

March 12, 2003

MEMORANDUM TO: Gary M. Holahan, Director
Division of Systems Safety and Analysis
Office of Nuclear Reactor Regulation

FROM: Farouk Eltawila, Director **/RA/**
Division of Systems Analysis and Regulatory Effectiveness
Office of Nuclear Regulatory Research

SUBJECT: DBA RELATED CONTAIN 2.0 CODE QUALIFICATION REPORTS
PLACED IN ADAMS FOR PUBLIC ACCESS

In order for the NRC to audit new licensing DBA containment response calculations along with understanding new modeling methodologies which go beyond the guidelines specified in the relevant SRPs, the use of the CONTAIN code has become more prominent. For example, the code is used to provide independent containment response predictions in support of the MAAP5 review, existing plant up-rate applications and various ALWRs reviews. In demonstrating that CONTAIN can be used to audit DBA calculations, RES produced a series of informal qualification reports/user guides for NRR.

Pursuant to discussions with NRR in early CY02, RES was requested to place the subject reports in the public domain. We have now completed this effort by converting the internal "proprietary" versions to RES Branch Reports. Accordingly, vendor proprietary information were deleted from these versions, and other editorial changes were made as necessary. After each of the following reports were completed and placed into ADAMS, your cognizant staff were notified and copies of the reports were made available. A hard copy set is also attached.

- (1) SMSAB-02-02, "An Assessment of CONTAIN 2.0: A Focus on Containment Thermal Hydraulics (Including Hydrogen Distributions)," July 2002, ADAMS ML022140438;
- (2) SMSAB-02-03, "CONTAIN Code Qualification Report/User Guide for Auditing Design Basis PWR Calculations," August 2002, ADAMS ML022490381;
- (3) SMSAB-02-04, "CONTAIN Code Qualification Report/User Guide for Auditing Subcompartment Analysis Calculations," September 2002, ADAMS ML023220288;
- (4) SMSAB-03-02, "CONTAIN Code Qualification Report/User Guide for Auditing Design Basis BWR Calculations," March 2003, ADAMS ML030700335.

If further assistance is needed, please feel free to contact us.

cc w/o atts.: J. Hannon, NRR R. Lobel, NRR
E. Throm, NRR

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Distribution w/o atts.: SMSAB R/F CAdler PNorian

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