

A 04/19/78

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FORWARDING LICENSEE EVENT REPT (RO 50-305/7810-01T) ON 03/27/78 CONCERNING
NOTIFICATION OF APPLICANT'S NSSS SUPPLIER OF A LOGIC ERROR IN THE
CALCULATIONAL CODE FOR ECCS LOCA ANALYSIS WHICH DOES NOT PROPERLY ACCOUNT FOR
THE HEATING EFFECT OF THE ZIRCALLOY WATER REACTION.

PLANT NAME: KEWAUNEE

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: *W*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

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REGULATORY GUIDE 10.1

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+1P

CONTROL NBR: 781080110

AS
CF

D. Handam
FILE

WISCONSIN PUBLIC SERVICE CORPORATION



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

April 10, 1978

Mr. J. G. Keppler, Regional Director
Office of Inspection & Enforcement
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

Docket 50-305
Operating License DPR-43
Reportable Occurrence LER 78-10/01T

In accordance with the requirements of Technical Specifications, Section 6.9, the attached Licensee Event Report for reportable occurrence LER 78-10 is being submitted. This report was sent in 24 hours initially as reportable occurrence 78-08. Please update that report number to 78-10.

Very truly yours,

Carl W. James
for

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

sa

Attach.

cc - Dir, Office of Inspection & Enforcement
US NRC, Washington, D. C. 20555
Dir, Office of Mgt Info & Program Control
US NRC, Washington, D. C. 20555

APR 12 1978

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	W	I	K	N	P	1	2	0	0	-	0	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4	5			
7	8	9	LICENSEE CODE						14	15	LICENSE NUMBER										25	26	LICENSE TYPE				30	57	CAT 58		80

0	1	L	6	0	5	0	0	0	0	3	0	5	7	0	3	2	7	7	8	8	0	4	1	0	7	8	9
7	8	REPORT SOURCE		60	61	DOCKET NUMBER						68	69	EVENT DATE				74	75	REPORT DATE				80			

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | Our NSSS supplier notified us of a logic error in the calculational code for ECCS

0 3 | LOCA analysis which does not properly account for the heating effect of the zircalloy/

0 4 | water reaction. The impact of this effect would lower the calculated peak fuel clad

0 5 | temperature. However, currently docketed Appendix K calculations not used in our

0 6 | LOCA analysis uses a different blowdown heat transfer coefficient which would negate

0 7 | this effect and in fact would result in a net gain in calculated peak fuel clad

0 8 | temperature.

0	9	X	X	11	X	12	Z	13	Z	Z	Z	Z	Z	Z	14	Z	15	Z	16	17	7	8	0	1	0	1	T	0				
7	8	SYSTEM CODE		9	10	CAUSE CODE	11	CAUSE SUBCODE	12	COMPONENT CODE					13	18	COMP. SUBCODE	19	VALVE SUBCODE	20	LEP RO REPORT NUMBER	21	EVENT YEAR	22	SEQUENTIAL REPORT NO.	23	OCCURRENCE CODE	27	REPORT TYPE	30	REVISION NO.	32
33	34	X	13	X	19	Z	20	Z	21	0	0	0	0	22	N	23	N	24	Z	25	Z	9	9	9	9	26						
33	34	ACTION TAKEN		35	EFFECT ON PLANT	36	SHUTDOWN METHOD	37	HOURS	40	ATTACHMENT SUBMITTED	41	NPRD-4 FORM SUB.	42	PRIME COMP. SUPPLIER	43	COMPONENT MANUFACTURER	44	47													

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Our NSSS supplier has provided us with the results of calculations performed to show

1 1 | that no changes in the operation of the Kewaunee Nuclear Power Plant are immediately

1 2 | necessary. This information has been submitted to Division of Operating Reactors on

1 3 | April 10, 1978, and further discussions concerning corrective actions will be carried

1 4 | on with the NRC in Washington.

1	5	E	22	1	0	0	29	NA	30	D	31	Notification from NSSS	32					
7	8	FACILITY STATUS		9	% POWER			12	OTHER STATUS	13	44	METHOD OF DISCOVERY	45	46	DISCOVERY DESCRIPTION			80
1	6	Z	33	Z	34	NA	35	NA	36									
7	8	ACTIVITY RELEASED		9	CONTENT	10	AMOUNT OF ACTIVITY	11	44	45	LOCATION OF RELEASE			80				
1	7	0	0	0	37	Z	38	NA	39									
7	8	PERSONNEL EXPOSURES		9	NUMBER	10	TYPE	11	DESCRIPTION	12	13							
1	8	0	0	0	40	NA	41											
7	8	PERSONNEL INJURIES		9	NUMBER	10	DESCRIPTION	11	12									
1	9	Z	42	NA	43													
7	8	LOSS OF OR DAMAGE TO FACILITY		9	TYPE	10	DESCRIPTION	11	12									
1	9	Z	44	NA	45													
7	8	PUELCITY ISSUED		9	DESCRIPTION	10	11	12										
2	0	Z	44	NA	45													

M. L. Marchi

NAME OF PREPARER

PHONE: (414) 433-1310

NRC USE ONLY

WISCONSIN PUBLIC SERVICE CORPORATION



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

REGULATORY DOCKET FILE COPY

REGISTRATION SERVICES

1978 APR 10 53

REGISTRATION SERVICES UNIT

April 10, 1978

Mr. J. G. Keppler, Regional Director
Office of Inspection & Enforcement
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
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Attach.

cc - Dir, Office of Inspection & Enforcement
US NRC, Washington, D. C. 20555
Dir, Office of Mgt Info & Program Control
US NRC, Washington, D. C. 20555

4002
5/11

