



Westinghouse
Electric Corporation

Water Reactor
Divisions

Nuclear Technology Division

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NS-NRC-85-3081
November 27, 1985
NS-OPLS-OPL-I-85-193

Dr. C. O. Thomas, Chief
Standardization and Special Projects Branch
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

50-413

TOPICAL REPORTS WCAP-10988 AND WCAP-10989 "COBRA-NC, ANALYSIS
OF MAIN STEAM LINE BREAK IN THE CATAWBA UNIT 1 ICE CONDENSER CONTAINMENT"

Dear Dr. Thomas:

Enclosed are:

1. Twenty-three (23) copies of the Westinghouse Topical Report WCAP-10988 "COBRA-NC, Analysis of Main Steam Line Break in the Catawba Unit 1 Ice Condenser Containment", November 1985 (Proprietary).
2. Twenty-three (23) copies of the Westinghouse Topical Report WCAP-10989 "COBRA-NC, Analysis of Main Steam Line Break in the Catawba Unit 1 Ice Condenser Containment" November, 1985 (Non-Proprietary).

Also enclosed are:

1. One (1) copy of Application for Withholding, AW-85-082 (Non-Proprietary) with Proprietary Information Notice.
2. One (1) copy of Affidavit (Non-Proprietary).

This report describes the COBRA-NC model of the Catawba ice condenser containment, and a series of calculations of the containment response for a postulated Main Steam Line Break in which superheated steam enters the containment. The heat transfer models as well as the ice condenser drain flow effects are fully described.

This report is submitted for review to the NRC for acceptance as licensing material for reference on one or more applications. This letter may be referenced as part of license applications for Duke Power Co. (Catawba) and Tennessee Valley Authority (Watts Bar).

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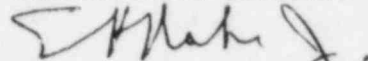
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This submittal contains proprietary information of Westinghouse Electric Corporation. In conformance with the requirements of 10CFR Section 2.790, as amended, of the Commission's regulations, we are enclosing with this submittal an application for withholding from public disclosure and an affidavit. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission. Correspondence with respect to the affidavit or application for withholding should reference AW-085-082 and should be addressed to R. A. Wieseemann, Manager, Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, PA 15230.

The application fee of \$150 will be submitted under separate cover.

Please feel free in contacting M. P. Osborne, Manager, Transient Analysis-II if you have any questions concerning this matter.

Very truly yours,
WESTINGHOUSE ELECTRIC CORPORATION



E. P. Rahe, Jr. Manager
Nuclear Safety Department

RHO/dmr

Enclosure