

MAY 31 1978

Docket No. 50-263 ✓
 Docket No. 50-282
 Docket No. 50-306

Northern States Power Company
 ATTN: Mr. Leo Wachter
 Vice President
 Power Production and
 System Operation
 414 Nicollet Mall
 Minneapolis, MN 55401

Gentlemen:

The enclosed IE Circular No. 78-06, is forwarded to you for information. No written response is required. Should you have any questions related to your understanding of this matter, please contact this office.

Sincerely,

James G. Keppler
 Director

Enclosures:

1. IE Circular No. 78-06
2. List of IE Circulars
 Issued in 1978

cc w/encls:

Mr. L. R. Eliason, Plant
 Manager

Mr. F. P. Tierney, Jr.,
 Plant Manager

✓ Central Files
 Director, NRR/DPM
 Director, NRR/DOR

PDR

Local PDR

NSIC

TIC

Anthony Roisman, Esq.,

Attorney

John W. Ferman, Ph.D.,
 OFFICE Nuclear Engineer

SURNAME ►

DATE ►

RIII

RIII

Fiorelli/bk

Keppler

5/30/78

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

May 31, 1978

IE Circular No. 78-06

POTENTIAL COMMON MODE FLOODING OF ECCS EQUIPMENT ROOMS AT BWR FACILITIES

Georgia Power Company (GPC), by letter dated March 22, 1978, reported that during a review of the design of the ECCS corner room equipment drain systems at the Hatch facilities, the equipment drain lines for Hatch 1 were found piped into the top of an open 6-inch pipe (standpipe) in each corner room. These corner room standpipes are interconnected by a 6-inch pipe to a common sump in one corner room. This sump has redundant pumps which are powered from different emergency buses. The equipment drain system does not have any isolation valves within any of the piping between corner rooms. Therefore, in the event of a pipe break of sufficient size to flood sump pumps, the other ECCS corner rooms would be subject to flooding via the equipment drain piping.

Since one of the reasons for installing the ECCS equipment in separate, water-tight rooms was to eliminate the potential for common flooding, GPC is "hard piping" all of the equipment drain lines into the side of the corner room standpipe and capping the standpipe. This limits the size of the potential flooding backflow to the small size (approximately 1/2") piping of the equipment leakoff drain line.

The above described design for Hatch 1 and 2 was part of the A-E balance-of-plant design provided by Bechtel.

All holders of reactor operating licenses should assure that similar pathways, which could lead to common flooding of redundant equipment, do not exist in their facilities. It is recommended that the following items be considered in your review of this matter:

1. The specific design and installation for floor and equipment drains should be reviewed to verify that a flood in any one room or location would not result in flooding redundant equipment in other ECCS equipment rooms or in areas at a lower elevation.

May 31, 1978

2. If your installation depends on isolation valves and limit switches to prevent common flooding, your surveillance program should be reviewed to verify adequate maintenance of protection. Your Technical Specifications should be reviewed to assure that necessary surveillance of isolation valves, level switches, or sump pumps are included as appropriate.
3. Your administrative controls should also be reviewed to assure that separation criteria is maintained and water tight doors and/or hatches are closed as appropriate.

This circular is also issued to holders of construction permits for information or use as appropriate to the status of plant construction.

No written response to this circular is required. If you require additional information regarding this matter, contact the Director of the appropriate NRC Regional Office.

IE Circular No. 78-06
May 31, 1978

LISTING OF IE CIRCULARS ISSUED IN 1978

Circular No.	Subject	Date of Issue	Issued To
78-01	Loss of Well Logging Source	4/5/78	All Holders of Well Logging Source Licenses
78-02	Proper Lubricating Oil for Terry Turbines	4/20/78	All Holders of Reactor OLs or CPs
78-03	Packaging Greater Than Type A Quantities of Few Specific Activity Radioactive Material for Transport	5/12/78	All Holders of Reactor OLs, CPs, Fuel Cycle, Priority I Material and Waste Disposal Licenses
78-04	Installation Error That Could Prevent Closing of Fire Doors	5/15/78	All Holders of Reactor OLs or CPs
78-05	Inadvertent Safety Injection During Cooldown	5/23/78	All Holders of Reactor OLs or CPs