



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUN 8 1982

Docket No. 50-298

MEMORANDUM FOR: Thomas N. Novak, Assistant Director for Operating Reactors, DL  
FROM: Themis P. Speis, Assistant Director for Reactor Safety, DSI  
SUBJECT: COOPER NUCLEAR STATION SINGLE LOOP OPERATION, NEBRASKA  
PUBLIC POWER DISTRICT

Plant Name: Cooper Nuclear Station  
Docket Number: 50-298  
NSSS Supplier: General Electric  
Responsible Branch: ORB-2  
Project Manager: B. L. Siegel  
Review Status: Complete  
TAC Number: 42418

Cooper SER for Single Loop Operation (SLO) with power operation limited to 50% was issued on December 10, 1981. The following requirements were among the conditions for SLO. a) APRM flux noise will be measured once per shift and the recirculation pump speed will be reduced if the flux noise exceeds 5-percent peak to peak. b) The core plate delta noise be measured once per shift and the recirculation pump speed will be reduced if the noise exceeds 1 psi peak to peak.

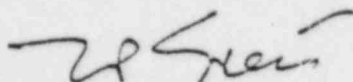
The staff requires that the licensee perform daily surveillance on the jet pumps to ensure that the pressure drop for one jet pump in a loop does not vary from the mean of all jet pumps in that loop by more than 5%.

The above requirements were imposed based on SLO experience of other BWRs especially Browns Ferry-1. But the licensee (Nebraska Public Power District) during a tele-conference on February 11, 1982 has indicated that the operating margins we imposed for APRM flux noise and core plate delta noise are too stringent and too difficult to conform during SLO. The licensee requested relief from the 5% margin we specified. The licensee proposed that they will monitor the noises at about 40% of power for a reasonable time period of 1/2 hour to 1 hour and the operating margin they get will be increased by a maximum of 50% to get the allowable margin at 50% power.

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The noise levels at Cooper during SLO may not be same as other BWRs, and it may vary during different power and flow conditions. We believe the proposed method to determine the operating margins for the flux noise and core plate delta noise during SLO give sufficient conservatism to satisfy our BF-1 concerns hence is acceptable. The licensee may be informed accordingly.



Themis P. Speis, Assistant Director  
for Reactor Safety, DSI

cc: B. Siegel  
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RSB Section Leaders  
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