



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

February 14, 1991

Docket No. 50-298

Mr. Guy R. Horn
Nuclear Power Group Manager
Nebraska Public Power District
Post Office Box 499
Columbus, Nebraska 68602-0499

Dear Mr. Horn:

SUBJECT: COOPER NUCLEAR STATION - ALTERNATE ROD INSERTION SYSTEM OPERATING
LICENSE NO. DPR-46 (TAC NO. 75093)

Your letter dated September 19, 1989, describes the acceptance testing of the installed Alternate Rod Insertion (ARI) system and the failure to satisfy the control rod insertion time criteria approved in the Safety Evaluation (SE) associated with the Cooper Nuclear Station response to the ATWS Rule (10 CFR 50.62). The SE stated that all control rods should begin insertion within 15 seconds of ARI initiation and reach the full-in position within 25 seconds. These criteria were justified by a generic General Electric (GE) analysis and deemed adequate to preclude filling of the Scram Discharge Volume (SDV) prior to the full insertion of the control rods. In addition, the ARI seal-in feature was required to last 30-35 seconds to ensure completion of the protective action. The acceptance testing measured an actual maximum full-in insertion time of 29.2 seconds after the ARI initiation.

According to your letter and your September 25, 1989, response to Inspection Report 50-298/89-28, a plant specific SDV fill time evaluation was performed for the Cooper Nuclear Station. The plant specific evaluation determined that the allowable time for full rod insertion could be increased to 34.5 seconds. The associated time requirement for all rods to begin movement could likewise be increased to 29.5 seconds. All rods were stated to have satisfied these revised criteria. The GE generic analysis determined that full-in insertion times of approximately 60 seconds would adequately prevent exceeding suppression pool temperature limits. Based upon these evaluations, your letter proposed to revise the allowable insertion times to the plant specific values and increase the associated ARI seal-in feature to 35-40 seconds.

9102210233 910214
PDR ADOCK 05000298
P PDR

200140

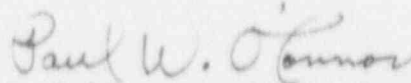
QF01
1/0

Mr. Guy R. Horn

- 2 -

The staff has reviewed the proposed revision to the ARI insertion time requirements and finds the revisions to be acceptable. The proposed change to the seal-in feature to 35-40 seconds to reflect the increased allowable insertion times is also deemed to be acceptable.

Sincerely,



Paul O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects III, IV, and V
Office of Nuclear Reactor Regulation

cc: See next page

Mr. Guy R. Horn
Nuclear Power Group Manager

Cooper Nuclear Station

cc:

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

Cooper Nuclear Station
ATTN: Mr. John M. Meacham
Division Manager of Nuclear Operations
P. O. Box 98
Brownville, Nebraska 68321

Dennis Grams, Director
Nebraska Department of Environmental
Control
P. O. Box 98922
Lincoln, Nebraska 68509-8922

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

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P. O. Box 218
Brownville, Nebraska 68321

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

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

Mr. Guy R. Horn

- 2 -

February 14, 1991

The staff has reviewed the proposed revision to the ARI insertion time requirements and finds the revisions to be acceptable. The proposed change to the seal-in feature to 35-40 seconds to reflect the increased allowable insertion times is also deemed to be acceptable.

Sincerely,

Paul W O'Connor

Paul O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects III, IV, and V
Office of Nuclear Reactor Regulation

cc: See next page

DISTRIBUTION

Docket File
NRC & Local PDR
PD4-1 Reading
B. Boger (MS13E4)
M. Virgilio (MS13E4)
T. Gwynn
P. Noonan
P. O'Connor
B. Reckley
OGC (MS15B18)
E. Jordan (MNBB3701)
J. Mauch (MS8H3)
ACRS (10) (MSP-315)
PD4-1 Plant File
P. Harrell, Region IV

OFC	: PD4-1/LA	: PD4-1/PE	: PD4-1/PM	: SLCB	: PD4-1/D
NAME	: PNoonan	: BReckley	: PO'Connor:lh	: JMauch	: TGwynn
DATE	: 2/8/91	: 2/11/91	: 2/11/91	: 2/13/91	: 2/14/91

OFFICIAL RECORD COPY Document Name: COOPER LTR/75093

COOPER LTR/75093
February 14, 1991

DISTR/BUTION

~~Docket File~~

NRC & Local PDR

PD4-1 Reading

B. Boger (MS13E4)

M. Virgilio (MS13E4)

T. Gwynn

P. Noonan

P. O'Connor

B. Reckley

OGC (MS15B18)

E. Jordan (MNBB3701)

J. Mauch (MS8H3)

ACRS (10) (MSP-315)

PD4-1 Plant File

P. Harrell, Region IV