



**Commonwealth Edison**

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March 12, 1982

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



Subject: Byron Station Units 1 and 2  
Resolution of SER Open Items  
NRC Docket Nos. 50-454 and 50-455

Reference (a): February 12, 1982, letter from  
B. J. Youngblood to L. DelGeorge.

Dear Mr. Denton:

This is to provide the schedule requested in reference (a) for Commonwealth Edison's responses to open and confirmatory items identified in the Byron Safety Evaluation Report.

Attachment A to this letter contains the requested schedule. For a few items, the NRC is responsible for the next action. Please let us know your schedule for those items at the earliest opportunity.

Please address questions or comments regarding this matter to this office.

Very truly yours,

T. R. Tramm  
Nuclear Licensing Administrator

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ATTACHMENT A

Schedule for Actions on Byron SER  
Outstanding Items and Confirmatory Issues

<u>Outstanding Item</u>	<u>Next Action</u>	<u>Date</u>
1. Pipeline Support	Respond to 6 new questions.	4/23/82
2. Turbine Missiles Evaluation	a) Provide revised analysis. b) Describe analytical methods in meeting with NRC.	8/18/82 ASAP
3. High & Moderate Energy Pipe Break Analysis	Provide report of analysis.	5/05/82
4. Pump and Valve Operability	NRC audit at Byron.	6/82
5. Baseplate Flexibility	NRC to review 1/04/80 report.	---
6. Seismic and Dynamic Qualification of Equipment	NRC audit at Byron.	6/82
7. Environmental Qualification of Electrical Equipment	NRC audit at Byron.	6/82
8. Improved Thermal Design Procedures	Provide plant-specific information.	4/05/82
9. Inadequate Core Cooling Instrumentation	Provide detailed information.	4/12/82
10. Steam Generator Flow-Induced Vibrations	Provide plan to address problem.	3/17/82

<u>Outstanding Item</u>	<u>Next Action</u>	<u>Date</u>
11. Vessel Forces and Moments	Provide data for comparison with confirmatory analysis.	4/15/82
12. Equipment and Floor Drainage	Provide report of analysis.	3/24/82
13. Fire Protection		
a) RCP Oil Collection	Provide basis for deleting drip pans.	3/31/82
b) Sprinklers in Cable Spreading Room	Provide basis for deleting sprinklers.	3/31/82
c) Safe Shutdown	Provide revised report.	6/15/82
d) Alternate Shutdown	Provide revised report.	6/15/82
e) Emergency Communications	Provide location of radio repeaters.	3/17/82
f) Hydrogen Piping	Provide details of protection against fire from hydrogen line break in Auxiliary Building.	3/24/82
14. Residual Moisture in Diesel Air Start Piping	Provide results of moisture content calculations.	3/17/82
15. Volume Reduction System	Provide information requested in 29 FSAR questions.	3/17/82
16. Emergency Plans and Facilities		
	a) Provide letters of agreement with appropriate state and local authorities.	6/82
	b) Revise GSEP to specify the responsibilities of the Station Director which may not be delegated.	6/82
	c) Revise GSEP to include a description of the shift augmentation system and capability.	6/82

<u>Outstanding Item</u>	<u>Next Action</u>	<u>Date</u>
16. Emergency Plans and Facilities (Cont'd)	d) Revise GSEP Annex to include Emergency Action Levels.	6/82
	e) Revise GSEP to include FSAR- analyzed accidents as initi- ating conditions.	6/82
	f) Provide a copy of the public information brochure.	8/82
	g) Completion of NRC review of facilities (TSC, EOF, & OSC).	---
	h) Revise GSEP annex to include nonradiological process and hydrological monitors.	6/82
	i) Complete full-scale exercise.	10/82
	j) Revise GSEP to Annex to provide periodic testing of communications with Wisconsin and NRC.	6/82
17. Control Room Human Factors Review	a) Provide assessment of items not available for HFEB review.	10/01/82
	b) Provide response to HFEB audit findings.	10/01/82

<u>Confirmatory Issue</u>	<u>Next Action</u>	<u>Date</u>
1. Verification of River Screenhouse Seismic Response	NRC review of FSAR question 241.4.	---
2. Category I Manhole Tornado Protection	Provide information on design revisions.	3/17/82
3. Analysis of Tangential Shear on Containment	Closed.	---
4. Piping Vibration Test Program	Provide summary of test results.	12/82
5. Snubber Inspection and Testing Program	Provide details of preservice inspection and testing program for snubbers.	3/19/82
6. Seismic Reassessment of Components and Supports	Completion of NRC audit at S&L.	3/08/82
7. Basis for Steam Generator Tube Plugging	Provide updated Reg. Guide 1.121 position.	1/84
8. Pump and Valve Inservice Testing	Provide detailed test program.	8/01/82
9. Loose Parts Monitoring System	Provide final design report per Section C.4 of R.G. 1.133.	5/01/82
10. Code Cases for Control Valves	Provide information on quality of control valves.	3/17/82
11. Fracture Toughness Data for Byron 2	Provide Byron 2 vessel data.	3/24/82
12. Steam Generator Tube Surveillance	Delineate extent and frequency of periodic inspections.	4/05/82

	<u>Confirmatory Issue</u>	<u>Next Action</u>	<u>Date</u>
13.	Boration to Cold Shutdown	a) Provide analysis to demonstrate adequacy of boric acid injection.  b) Provide analysis confirming ability to depressurize without rupturing PRT rupture disk or demonstrate that PROV's will function in the environment expected.	4/15/82  4/15/82
14.	Cooldown Rate with RHR	Provide analysis to show that cooldown rate is slow enough to preclude voiding in RCS.	4/15/82
15.	RCS Vent Procedures	NRC review of Owners Group guidelines.	---
16.	Charging Pump Dead-heading	Provide description of changes to prevent deadheading.	4/07/82
17.	Containment Differential Pressure Analysis	Provide analysis to demonstrate structural integrity with 3.47 psig external loading.	3/17/82
18.	Containment Sump Instrumentation	Provide description of postaccident monitoring instrumentation.	7/01/82
19.	Minimum Containment Pressure Analysis	Provide revised minimum pressure analysis.	4/19/82
20.	Containment Leak Testing	Provide information on systems to be vented and drained in Type A leak test.	5/82
21.	Confirmatory Test for Sump Design	Conduct test.	10/82
22.	Upper Head Temperature Verification	Provide basis for upper head temperature prediction.	3/24/82

<u>Confirmatory Issue</u>	<u>Next Action</u>	<u>Date</u>
23. I.E. Bulletin 80-06	Conduct tests to verify that valves will not change position solely because of reset of actuation signal.	10/82
24. P-4 Interlock	Provide details of design changes to facilitate testing.	4/1/82
25. Remote Shutdown Capability	Conduct test above 10% power.	6/83
26. Steam Generator Pressure Control	Provide details of design changes to valve operators.	4/05/82
27. Switchover from Injection to Recirculation	Provide details of design changes to reset circuit.	4/05/82
28. a) II.K.3.1	NRC review of Owners Group evaluation of auto-closure of PORV block valves.	---
b) III.D.1.1	Provide description of system leak monitoring and initial results.	12/02/82
c) II.K.2.17	NRC review of Owners Group guidelines for procedures to deal with voiding in RCS.	---
29. Viewing Installation and Arrangement of Electrical Equipment	NRC site visit.	7/82
30. Independence of Redundant Electrical Safety Equipment	NRC site visit.	7/82
31. Electrical Distribution System Voltages	Provide documentation of final voltage levels.	12/82



	<u>Confirmatory Issue</u>	<u>Next Action</u>	<u>Date</u>
32.	Combined Health Physics and Chemistry Organization	Provide evaluation of alternate organization structures.	4/15/82
33.	Revision to Physical Security Plan	Provide revised plan.	4/15/82
34.	RCP Rotor Seizure and Shaft Break	Provide assessment of transient.	4/05/82
35.	Anticipated Transients Without Scram	NRC review of Owner's Group guidelines.	---
36.	Compliance with NRC Regulations	Provide report of compliance evaluation.	4/05/82

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