



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
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August 2, 1982

PRINCIPAL STAFF			
✓ DIR	WJS	E&IS	
D/D		PAO	
A/D		SLO	
DR&PI			
DE&II			
✓ P508		File	WJS

Mr. James G. Keppler, Regional Administrator
Directorate of Inspection and
Enforcement - Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

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Subject: Quad Cities Station Units 1 and 2
Transmittal of August, 1982 Exercise
Objectives, Scope and Scenario
Descriptions
NRC Docket Nos. 50-254/265

Reference (a): J. G. Keppler letter to Cordell
Reed dated January 12, 1982.

Dear Mr. Keppler:

Enclosed in response to your Reference (a) request are the Exercise Objectives, Scope of Participation, and Scenario Outline for the August, 1982 exercise. Preliminary copies of these documents were provided to Mr. M. Phillip of your office at the July 13, 1982, planning meeting. The Scenario Outline has undergone minor revisions since the meeting.

Please address any questions you may have concerning this matter to this office.

Very truly yours,

Thomas J. Rausch

Thomas J. Rausch
Nuclear Licensing Administrator

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Attachments

cc: Region III Inspector - Quad Cities
Brian Grimes
Dir., Div. of Emer. Preparedness
Office of I&E
Washington, D.C. 20555

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OBJECTIVES

PRIMARY OBJECTIVE:

Demonstrate the capability to implement the Commonwealth Edison Generating Stations Emergency Plan in cooperation with the Illinois Plan for Radiological Accidents and the Iowa Emergency Plan to protect the public in the event of major accident at the Quad Cities Station.

SUPPORTING OBJECTIVE:

1. Demonstrate the capability to classify accident conditions and make timely reports in accordance with the GSEP.
2. Demonstrate the capability to activate the TSC with directors and appropriate staff in accordance with procedures.
3. Demonstrate the capability to activate the EOF with directors and appropriate staff in accordance with procedures modified to accommodate control and time compression.
4. Demonstrate the capability to conduct in-plant radiation protection activities and collect and simulate analysis of air and liquid samples.
5. Demonstrate the capability of environmental field teams to conduct initial activation of the EOF, conduct field radiation surveys and collect air, liquid, vegetation and soil samples as needed.
6. Demonstrate the capability to calculate off-site dose projections in coordination with governmental agencies.
7. Demonstrate the capability to provide accurate, timely information to the news media in cooperation with governmental agencies.
8. Demonstrate the capability to effectively communicate reports, information and assessments of the situation among all participating principal command and control centers.
9. Demonstrate the capability to process information and take appropriate action in accordance with plans and procedures.
10. Demonstrate the capability to contact organizations that would normally assist in the given emergency situation, but are not fully participating in this exercise.

SCOPE OF PARTICIPATION

Commonwealth Edison will participate in the Quad Cities exercise by activating the on-site emergency response organization and the near-site EOF as appropriate, subject to limitations that may become necessary to provide for safe efficient operation of the Quad Cities and other CECO. nuclear generating stations.

Activation of the TSC and other on-site participants will be conducted on a real time basis during day time hours. The shift on duty will receive the initial scenario information and respond accordingly.

The Nuclear Duty Person and the balance of the Recovery Group will be prepositioned close to the Quad Cities Station to permit use of Recovery Group personnel from distant locations.

The Corporate Command Center will not be activated.

Commonwealth Edison will demonstrate the capability to make contact with contractors whose assistance would be required by the simulated accident situation, but will not actually incur the expense of using contractor services to simulate emergency response except as prearranged specifically for the exercise.

Commonwealth Edison will arrange to provide actual transportation and communications support in accordance with existing agreements to the extent specifically prearranged for the exercise. Commonwealth Edison will provide unforeseen actual assistance only to the extent the resources are available and do not hinder normal operation of the company.

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July 27, 1982

SCENARIO OUTLINEQUAD CITIES STATION, AUGUST, 1982

PHASE	MSG NO.	TIME ISSUED	TYPE MESSAGE	ISSUED TO	OUTLINE OF CONTENTS
Initial Situation (0800-0830)	1	0800	Control	All	- Ground Rules (pre-published)
	2	0815	Control	C.R.	- Normal Operating Information
Site Emergency (0830-1100)	3	0830	Control	C.R.	- Reactor Trouble: 6×10^2 R/hr in Primary Containment. EALs for Site Emergency. $> 4 \times 10^2$ R/hr in Primary Containment. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	C.I.	(0830-1100)	C.I.		- Various Control Information for Site Emergency Phase.
	4	0845	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	5	0900	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	6	0915	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	3A	0915	Contingency	C.R., TSC EOF	- Contingency Message. Declaration of Site Emergency. (NARS Form provided)
	7	0930	Control	Recovery Manager	- Recovery Group arrives at EOF.
	8	0930	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	9	0945	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	10	1000	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$
	11	1015	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^\circ\text{C}/100\text{m}$

SCENARIO OUTLINE

QUAD CITIES STATION, AUGUST, 1982

PHASE	MSG NO.	TIME ISSUED	TYPE MESSAGE	ISSUED TO	OUTLINE OF CONTENTS
Site Emergency (0830-1100) (Continued...)	12	1030	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	13	1045	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
General Emergency (1100-1200)	14	1100	Control	C.R.	- Reactor Status. High Rad Level in Containment 6.5×10^4 R/Hr. EALs for General Emergency $\geq 2 \times 10^3$ R/Hr., in Primary Containment. - Sheltering Recommendation (2-5 Miles) - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	C.I.	1100-1200	C.I.		- Various Control Information for General Emergency Phase
	15	1115	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	16	1130	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	14A	1145	Contingency	C.R., TSC EOF	- Contingency Message. Declaration of General Emergency (NARS Form provided). EOF - Action.
	14B	1145	Contingency	TSC, EOF	- Contingency Message. Results of Containment Air and Reactor Coolant Samples. No release of Iodine.
General Emergency (Imminent Release)	17	1200	Control	C.R.	- High Rad Level in Containment 6.5×10^4 R/hr High Drywell Pressure Imminent Release. Evacuation recommendation. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	C.I.	(1200-1330)	C.I.		- Various Control Information for General Emergency - Imminent Release Phase.
	18	1215	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	19	1230	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$

SCENARIO OUTLINE

QUAD CITIES STATION, AUGUST, 1982

PHASE	MSG NO.	TIME ISSUED	TYPE MESSAGE	ISSUED TO	OUTLINE OF CONTENTS
General Emergency (Imminent Release) (Continued...)	17A	1230	Contingency	C.R., TSC EOF	- Contingency Message. Declaration of Imminent Release. (NARS Form provided) EOF - Action
	20	1245	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = -1C^{\circ}/100m$
	17B	1300	Contingency	TSC, EOF	- Contingency Message; Results of Containment Air and Reactor Coolant Samples. No release of Iodine
	21	1300	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = -1C^{\circ}/100m$
	22	1315	Control	C.R.	- Erratic Flow in SBGTS noted.
General Emergency (Release) (1330-1430)	23	1330	Control	C.R.	- Final Barrier (Valve) in SBGTS fails. - Chimney Monitors Off - Scale, pegged high. - Same Evacuation Recommendation.
	C.I.	(1330-1430)	C.I.		- Various Control Information for General Emergency - Release Phase.
	24	1330	Control	Maintenance Team	- High Rad Levels in Area of SBGTS vent line.
	25	1345	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = -1C^{\circ}/100m$
	23A	1400	Contingency	C.R., TSC EOF	- Contingency Message. Release has begun through SBGTS, (NARS form provided) EOF - Action
Recovery Phase (1430-1630)	26	1400	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $\Delta T = -1C^{\circ}/100m$
	27	1415	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 10 mph --- $T = -1C^{\circ}/100m$
	28	1430	Control	C.R.	- Reactor Status, SBGTS vent readings Normal Range. - Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 20 mph --- $\Delta T = -1C^{\circ}/100m$
	29	1430	Control	Maintenance Team	- Repairs completed.

SCENARIO OUTLINE

QUAD CITIES STATION, AUGUST, 1982

PHASE	MSG NO.	TIME ISSUED	TYPE MESSAGE	ISSUED TO	OUTLINE OF CONTENTS
Recovery Phase (1430-1630) (Continued...)	C.I.	(1430-1600)	C.I.		- Various Control Information for Recovery Phase.
	30	1445	Control	C.R.	- Reactor Status. - Metro Data: ---Wind Direction: from East (90°) ---Wind Speed: 20 mph --- $\Delta T = 1^{\circ}\text{C}/100\text{m}$
	28A	1500	Contingency	C.R.,TSC BOF	- Release has stopped. Increase in Wind Speed. - Wind Direction: From East @ 20 mph
	31	1500	Control	C.R.	- Reactor in Cold Shutdown Status.
	32	1515	Control	All	- Time has Elapsed.
	33	1530	Control	All	- Reactor in Cold Shutdown. - 250 R/hr in Drywell.
	34	1545	Control	C.R.	- Reactor in Cold Shutdown Status.
	33A	1600	Contingency	C.R.,TSC BOF	- Contingency Message. Down-Grade to Alert (NARS Form provided) BOF-Action
	36	As Directed By the State Exercise Directors and the CECO. Chief Controller	Control	All	- Terminate Exercise. - Conduct Critiques.