

50-305

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FILE NUMBER

TO:
Mr. A. Schwencer

FROM:
Wisconsin Public Service Corp.
Green Bay, WI
E.W. James

DATE OF DOCUMENT
8/3/77

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8/8/77

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DESCRIPTION *RE our 7-18-77 Hr. . .*
Consists of evaluation by applicant of the design of the low and high Head Safety Injection System, particularly the throttle value position verification for throttle valves used to adjust ECCS flows to analyze assumed values and to provide pump runout protection.

ENCLOSURE

DO NOT REMOVE

ACKNOWLEDGED

PLANT NAME:
Kewaunee Plant (2-P)
VT 8/9/77

SAFETY	FOR ACTION/INFORMATION	ENVIRONMENTAL
ASSIGNED AD:		ASSIGNED AD: V. MOORE (LTR)
<input checked="" type="checkbox"/> BRANCH CHIEF: (1) Schwencer		BRANCH CHIEF:
PROJECT MANAGER:		PROJECT MANAGER:
LICENSING ASSISTANT:		LICENSING ASSISTANT:
		B. HARLESS

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY & ENVIRON ANALYSIS
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	TEDESCO	DENTON & MULLER
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<input checked="" type="checkbox"/> OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
<input checked="" type="checkbox"/> HANAUER	KNIGHT	F. ROSA	ENVIRO TECH.
MTPC	BOSNAK		ERNST
CASE	SIHWELL	OPERATING REACTORS	BALLARD
BOYD	PAWLICKI	STELLO	YOUNGBLOOD
		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	SITE TECH.
SKOVHOLT	ROSS	BAER	
P. COLLINS	NOVAK	BUTLER	GAMMILL (2)
HOUSTON	ROSZTOCZY	GRIMES	
MELTZ <input checked="" type="checkbox"/>	CHECK		SITE ANALYSIS
HELTEMES			VOLLMER
SK	AT&I		BUNCH
	SALTZMAN		<input checked="" type="checkbox"/> J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION		CONTROL NUMBER
<input checked="" type="checkbox"/> LPDR: Kewaunee, Wis.		<p>772220049</p> <p><i>EUS</i></p> <p>(5)</p>
<input checked="" type="checkbox"/> TIC <input checked="" type="checkbox"/> NSIC		
NAT LAB		
REG IV (J. HANCHETT)		
<input checked="" type="checkbox"/> 16 CYS ACRS SENT CATEGORY B		

WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

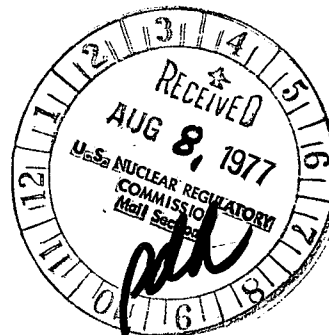
August 3, 1977

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Regulator

Division of Operating Reactors
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATTN: Mr. A. Schwencer, Chief
Operating Reactors Branch #1



Gentlemen:

REF: Docket 50-305
Operating License DPR-43
ECCS Throttle Valves

On July 18, 1977, we were requested by letter from your office to evaluate the design of the low and high head Safety Injection System. The particular area of concern of the letter was throttle valve position verification for throttle valves used to adjust ECCS flows to analyze assumed values and to provide pump runout protection.

The low head safety injection system does not include throttle valves for either pump runout protection or flow adjustment. The low head safety injection system is comprised of the residual heat removal pumps, each with its separate suction and discharge piping which provides a non-throttled path to the reactor vessel.

The high head safety injection system includes four two-inch throttle valves for the purpose of balancing flow and providing pump runout protection. Figure 6.2-1 of the FSAR presents the section of the Safety Injection System which includes those valves. (The 2-T58 valves which Note 9 of the Figure 6.2-1 addresses are the valves of concern.)

During the preoperational test program, the proper position of each valve stem was determined by accurate flow measurement. Following determination of proper valve position, the valve handles were removed, stem lock nuts were installed and mated with the stem nut with set screws, and locking/retaining brackets were welded to the valve yoke fastening the lock nut in place. Thereby, the valve stems were locked in position and any displacement of stem position is prevented. These valves were included in the design as adjustable orifices

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which once the proper position is determined, are to be fixed in that position. Since the movement of valve stem position has been prevented, the orifice is now fixed and continued surveillance is not necessary.

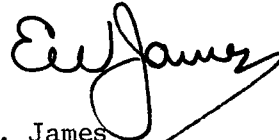
In addition, a note has been added to the flow diagram, which applies to each of the ECCS throttling valves. That note states:

"Valve throttled to ECCS flow spec. Locking device installed on valve stem. Consult Preoperational Test PT S1 02 File and perform safety review prior to removal of locking device."

The valves are also tagged with a danger card and a similar note.

In view of the provision addressed above in regard to the S1 throttle valves, we consider no further action necessary to assure adherence to the ECCS assumed flow conditions at the Kewaunee Plant.

Very truly yours,



E. W. James
Senior Vice President
Power Supply & Engineering

EWJ:sna

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