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RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Discusses plant-specific evaluation of relief & safety valves & related discharge piping analysis per 820709 ltr. Teledyne analysis revealed that discharge piping sys will be overloaded & supports stressed beyond allowable limits.

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May 27, 1983
AEP:NRC:0585F

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
NUREG-0737, ITEM II.D.1
PWR RELIEF AND SAFETY VALVE TEST PROGRAM

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: (1) Letter No. AEP:NRC:0585C dated July 9, 1982
(2) Letter No. AEP:NRC:0585E dated February 25, 1983
(3) Letter from Mr. S. A. Varga, NRC dated March 14, 1983

Dear Mr. Denton:

This letter concerns the plant specific evaluation of the Relief and Safety Valves and the related discharge piping analysis for the Donald C. Cook Nuclear Plant detailed in Reference (1). Teledyne Engineering Services (TES) is performing the analyses of the as-built piping system using the thermal-hydraulic code RELAP-5/MOD 1. While we have not yet received the final report, early notification from TES indicates that during the loop seal water discharge, the discharge piping system will be overloaded and the piping/supports will be stressed beyond the allowable stress limits. To eliminate this concern AEPSC proposes to drain the water in the Safety Valve loop seals in both Units at their next respective refueling outages. The preliminary analysis show that the thermal-hydraulic forces are substantially lower for the case when there is no water in the loop seal. The qualification of the as-built piping system will be performed without the loop seal water and, if necessary, the supports will be modified. The method to perform the seal water drainage is currently being evaluated.

In reference (2) we committed to submit the plant Specific Evaluation Report for the Donald C. Cook Nuclear Plant by July 1, 1983.

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This date was incorporated into the confirmatory order attached to Reference (3). We are hereby requesting an extension to the submittal date of the Plant Specific Evaluation of the Relief and Safety Valves and associated piping system from July 1, 1983, to September 15, 1983, to perform the additional work which we now anticipate as being required to qualify the discharge piping system.

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

Very truly yours,

R. S. Hunter
Vice President

/md

cc: John E. Dolan
M. P. Alexich
R. W. Jurgensen
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R. C. Callen
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NRC Resident Inspector at Cook Plant - Bridgman