



Commonwealth Edison
 1400 Opus Place
 Downers Grove, Illinois 60515

September 2, 1994

William T. Russell, Director
 Office of Nuclear Reactor Regulation
 U.S. Nuclear Regulatory Commission
 Washington, D.C. 20555

Attention: Document Control Desk

Subject: Braidwood Station Unit 1
 Additional Information in Support of Interim Steam
 Generator Tube Plugging Criteria
NRC Docket Nos. 50-456

Reference: See Attachment A

Dear Mr. Russell:

Reference a) transmitted Commonwealth Edison Company's (ComEd's) request for an Emergency Technical Specification Amendment to Section 3/4.4.5 for Braidwood Unit 1. The proposed amendment would incorporate a 1.0 volt steam generator (SG) tube support plate (TSP) interim plugging criteria (IPC) for Cycle 5. In Reference a) ComEd committed, in part, to submit tube pull analysis data for the steam generator tubes pulled during the Braidwood Unit 1 Cycle 4 Refuel Outage (A1R04) when it became available and a final WCAP for the Model D4 Steam Generator Tube Support Limited Displacement Analyses within 2-3 months. ComEd's request for the Emergency Technical Specification Amendment was subsequently granted for a period of 100 calendar days with T_{hot} greater than 500°F as documented in Reference b).

Reference c) transmitted ComEd's request to remove the operating limit of 100 calendar days with T_{hot} greater than 500°F imposed by Reference b). In Reference c) ComEd committed to provide data from the leak and burst tests on the pulled SG tubes by August 12, 1994 and a final WCAP for the Model D4 Steam Generator Tube Support Limited Displacement Analyses by the end of August.

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APOL Change: NRC LDR 1 1NP
1/1 Prop
1 NP

In Reference d) the Nuclear Regulatory Commission (NRC) transmitted a Request for Additional Information (RAI) to ComEd, Part 2 of which dealt with the use of the TRANFLO code to calculate hydraulic loads on the TSPs during a limiting event. ComEd's response to the RAI is documented in References e) through i). In Reference f) ComEd revised its commitment to provide a final WCAP for the Model D4 Steam Generator Tube Support Limited Displacement Analyses by the end of August due to the expanded scope of analysis required to address the concerns raised in the RAI. ComEd committed to provide the complete results of TRANFLO Test Cases 1 and 2 and Structural Test Cases 1 and 2 documented in a WCAP to be completed by the end of August. When Reference f) was transmitted from ComEd to the NRC the schedule for completion of TRANFLO Test Cases 3-7 and Structural Test Cases 3-5 had not been determined. It has subsequently been determined that these test cases will be completed and documented in the final WCAP for the Model D4 Steam Generator Tube Support Limited Displacement Analyses by October 31, 1994.

During a teleconference, Reference j), it was agreed that formal transmittal of the data from the leak and burst tests on the pulled SG tubes would be included in a WCAP to be completed by the end of August. Data from the additional destructive testing of the pulled SG tubes will be forwarded to the NRC when it becomes available.

Accordingly, WCAP-14046, Revision 1 (Proprietary) contains the data from the leak and burst tests on the pulled SG tubes, TRANFLO Test Cases 1 and 2, and Structural Test Cases 1 and 2. Enclosed please find one copy of WCAP-14046, Revision 1 (Proprietary) and one copy of WCAP-14047, Revision 1 (Non-Proprietary). Also included as Attachment B are a Westinghouse authorization letter, CAW-94-717, accompanying affidavit, Proprietary Information Notice, and Copyright Notice.

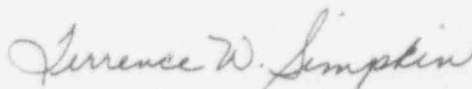
September 2, 1994

As WCAP-14046, Revision 1 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 10 CFR 2.790 of the Commission's regulations.

Correspondence with respect to the proprietary aspects of the items listed above or supporting Westinghouse Affidavit should reference CAW-94-717 and should be addressed to N. J. Liparulo, Manager of Nuclear Safety & Regulatory Activities, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Please address any questions to this office.

Sincerely,



T.W. Simpkin
Nuclear Licensing Administrator

Attachments

cc: J.B. Martin, Regional Administrator - Region III
R.R. Assa, Project Manager - NRR
S.G. DuPont, Senior Resident Inspector - Braidwood
Illinois Department of Nuclear Safety

ATTACHMENT A

- a) D. Saccomando letter to W. Russell requesting an Emergency Technical Specification Amendment for Braidwood Unit 1 regarding Interim Plugging Criteria (IPC) dated April 25, 1994
- b) R. Assa letter to D. Farrar transmitting Safety Evaluation for Braidwood Unit 1 IPC dated May 7, 1994
- c) D. Saccomando letter to W. Russell requesting an amendment to Technical Specifications 3/4.4.5 and 3/4.4.8
- d) R. Assa letter to D. Farrar transmitting a Request for Additional Information (RAI) dated July 7, 1994
- e) D. Saccomando letter to W. Russell transmitting Commonwealth Edison Company's (ComEd's) Response to an Nuclear Regulatory Commission (NRC) Request for Additional Information dated July 13, 1994
- f) J. Bauer letter to W. Russell transmitting ComEd's Response to an NRC Request for Additional Information Part 2.a dated July 14, 1994
- g) J. Bauer letter to W. Russell transmitting a Supplement to ComEd's July 13, 1994 Response to an NRC Request for Additional Information dated July 15, 1994
- h) D. Saccomando letter to W. Russell transmitting a Supplement to ComEd's Response to Parts 2.a and 2.b of an NRC Request for Additional Information dated July 21, 1994
- i) D. Saccomando letter to W. Russell transmitting a Supplement to ComEd's Response to Part 2.a of an NRC Request for Additional Information dated July 26, 1994
- j) Teleconference between ComEd and the NRC regarding Leak and Burst Testing of Pulled Steam Generator (SG) Tubes on August 10, 1994

ATTACHMENT B

WESTINGHOUSE DOCUMENTATION ATTESTING TO PROPRIETARY
NATURE OF WCAP 14046, REVISION 1.