



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011 8064

MAR 25 1994

Docket No. 50-298
License No. DPR-46

Nebraska Public Power District
ATTN: Guy R. Horn, Vice President - Nuclear
P.O. Box 98
Brownville, Nebraska 68321

SUBJECT: SUMMARY OF PUBLIC MEETING ON MARCH 8, 1994

The refers to the management meeting, open to public observation, conducted on March 8, 1994, at the Region IV office in Arlington, Texas, concerning activities authorized by NRC License DPR-46 for the Cooper Nuclear Station. Attendees at the meeting are listed in Attachment 1.

This purpose of this meeting was for you to present to the NRC the results of your investigation into the causes and plant response to a scram that occurred on March 2, 1994. We performed a special inspection of the reactor scram and your post-trip review activities and, because of the concerns identified by this inspection regarding the rigor and thoroughness of your post-trip review, we asked that you brief the NRC on the scram and the results of your review prior to plant start up. In your March 5, 1994, letter you committed to meet with the NRC prior to startup, and subsequently you requested that the briefing be conducted in a meeting at the Region IV office.

During the meeting you indicated that it was always your intent to identify and resolve the causes of the March 2 scram. You presented the results of your investigation into the cause of the scram and concluded that the most probable cause was an intermittent failure of a relay in the electrohydraulic valve transfer card. As corrective action, you replaced the card. Also, you indicated that you were in the process of trying to replicate the failure; were initiating a third-party review of the occurrence by the manufacturer; and had performed a formal problem solving process to identify other theoretical deficiencies that may have cause the malfunction. You also stated that you would evaluate each of these issues.

In regard to the plant and equipment response, you stated that the magnitude of the reactor level drop was not extraordinary for this transient, and the high pressure coolant system initiation and injection were not required for recovery of the reactor level since the reactor feedwater system was functioning. Your evaluation of the reactor level at which the high pressure coolant system initiated concluded that the initiation point was correct. The apparent start of the system at -17 inches when the nominal initiation setpoint was -25 inches was caused by the differences in the mechanical response of the level indicating switches as compared to the level transmitters.

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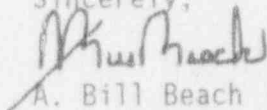
Additional corrective actions presented by you included the changing of the reactor feedwater control system loss of signal clamp setpoint; plans to enhance the post-trip review process; and plans to determine corrective actions to address the fact that the high pressure coolant system initiated and injected for this transient which is not the design objective of the high pressure coolant injection system.

Although we do not fully agree with your assessment as to the aggressiveness and thoroughness of your review efforts, it is our opinion that this meeting provided our staff with a better understanding of the causes of the reactor scram on March 2; the plant and equipment response to the scram, and the response and actions of your staff. We indicated to you at the meeting that, based on the information presented, you had adequately addressed determination of the causes of the scram and adequately assessed the plant and equipment response.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter will be placed in the NRC's Public Document Room.

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,



A. Bill Beach
Division of Reactor Projects

Attachments:
Attendance List

cc:
Nebraska Public Power District
ATTN: G. D. Watson, General Counsel
P.O. Box 499
Columbus, Nebraska 68602-0499

Nebraska Public Power District
ATTN: Mr. David A. Whitman
P.O. Box 499
Columbus, Nebraska 68602-0499

Nebraska Department of Environmental
Control
ATTN: Randolph Wood, Director
P.O. Box 98922
Lincoln, Nebraska 68509-8922

Nebraska Public
Power District

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Nemaha County Board of Commissioners
ATTN: Larry Bohlken, Chairman
Nemaha County Courthouse
1824 N Street
Auburn, Nebraska 68305

Nebraska Department of Health
ATTN: Harold Borchert, Director
Division of Radiological Health
301 Centennial Mall, South
P.O. Box 95007
Lincoln, Nebraska 68509-5007

Department of Natural Resources
ATTN: Ronald A. Kucera, Department Director
of Intergovernmental Cooperation
P.O. Box 176
Jefferson City, Missouri 65102

Kansas Radiation Control Program Director

MAR 25 1994

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L. J. Callan

Branch Chief (DRP/C)

MIS System

Branch Chief (DRP/TSS)

RIV File

Senior Resident Inspector - Fort Calhoun

Resident Inspector

Lisa Shea, RM/ALF, MS: MNBB 4503

DRSS-FIPB

Project Engineer (DRP/C)

Senior Resident Inspector - River Bend

C:DRP/C	D:DRP			
JEGagliardo:ww	ABBeach			
3/14/94	3/15/94			

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3/14/94	3/15/94			

ATTENDANCE LIST

Nebraska Public Power District (NPPD)

G. Horn, Vice President, Nuclear
R. Gardner, Plant Manager
J. Lynch, Engineering Manager
R. Foust, Assistant Engineering Manager
M. Metzger, Lead Performance Engineer
G. Eckert, Consultant
T. Gray, Consultant

NRC

J. Callan, Regional Administrator
A. Beach, Director, Division of Reactor Projects (DRP)
T. Gwynn, Director, Division of Reactor Safety (DRS)
J. Mitchell, Acting Deputy Director, DRS
J. Gagliardo, Chief, Project Branch C, DRP
J. Pellet, Chief, Operations Branch, DRS
G. Constable, Chief, Plant Support Branch, DRS
R. Kopriva, Senior Resident Inspector, Cooper Nuclear Station
E. Collins, Team Leader, DRS