ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9109100313 DOC.DATE: 91/09/04 NOTARIZED: YES DOCKET #
FACIL:50-305 Kewaunee Nuclear Power Plant, Wisconsin Public Servic 05000305
AUTH.NAME AUTHOR AFFILIATION
STEINHARDT,C.R. Wisconsin Public Service Corp.
RECIP.NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Submits response to NRC request for addl info re Proposed Amend 102 to License DPR-43,changing Tech Spec Table 3.5-2 to revise nomenclature for permissive P-6 setpoint.

DISTRIBUTION CODE: A001D COPIES RECEIVED:LTR 1 ENCL 0 SIZE: 2
TITLE: OR Submittal: General Distribution

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD3-3 LA	1	1	PD3-3 PD	1	1
	HANSEN,A.	2	2			
INTERNAL:	ACRS	6	6	NRR/DET/ECMB 7D	1	1
	NRR/DET/ESGB	1	1	NRR/DOEA/OTSB11	1	1
	NRR/DST 8E2	1	1	NRR/DST/SELB 7E	1	1
	NRR/DST/SICB8H7	1	1	NRR/DST/SRXB 8E	1	1
	NUDOCS-ABSTRACT	1	1	OC/LFMB	1	0
	OGC/HDS1	1	0	REG FILE 01	1	1
	RES/DSIR/EIB	1	1			
EXTERNAL:	NRC PDR	1	1	NSIC	1	1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 24 ENCL 22

R I D S / A D D S

R I D S / A D D S

NRC-91-128

WPSC (414) 433-1598
TELECOPIER (414) 433-5544

EASYLINK 62891993

WISCONSIN PUBLIC SERVICE CORPORATION

600 North Adams • P.O. Box 19002 • Green Bay, WI 54307-9002

September 4, 1991

10 CFR 50.92

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Proposed Amendment 102 to the Kewaunee Nuclear Power Plant (KNPP)
Technical Specifications (TS); Request for Additional Information

Reference: Proposed Amendment 102 to the KNPP TSs; Letter from C. R. Steinhardt (WPSC) to Document Control Desk (NRC) dated June 4, 1991

The above reference proposed a change to the KNPP TSs Table TS 3.5-2 to revise the nomenclature for the permissive P-6 setpoint. This change was requested since the new fission detectors, which were installed during the 1991 refueling outage, provide indication in percent power versus the old detectors which provided indication in amps. The Safety Evaluation for the proposed change stated in part:

> Since the new detectors indicate in percent power versus amps, the note is being revised to specify that the bypass condition is satisfied when 1 of 2 IR nuclear instrumentation channels indicates $> 10^{-5}$% power. The neutron flux at 10^{-5}% power is comparable to 10^{-10} amps; therefore, the revision is only a nomenclature change consistent with the display capabilities of the new neutron flux detectors.

During the review the NRC staff requested additional basis for stating that the two neutron flux values for permissive P-6 were comparable.

A001
1/0

In response to the staff's question, comparable values were arrived at by equating the old scale in amps, and the new scale, in percent power. The old intermediate range (IR) instrumentation measured flux over an 8 decade range with an indication of 10E-11 to 10E-3 amps, with 10E-3 amps equal to 100% reactor power. The permissive P-6 was set at a value 7 decades below 100% reactor power. The basis for the P-6 setpoint is to verify that the IR channel is functional prior to disabling the source range trip. The new fission detectors measure flux over a nominal 10 decade range with an indication of 10E-8% to 200% reactor power. Therefore, when overlaying the indications of the old and new detectors, 10E-5% power, 7 decades below 100% power, is comparable to 10E-10 amps.

The approach of equating output indication is acceptable as both are logarithmic scales measuring comparable ranges of neutron flux. If you require additional information please contact me or a member of my staff.

Sincerely,

C. R. Steinhardt
Senior Vice President - Nuclear Power

SLB/jms

cc - US NRC - Region III
Mr. Patrick Castleman, US NRC
Mr. R. S. Cullen, PSCW

Subscribed and Sworn to
Before Me This 4th Day
of September 1991

Notary Public, State of Wisconsin

My Commission Expires:
June 18, 1995

LIC\NRC\N510