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 AUTH. NAME: SØRENSEN, G.C. AUTHOR AFFILIATION: Washington Public Power Supply System  
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

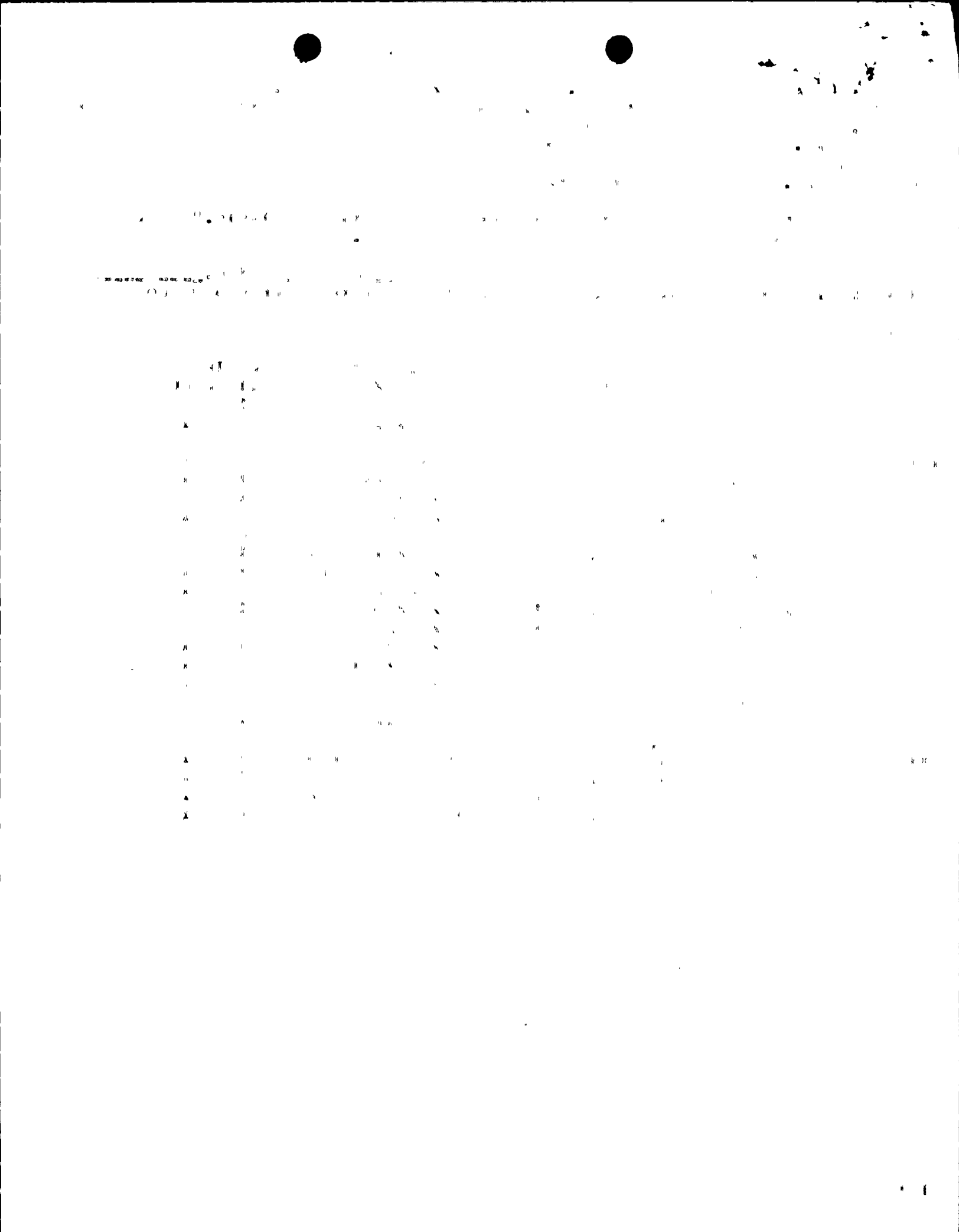
SUBJECT: Forwards "WPPSS Unit 2 Single-Loop Operation Analysis." Rept  
 will be incorporated in Amend 32 to FSAR.

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## Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

September 8, 1983  
G02-83-814

Docket No. 50-397

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
RECIRCULATION SYSTEM SINGLE-LOOP OPERATION

Attachment 1 analyzes Single-Loop Operation (SLO) for WNP-2. In the event the recirculation pump or other component maintenance renders one loop inoperative, SLO operation of WNP-2 is a necessary option for continuous, reliable power generation. This submittal justifies the use of SLO for WNP-2. In summary, Attachment 1 concludes:

- o No increase in rated MCPR operating limit and no change in the flow dependent Minimum Critical Power Ratio (MCPR) limit factors are required for Single-Loop Operation.
- o The Average Planar Linear Heat Generation Rate (MAPLHGR) reduction factor for single-loop operation is calculated to be 0.84.
- o The containment response for a Design Basis Accident recirculation line break with single-loop operation is bounded by the rated power two-loop operation analysis presented in FSAR Section 6.2.

This attachment will be incorporated in Amendment 32 to the WNP-2 FSAR.

Additionally, Attachment 2 provides the changes required to the technical specifications to support single-loop operation consistent with the safety limits analyzed in Attachment 1. The WNP-2 draft technical specification has been used for this attachment and only those changes highlighted by double parallel lines in the right hand margin apply to SLO.

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A. Schwencer

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RECIRCULATION SYSTEM SINGLE-LOOP OPERATION

With this submittal, the Supply System is requesting that the option for SLO be included as a necessary part of the WNP-2 operating license. Should you have any questions, please contact Mr. P. L. Powell, Acting Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Acting Manager  
Nuclear Safety and Regulatory Programs

PLP/tmh  
Enclosures

cc: R Auluck - NRC  
WS Chin - BPA  
A Toth - NRC Site

