

FEBRUARY 10 1978

Docket No. 50-305

Wisconsin Public Service Corporation
ATTN: Mr. E. W. James
Senior Vice President
Post Office Box 1200
Green Bay, Wisconsin 54305

Gentlemen:

By letter dated January 16, 1978, you responded to our request for appropriate bases to justify continued operation of your plant beyond 30 days. This request was in regard to our concern over the adequacy of your ECCS evaluation model. We have begun our review of your submittal and find that we need additional information in order to complete our review.

Please provide the information identified in the attachment to this letter as soon as possible but no later than February 15, 1978.

Sincerely,

Original Signed By

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/encl:
See next page

DISTRIBUTION
Docket
NRC PDR
LOCAL PDR
ORB#1 Reading
KRGoller
ASchwencer
SMSheppard
DNeighbors
OELD
OI&E(3)
aCRS(16)
TBAbernathy
JRBuchanan
DEisenhut

OFFICE >	DOR:ORB#1	DOR:ORB#1	DOR:ORB#1			
SURNAME >	DNeighbors:lb	MGrotenhuis	ASchwencer			
DATE >	2/10/78	2/10/78	2/10/78			

AP 3
GD

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cc: Steven E. Keane, Esquire
Foley, Sammond & Lardner
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202

Bruce W. Churchill, Esquire
Shaw, Pittman, Potts & Trowbridge
1800 M Street, NW.
Washington, D. C. 20036

Kewaunee Public Library
314 Milwaukee Street
Kewaunee, Wisconsin 54216

REQUEST FOR ADDITIONAL INFORMATION

The following additional information is required in order to complete the staff evaluation of the January 16, 1978 letters from the two-loop plant owner-operators.

1. Provide the Westinghouse design FLECHT correlation used in the analysis including all input parameters.
2. Provide the input values for pressure, injection rates, flooding rates and decay heat as a function of time used in the analysis and provide references for the sources of this data.
3. Provide the carryover rate fraction as a function of time for a typical two-loop plant reflood.
4. Provide the heat transfer coefficient and the steam generation in the unquenched portion of the core due to bottom reflood water.
5. Provide a list of the sources of metal heat in the upper plenum along with the mass and stored energy of each.
6. Provide a description of the heat release model employed in the upper plenum, including the assumed heat transfer coefficient, surface area and specific heat.
7. Provide a calculation of the change in peak clad temperature for each two-loop plant using the Westinghouse proposed model with proposed changes 4 and 5 eliminated for both 100% ANS decay heat and 120% ANS for decay heat.
8. Provide the appropriate changes in F_q and/or power levels, if necessary, for each two-loop plant to assure that the results of each of the above calculations (item 7) meet the peak clad temperature criterion of 2200°F.