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 MURLEY, T.E. Document Control Branch (Document Control Desk)

SUBJECT: Forwards revised Tech Specs for reduced temp & pressure program, per 890602 meeting w/NRC.

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AEP:NRG:1067D

Donald C. Cook Nuclear Plant Unit 1
License No. DPR-58
Docket No. 50-315
MODIFICATION OF REDUCED TEMPERATURE AND PRESSURE PROGRAM
TECHNICAL SPECIFICATION CHANGES

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

Attn: T. E. Murley

June 5, 1989

Dear Dr. Murley:

Pursuant to a meeting with your staff on June 2, 1989, this letter requests modification to the Technical Specification (T/S) changes proposed for the Cook Nuclear Plant Reduced Temperature and Pressure (RTP) Program. The original T/S changes were proposed in our letter AEP:NRG:1067 dated October 14, 1988.

Description

In our letter AEP:NRG:1067, we proposed to add charging pump discharge resistance requirements to T/S 4.5.2.h ("Emergency Core Cooling System Requirements - Operating"). The pump discharge resistance was to be between $4.73E-3$ ft/gpm² and $5.33E-3$ ft/gpm². These resistance requirements were in addition to the present flow limitations in T/S 4.5.2.h. The resistance requirements were intended to ensure compliance with the LOCA analysis assumptions. In attempting to balance the charging pump and its associated lines, however, we discovered that, due to the condition of the two installed pumps, it would not be possible to meet the present flow limits when coupled with the new resistance limits. Unit 1 of the Cook Nuclear Plant is currently returning to service following refueling. In order to meet the proposed T/S requirements, it would be necessary to change out the internals of one pump and attempt to rebalance the system. This would require several days of critical path time, and even then there is no guarantee that the proposed T/S limit can be met.

In lieu of this approach, we have had Westinghouse reevaluate the flow limits and discharge resistance requirements. A replacement T/S page (3/4 5-6) is provided in Attachment 1 to this letter. The Westinghouse evaluation, provided in Attachment 2, supports

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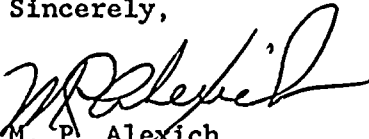
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increasing the upper resistance limit to $9.27\text{E-}3 \text{ ft/gpm}^2$. It also supports decreasing minimum flow to the three lowest flow lines from 345.8 gpm to 300 gpm and relaxing the maximum deviation between lines from 10 gpm to 25 gpm, and provides a tolerance of $\pm 5 \text{ gpm}$ for the simulated seal injection flow. These changes are reflected in the revised T/S page provided in Attachment 1.

The Westinghouse evaluation provided in Attachment 2 gives the results of the impact of the relaxed charging flow requirements on the applicable analyses submitted for the RTP Program. For most of the accidents, the analyses assumptions either bounded the relaxed parameter or the accident results would be insensitive to the changes. For the small break LOCA, Westinghouse performed a sensitivity study to demonstrate that peak clad temperatures would be acceptable. Therefore, the conclusions of the RTP Program remain valid. Based on the Westinghouse evaluation, we believe that the change to our proposed version of T/S 4.5.2.h should not require notification in the Federal Register.

This document has been prepared following Corporate procedures that incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Sincerely,



M. P. Alexich
Vice President

ldp

Attachments

cc: D. H. Williams, Jr.
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Charnoff
A. B. Davis
NRC Resident Inspector - Bridgman
NFEM Section Chief

ATTACHMENT 1 TO AEP:NRC:1067D

PROPOSED REVISED TECHNICAL SPECIFICATION PAGE