

August 8, 1988

Docket No. 50-298

Mr. George A. Trevors, Division  
Manager - Nuclear Support  
Nuclear Power Group  
Nebraska Public Power District  
Post Office Box 499  
Columbus, Nebraska 68601

Dear Mr. Trevors:

SUBJECT: COOPER NUCLEAR STATION - AMENDMENT NO. 125 TO FACILITY  
OPERATING LICENSE NO. DPR-46 (TAC NO. 68647)

The Commission has issued the enclosed Amendment No. 125 to Facility Operating License No. DPR-46 for the Cooper Nuclear Station. The amendment consist of changes to the Technical Specifications in response to your application dated July 5, 1988.

The amendment changes the Technical Specifications to delete the requirement to partially stroke the Main Steamline Isolation Valves (MSIVs) weekly.

A copy of our related Safety Evaluation is enclosed. Notice of Issuance will be included in the Commission's next Bi-weekly Federal Register notice.

Sincerely,

/s/

William O. Long, Project Manager  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 125 to License No. DPR-46
2. Safety Evaluation

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DOCUMENT NAME: COOPER AMEND NUMBER 64

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PNoonan	WLong:sr
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*SRLB N/A*  
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*8/8/88*  
*07/1/88*

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*JCalvo for JC*  
*08/8/88*

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/s/

William O. Long, Project Manager  
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PD4/LA *PH*  
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~~SRLB N/A~~  
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*EAS*  
9/18  
MEB *EG*  
TMarsh  
for 07/24/88

*JM*  
OGC-Rockville  
8/8/88  
07/1/88

PD4/D *Pwoe*  
JCalvo for *JC*  
08/8/88



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

August 8, 1988

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Sincerely,

A handwritten signature in cursive script that reads "William O. Long".

William O. Long, Project Manager  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

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License No. DPR-46
2. Safety Evaluation

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See next page

Mr. George A. Trevors  
Nebraska Public Power District

Cooper Nuclear Station

cc:

Mr. G. D. Watson, General Counsel  
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P. O. Box 499  
Columbus, Nebraska 68601

Cooper Nuclear Station  
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Lincoln, Nebraska 68509-8922

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Nemaha County Courthouse  
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Auburn, Nebraska 68305

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
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Brownville, Nebraska 68321

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
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Arlington, Texas 76011

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Division of Radiological Health  
Department of Health  
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P. O. Box 95007  
Lincoln, Nebraska 68509-5007



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

NEBRASKA PUBLIC POWER DISTRICT

DOCKET NO. 50-298

COOPER NUCLEAR STATION

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 125  
License No. DPR-46

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Nebraska Public Power District (the licensee) dated July 5, 1988, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. DPR-46 is hereby amended to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 125, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Paul W O'Connor*

for Jose A. Calvo, Director  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: August 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 125

FACILITY OPERATING LICENSE NO. DPR-46

DOCKET NO. 50-298

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised area is indicated by a marginal line.

Page

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## 3.7.D (cont'd.)

2. In the event any isolation valve specified in Table 3.7.1 becomes inoperable, reactor power operation may continue provided at least one valve in each line having an inoperable valve shall be in the mode corresponding to the isolated condition.
3. If Specification 3.7.D.1 and 3.7.D.2 cannot be met, an orderly shutdown shall be initiated and the reactor shall be in the Cold Shutdown condition within 24 hours.

## 4.7.D (cont'd.)

- b. At least once per quarter:
    - (1) All normally open power operated isolation valves (except for the main steam line power-operated isolation valves) shall be fully closed and reopened.
    - (2) With the reactor power less than 75%, trip main steam isolation valves individually and verify closure time.
  - c. At least once per operating cycle the operability of the reactor coolant system instrument line flow check valves shall be verified.
2. Whenever an isolation valve listed in Table 3.7.1 is inoperable, the position of at least one other valve in each line having an inoperable valve shall be recorded daily.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 125 TO FACILITY OPERATING LICENSE NO. DPR-46

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

DOCKET NO. 50-298

1.0 INTRODUCTION

By letter dated July 5, 1988 (Change No. 64) the Nebraska Public Power District (the licensee) requested an amendment to Facility Operating License No. DPR-46 for the Cooper Nuclear Station. The proposed amendment would change the Technical Specifications to delete a requirement that Main Steamline Isolation Valves (MSIVs) be partially stroked weekly.

2.0 DISCUSSION

Cooper Nuclear Station (CNS) Technical Specification 4.7.D.1.c requires that each MSIV be partially stroked closed and reopened at least once per week during power operation. The licensee recently attempted to conduct this surveillance and was not able to complete the test on one of the inside-containment MSIVs. The inability to complete the test was attributed a failure of the solenoid-operated test valve which bleeds nitrogen from the MSIV power cylinder through a restricting orifice (see enclosed Figure). The test valve is installed solely for the purpose of enabling the MSIV to be slowly, partially-stroked open for the weekly surveillance. The test solenoid valve is normally closed and is not required to actuate in order for the associated MSIV to perform its required safety function which is to close within 3-5 seconds upon a Group I isolation signal.

Upon identifying that the MSIV could not be partially-stroked, the licensee performed the full stroke/rapid closure test required quarterly by Technical Specification 4.7.D.1.b.(2). The full-stroke test requires that reactor power be reduced. Because the test solenoid valve is inaccessible for repair during power operation, the licensee is continuing to perform the full stroke test on a weekly basis pending the relief of this amendment. The staff acknowledges that the failure to satisfactorily complete the partial-stroke test is not indicative of MSIV inoperability if the full-stroke test can be successfully accomplished.

The ASME Code Section XI requirements for valve stroke-testing is that valves, such as MSIVs, be full-stroked quarterly. If the full-stroke test cannot be accomplished quarterly during power operation, quarterly partial-stroke testing during power operation and full-stroke testing at cold shutdowns is required.

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Since the proposed technical specification is consistent with existing testing requirements as reflected in the ASME Code Section XI, the licensee's proposed amendment deleting the weekly MSIV partial-stroke test is acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

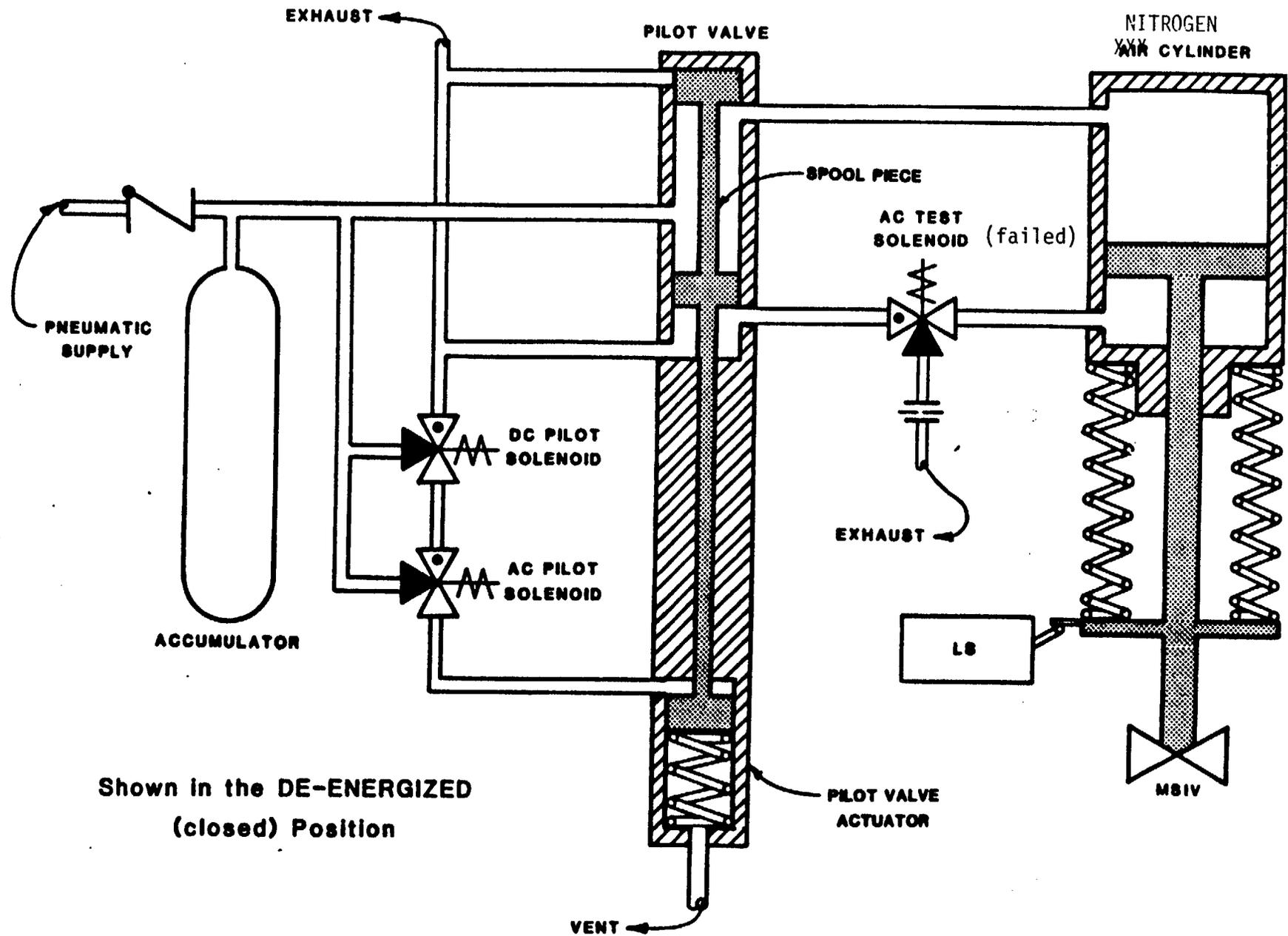
The amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposures. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Section 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 4.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: August 8, 1988

Principal Contributor: W. Long



MSIV PNEUMATIC CONTROL UNIT

FIGURE