DISTRIBUTION AFTER ISSU	JANCE OF OPERATING	LICENSE	
C FORM 195		CLEAR REGULATORY COM	30-303
NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL			
):	EROM:	ublic Svc. Corp.	DATE OF DOCUMENT 9/6/77
Mr. A. Schwencer	Green Bay, E. W. James	Wisconsin	DATE RECEIVED 9/9/77
ETTER NOTORIZED	PROP	INPUT FORM	NUMBER OF COPIES RECEIVED
MORIGINAL MUNCLASSIFIED			1 Signed
SCRIPTION RE Their 11-15.	76 HR	ENCLOSURE	
Consisting of information cor Steam Generator Tube Plugging	ncerning	C	
	•	DO M	IT REMOVE
(2 - P)		ACKNOWIEDGED	
			BAR BAT T
LANT NAME: Kewaunee		-	
RJL 9/9/77	•		
SAFETY	FOR ACTION	/INFORMATION	
	hwencer		
	INTERNAL	DISTRIBUTION	·
REG FILE			
NRC-PDR			
I & E (2)			
OELD			
HANAUER			
CHECK			
STELLO			
EISENHUT			
SHAO			
BAER			
BUTLER			
GRIMES			
J. COLLINS			
			CONTROL NUMBER
	TERNAL DISTRIBUTIO	N .	
LPDR: KEWAUNES U	Uis.		MR 4
TIC			772520033
NSIC	·		
16 CYS ACRS SENT CATEGORY	8		60
		1 1	

WISCONSIN PUBLIC SERVICE CORPORATION



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

September 6, 1977

Regulatory

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

ATTN: Mr. A. Schwencer, Chief

Operating Reactors Branch #1 Division of Operating Reactors

Gentlemen:

SUBJECT: Docket 50-305

Operating License DPR-43

Steam Generator Tube Plugging Criteria

REF:

Letter to NRC from WPS dated November 15, 1976

File Cy

b) WCAP-7832, "Evaluation of Steam Generator Tube, Tube Sheet and Divider Plate Under Combined LOCA Plus SSE Conditions"

Kewaunee Nuclear Power Plant Annual Operating Report - 1976

Proposed Amendment No. 19, Proposed Change No. 21, to the Kewaunee Nuclear Power Plant Technical Specifications, submitted by reference a), has been questioned regarding the use of 50% tube wall penetration as the steam generator tube plugging criteria. The purpose of this letter is to further justify our use of the 50% tube plugging criteria.

In the Atomic Safety and Licensing, Appeal Board hearing decision for Prairie Island Nuclear Generating Plant, Units 1 and 2, (ALAB-343, September 2, 1976), Section III-D, "Tube Plugging Criteria," acceptance of the applicant's justification for applying reference b) to 51-series steam generators is indicated. Further testimony outlined in this decision provided information that a 51-series tube thinned to 0.021 inches (58% tube degradation) is equivalent in strength to the degraded Model D tube described in reference b) and will meet the Faulted Condition Stress Criteria. This information indicates that a 50% tube plugging criteria provides complete assurance against tube failure in the absence of significant tube wall thinning due to corrosion.

Wisconsin Public Service Corporation agrees with the NRC's usage of a 40% wall penetration tube plugging criteria when significant corrosive tube thinning is occurring in the steam generator. Such a limit is needed in this case to provide assurance that tube degradation in excess of 50% does not occur between inservice inspections of the steam generator. However, since there is

772520033

U. S. Nuclear Regulatory Commission Page 2 September 6, 1977

10 8 IN 9 CE

no evidence of tube thinning in the Kewaunee Plant Steam Generators, as reported in reference c), we believe our use of a 50% wall penetration tube plugging criteria is justified. If significant corrosive tube thinning does ever occur in the Kewaunee Plant Steam Generators, we will follow the 40% penetration tube plugging criteria and will request a Technical Specification amendment to this effect.

Sincerely,

E. W. James

Senior Vice President Power Supply & Engineering

EWJ:sna

RECEIVED DOCUMENT PROCESSING UNIT

1977 SEP 9 PM 12 07

• • • •

.

.

.

٠.

.

-137