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

SUBJECT: Closes SER (NUREG-0892) Confirmatory Issue 14, modifying RCIC pipe break detection circuitry sys to prevent spurious isolation of RCIC sys. Changes will be incorporated into next FSAR amend.

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

August 12, 1983
G02-83-726

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
SAFETY EVALUATION REPORT (NUREG-0892),
CONFIRMATORY ISSUE NO. 14, MODIFICATION
TO PREVENT SPURIOUS ISOLATION OF RCIC SYSTEM

Enclosed is the modification of the WNP-2 position on the RCIC pipe break detection circuitry system, "to add a time delayed inhibit to the isolation signals". Changes to the RCIC electrical diagram are shown on the enclosed figure. These changes will be incorporated into the next WNP-2 FSAR Amendment (Number 32).

This submittal closes Confirmatory Issue No. 14 of the WNP-2 SER. Should you have further questions, please contact Mr. P. L. Powell, Acting Manager, WNP-2 Licensing on (509) 377-2501 X2298.

Very truly yours,

GC Sorensen

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

JCA/tmh
Enclosure

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

B001
1/1

II.K.3.15 Modify Break-Detection Logic to Prevent Spurious Isolation of High Pressure Coolant Injection and Reactor Core Isolation Cooling

Position

The high pressure ~~coolant injection~~ (HPCI) and reactor core isolation cooling (RCIC) systems use differential pressure sensors on elbow taps in the steam lines to their turbine drives to detect and isolate pipe breaks in the systems. The pipe break detection circuitry has resulted in spurious isolation of the HPCI and RCIC systems due to the pressure spike which accompanies startup of the systems. The pipe break detection circuitry should be modified so that pressure spikes resulting from HPCI and RCIC system initiation will not cause inadvertent system isolation (NUREG-0737).

Clarification

None

WNP-2 Position

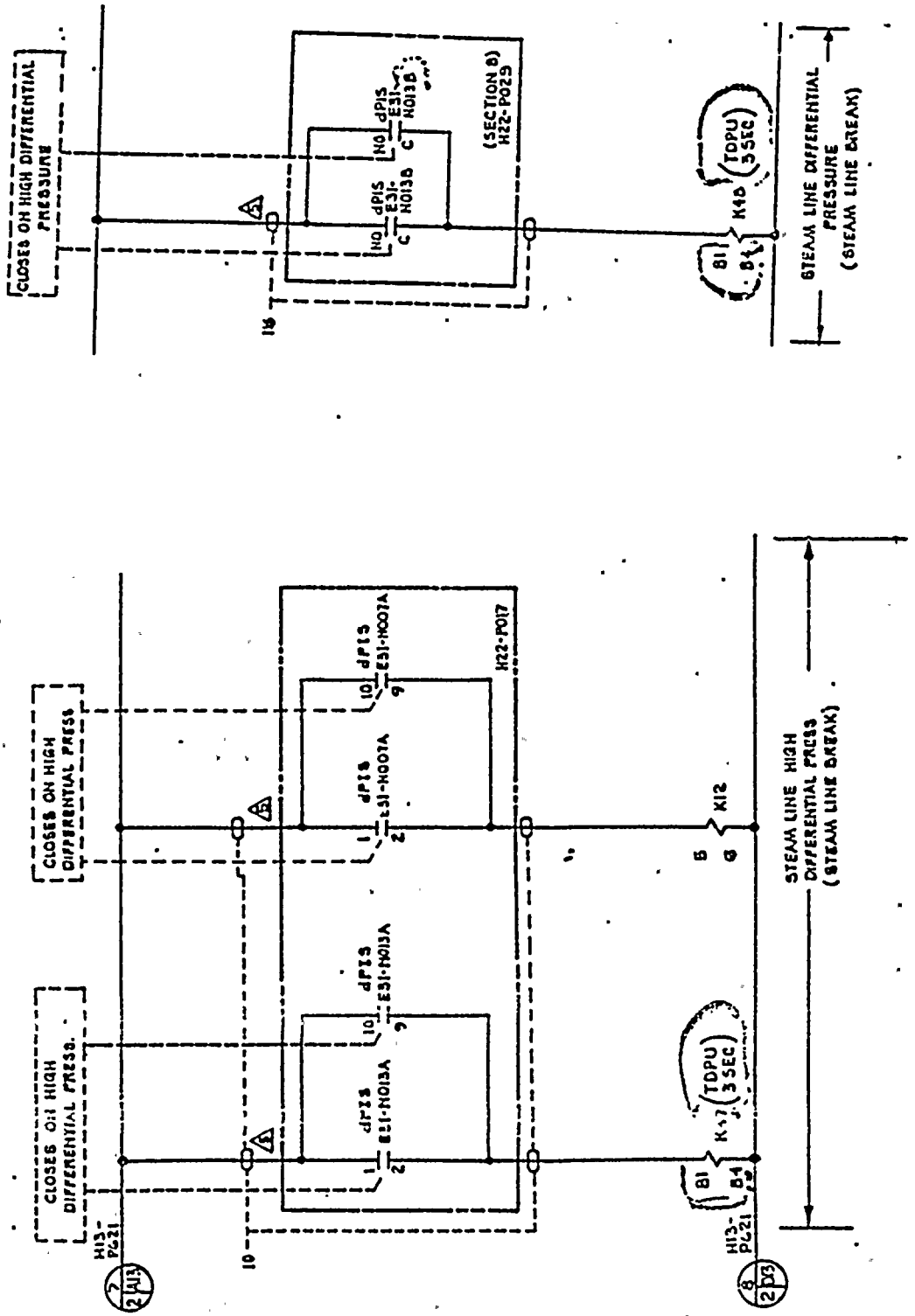
WNP-2 does not have a steam-driven HPCI system. Instead, it has a motor-driven HPCS system for which this modification does not apply. WNP-2 concurs with the intent of this position for the RCIC and ~~will modify~~ has modified the RCIC pipe break detection circuitry to add a time delayed inhibit to the isolation signals. This minor change ~~will~~ has eliminated the potential for isolation of the RCIC system due to the spurious pressure spike caused by system startup.

~~The logic modification is being designed and analyzed by General Electric. The logic changes for a typical RCIC break detection logic are shown on Figures II.K.3.15-1 and II.K.3.15-2.~~

~~The RCIC break detection logic diagrams and FSAR Figure 7.4-2a will be updated when the design is finalized.~~

This modification has been designed and analyzed by G.E. Changes to the RCIC electrical diagram are shown on Figure II.K.3.15-1. FSAR Figure 7.4-2a will be updated when the RCIC functional control diagram is updated.

TOTAL PAGE CHANGE — ORIGINAL ATTACHED



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WASHINGTON PUBLIC POWER SUPPLY SYSTEM NUCLEAR PROJECT NO. 2	~~A TYPICAL~~ RCIC STEAMLINE BREAK DETECTION ~~LOGIC~~ DIAGRAM (ELEMENTARY)	FIGURE II.K.3.15-1

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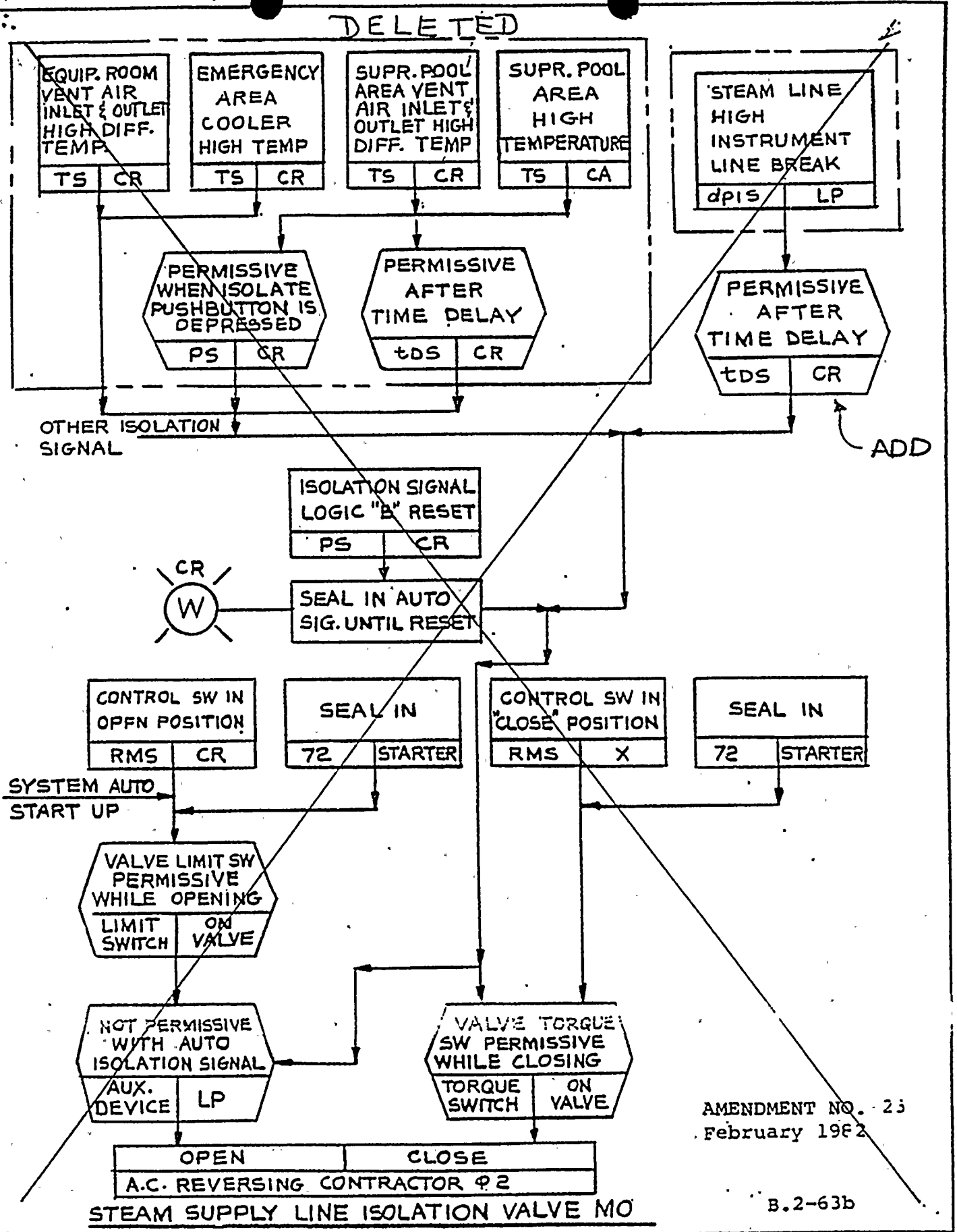

STEAM SUPPLY LINE ISOLATION VALVE MO

AMENDMENT NO. 23
February 1982

B.2-63b

WASHINGTON PUBLIC POWER SUPPLY SYSTEM NUCLEAR PROJECT NO. 2	RCIC/HPCI BREAK DETECTION LOGIC FCD	FIGURE II.K. 3.15-2