

February 3, 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

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Dear Mr. Horn:

SUBJECT: COOPER NUCLEAR STATION - SERVICE WATER SYSTEM TECHNICAL SPECIFICATION; BASES CHANGE (TAC NO. 77022)

The Commission has incorporated the revision of the Service Water System Technical Specification Bases provided by your submittal of May 3, 1990 into the Cooper Nuclear Station Technical Specifications (TS). The revision reflects a design change implemented in accordance with 10 CFR 50.59 which modified the isolation logic for valves MOV-117 and MOV-37 in order to address concerns identified during an NRC Safety System Functional Inspection (SSFI).

The NRC staff has reviewed the changes to the facility and concur that the bases to TS 3.12.C should be changed to agree with the modified isolation logic. The revisions to the Bases of TS 3.12.C are acceptable to the staff.

Sincerely,

ORIGINAL SIGNED BY:

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

Enclosure:  
Revision to Technical Specification  
Bases Page 215e

cc w/enclosure:  
See next page

OFC	: PD4-1/LA	: PD4-1/PE	: PD4-1/PM	: PD4-1/(A)D	:	:
NAME	: PNoonan	: WReckley	: PO'Connor	: TGwynn	:	:
DATE	: 2/1/91	: 2/1/91	: 2/01/91	: 2/3/91	:	:

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*Handwritten signature/initials*



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

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SPECIFICATION; BASES CHANGE (TAC NO. 77022)

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Sincerely,

A handwritten signature in cursive script that reads "Paul W O'Connor".

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

Enclosure:  
Revision to Technical Specification  
Bases Page 215e

cc w/enclosure:  
See next page

Mr. Guy R. Horn  
Nuclear Power Group Manager

Cooper Nuclear Station

cc:

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DOCKET NO. 50-298

Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by a revision date and contains a vertical line indicating the area of change.

REMOVE PAGE

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### 3.12 BASES (cont'd)

heat exchanger. Valves are included in the common discharge header to permit the Seismic Class I service water system to be operated as two independent loops. The heat exchangers are valved such that they can be individually backwashed without interrupting system operation.

During normal operation two or three pumps will be required. Three pumps are used for a normal shutdown.

The loss of all a-c power will trip all operating service water pumps. The automatic emergency diesel generator start system and emergency equipment starting sequence will then start one selected service water pump in 30-40 seconds. The resulting drop in service water header pressure will initiate isolation of the turbine building header, and split the Service Water loops, guaranteeing supply to the reactor building, the control room basement, and the diesel generators from the one service water pump.

Due to the redundancy of pumps and the requirement of only one to meet the accident requirements, the 30 day repair time is justified.

#### D. Battery Room Ventilation

The temperature rise and hydrogen buildup in the battery rooms without adequate ventilation is such that continuous safe operation of equipment in these rooms cannot be assured.

### 4.12 BASES

#### A. Main Control Room Ventilation System

Pressure drop across the combined HEPA filters and charcoal adsorbers of less than 6 inches of water at the system design flow rate will indicate that the filters and adsorbers are not clogged by excessive amounts of foreign matter. Pressure drop should be determined at least once per operating cycle to show system performance capability.

Tests of the charcoal adsorbers with halogenated hydrocarbon refrigerant should be performed in accordance with ANSI N510-1980.

The frequency of tests and sample analysis are necessary to show that the HEPA filters and charcoal adsorbers can perform as evaluated. The test canisters that are installed with the adsorber trays should be used for the charcoal adsorber efficiency test. Each sample should be at least two inches in diameter and a length equal to the thickness of the bed. If test results are unacceptable, all adsorbent in the system shall be replaced with an adsorbent qualified according to Table 1 of Regulatory Guide 1.52. The replacement tray for the adsorber tray removed for the test should meet the same adsorbent quality. Tests of the HEPA filters with DOP aerosol shall be performed in accordance to ANSI N510-1980. Any HEPA filters found defective shall be replaced with filters qualified pursuant to Regulatory Position C.3.d of Regulatory Guide 1.52.

Operation of the system for 10 hours every month will demonstrate operability of the filters and adsorber system and remove excessive moisture built up on the adsorber.