



Westinghouse
Electric Corporation

Energy Systems

Box 355
Pittsburgh Pennsylvania 15230-0355

WOG-CD-92-07

April 15, 1992

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Attention: Mr. James T. Wiggins, Acting Chief
Materials and Chemical Engineering Branch
Division of Engineering Technology

Subject: Westinghouse Owners Group
Transmittal of Full Reactor Coolant System Decontamination
Program, Generic Topical Report, WCAP-12932 Revision 1

- Reference: 1) Letter, Frank Witt, NRC Materials and Chemistry Branch
to Jack Parry, Chairman, Technical Advisory Committee,
dated November 8, 1990.
- 2) Letter, James Wiggins, Acting Chief Materials and Chemical
Engineering Branch Division of Engineering Technology,
to Phillip Miller, Westinghouse, received February 5, 1992.

Dear Mr. Wiggins:

Enclosed are twenty-four (24) copies of WCAP-12932, Revision 1 entitled "Full Reactor Coolant System Decontamination Program Generic Topical Program Report [Proprietary]." The two volume Topical Report was developed in accordance with the NRC requested outline and contents of the reference 1 letter. Specifically, the generic safety evaluations and overall program descriptions are presented in Volume 1 and the Waste Characterization data is presented in a separate Volume 2.

Also attached are one(1) copy of Affidavit CAW-92-290 [non-proprietary], the Associated Application for Withholding, a Proprietary Information Notice and a Copyright Notice.

The non-proprietary version of this report will be prepared and transmitted following NRC staff review and acceptance of this issue.

Please note that the original version of WCAP-12932 was sent to the NRC via WOG-CD-91-11, dated 10/23/91. That transmittal was accompanied by Affidavit CAW-91-176, dated 11/1/91, and the Associated Application for Withholding.

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This revised report replaces the original version in its entirety. The earlier version, which is Westinghouse Proprietary Class 2 may be either destroyed or returned to Westinghouse for destruction. Destruction should be by burning, shredding or compaction.

The Topical Report was revised to include the results of the additional testing performed by Westinghouse in 1991 to better understand certain areas of concern. These concerns, reported in the initial issue of the Topical Report, addressed the compatibility of the decontamination process chemicals on particular NSSS components and the need for confirmatory data of the expected results after one cycle. Westinghouse designed and built a sidestream test loop for the Fuel Decontamination Program conducted at Y. C. Summer. These one cycle exposure tests included Can-Derem and LOMI Chemical Decontamination processes on high-strength 403/410 stainless steel, chrome plated 410 stainless steel, chrome plated 304 stainless steel, and clad SA533 low alloy steel. In addition, a CRDM Latch Assembly mockup was designed, built and exposed to the Can-Derem cycle. The metallographic results after these one cycle series provided additional data regarding one cycle application of each process. The chromium plated CRDM mock up assembly components exhibited no evidence of interstitial attack or flaking thus confirming the assumption that the fits, tolerances and clearances of the components protect the critical chrome plated 410 and 304 stainless steel surfaces from interfacial corrosion during one cycle of chemical decontamination. The confirmatory test results in all cases alleviate the concerns associated with the tested materials and provide a data base and justification for the endorsement of the specific LOMI and Can-Derem Processes for use in the Westinghouse (PWR) NSSS.

The NRC will conduct a formal review of the Topical Report as stated in the reference 2 letter. It has also been confirmed that the costs of this review will be fee recoverable. As indicated in this letter a six months estimate has been established for the review.

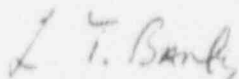
As this submittal contains information proprietary to Westinghouse Electric Corporation, it is supported by an affidavit signed by Westinghouse, the Owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b) (4) of Section 2.790 of the Commission's regulations.

Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to the proprietary aspects of the Application for Withholding or the supporting Westinghouse Affidavit should reference CAW-92-290 and should be addressed to R.P. DiPiazza, Manager of Operating Plant Licensing Support, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, PA 15230-0355.

Your prompt response to this matter is appreciated. Should you have any questions or require further detail, please contact either the undersigned at (804) 273-3074 or P.E. Miller, W Program Manager at (412) 256-6111. All formal correspondence with the exception of that regarding the proprietary aspects of the Application for Withholding and the supporting Affidavit, should be addressed to Mr. L.T. Banks, Vice Chairman, WOG Subgroup for Full RCS, Virginia Power, Innsbrook Technical Center (IN-2SE), 5000 Dominion Boulevard, Glen Allen, VA 23060.

Very truly yours,



L.T. Banks, Vice Chairman
WOG Full RCS Chemical Decontamination Subgroup

PEM/jp/LTB:dc

Enclosure

cc: J. Parry - Con Edison (1L)
C.J. Wood - EPRI (1L)
V. Linnebon - Duquesne Light Co. (1L)
J. Trejo - Public Service Electric & Gas Co. (1L)
J. Burger - ESEERCO (1L)
D. Warner - South Carolina Electric & Gas (1L)
T. Banks - Virginia Power (1L)
P. Stoner - Florida Power & Light Co. (1L)
M. Hudson - Northeast Utilities (1L)
B. Quinn - Rochester Gas & Electric (1L)
M. Helms - Duquesne Light Co. (1L)
D. Haberkorn - Commonwealth Edison (1L)
K. Neuschaeffer - Carolina Power & Light Co. (1L)
P. Miller - W - 4 E CTC / 4-43 (1L)
R.P. DiPiazza - W - WEC 4-15 E (1L)
L.A. Walsh, PSNH
S.T. Burns, SNOPCo