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Westinghouse Owners Group

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November 21, 1988

Mr. Marvin W. Hodges, Reactor Systems Branch Chief Division of Engineering & System Technology U.S. Nuclear Regulatory Commission Mail Station PI-137 Washington, D.C. 20555

Subject: Westinghouse Owners Group Information Transmittal of WCAP-11916. "Loss of RHRS Cooling While the RCS is Fartially Filled"

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usar Mr. Hodges:

Enclosed for your information and use are three copies of WCAP-11916, Rev. O, "Loss of RHRS Cooling While the RCS is Partially Filled", dated July 1988. This report is the result of the Westinghouse Owners Group effort originally to provide each member utility with information which they could use in responding to the NRC Generic Letter 97-12, "Loss of Residual Heat Removal (RHR) While the Reactor Coolant System (RCS) is Partially Filled". The report specifically addressed Item 5 of GL-87-12. It will also be useful in responding to the more recent NRC Generic Letter 88-17, "Loss of Decay Heat Removal", which superceded GL-87-12.

The report describes the results of fluid systems evaluations performed to provide analytical information concerning the phenomena of air ingestion into the Residual Heat Removal System (RHRS) during mid-loop operations. In addition, thermal-hydraulic computer analyses were performed to predict Reactor Coolant System behavior following loss of RHR Cooling during mid-loop operations.

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This report provided the basis for a significant portion of the technical information that was presented at the Mid-Loop Operations Guidance Workshop held on September 21 and 22, 1988 in Pittsburgh. I wise to personally thank you and Warren Lyon for participating and helping in making it a successful workshop.

Very truly yours.

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Roger A. Newton, Chairman Westinghouse Owners Group

RAN/dac

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enclosure

cc: Thomas T. Martin, NRC Charles Trammell, NRC Warren Lyon, MRC Westinghouse Owners Group Primary Representatives J.B. George Steering Committee Analysis Subcommittee Representatives J.A. Triggiani