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RECIP.NAME RECIPIENT AFFILIATION
YOUNGBLOOD,B.J. Licensing Branch 1

SUBJECT: Forwards info which completes action re SER Outstanding Issues 93,95 & 100 in response to three TMI requirements. Info replaces responses submitted in PLA-659.

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NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381

May 13, 1981

Mr. B. J. Youngblood
Licensing Project Branch #1
Division of Project Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
SER OUTSTANDING ISSUE NOS. 93, 95, AND 100 DOCKET NOS. 50-387
ER 100450 FILE 841-2, -12 PLA-771 AND 50-388

Dear Mr. Youngblood:

The attachments provide responses to three TMI requirements. These responses should replace the temporary responses submitted in PLA-659. These responses complete our action to close SER outstanding issues 93, 95 and 100.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

DPM/mks

Attachment

cc: R. M. Stark - USNRC

SER OUTSTANDING ISSUE 93

X.1.52.3 Statement of Response

The BWR Owners' Group (BWROG) has performed an evaluation and developed recommendations to comply with this requirement. These recommendations were transmitted by a letter from D. B. Waters to D. G. Eisenhut on March 31, 1981. This evaluation shows that Crosby SRVs (as will be installed in Susquehanna) have a probability of sticking open which is approximately a factor of ten less than the three stage Target Rock valves. It is our understanding that the goal of this requirement is to reduce the probability of a stuck open SRV by a factor of 10 relative to the reference valve, which is the Target Rock valve. Therefore we meet the intent of this requirement without modifications. Implementation of the modification proposed by the BWROG will not significantly reduce this failure probability. Therefore no modifications are necessary in response to this requirement.

SER OUTSTANDING ISSUE 95

X.1.54.3 Statement of Response

The BWR Owners' Group has completed a generic feasibility study in response to this requirement. The results were transmitted by a letter from D. B. Waters to D. G. Eisenhut on March 31, 1981. PP&L has reviewed these results which are summarized below.

The intent of this requirement is to provide additional assurance of adequate core cooling. (The current Susquehanna design provides several mechanisms to prevent inadequate core cooling.) No significant increase in reliability can be gained by modifying ADS logic. However, the reliability of operator performance under degraded plant conditions has been informally demonstrated to increase as a result of implementing symptom-based emergency procedures and associated training.

Therefore, no ADS logic modifications will be made to Susquehanna. Symptom-based emergency procedures will be implemented (as required by item I.C.1) and these will give the operator explicit guidance under degraded plant conditions. The operators receive training on the emergency procedures (as part of their regular training) which provides an awareness and understanding of the plant response. No additional action is necessary to meet this requirement.

SER OUTSTANDING ISSUE 100

X.1.63.3 Statement of Response

The BWR Owners' Group (BWROG) has prepared a generic response to this requirement. The report was transmitted to D. G. Eisenhut by letter from D. B. Waters on December 29, 1980. This response summarizes analyses performed to demonstrate the core remains covered during an anticipated transient in combination with the worst single failure. Additionally, it concludes the core will remain covered with proper operator action during transients combined with the worst single failure and a stuck open safety/relief valve. PP&L has reviewed this response and finds it is applicable to SSES. Therefore, by reference to the BWROG report, PP&L meets this requirement.