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June 6, 1979

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Zion Station Units 1 and 2  
Status of Fire Protection Modifications  
NRC Docket Nos. 50-295 and 50-304

Reference (a): April 13, 1979 letter from A. Schwencer  
to Cordell Reed

Dear Mr. Denton:

Per Reference (a), Commonwealth Edison Company was requested to provide a status report on the completion of all unfinished modifications which the NRC Staff required to improve the level of fire protection at Zion Station. Attachment 1 to this letter provides the completion date status of the unfinished modifications listed in Table 3.1 of Reference (a). As Attachment 1 indicates, on June 1, 1979 all but three modifications (3.1.3 Gas Suppression Systems, 3.1.14 Fire Doors, and 3.1.18 Reactor Coolant Pump) have been completed. Also note that two items (3.1.16 Ventilation Ducts and 3.1.19 Combustible Storage Areas) originally scheduled for completion by August 1, 1979 were completed by June 1, 1979. The current status of the three unfinished modifications is contained in Attachment 2.

Please address any additional questions that you might have to this office.

One (1) signed original and thirty-nine (39) copies of this letter are provided for your use.

Very truly yours,

*C. Reed*

Cordell Reed  
Assistant Vice-President

attachments

2350 011

7906120240

ATTACHMENT 1LIST OF UNFINISHED FIRE PROTECTION MODIFICATIONS

<u>Modification</u>	<u>Description</u>	<u>Required Completion Date Per Reference (a)</u>	<u>Status</u>
3.1.2	Fire Detection Systems	June 1, 1979	Completed on April 18, 1979
3.1.3	Gas Suppression Systems	August 1, 1979	In Progress
3.1.4	Water Suppression Systems	June 1, 1979	Completed on June 1, 1979
3.1.6	Interior Hose Stations	June 1, 1979	Completed on May 14, 1979
3.1.13	Fire Dampers	May 1, 1979	Completed on April 27, 1979
3.1.14	Fire Doors	August 1, 1979	In Progress
3.1.16	Ventilation Ducts	August 1, 1979	Completed on April 27, 1979
3.1.18	Reactor Coolant Pump	Prior to Unit 1 Cycle 5	In Progress
3.1.19	Combustible Storage Areas	August 1, 1979	Completed on May 29, 1979

2350 012

ATTACHMENT 2

STATUS OF UNFINISHED FIRE PROTECTION MODIFICATIONS  
FOR  
ZION STATION UNITS 1 AND 2  
AS OF  
JUNE 1, 1979

2350 013

Gas Suppression Systems

An automatic Halon suppression system backed up by a manually actuated CO<sub>2</sub> system will be provided to protect the following areas:

- (1) Inner and outer cable spreading areas (5.2).
- (2) Containment penetration cable vaults (5.3).

Status on 6/1/79: Unit 1: 95% complete mechanically  
60% complete electrically  
Unit 2: 85% complete mechanically  
60% complete electrically

Projected completion date: 8/1/79, predicated on  
satisfactory completion of  
testing.

Cables routed through the stairwell adjacent to the cable spreading area will be enclosed in a fire barrier and protected by an automatic gas suppression system (5.2).

NOTE: The design was changed to delete the automatic gas suppression system and add two fire doors to gain access to the cables for maintenance and application of manual fire fighting agent. A fire hose station is located 5 feet from the two fire doors.

Status on 6/1/79: Fire wall is complete. Awaiting delivery of the fire doors.

Projected completion date: 8/1/79. Predicated on door delivery date of 7/2/79.

2350 014



An automatic gas suppression system will be installed to protect the diesel-driven containment spray pumps. A curb will be provided to limit the spread of an oil spill fire in this area (5.13).

Status on 6/1/79: The curb installation is complete.  
Mechanical system 95% complete  
Electrical system 90% complete  
Projected completion date: 8/1/79, predicated on  
satisfactory completion of  
testing.

Automatic fire suppression systems will be installed in the areas of the remote shutdown panels, auxiliary feed pumps, and component cooling water pumps (5.12, 5.13).

NOTE: The remote shutdown panel suppression system has been deleted based on fire protection vendor recommendations. SNED is working on alternate protection by covering the pans and building a fire stop in the pan. The other areas will have a local application CO<sub>2</sub> system.

Status on 6/1/79: Mechanical system 95% complete  
Electrical system 75% complete  
Projected completion date: 8/1/79, predicated on  
satisfactory completion of testing.

2350 015

3.1.14 Fire Doors

The doors to the battery rooms will be replaced with 1 1/2 hour fire rated doors (5.4).

Status on 6/1/79: Awaiting doors. Estimated delivery date 7/2/79.

Projected completion date: 8/1/79, predicated on door delivery date of 7/2/79.

The door to the fifth battery room will be replaced with a three-hour fire rated door (5.5).

Status on 6/1/79: Awaiting doors. Estimated delivery date 7/2/79.

Projected completion date: 8/1/79, predicated on door delivery date of 7/2/79.

A three-hour fire rated door will be provided to isolate the combustible storage area at elevation 506 feet (5.13).

Status on 6/1/79: Installation of the large roll up fire door has been completed. The personnel doors have not been received. Estimated delivery date 7/2/79.

Projected completion date: 8/1/79, predicated on door delivery date of 7/2/79.

2350 016

The door to the reciprocating charging pump room will be replaced with a fire rated door and a curb will be provided at the doorway (5.12).

Status on 6/1/79: Curb is complete, awaiting doors.  
Estimated delivery date 7/2/79.

Projected completion date: 8/1/79, predicated on door delivery date of 7/2/79.

The door to the containment spray pump room will be replaced with a three-hour fire rated door (5.13).

Status on 6/1/79: Oil spill curb is complete.  
Awaiting doors, estimated delivery date 7/2/79.

Projected completion date: 8/1/79, predicated on door delivery date of 7/2/79.

2350 017

3.1.18 Reactor Coolant Pump

An oil collection system will be provided to limit the effects of a fire involving the reactor coolant pump lube oil systems (5.15).

Status on 6/1/79: Unit 2 complete, 3 of 4 pumps on  
Unit 1 complete, 0% drain piping  
on Unit 1.

Projected completion date: All pumps and piping complete  
prior to Unit 1 Cycle 5 startup.

2350 018