



Commonwealth Edison

One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

December 16, 1985

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

Subject: Zion Nuclear Power Station Units 1 and 2
Fire Protection
NRC Docket Nos. 50-295 and 50-304

References (a): August 31, 1984 letter from R. N. Cascarano
to H. R. Denton.

(b): July 9, 1985 letter from P. C. LeBlond to
H. R. Denton.

Dear Mr. Denton:

Reference (a) submitted for your review a modification implementation schedule of the work necessary to achieve compliance with 10 CFR 50, Appendix R. Reference (b) provided an updated schedule along with the status of the various modifications in July of 1985. This letter provides an additional updated schedule (attached) which reflects both the considerable work that has been completed and the rescheduling of four items.

In general, the modification work has been proceeding very well as evidenced by the large number of completed items on the attached schedule. However, there are four items whose completion dates have been altered. These are discussed individually below.

ITEM 9 (Provide a scheme to provide feed to the sample panel)

This modification to Unit 2 has been deferred to a May 1, 1986 completion date due to a lack of manpower in specific work groups. The available manpower has been concentrating their efforts on prioritized fire protection modifications. Since other Appendix R safe shutdown functions have been deemed to be more important than sampling, this work has been delayed by approximately four months.

ITEM 11 a, b, c (Independent power feed for instrumentation)

The work required for the outside-containment portion of this modification has been deferred to a June 1, 1986 completion date for Unit 2. All inside-containment work is on schedule and will be completed by the end of the current refueling outage. This delay was required due to the failure of the Mineral Insulated cable to meet the necessary performance standards during the design fire condition. The cable test failure has prompted a redesign of the instrumentation cable routing.

8512260069 851216
PDR ADOCK 05000295
F PDR

December 16, 1985

The new cable routing design required a containment walkdown that could not be performed during power operations. Even though this walkdown was expedited at the beginning of the current refueling outage, the issuance of construction drawings and the start of actual cable rerouting was delayed approximately ten weeks. Thus, the current emphasis is to complete the work inside of the containment during this refueling outage. This will allow the remainder of the work to be performed during power operations.

ITEM 14 - #1 (Procurement and installation of fire dampers)

The work is currently expected to be completed by March 15, 1986. The dampers required to complete the work are expected to be delivered by January, 1986. Upon their receipt, this equipment will be installed as expeditiously as possible.

ITEM 23 (Add emergency lights)

This work will be completed by May 15, 1986. The modification is taking longer than anticipated as the extent and complexity of the conduit installation are greater than originally estimated.

If any questions arise concerning this matter, please direct them to this office.

Very truly yours,

Peter LeBlond

P. C. LeBlond
Nuclear Licensing Administrator

lm

Attachment

cc: NRC Resident Inspector - Zion
J. Norris - NRR

1000K

FIRE PROTECTION MODIFICATIONS SCHEDULE

Page 1 of 4

	<u>Unit 1</u> <u>Installation</u>	<u>Unit 2</u> <u>Installation</u>	<u>Remarks</u>
1. Providing means of venting instrument air from PORV-RC455 and PCV-RC456 (i.e. de-energize associated solenoid operated valve)-Add isolation switches in inner cable spread room, reroute DC control cables in conduit	Complete	1985 Outage On schedule	
2. Providing means of venting instrument air from letdown and excess letdown valves (i.e., de-energize associated solenoid operated valve). -Add isolation switch in inner cable spreading rooms	Complete	1985 Outage On schedule	
3. Installing a 3-way valve to facilitate bleeding of instrument air from FCV-MS57.	Complete	Complete	
4. Install chains for handwheel and declutch lever for valves MOV-MS0005, MOV-MS0011 and MOV-RH8701.		Ladders installed	Ladders were installed as an alternative. (see Ref. (b))
5. Work associated with mounting steam generator pressure indicator PI-MS514 outside valve house.	Complete	Complete	
6. Work associated with mounting handloader for atmospheric dump valve MOV-MS0017 (SG A) outside valve house. Includes permanent mount for air bottle.	1986 Outage	Complete	
7. Work associated with the reactor coolant pump oil collection system - Seismic review of ring header - Drain to cavity flood sump - Cavity flood sump modifications	Complete	1985 Outage On schedule	
8. Installation of residual heat removal temperature and flow indicator and local M/A stations	1986 Outage	1985 Outage On schedule	
9. Work associated with boron sampling - Modify AOV air lines to facilitate opening "A" loop sample - Provide sample Valve and Cont. Iso. Valves with portable air bottle - Provide scheme to provide feed to the sample panel	1986 Outage	1985 Outage On schedule May 1, 1986	

FIRE PROTECTION MODIFICATIONS SCHEDULE

Page 2 of 4

	<u>Unit 1 Installation</u>	<u>Unit 2 Installation</u>	<u>Remarks</u>
10. Work associated with rerouting Diesel Gen. fuel oil transfer pumps feed	Complete	1985 Outage On schedule	
11. Independent power feed for instrumentation			
a) Addition of new power supplies			
- RC Loop Pressure (403)	1986	June 1, 1986	Work inside of containment for Items 11a, b, and c is on schedule (1985 outage). The remain- ing work outside of containment will be completed by June 1, 1986.
- PZR Level (459)	Outage		
- SG Level (501)			
b) Work associated with routing new MI cable			
- RC Loop Pressure (403)	1986	June 1, 1986	
- PZR Level (459)	Outage		
- SG Level (501)			
- T hot leg			
- T cold leg			
c) Addition of Isolation Switches			
- RC Loop Pressure (403)	1986	June 1, 1986	
- PZR Level (459)	Outage		
- SG Level (501)			
d) Work associated with installing isolators			
- SC Pressure	Complete	1985	
- Aux. FW Flow		Outage	
- SG Levels		On schedule	
e) Work associated with installation of isolation panels	Complete	1985 Outage On schedule	
12. Work associated with rerouting AFW Pump "C" Feed	Complete	Complete	
- Fire Wrap @ 579'-0"	Complete	Complete	
13. Isolation Switches for diesel generator output breakers	1986 Outage	1985 Outage On schedule	

FIRE PROTECTION MODIFICATIONS SCHEDULE

Page 3 of 4

	<u>Unit 1 Installation</u>	<u>Unit 2 Installation</u>	<u>Remarks</u>
14. Procurement and Installation of 1) Fire Dampers for: a) Battery Rooms b) Charging Pump Cubicles 2) Fire Doors	1986 Outage Complete	March 15, 1986 Complete	Fire dampers to be delivered in January, 1986
15. Procurement and Installation of New Smoke or Heat Detectors - Aux. Building	Complete	Complete	
16. Extending Metal Sheathing around one side of AFW 2C motor	N/A	Complete	
17. Work associated with Terminating Centrifugal charging power cable 1A and providing 1 hour fire wrap on conduit on 579'-0" elev.	Complete	N/A	
18. Work associated with adding bypass around closing side solenoid on main steam isolation valve.	Complete	Complete	
19. Installing fire stops in cable pan trays for component cooling water pumps.		Complete	
20. Separating Units fire detection system on the component cooling water pumps		Complete	
21. Provide Diesel Generator Local Control Capability.	1986 Outage	1985 Outage On schedule	
22. Fire Proofing Structural Steel in ESF switchgear rooms (ceiling beams only)	1986 Outage	1985 Outage	
23. Add/Re-Aim Emergency Lights		May 15, 1986	
24. Communication Mods		Complete	
25. Reroute feeds to ESF MCC's	Complete	Complete	

FIRE PROTECTION MODIFICATIONS SCHEDULE

Page 4 of 4

	<u>Unit 1</u> <u>Installation</u>	<u>Unit 2</u> <u>Installation</u>	<u>Remarks</u>
26. Cables requiring termination			
42285) DC Feeds to Bus 149	Complete	N/A	
42286) DC Feeds to Bus 149			
42287) DC Feeds to 1B Diesel Generator	Complete	N/A	
42286) DC Feeds to 1B Diesel Generator			
42278) Feed to battery charger 112	Complete	N/A	
32285) DC Feed to BW 249	N/A	Complete	
32286) DC Feed to BW 249			

1000K