enclosures/Attachments)

COPYRIGHT NOTICE

The reports transmitted herewith each bear a Westinghouse copyright notice. The NRC is permitted to make the number of copies of the information contained in these reports which are necessary for its internal use in connection with generic and plant-specific reviews and approvals as well as the issuance, denial, amendment, transfer, renewal, modification, suspension, revocation, or violation of a license, permit, order, or regulation subject to the requirements of 10 CFR 2.790 regarding restrictions on public disclosure to the extent such information has been identified as proprietary by Westinghouse, copyright protection notwithstanding. With respect to the non-proprietary versions of these reports, the NRC is permitted to make the number of copies beyond those necessary for its internal use which are necessary in order to have one copy available for public viewing in the appropriate docket files in the public document room in Washington, D.C. and in local public document rooms may be required by NRC regulations if the number of copies submitted is insufficient for this purpose. Copies made by the NRC must include the copyright notice in all instances and the proprietary notice if the original was identified as proprietary.

PROPRIETARY INFORMATION NOTICE

Transmitted herewith are proprietary and/or non-proprietary versions of documents furnished to the NRC in connection with requests for generic and/or plant specific review and approval.

In order to conform to the requirements of 10 CFR 2.790 of the Commission's regulations concerning the protection of proprietary information so submitted to the NRC, the information which is proprietary in the proprietary versions is contained within brackets, and where the proprietary information has been deleted in the non-proprietary versions, only the brackets remain (the information that was contained within the brackets in the proprietary versions having been deleted). The justification for claiming the information so designated as proprietary is indicated in both versions by means of lower case letters (a) through (f) contained within parentheses located as a superscript immediately following the brackets enclosing each item of information being identified as proprietary or in the margin opposite such information. These lower case letters refer to the types of information Westinghouse customarily holds in confidence identified in Section (4)(ii)(a) through (4)(ii)(f) of the affidavit accompanying this transmittal pursuant to 10 CFR 2.790(b)(1).