

LIC-95-0153
U.S. Nuclear Regulatory Commission

ENCLOSURE

**Fort Calhoun Station
1995 Emergency Preparedness Exercise**

SCOPE and OBJECTIVES

Note: Page numbers included with this enclosure (1-20) correspond to the 1995 Exercise Scenario Manual and are not reflective of specific page numbers to this individual transmittal.

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CONDUCT of EXERCISE

SCOPE and PARTICIPANTS

The scope of the exercise and a listing of participants is provided under this heading. The list of participants is further broken down to utility, state/local facilities and service agencies, and includes addresses for each.

CONDUCT of EXERCISE

SCOPE and PARTICIPANTS (continued)

SCOPE

As an assurance that the health and safety of the general public is protected in the event of an accident at the Fort Calhoun Station (FCS), the Omaha Public Power District (OPPD) conducts an annual emergency preparedness exercise. Exercises simulate accident conditions and radiological hazards that require major portions of utility, state and local emergency response plans and procedures to be implemented on a routine basis. Emergency responses are evaluated by all participants, the Nuclear Regulatory Commission, and, in some situations, the Federal Emergency Management Agency. Exercise accident sequences and the severity and characteristics of radiological hazards are held in confidence prior to conducting the exercise.

The exercise scenario is sufficient to require complete activation of all OPPD emergency response facilities, state and county emergency operations centers for accident mitigation. The accident scenario will require evaluation and decision making on protective actions for the general public surrounding FCS.

Evaluations of the emergency response to situations presented by the exercise scenario help provide an assessment of the adequacy of utility radiological emergency response plans and procedures. In addition, conduct of the exercise is valuable in determining whether adequate resources, including trained personnel assigned emergency response responsibilities, are available to protect the health and safety of the general public in the event of an emergency at FCS.

CONDUCT of EXERCISE

SCOPE and PARTICIPANTS (continued)

PARTICIPANTS

The following summary indicates which emergency response facilities will participate (fully, partially or not at all) in the 1995 Fort Calhoun Station Emergency Preparedness Exercise:

Omaha Public Power District

Control Room (CR) Simulator - Fort Calhoun Station

Technical Support Center (TSC) - Fort Calhoun Station

Operations Support Center (OSC) - Fort Calhoun Station

Emergency Operations Facility (EOF) - North Omaha Station, 24th & Craig Ave., Omaha, NE

Media Release Center (MRC) - Energy Plaza, 444 South 16 Street Mall, Omaha NE

State of Nebraska

State Emergency Operation Center - State Civil Defense Facility, 1300 Military Road, Lincoln, NE

Washington County Emergency Operations Center - Basement of Law Enforcement Bldg., 1535 Colfax St., Blair, NE.

State of Iowa

State Emergency Operations Center - Starc Armory, 1600 NE 78th Ave., Johnston, Iowa

Harrison County Emergency Operations Center - County Sheriff's, 105 S. First Ave., Logan, IA.

Pottawattamie County Emergency Operations Center - County Sheriff's, Pottawattamie County Courthouse, 227 S. 6th. St., Council Bluffs, IA

CONDUCT of EXERCISE

SCOPE and PARTICIPANTS (continued)

OFFSITE OBJECTIVES

The States of Iowa and Nebraska have submitted offsite objectives and extent of play memorandums to FEMA for the November 14 ,1995 Fort Calhoun Station annual exercise.

The States of Iowa and Nebraska have submitted medical drill objectives and extent of play memorandums to FEMA for the August 29 and 30 annual medical drills for Fort Calhoun Station.

CONDUCT of EXERCISE

OBJECTIVES

Exercise objectives are provided under this heading. Objectives provide a basis for scenario development and a means to evaluate responses by the emergency response organization.

The Omaha Public Power District radiological emergency preparedness exercise objectives for the Fort Calhoun Station are based on Nuclear Regulatory Commission (NRC) requirements provided in 10CFR50.47, "Emergency Plans," and 10CFR50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities." Additional guidance provided in NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," was utilized in developing the objectives.

Objectives have been cross-referenced to:

1. NUREG-0654/FEMA-REP-1 Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" as based on NRC requirements provided in 10 CFR 50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities."
2. Major OPPD-FCS Procedure(s) used in demonstrating the objective. Other procedures may be applicable but will generally be referenced by, or branched from, the major procedure.

CONDUCT of EXERCISE

OBJECTIVES (continued)

Accident Assessment and Classification

1. Demonstrate the ability to assess plant conditions using onsite monitoring systems (i.e. geophysical phenomena monitors, radiological monitors, process monitors, and fire detection system) and classify the event per EPIP-OSC-1.

NUREG-0654: D.1, D.2, H.5, I.1, I.2,
Major Procedure: EPIP-OSC-1

2. Demonstrate the ability to monitor, assess, project and report offsite consequences of a radiological emergency.

NUREG-0654: I.1, I.2, H.6
Major Procedure: EPIP-OSC-2, EPIP-EOF-6

3. Demonstrate the ability to implement protective actions for onsite individuals including plant evacuation of non-essential personnel and initial and continuous accountability of emergency workers remaining in the protected area.

NUREG-0654: J.1
Major Procedure: EPIP-OSC-2, EPIP-RR-22

4. Demonstrate the ability to plan recovery actions upon termination of the emergency response phase.

NUREG-0654: M.1
Major Procedure: EPIP-EOF-19

Notification, Mobilization and Communication

5. Demonstrate the ability to alert, notify, and mobilize (staff augmentation) OPPD emergency response personnel, contractor personnel, and private organizations.

NUREG-0654: E.1, E.2, B.7, B.8
Major Procedure: EPIP-OSC-2, EPIP-OSC-15

CONDUCT of EXERCISE

OBJECTIVES (continued)

Notification, Mobilization and Communication (continued)

6. Demonstrate the ability to notify and alert Federal, State and Local officials of an emergency classification and provide updates.

NUREG-0654: E.1, E.3, E.4, B.9
Major Procedure: EPIP-OSC-2, EPIP-OSC-15

7. Demonstrate the ability to communicate with Federal, State and County agencies.

NUREG-0654: A.1.e, N.2.a
Major Procedure: EPIP-OSC-2, EPIP-OSC-15

8. Demonstrate the adequacy of OPPD emergency response staffing and the ability to schedule multiple shifts.

NUREG-0654: B.5-7,
Major Procedure: EPIP-RR-17A, EPIP-RR-29

9. Demonstrate that adequate provisions exist for prompt communications between principal response organizations and facilities.

NUREG-0654: F.1, F.2
Major Procedure: EPIP-OSC-2, EPIP-OSC-15

Emergency Response

10. Demonstrate the adequacy of site and protected area access control and security.

NUREG-0654: O.4
Major Procedure: EPIP-OSC-2, EPIP-RR-17

11. Demonstrate the ability of OPPD to coordinate resources with Federal, State, and County officials and agencies.

NUREG-0654: C.1-4
Major Procedure: EPIP-OSC-2

CONDUCT of EXERCISE

OBJECTIVES (continued)

Emergency Response (Continued)

12. Demonstrate the ability of the Control Room Coordinator, Site Director and Emergency Director to assume Command and Control responsibility.

NUREG-0654: B.3
Major Procedure: EPIP-OSC-2

Radiological and Control

13. Demonstrate the ability to recommend offsite protective actions to State and Local authorities.

NUREG-0654: J.7
Major Procedure: EPIP-EOF-7

14. Demonstrate the ability to monitor, control, and keep records of emergency worker's radiation exposure.

NUREG-0654: K.2
Major Procedure: EPIP-EOF-11

15. Demonstrate the ability to provide onsite contamination control measures including access control; eating, drinking and smoking; personnel and equipment/area decontamination; use of Potassium Iodide; and habitability checks.

NUREG-0654: K.5, K.6
Major Procedure: EPIP-EOF-10, EPIP-EOF-11, EPIP-EOF-21

16. Demonstrate the ability to analyze and respond to simulated airborne and/or liquid samples and direct radiation measurements in the environment.

NUREG-0654: N.2.e(1)
Major Procedure: EPIP-EOF-11, EPIP-EOF-3

CONDUCT of EXERCISE

OBJECTIVES (continued)

Radiological and Control (Continued)

17. Demonstrate the ability to analyze inplant liquid samples with elevated radiation levels using the Post Accident Sampling System (PASS).

NUREG-0654: N.2.e(2)
Major Procedure: CH-SMP-PA-0001, 0002

18. Demonstrate the ability to authorize emergency worker exposure extensions (exceeding PAGs).

NUREG-0654: K.1, K.2
Major Procedure: EPIP-EOF-11

Control Room

19. Demonstrate the ability of the Control Room staff to interpret control instrumentation, recognize abnormal events and implement appropriate strategies.

NUREG-0654: I.1, I.2
Major Procedure : AOPs, EOPs

20. Demonstrate the ability of the Control Room Shift Supervisor to exercise his authority and responsibility to initiate emergency actions, including providing protective actions to offsite authorities.

NUREG-0654: B.1, B.2
Major Procedure : EPIP-OSC-2

21. Demonstrate the ability of the Shift Supervisor/Control Room Coordinator to manage and control emergency actions.

NUREG-0654: B.1, B.2
Major Procedure : EPIP-OSC-2

CONDUCT of EXERCISE

OBJECTIVES (continued)

Control Room (Continued)

22. Demonstrate the ability of the Shift Supervisor or Control Room Coordinator to correctly classify an emergency event.

NUREG-0654: D.1, D.2
Major Procedure : EPIP-OSC-1

23. Demonstrate the ability of the Control Room staff to notify onsite personnel of emergency conditions, notify offsite agencies, and maintain communication links with the TSC, OSC, EOF and the NRC if requested.

NUREG-0654: E.1, E.2, E.3, J.1
Major Procedure : EPIP-OSC-2

24. Demonstrate the ability of the Control Room staff to recommend offsite protective actions to the states and implement onsite protective actions.

NUREG-0654: E.3, J.7
Major Procedure : EPIP-OSC-2, EPIP-EOF-7

25. Demonstrate the ability of the Control Room staff to rapidly perform dose assessments if a release is in progress or anticipated (This function may be assumed by the TSC or EOF).

NUREG-0654: I.8
Major Procedure : EPIP-EOF-6

Technical Support Center (TSC)

26. Demonstrate the ability of the Emergency Response Organization to meet the goal of activating the Technical Support Center within one hour following the declaration of an Alert (or higher) classification.

NUREG-0654: B.6, B.7, H.4
Major Procedure: EPIP-TSC-1

CONDUCT of EXERCISE

OBJECTIVES (continued)

Technical Support Center (TSC) (Continued)

27. Demonstrate the adequacy of the TSC facility (including space, comfort, communications, etc).
- NUREG-0654: H.1, F.1
Major Procedure: EPIP-TSC-1
28. Demonstrate the ability of the TSC Director to manage and control technical support activities in the TSC.
- NUREG-0654: B.7, H.1
Major Procedure : EPIP-TSC-1, EPIP-RR-11
29. Demonstrate the ability of the TSC to provide adequate and accurate accident assessment and classification support.
- NUREG-0654: H.1, I.1, I.2,
Major Procedure : EPIP-OSC-1
30. Demonstrate the ability of the TSC during releases (if the TSC is responsible for the dose assessment function) to perform dose assessment functions.
- NUREG-0654: I.1-10
Major Procedure : EPIP-EOF-6
31. Demonstrate the ability of the TSC to dispatch and coordinate field teams for offsite monitoring (if this function is in the TSC).
- NUREG-0654: I.7-10
Major Procedure : EPIP-EOF-3, EPIP-RR-72
32. Demonstrate the ability of the TSC and the Site Director to correctly classify events and recommend protective actions to offsite officials (when the Site Director is responsible for this function).
- NUREG-0654: I.1, J.7
Major Procedure : EPIP-OSC-1, EPIP-EOF-7

CONDUCT of EXERCISE

OBJECTIVES (continued)

Technical Support Center (TSC) (Continued)

33. Demonstrate the ability of the TSC and the Site Director to communicate with the Control Room, OSC and the EOF, keep onsite personnel informed of plant status, and make initial and follow-up notification to Federal, State, and local officials (when this function is in the TSC).

NUREG-0654: E.1-3, J.1
Major Procedure : EPIP-OSC-2

34. Demonstrate the ability of the TSC to ensure that onsite protective actions are implemented.

NUREG-0654: J.7
Major Procedure : EPIP-EOF-7

35. Demonstrate the ability of the TSC to assist and support the Control Room.

NUREG-0654: B.6, B.7, H.1
Major Procedure : EPIP-TSC-1, EPIP-RR-11

36. Demonstrate the ability of the TSC to evaluate Post-Accident Sampling results, predict core uncover times, and perform core damage assessments.

NUREG-0654: I.1, I.2
Major Procedure : EPIP-TSC-1, EPIP-TSC-8

Operations Support Center (OSC)

37. Demonstrate the ability of the Operations Support Center (OSC) to activate within one hour of the declaration of an Alert (or higher) emergency classification.

NUREG-0654: B.5, B.7
Major Procedure : EPIP-OSC-21

CONDUCT of EXERCISE

OBJECTIVES (continued)

Operations Support Center (OSC) (Continued)

38. Demonstrate the adequacy of the OSC facility (including space, comfort, communications, etc).

NUREG-0654: H.1
Major Procedure: EPIP-OSC-21

39. Demonstrate the ability of the OSC Director to manage and control the activities in the OSC.

NUREG-0654: B.6
Major Procedure : EPIP-RR-21

40. Demonstrate the ability of the OSC to provide radiological, maintenance, and damage control support to the Control Room.

NUREG-0654: B.5, B.6, B.7
Major Procedure : EPIP-OSC-21, EPIP-RR-21, EPIP-OSC-9

Media Release Center (MRC)

41. Demonstrate the ability to activate the Media Release Center, interface with the news media, and coordinate rumor control.

NUREG-0654: G.3, G.4
Major Procedure: Crisis Communication Plan

42. Demonstrate the adequacy of the MRC facility (including space, comfort, communications, etc).

NUREG-0654: G.3, G.4
Major Procedure: Crisis Communication Plan

CONDUCT of EXERCISE

OBJECTIVES (continued)

Emergency Operation Facility (EOF)

43. Demonstrate the ability of the Emergency Operations Facility (EOF) to activate within the District's goal of one hour of the declaration of a Site Area Emergency or General Emergency.

NUREG-0654: H.2, B.3-7
Major Procedure : EPIP-EOF-1

44. Demonstrate the adequacy of the EOF facility (including space, comfort, communications, etc).

NUREG-0654: H.1, F.1
Major Procedure: EPIP-EOF-1

45. Demonstrate the adequacy of EOF access control and security.

NUREG-0654: O.4
Major Procedure: EPIP-RR-29

46. Demonstrate the ability of the Emergency Director to manage and control the activities in the EOF.

NUREG-0654: B.6
Major Procedure : EPIP-OSC-2

47. Demonstrate the ability of the EOF and the Emergency Director to correctly classify events and recommend protective actions to offsite officials (when the Emergency Director is responsible for this function).

NUREG-0654: D.1, D.2, J.7
Major Procedure : EPIP-OSC-1, EPIP-OSC-2, EPIP-EOF-7

48. Demonstrate the ability of the EOF to perform dose assessment and coordinate field team activities.

NUREG-0654: I.2-10
Major Procedure : EPIP-EOF-6, EPIP-EOF-3, EPIP-RR-72

CONDUCT of EXERCISE

OBJECTIVES (continued)

Emergency Operation Facility (EOF) (Continued)

49. Demonstrate the ability of the Emergency Director and the EOF to recommend offsite protective actions to the States.
- NUREG-0654: J.7
Major Procedure : EPIP-EOF-7
50. Demonstrate the ability of the EOF to make onsite and offsite notifications.
- NUREG-0654: E.1, E.2, E.3, J.1
Major Procedure : EPIP-OSC-2
51. Demonstrate the ability of the EOF to interact with corporate and offsite officials.
- NUREG-0654: B.6
Major Procedure : EPIP-EOF-1, EPIP-OSC-2
52. Demonstrate the ability of OPPD to coordinate emergency activities with the State of Iowa within the plume exposure pathway.
- NUREG-0654: C.1, C.2
Major Procedure : EPIP-EOF-1, EPIP-OSC-2
53. Demonstrate the ability of OPPD to coordinate emergency activities with the State of Nebraska within the plume exposure pathway.
- NUREG-0654: C.1
Major Procedure : EPIP-EOF-1, EPIP-OSC-2

CONDUCT of EXERCISE

OBJECTIVES (continued)

Scenario and Evaluation

54. Demonstrate the ability of the Licensee to develop and conduct an exercise that tests a major portion of the basic elements in the licensee, state and local emergency plans.

NUREG-0654: N.1
Major Procedure: EPT-20

55. Demonstrate the ability to conduct a post-exercise critique to identify areas requiring additional improvement.

NUREG-0654: N.4,5
Major Procedure: EPT-20

CONDUCT of EXERCISE

OBJECTIVES (continued)

ELEMENTS NOT TO BE DEMONSTRATED IN 1995

- Source term determination - alternate (unmonitored release)
- Activation of OPPD-NPPD assistance
- Off-hours exercise initiation
- Unannounced exercise initiation
- Full participation by state within ingestion pathway-Iowa
- Full participation by state within ingestion pathway-Nebraska
- Alternate severe weather scenario (unless actual severe weather exists, i.e., thunderstorms)
- Contaminated/injured personnel response¹
- Fire fighting response, both onsite and offsite assistance
- Calculations involving total population exposures

¹ Onsite and Offsite contaminated/injured personnel response will be conducted separate from the Exercise scenario in accordance with prior agreements between OPPD, medical response agencies, the University of Nebraska Medical Center Radiation Health Center, and FEMA.