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Energy Systems

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Docket No.: STN-52-003

August 16, 1993

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

ATTENTION: MR. R. W. BORCHARDT

SUBJECT: TRANSMITTAL OF DRAWING OF A STEAM DISTRIBUTER FOR THE AP600
CORE MAKEUP TANK TEST FACILITY

Dear Mr. Borchardt:

Please find attached with this letter, a drawing which provide details of a steam distributor assembly being used in the AP600 Core Makeup Tank (CMT) test facility.

The steam distributor, which is installed in the inlet to the CMT tank, is being used to improve condensation behavior under low pressure, high drain rate conditions with a cold CMT. The steam distributor minimizes the potential for and magnitude of pressure fluctuations resulting from steam jet penetration into the cold CMT water. At the same time, the distributor improves the drain down behavior of the CMT. It is noted that the pressure oscillations observed in the CMT shakedown tests without the steam distributor do not pose a structural concern. Use of the distributor does however provide for a smoother, more quiescent, CMT draindown behavior. It is Westinghouse's intention to perform the remainder of the shakedown tests and the matrix tests with a steam distributor installed.

Also attached, in response to a NRC staff request, is a table providing the test conditions and observed behavior from these shakedown tests and core makeup tank test facility piping diagrams. Test data from shakedown tests (with and without the steam distributor) will be included in the final test report on the CMT tests.

Plans are underway to install a similar steam distributor device in both the SPES-2 and OSU integral test facilities. Appropriate design changes for the AP600 plant are being evaluated.

The Westinghouse Electric Corporation copyright notice, proprietary information notice, application for withholding and affidavit are 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. 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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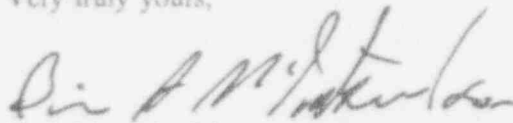
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Correspondence with respect to the application for withholding should reference AW-93-506, and should be addressed to N. J. Liparulo, Manager of Nuclear Safety And Regulatory Activities, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania, 15230-0355.

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

Very truly yours,



N. J. Liparulo, Manager
Nuclear Safety & Regulatory Activities

/nja

Attachments

cc: T. Kenyon, NRC
R. Hasselberg, NRC
B. A. McIntyre, Westinghouse (w/o Enclosures/Attachments)

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