

LIC-97-0024
Enclosure

Scope and Objectives for
Fort Calhoun Station 1997 Emergency Preparedness Exercise

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CONDUCT of EXERCISE
SCOPE and PARTICIPANTS

The scope of the exercise and a listing of key 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 will be protected in the event of an accident at the Fort Calhoun Station (FCS), the Omaha Public Power District (OPPD) conducts a routine 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. Emergency responses are evaluated for adequacy by all participants, the Nuclear Regulatory Commission (NRC), and the Federal Emergency Management Agency (FEMA). Exercise accident sequences, timelines 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 and state/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 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 evaluate situations and take actions to protect the health and safety of the general public in the event of an emergency at FCS.

Omaha Public Power District is committed to providing realistic training drills and exercises for both company and offsite personnel. Drill and exercise scenarios will be produced from "logical" sequences of events that represent a potential emergency at the Fort Calhoun Station. In some cases, time constraints force a reduction in timelines to ensure that appropriate objectives are accomplished within the scope of the scheduled drill/exercise, however, OPPD will not include any activities or parameters that are above and beyond the design capability of the Fort Calhoun Station. All drill and exercise scenarios will be based on existing plant probabilistic risk assessment studies and design basis accidents to preclude "negative training" of participants and "negative opinion" of our nuclear power plant operations by the general public.

CONDUCT of EXERCISE
SCOPE and PARTICIPANTS (continued)

SCOPE (continued)

The 1997 exercise will be conducted in three distinct phases over a two day period:

The first phase will consist of the "routine" plume exposure pathway exercise which will include a simulated radiological release to the environment that will require protective actions to be taken for the general public surrounding and/or downwind of the facility. This phase of the exercise will be conducted on the first day and terminate following demonstration of all "plume phase" objectives. All designated OPPD, state and local personnel will participate in this phase of the exercise.

The second phase will begin in the morning of the second day with a short time jump (approximately 18-48 hours after the initial emergency classification). This phase will allow state and local participants to determine which, if any, offsite protective actions can be relaxed with associated adjustments in evacuation area control. This phase will terminate following demonstration of all applicable Relocation, Re-Entry and Return objectives as determined by the FEMA evaluation team leader. Only specific state and local participants will be involved in this phase of the exercise. OPPD will provide coordination players to assist in discussion and decision making at the EOF.

The third phase will begin following a short break after completion of the second phase. The third phase will begin with another time jump (approximately 5-8 days after the initial emergency classification). This phase will allow state and local participants to demonstrate objectives associated with ingestion pathway decision making and protective action implementation. Only specific state and local participants will be involved in this phase of the exercise. OPPD will provide coordination players to assist in discussion and decision making at the EOF.

All of the specific exercise objectives for various offsite agencies have been agreed upon between the offsite agencies and FEMA and documented in FEMA "Extent of Play Memorandums", therefore, they are not reproduced in this transmittal.

CONDUCT of EXERCISE
SCOPE and PARTICIPANTS (continued)

PARTICIPANTS

The following listing indicates which primary (command and control / decision making locations) emergency response facilities will participate in the 1997 Fort Calhoun Station Emergency Preparedness Exercise:

OMAHA PUBLIC POWER DISTRICT (OPPD)

Control Room (CR) Simulator

Fort Calhoun Station, Highway 75, Four Miles North of Fort Calhoun, NE

Technical Support Center (TSC)

Fort Calhoun Station, Highway 75, Four Miles North of Fort Calhoun, NE

Operations Support Center (OSC)

Fort Calhoun Station, Highway 75, Four Miles North of Fort Calhoun, NE

Emergency Operations Facility (EOF)

North Omaha Station, 7475 J.J. Pershing Drive, Omaha, NE

Media Release Center (MRC)

Energy Plaza, 444 South 16 Street Mall, Omaha NE

STATE OF NEBRASKA

State Emergency Operation Center

Nebraska Emergency Management Agency, 1300 Military Road, Lincoln, NE

Washington County Emergency Operations Center

Basement of Law Enforcement Building, 1535 Colfax Street, Blair, NE.

STATE OF IOWA

State Emergency Operations Center

Starc Armory, 1600 NE 78th Avenue, Johnston, Iowa

Harrison County Emergency Operations Center

County Sheriff's Offices, 105 S. First Ave., Logan, IA.

Pottawattamie County Emergency Operations Center

County Sheriff's Offices, Pottawattamie County Courthouse, 227 S. 6th Street,
Council Bluffs, IA

CONDUCT of EXERCISE
OBJECTIVES

Exercise objectives are provided under this scenario section heading. Objectives provide a basis for scenario development and a means to evaluate responses by the Emergency Response Organization (ERO).

The Omaha Public Power District radiological emergency preparedness exercise objectives for the Fort Calhoun Station are based on United States Nuclear Regulatory Commission (NRC) requirements provided in 10 CFR 50.47, "Emergency Plans," and 10 CFR 50, 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 also utilized in developing objectives.

Each objective has been cross-referenced to:

- a) 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."
- b) Major Fort Calhoun Station procedure(s) used in demonstrating the objective. Other procedures may be applicable but will generally be referenced by, or branched from, the major referenced procedure(s).

CONDUCT of EXERCISE
OBJECTIVES (continued)

Notification, Mobilization and Communication

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

NUREG-0654: B.7, B.8, E.1, E.2, F.1.e
Major Procedure(s): EPIP-OSC-2, EPIP-OSC-15, EPIP-RR-29

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

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

3. Demonstrate the ability to communicate with State, Local and Federal agencies.

NUREG-0654: F.1.a, F.1.b, F.1.c, F.1.d, F.1.f
Major Procedure(s): EPIP-OSC-2, EPIP-OSC-15, Standing Order R-11

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

NUREG-0654: A.1.e, B.5, B.6, B.7
Major Procedure(s): EPIP-RR-17A, EPIP-RR-29, EPIP-TSC-1,
EPIP-OSC-21, EPIP-EOF-1

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

NUREG-0654: F.1.a, F.1.f
Major Procedure(s): EPIP-OSC-2, EPIP-OSC-15, Standing Order R-11

6. Demonstrate the ability of OPPD to coordinate emergency resources with State, Local and Federal officials and agencies.

NUREG-0654: C.1, C.2, C.3, C.4
Major Procedure(s): EPIP-OSC-2

CONDUCT of EXERCISE
OBJECTIVES (continued)

Site Protective Actions

7. 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, J.5
Major Procedure(s): EPIP-OSC-2, EPIP-RR-22, SECOP-28

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

NUREG-0654: J.5
Major Procedure(s): EPIP-OSC-2, EPIP-RR-17, SECOP-28

Radiological Control

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

NUREG-0654: I.1, I.2, I.3, I.4, I.6, I.7, I.8, I.9, I.10, H.6
Major Procedure(s): EPIP-OSC-1, EPIP-OSC-2, EPIP-EOF-3,
EPIP-EOF-6

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

NUREG-0654: J.7
Major Procedure(s): EPIP-EOF-6, EPIP-EOF-7

11. Demonstrate the ability to monitor, control, and keep records of OPPD emergency worker radiation exposure.

NUREG-0654: K.2, K.3
Major Procedure(s): EPIP-EOF-11

CONDUCT of EXERCISE
OBJECTIVES (continued)

Radiological Control (Continued)

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

NUREG-0654: K.5, K.6, K.7
Major Procedure(s): EPIP-EOF-10, EPIP-EOF-11, EPIP-EOF-21

13. 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(s): EPIP-EOF-3, EPIP-EOF-11, EPT-12, EPT-14

14. Demonstrate the ability to analyze inplant liquid samples with elevated radiation levels using the Post Accident Sampling System (PASS) in the "Normal Mode" (this demonstration will be scheduled separately from the actual exercise due to time constraints). During the exercise demonstration, PASS operations will be simulated in the "Accident Mode." PASS system data will be issued early to allow core damage assessment activities during the exercise.

NUREG-0654: N.2.e(2)
Major Procedure(s): CH-SMP-PA-0001, CH-SMP-PA-0002, EPT-13

15. Demonstrate the ability to authorize emergency worker exposure extensions (due to exceeding plant administrative limits and/or PAG's).

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

Control Room (CR) Simulator

16. 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(s): AOP's, EOP's

CONDUCT of EXERCISE
OBJECTIVES (continued)

Control Room Simulator (Continued)

17. Demonstrate the ability to assess plant conditions using onsite monitoring systems (i.e. geophysical phenomena monitors, radiological monitors, process monitors, plant parameters, equipment status, fire detection system, etc.) and classify events per approved procedures.

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

18. Demonstrate the ability of the Control Room staff to rapidly perform dose assessments if a release is in progress or anticipated (this function will eventually be assumed by the EOF).

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

19. Demonstrate the ability of the Command and Control Position(s) to exercise their authority and responsibility to initiate emergency actions, including providing protective action recommendations to offsite authorities.

NUREG-0654: B.1, B.2, B.3, B.4
Major Procedure(s): EPIP-OSC-2, EPIP-EOF-7

20. Demonstrate the ability of the Command and Control Position(s) and staff to notify onsite personnel of emergency conditions, ensure that required, timely offsite notifications are completed, and maintain communication links with the TSC, OSC, EOF and the NRC, as requested.

NUREG-0654: E.1, E.2, E.3, J.1
Major Procedure(s): EPIP-OSC-2, Standing Order R-11

21. Demonstrate the ability of the Command and Control Position(s) to manage and control emergency activities from the Control Room.

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

CONDUCT of EXERCISE
OBJECTIVES (continued)

Control Room Simulator (Continued)

22. Demonstrate the ability of the Command and Control Position(s) to assess and implement onsite protective actions, as required.

NUREG-0654: J.5, J.6
Major Procedure(s): EPIP-OSC-2, EPIP-EOF-7, EPIP-EOF-11

23. Demonstrate the ability of the Shift Supervisor to effectively dispatch and direct in-plant immediate response teams to situations, such as; fire, medical emergencies, and hazardous materials spill, as applicable to scenario events. Specifically, demonstrate proper response to a contaminated and injured individual and perform proper medical evaluations and contamination control.

NUREG-0654: L.2, L.4
Major Procedure(s): EPIP-EOF-11, FCS Safety Manual

Technical Support Center (TSC)

24. Demonstrate the ability of the Emergency Response Organization to meet the goal of activating the Technical Support Center within one hour of the emergency declaration where the decision to mobilize the ERO was made (typically at an Alert (or higher) classification).

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

25. Demonstrate the adequacy of the TSC facility (including space, comfort, communications, etc).

NUREG-0654: F.1, H.1
Major Procedure(s): EPIP-TSC-1

CONDUCT of EXERCISE
OBJECTIVES (continued)

Technical Support Center (Continued)

26. Demonstrate the ability to assess plant conditions using onsite monitoring systems (i.e. radiological monitors, process monitors, plant parameters, equipment status, etc.) and direct communications with the Control Room (simulator) and classify events per approved procedures (if events occur when this Command and Control position is in charge).
- NUREG-0654: D.1, D.2, H.5, I.1, I.2,
Major Procedure(s): EPIP-OSC-1, EPIP-OSC-2, EPIP-EOF-6
27. Demonstrate the ability of the Command and Control Position to exercise his authority and responsibility to initiate emergency actions, including providing protective action recommendations to offsite authorities, as applicable.
- NUREG-0654: B.1, B.2, B.3, B.4
Major Procedure(s): EPIP-OSC-2, EPIP-EOF-7
28. Demonstrate the ability of the Site Director and TSC staff to communicate with the Control Room (simulator), OSC and the EOF; keep onsite personnel informed of plant status, and; make timely initial and follow-up notifications to State, Local and Federal officials (whenever the Site Director is the command and control position).
- NUREG-0654: E.1, E.2, E.3, J.1
Major Procedure(s): EPIP-OSC-2, Standing Order R-11
29. Demonstrate the ability of the Command and Control Position to manage and control emergency activities from the TSC.
- NUREG-0654: B.1, B.2
Major Procedure(s): EPIP-OSC-2
30. Demonstrate the ability of the Command and Control Position to assess and implement onsite protective actions, as required.
- NUREG-0654: J.5, J.6
Major Procedure(s): EPIP-OSC-2, EPIP-EOF-7, EPIP EOF-11

CONDUCT of EXERCISE
OBJECTIVES (continued)

Technical Support Center (Continued)

31. Demonstrate the ability of the TSC staff to assist with release path identification whenever a release is in progress or anticipated.

NUREG-0654: I.8
Major Procedure(s): EPIP-EOF-6, EPIP-RR-22

32. 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(s): EPIP-TSC-1, EPIP-RR-11

33. Demonstrate that the TSC staff is providing "technical support" to the Control Room staff by evaluating plant conditions, conducting predictions and providing engineering evaluations of events.

NUREG-0654: B.6, B.7, H.1
Major Procedure(s): EPIP-TSC-1, EPIP-RR-11, EPIP-RR-13

34. Demonstrate the ability of the TSC staff to provide adequate and accurate accident assessment and classification support to other command and control positions.

NUREG-0654: H.1, I.1, I.2,
Major Procedure(s): EPIP-OSC-1, EPIP-RR-19A

35. Demonstrate the ability of the TSC staff to dispatch field teams for offsite radiological monitoring (this function is coordinated by the EOF).

NUREG-0654: I.7, I.8, I.9, I.10
Major Procedure(s): EPIP-EOF-3, EPIP-RR-72

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

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

CONDUCT of EXERCISE
OBJECTIVES (continued)

Operations Support Center (OSC)

37. Demonstrate the ability of the Emergency Response Organization to meet the goal of activating the Operations Support Center within one hour of the emergency declaration where the decision to mobilize the ERO was made (typically at an Alert (or higher) classification).

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

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

NUREG-0654: H.1, H.9
Major Procedure(s): 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(s): 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(s): EPIP-OSC-9, EPIP-OSC-21, EPIP-RR-21,
EPIP-RR-21A, EPIP-RR-22A, EPIP-RR-87

Emergency Operation Facility (EOF)

41. Demonstrate the ability of the Emergency Response Organization to meet the goal of activating the Emergency Operations Facility within one hour of the emergency declaration where the decision to mobilize the ERO was made (typically at an Alert (or higher) classification).

NUREG-0654: B.6, B.7, H.4
Major Procedure(s): EPIP-EOF-1

CONDUCT of EXERCISE
OBJECTIVES (continued)

Emergency Operation Facility (Continued)

42. Demonstrate the adequacy of the EOF facility (including space, comfort, communications, etc).
- NUREG-0654: F.1, H.2
Major Procedure(s): EPIP-EOF-1
43. Demonstrate the adequacy of EOF access control and security.
- NUREG-0654: H.2
Major Procedure(s): EPIP-RR-29
44. Demonstrate the ability of the Emergency Director to manage and control the activities in the EOF.
- NUREG-0654: B.6
Major Procedure(s): EPIP-OSC-2
45. Demonstrate the ability of the EOF staff 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, H.5, I.1, I.2, J.7
Major Procedure(s): EPIP-OSC-1, EPIP-OSC-2, EPIP-EOF-6,
EPIP-EOF-7
46. Demonstrate the ability of the EOF staff to perform dose assessment and coordinate field team activities.
- NUREG-0654: I.1, I.2, I.3, I.4, I.6, I.7, I.8, I.9, I.10
Major Procedure(s): EPIP-OSC-1, EPIP-OSC-2, EPIP-EOF-6,
EPIP-EOF-3, EPIP-RR-72
47. Demonstrate the ability of the Emergency Director and the EOF staff to recommend offsite protective actions to the States.
- NUREG-0654: J.7
Major Procedure(s): EPIP-EOF-6, EPIP-EOF-7

CONDUCT of EXERCISE
OBJECTIVES (continued)

Emergency Operation Facility (Continued)

48. Demonstrate the ability of the EOF staff to make onsite and offsite notifications.

NUREG-0654: E.1, E.2, E.3, J.1
Major Procedure(s): EPIP-OSC-2, Standing Order R-11

49. Demonstrate the ability of the EOF staff to interact with corporate and offsite officials.

NUREG-0654: B.6
Major Procedure(s): EPIP-EOF-1, EPIP-OSC-2, EPIP-RR-22, EPIP-RR-29

50. Demonstrate the ability of OPPD to support and coordinate emergency activities with the States of Iowa and Nebraska within the plume exposure pathway.

NUREG-0654: C.1, C.2
Major Procedure(s): EPIP-EOF-1, EPIP-OSC-2, EPIP-RR-22

Media Release Center (MRC)

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

NUREG-0654: G.3, G.4
Major Procedure(s): OPPD Crisis Communication Plan

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

NUREG-0654: G.3, G.4
Major Procedure(s): OPPD Crisis Communication Plan

**CONDUCT of EXERCISE
OBJECTIVES (continued)**

Emergency Response Organization Evaluation

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

NUREG-0654: N.1
Major Procedure(s): EPT-20

54. Demonstrate the ability to conduct a post-exercise critique process to identify both strengths and areas for improvement.

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

Ingestion Pathway Exercise

55. Demonstrate the ability to support ingestion pathway exercise objectives for the State of Nebraska.

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

Open Program Weakness Evaluation

56. Demonstrate corrective actions to effectively control the implementation of the exercise scenario, including limiting participant simulation(s).

OPEN NRC WEAKNESS: 285/95015-02
Major Procedure(s): EPT-20

57. Demonstrate corrective actions to ensure that TSC Reactor Engineers are properly trained and demonstrate the capability to perform core uncover predictions (This objective is in conjunction with Objective number 36).

OPEN NRC WEAKNESS: 285/95015-01
Major Procedure(s): EPIP-TSC-8

CONDUCT of EXERCISE
OBJECTIVES (continued)

ELEMENTS NOT TO BE DEMONSTRATED IN 1997

- Source term determination - alternate (unmonitored release)
- Activation of OPPD-NPPD assistance
- Off-hours exercise initiation
- Full participation by state within ingestion pathway - State of Iowa
- Alternate severe weather scenario (unless actual severe weather exists, i.e., thunderstorms, etc.)
- Calculations involving total OPPD worker exposures

CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS

Exercise guidelines and simulations are provided under this heading. Guidelines define parameters under which the exercise will be conducted and delineate the extent to which objectives will be demonstrated.

Simulations define the boundaries of emergency responses by participants. Areas where participants will not be allowed to carry out emergency responses to the fullest extent are indicated under simulations. Limitations in emergency responses are necessary to protect personnel and the integrity of the operating reactor, and to limit impact to the public while simulating emergency conditions.

CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS

1. The exercise is scheduled for June 3 and 4, 1997.
2. Personnel necessary for safe reactor operation will be exempt from all exercise activities.
3. Actual operational or radiological events or emergencies take precedent over all other activities. If an actual operational or radiological event should occur, the exercise shall be suspended and players notified via the controller network. The senior exercise controller shall then consult with management to coordinate resumption of the exercise following resolution of the actual event.
4. Participants will be informed of the exercise date, but will not be informed of the start time. Only the exercise Control Room Simulator crew will be pre-positioned for the initiation of the exercise (see Item 8 below).
5. Participants will not be informed of the scenario events, time lines, or data.
6. Participants will be pre-briefed on limits to responses and on any required actions during responses (the CONDUCT of EXERCISE, **PARTICIPANT GUIDELINES** section of the full exercise scenario will contain content of briefing).
7. Scenario initial conditions (the SCENARIO EVENTS, **INITIAL CONDITIONS** section of the full exercise scenario will contain these details) will be distributed to participants prior to the start of events through the use of the following routine documents:
 - Plan of the Day (copied on colored paper to distinguish from actual POD)
 - Routine shift turnover paperwork (in simulator only)
 - Operations Department night notes (in simulator only)

**CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS**

8. Participants will not be pre-staged except for the following:

| <u>Participants</u> | <u>Location</u> |
|---|-------------------------|
| • Control Room Staff (Shift Supervisor, Senior Reactor Operator, Reactor Operators, Shift Technical Advisor, Communicator, Shift Chemistry, Technician and Shift RP Technician) | Control Room Simulator |
| • Auxiliary and Turbine Building Operators, Water Plant Operator | in plant in plant |
| • Initial conditions activity personnel | designated work site(s) |

9. Personnel will be notified of emergency conditions through methods normally employed in making notifications, i.e. plant alarms, gai-tronics announcements, personnel pagers, building announcements, and the Integrated Notification System (ERO computerized notification system).

10. Scenario driven plant operations will be directed from the control room simulator.

- Control room communications will be performed using equipment similar to actual control room equipment.
- Plant Emergency Alarm activation will occur under direction of participants in the simulator but will utilize actual control room equipment as the plant alarms can not physically be sounded from the simulator. This restriction will impose an artificial delay in sounding plant alarms.
- Plant wide announcements will be initiated from the simulator via the gai-tronics system cross-connect between the plant and the training simulator.
- Due to distance from the simulator to the actual plant, control room briefings and dispatch of auxiliary and turbine building operators will occur via telephone, radio, or Gai-tronics system versus typical face-to-face communications in the Control Room.
- The simulator will operate "live time." In the event of simulator failure for a protracted period of time, annunciators, indicators of plant parameters, and computer displays may be simulated through the use of hard copy scenario messages. The senior exercise controller shall decide to continue the exercise using paper hard copy data based on the recommendations of the control room simulator operator.

**CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS**

11. The emergency notification system (ENS branch of the Federal Telecommunications System) may be used to demonstrate system operability, depending on the desires of the U.S. Nuclear Regulatory Commission.
12. Data normally available through the emergency response facility computer system (ERFCS) will be simulated through a tie between the simulator and the ERFCS computer terminals in the TSC, OSC and EOF from the simulator.
 - The ERFCS terminals display a dark blue "SIMULATOR" indication in the lower, center of the screens to depict simulated versus actual plant data.
 - During an actual plant emergency, the simulator tie in to the plant ERFCS terminals in the TSC, OSC, and EOF will be disconnected and the ERFCS terminals will be returned to normal plant use.
13. To the maximum practical extent, participants will be permitted "free play" in emergency responses and accident mitigation. Facility Lead Controllers, after making note of un-anticipated actions, shall inform the senior exercise controller. The senior exercise controller may prohibit certain actions to maintain emergency responses within the planned scenario time line. Credit for innovative approaches will be given at the facility critiques.
14. Emergency response by participants will be to the fullest extent possible without violating any station procedures or good practice.
 - Post accident sampling system data normally obtained may be provided to participants before the actual completion of the PASS sampling procedure due to scenario time compression. Full operation of the PASS system is scheduled to be demonstrated on the second day of the exercise.
 - Protected area evacuation and initial accountability will be performed.
 - Due to the expense of interrupting business, site evacuation will be simulated.
 - Participants contacting outside organizations not specifically listed as a participating organization will perform communication checks only.

**CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS**

15. Some areas of emergency response will be limited to protect personnel and equipment or to lessen the impact on the public.
- Participants will not operate, manipulate or implement repairs on installed plant equipment or valves.
 - Actual tag out of equipment and valves will not be performed, however, all required authorizations and paperwork should be completed to the extent possible.
 - Controllers and Participants entering the Radiologically Controlled Areas of the Auxiliary Building and Radwaste Buildings for drill activities must sign in on and adhere to the requirements of existing RWP's or any special RWP made for the purpose of the exercise. Controllers and Participants should not enter areas prohibited by the governing RWP for drill or exercise activities.
 - Drill participants and Controllers entering the Radiological Control Areas for actual PASS sampling should use existing RWP's as directed by RP personnel.
 - If appropriate, onsite participants will demonstrate the procedure for donning SCBA's once but will not discharge air tanks.
 - If needed, offsite support will be simulated (i.e. fire or medical support).
 - If needed, fire hoses will not be charged.
 - Participants will not be administered radioprotective drugs.
 - Offsite monitoring teams will not wear Anti-Contamination clothing in the field to prevent any public concern.
 - Actual decontamination of equipment and vehicles will not be performed.
 - Participation by non-emergency OPPD personnel will be simulated (i.e. Transmission and Distribution or System Protection).

**CONDUCT OF EXERCISE
GUIDELINES AND SIMULATIONS**

16. Controllers for OPPD offsite monitoring teams shall rendezvous with their team where their monitoring kits are obtained.
17. Participants may request and, upon completion of appropriate actions, obtain from controllers additional information or data that was not previously available. Controllers shall not freely give out additional information. If, for example, players request the results of an internal inspection of a circuit breaker, they must first demonstrate the required tools and techniques, and the appropriate level of knowledge to perform the inspection. Only then will the controller hand out the results of the inspection. All scenario in-plant data will be EARNED.
18. Contingency messages will be assigned issuance times for reference only and will be issued only if participant actions affect planned scenario events, time lines, or data and only if authorized by the Senior Exercise Controller.
19. Controllers will assist in assuring that all communications include **"THIS IS A DRILL."**
20. The following actions and communications originating in the control room simulator that must be performed by the operational control room through the use of intermediaries, etc., may cause delays due to use of the simulator;
 - o Sounding of alarms.
 - o Drill participant in-plant operator briefings and communications.
 - o Any actual equipment operation or manipulations that require Shift Supervisor approval.
 - o Communications to the control room that are relayed to the simulator control room.
21. Control of site access traffic will not be completely restricted to allow normal plant deliveries and business to continue during performance of the exercise.
22. Non-participating employees may be allowed to return to work after completing a protected area evacuation and initial accountability. The Plant Manager will make the final decision to return non-participating personnel to work.