

May 1, 1989

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: 10 CFR 50.44, ACTIVE COMBUSTIBLE GAS CONTROL SYSTEM - COOPER  
NUCLEAR STATION (TAC NO. 55322)

The staff has determined that information previously supplied by you in submittals or at meetings is not adequate to resolve the outstanding issue of containment air dilution related to combustible gas control (10 CFR 50.44) at Cooper Nuclear Station. I have directed my staff to give this issue high priority so that we may reach resolution as soon as possible. In order to accomplish a speedy resolution, I am requesting that we arrange a meeting, at your earliest convenience, to review the current status of combustible gas control at Cooper. A proposed agenda for this meeting is enclosed. It is our intention to resolve this issue and to issue a safety evaluation accepting the Cooper design or planned modifications, or to issue an order requiring compliance with 10 CFR 50.44. It should be noted that the other affected licensees with BWR Mark I containments are also being requested to meet with the NRC.

The project manager and staff from the Plant Systems Branch, will contact you by telephone to make final arrangements for the meeting and to discuss the proposed agenda. If you have any questions regarding this matter, please feel free to contact the project manager, Paul O'Connor, at (301) 492-3026.

Sincerely,

*151*  
Gary M. Holahan, Acting Director  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
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PD4 Plant File

Local FDR  
L. Rubenstein  
P. O'Connor  
B. Grimes

DOCUMENT NAME: COOPER LTR TAC 55322

\*See previous concurrences:

PD4/LA*	PD4/PM* <i>Paul</i>	PD4/D*	ADR4*	DRSP/(A)D
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Gary M. Holahan".

Gary M. Holahan, Acting Director  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

Mr. George A. Trevors  
Nebraska Public Power District

Cooper Nuclear Station

cc:

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

Cooper Nuclear Station  
ATTN: Mr. Guy R. Horn, 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 Borchart, Director  
Division of Radiological Health  
Department of Health  
301 Centennial Mall, South  
P. O. Box 95007  
Lincoln, Nebraska 68509-5007

MEETING AGENDA  
FOR  
DISCUSSION OF PLANT SPECIFIC DESIGN OF  
ACTIVE COMBUSTIBLE GAS CONTROL SYSTEM

I. INTRODUCTION BY NRC STAFF

II. MEETING OBJECTIVE

To provide sufficient design details of the Nitrogen Injection Capability for each plant to determine if the provisions are adequate to meet the intent of 10 CFR 50.44

III. AIR-CAD SYSTEM

NRC staff will provide the basis for concluding that the system should not be used for combustible gas control.

- . Represents an air source per GL 84-09 guidance
- . Potential misuse of system
- . Impact of deinerting on course of the accident

IV. LICENSING BASIS AND BWR EPG'S

Reconcile any conflicts between original licensing basis and Rev. 4 to the BWR EPG's.

- . When will CAD be used (under what system conditions)
- . Is the EOP consistent with FSAR assumptions

V. PLANT SPECIFIC DESCRIPTION OF INERTING SYSTEM

The objective is to identify all essential components, design conditions, instrumentation, and power supply for the normal inerting system to determine under what post LOCA conditions the system could be expected to function as a combustible gas control system.

A. System/component description

All components required to operate under post LOCA conditions should be described.

- . Design specification (i.e. seismic, redundancy, quality group, etc) for a parameter where the component has not been designed for, such as seismic, but is expected to survive, provide the basis
- . Location

- . Design pressure and temperature
    - Maximum containment conditions for component operability should also be noted
  - . Design flow rate as a function of containment pressure
- B. System Instrumentation
- Instrumentation necessary to operate the system post LOCA should be identified.
- . Identify each sensor, number and location
  - . Location of instrument readout
    - If outside control room, determine accessibility post LOCA
  - . System use of sensor output
    - What is sensor used for (automatic valve operation? or not) if operator information only, indicate what type of action is anticipated (flow change, system shutoff, etc)
- C. Operational requirements post LOCA
- Identify those actions that will be required to initiate system operation and those necessary for monitoring operation. For each action, identify whether it is from the control room or at a remote site.
- . Instrumentation needed for startup
  - . Instrumentation needed for operation
  - . Power supply (off site and diesel?)
- D. Nitrogen capacity (onsite and time to get added supply)
- E. Identification of deviations from GDC 41,42, and 43
- F. Modifications to eliminate deviations from (E)
- G. Operational, maintenance, and surveillance history objective is to obtain some basis for determining system availability