

June 19, 2001

MEMORANDUM TO: Alan Rae
License Renewal and Standardization Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

FROM: Stephen M. Bajorek **/RA/**
Safety Margins and Systems Analysis Branch
Division of Systems Analysis and Regulatory Effectiveness
Office of Nuclear Regulatory Research

SUBJECT: AP1000 DOCUMENTATION ACCEPTANCE REVIEW

The purpose of this memorandum is to inform you of our acceptance review of WCAP-15612 (AP1000 Plant Description and Analysis Report), and WCAP-15613 (AP1000 PIRT and Scaling Assessment) for the purposes of the Phase 2 review by RES. We have examined both reports and concluded that they contain sufficient information to perform the tasks outlined in the memorandum from A. C. Thadani to S. J. Collins dated May 30, 2001.

The basis for this conclusion is as follows:

(1) Most of the design information sufficient to calculate AP1000 system scaling parameters is included in WCAP-15612. If additional system parameters are necessary, we will request that you issue the appropriate RAIs. The preliminary analyses presented in the report provide suitable estimates for thermal-hydraulic conditions to access the "bottom-up" scaling rationale. However, if design parameters change considerably from those reported in WCAP-15612, processes affected by those changes and their scaling groups must be re-considered in Phase 3.

(2) WCAP-15613 presents the Phenomena Identification and Ranking Tables (PIRTs) for small break LOCA, long-term cooling (LTC), main steam line break (MSLB), and steam generator tube rupture (SGTR), along with a scaling analysis. Included in the report are discussions of the AP600 tests and their applicability to AP1000 range of conditions. We will consider the Westinghouse scaling analysis as we perform an independent assessment. If clarification or additional information is necessary, we will request such by July 30, 2001.

cc: R. Caruso, NRR
J. Wilson, NRR

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