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Docket No.: STN-52-003

October 30, 1996

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

ATTENTION: T. R. QUAY

SUBJECT: WCOBRA/TRAC APPLICABILITY TO AP600 LARGE-BREAK LOSS OF
COOLANT ACCIDENT, WCAP-14171, REVISION 1

REFERENCE: Letter, R. C. Jones, Jr. (USNRC) to N. J. Liparulo (W), " Acceptance for
Referencing of the Topical Report, WCAP-12945 (P), Westinghouse Code
Qualification Document for Best-Estimate Loss-of-Coolant Analysis," June 28,
1996

Dear Mr. Quay:

Enclosed is Revision 1 to Westinghouse Topical Report WCAP-14171, "WCOBRA/TRAC
Applicability to AP600 Large Break Loss of Coolant Accident." This revision supercedes Revision 0
of the report and incorporates changes as discussed during a March 15, 1996 meeting between
Westinghouse and NRC staff.

This revision includes changes to the LBLOCA analysis methodology related to complying with the
NRC approved LBLOCA methodology (Reference 1). New material provided in the report includes:

- Chapter 2 - Revision and finalization of the LBLOCA Phenomena Identification and
Ranking Table (PIRT). This revision incorporates NRC comments. This
chapter also includes updated 3-loop plant and benchmark AP600 calculations
using the approved WC/T code version.
- Chapter 3 - This chapter presents revised simulations of CCTF test run 58 and UPTF test
21.
- Chapter 4 - This chapter has been revised to describe the application of the approved best-
estimate LBLOCA methodology (Reference 1) to AP600. Chapter 4
establishes the procedure to calculate peak clad temperature (PCT) at the 95th
percentile, consistent with the approved methodology.

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The completion of Revision 1 of this report addresses the following open items from the NRC Supplemental Draft Safety Evaluation Report (SDSER):

- | | | |
|----------|---|---|
| 21.6.3-1 | - | This item is addressed in Chapter 4 of the report |
| 21.6.3-2 | - | This item is addressed in Chapter 2 of the report |
| 21.6.3-3 | - | This item is addressed in Chapter 4 of the report |
| 21.6.3-4 | - | This item is addressed in Chapter 3 of the report |
| 21.6.3-5 | - | This item is addressed in Chapter 3 of the report |
| 21.6.3-6 | - | This item is addressed in Chapter 3 of the report |
| 21.6.3-7 | - | This item is addressed in Chapter 3 of the report |

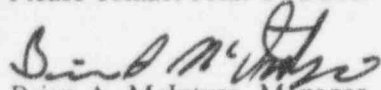
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Correspondence with respect to the application for withholding should reference AW-96-1030, and should be addressed to Brian A. McIntyre, Manager of Advanced Plant Safety and Licensing, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania, 15230-0355.

Please contact John C. Butler on (412) 374-5268 if you have any questions concerning this transmittal.



Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/nja

Enclosure
Attachment

cc: T. Kenyon, NRC (w/o Enclosures/Attachments)
B. Huffman, NRC (5E)
L. Lois, NRC (1E)
P. Boehnert, ACRS (5E)
N. J. Liparulo, Westinghouse (w/o Enclosures/Attachments)

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