

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9804090318 DOC.DATE: 98/03/30 NOTARIZED: NO DOCKET #
 FACIL: 50-305 Kewaunee Nuclear Power Plant, Wisconsin Public Service 05000305
 AUTH.NAME AUTHOR AFFILIATION
 MARCHI, M.L. Public Service Co. of Colorado
 RECIP.NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Informs that Westinghouse notification identified four changes, impacted large break LOCA evaluation model. Results of evaluation scheduled to be submitted to NRC in second quarter of CY98.

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

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD3-3 LA	1 1	PD3-3 PD	1 1
	LONG, W	1 1		
INTERNAL:	ACRS	1 1	<u>FILE CENTER - 01</u>	1 1
	NRR/DE/ECGB/A	1 1	NRR/DE/EMCB	1 1
	NRR/DRCH/HICB	1 1	NRR/DSSA/SPLB	1 1
	NRR/DSSA/SRXB	1 1	NUDOCS-ABSTRACT	1 1
	OGC/HDS2	1 0		
EXTERNAL:	NOAC	1 1	NRC PDR	1 1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE. TO HAVE YOUR NAME OR ORGANIZATION REMOVED FROM DISTRIBUTION LISTS OR REDUCE THE NUMBER OF COPIES RECEIVED BY YOU OR YOUR ORGANIZATION, CONTACT THE DOCUMENT CONTROL DESK (DCD) ON EXTENSION 415-2083

TOTAL NUMBER OF COPIES REQUIRED: LTTR 14 ENCL 0

C
A
T
E
G
O
R
Y

1

D
O
C
U
M
E
N
T



NRC-98-27

Public Service Corporation

(a subsidiary of WPS resources corporation)

600 North Adams Street

P.O. Box 19002

Green Bay, WI 54307-9002

1.800.450.7260

March 30, 1998

10CFR 50.46(a)(3)(ii)

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

Ladies/Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Emergency Core Cooling System (ECCS) Evaluation Model

On February 27, 1998, Westinghouse Electric Corporation provided Wisconsin Public Service Corporation (WPSC) with the 10 CFR 50.46 reporting of changes to the Emergency Core Cooling Evaluation Model for calendar year 1997. WPSC has reviewed the changes and determined that the estimated cumulative impact of the changes to the Large Break Loss-of-Coolant (LBLOCA) Evaluation Model (EM) peak cladding temperature (PCT) is greater than 50°F, and therefore, is reportable within 30 days pursuant to 10 CFR 50.46(a)(3)(ii). The current analysis of record has a PCT of 2009°F. The changes result in a revised Appendix peak clad temperature of 2112°F, thus continuing to meet the 50.46 acceptance criterion of less than 2200°F.

The Westinghouse notification identified four changes that impacted the LBLOCA EM. They are described below with their estimated PCT impact:

- 1) An evaluation concluded that locking the reactor coolant pump rotors at the start of the reflood is more limiting. (+29°F)
- 2) A model correction was made to not double count the contribution of the vapor phase to the transition boiling heat flux. (-76°F)
- 3) A model change was made to use correct cell height (i.e., DX) in determining gap flow wall friction and interfacial drag coefficients. (+108°F)
- 4) Model revisions were made to ensure that data input and data transfer methods were consistent for all SECY UPI Appendix K analyses. (+42°F)

WPSC understands that Westinghouse has reported these changes to the NRC (reference NSD-NRC-98-5575).

9804090318 980330
PDR ADDCK 05000305
P PDR

GBNUC1\NAGROUP\NUCLEAR\WPFILES\LIC\NRC\WESTG.WPD

1/0
A001

Document Control Desk

March 30, 1998

Page 2

WPSC is currently performing a new analysis of the LBLOCA to support a license amendment that reflects implementation of a revised fuel assembly design and higher core peaking factors. This evaluation will use the revised Westinghouse model incorporating the above detailed changes. The results of the evaluation are scheduled to be submitted to the NRC in the second quarter of calendar year 1998.

If you require any additional information or have questions concerning this transmittal, please contact a member of my staff.

Sincerely,



Mark L. Marchi
Manager-Nuclear Business Group

RPP

cc - US NRC, Region III
US NRC Senior Resident Inspector