

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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June 30, 1989  
EP-DHM-89-018

Ms. Gail Good  
NRC, Region V  
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Walnut Creek, CA 94596-5368

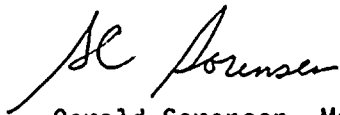
Dear Ms. Good:

Subject: EXERCISE 89 OBJECTIVES AND LIMITATIONS

Proposed objectives and limitations for the Plant 2 emergency exercise of October 4, 1989, "Exercise 89," are furnished for review and approval.

Any comments or questions should be directed to R.A. Chitwood at telephone (509) 377-8466, or to D.H. Mannion at (509) 377-8474

Very truly yours,



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PART 1  
OBJECTIVES AND LIMITATIONS  
EXERCISE 89

A. PURPOSE

The primary purpose of this exercise, scheduled for October 4, 1989, is to demonstrate effective management of the emergency and plant recovery operations with efficient coordination and communications between the activated Supply System emergency centers; Control Room (simulator), Operations Support Center (OSC), Technical Support Center (TSC), the Emergency Operations Facility (EOF) and the Joint Information Center (JIC). The exercise will be characterized by required response to an emergency situation that will involve classification, notification, center activation, team deployment, accident prognosis and mitigation, and the preparation of plant recovery operations procedures.

Timely and proper response by the players will contribute to mitigation of the simulated accident consequences. Participation by offsite agencies, other than EOF and JIC liaison personnel, is not envisioned.

B. OBJECTIVES

Numbered objectives reflect FEMA standardized objectives. Subparagraph letter groups reflect specific objectives. Some are keyed to findings of Exercise 88, Phase I, and to Drill 89-2: PASS/Man Down.

Emergency Classification Levels

1. Demonstrate the ability to monitor, understand and use emergency classification levels (ECLs) through the appropriate implementation of emergency functions and activities corresponding to ECLs as required by the scenario. The four ECLS are Notification of Unusual Event, Alert, Site Area Emergency and General Emergency.
  - a. Centers affected: Control Room and TSC.
  - b. Limitations: None.
  - c. Supporting objectives: None.

Mobilization of Emergency Personnel

2. Demonstrate the ability to fully alert, mobilize and activate personnel for both facility and field-based emergency functions.
  - a. Centers Affected: All.
  - b. Limitations:
    - 1) Neither round-the-clock staffing nor shift change will be demonstrated.

2) Staffing may be limited to Supply System personnel only, but State and Counties EOCs will be functional with at least controllers.

3) Phones in the JIC may be prestaged.

c. Supporting Objectives:

- 1) Demonstrate timely response of personnel to each required emergency position without special follow-up action, and non-reliance on personnel above the one shift staffing unless they have been called in with realistic response delay times (Ex 88 CARs B-11 and C-6, D89-2 CARs B-6, C-6 and C-13).
- 2) Demonstrate respondent familiarity with, regard for and use of, established procedures (Ex 88 CAR C-8, D89-2 CAR C-7).
- 3) Demonstrate the ability to account for all individual (designated players) within the Protected Area within 30 minutes of the time of the emergency (SAE or higher) and OSC activation, to ascertain the names of any missing, and to account for all Protected area individuals continuously thereafter. (Exercise 88 CARs B-7 and B-10, D89-2 CAR B-4)
- 4) Demonstrate the ability of the Technical Data Center to perform assigned tasks such as specific technical analyses (Ex 88 CAR NRC 88-29-02, D89-2 CAR C-12).

Direction and Control

3. Demonstrate the ability to direct, coordinate and control emergency activities for Supply System and off-site support agencies.

a. Centers affected: All.

b. Limitations: Offsite agency participation may be limited to EOF and JIC liaison personnel only.

c. Supporting objectives:

- 1) Demonstrate Security Force involvement at OSC/emergency team briefings, use of designated players and completion of after action reports (Ex 88 CAR B-10, D89-2 CAR C-12).
- 2) Demonstrate the ability of the OSC staff to correctly track and control all plant reentry teams, assume control of personnel already dispatched at the time of OSC activation (to include security personnel), and to maintain effective communications with all dispatched teams (Ex 88 CAR B-10, D89-2 CAR C-1).



- 3) Demonstrate the ability of the simulator, OSC and TSC staffs to assess the emergency conditions, to determine which emergency action levels (EALs) have been reached, and to classify the emergency correctly in accordance with the Emergency Plan Implementing Procedures. (Ex 88 CARs B-12, -13, and -14, D89-2 CARs C-6 and C-23).
- 4) Demonstrate a smooth, coordinated assumption of PED duties from the initial PED/Shift Manager and effective activation of the TSC (Ex 88 CAR NRC 88-29-C6).
- 5) Demonstrate the safe operation of equipment (D89-2 CAR B-2).
- 6) Demonstrate the ability to conduct a technical evaluation of the incident and to implement actions to control and mitigate the transient (Ex 88 CARs B-12, B-13 and B-14, D89-2 CARs C-6 and C-23).

#### Communications

4. Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.
  - a. Center affected: All.
  - b. Limitations: None.
  - c. Supporting objectives:
    - 1) Demonstrate proper functioning and set up of the communications systems, e.g. the Crash phones, PA speakers clarity, TSC phone locations, distinguishable simulator phone ringers, ENS line, fax, and STA phones, CRS phone console layout, radio clarity in the CAS, and OSC phone cable routing. (Ex 88 CARs B-3 and C-25, D89-2 CAR C-4).
    - 2) Demonstrate timely and accurate exchange of information on such things as plant and emergency status, including completion of major activities, between emergency centers such as the Control Room, TSC, OSC, EOF and JIC, and dispatched emergency teams. Include such items as:
      - o Proper Control Room staff PA announcements, notifications of emergency events and utilization of augmenting staff when warranted; proper TSC inclusion of the TSC Director and notifications of significant updates to the NRC, OSC and others, and timely announcements of existing hazards accompanied by correct alerting tone (Ex 88 CARs B-9 and NRC 88-29-C3, -C5 and -C9, D89-2 CARs B-5, C-8).



- o Timely airspace closure by the OACC staff, proper information net control by the TSC Information Coordinator, and a displayed familiarity with plant systems by the TSC, SSDC and TDC information coordinators (Ex 88 CAR C-7, D 89-2 CAR C-11).
- o Realistic communications by deployed reentry teams when all members are simulated to be in SCBAs.

#### Facilities, Equipment and Displays

5. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.
  - a. Centers affected: All.
  - b. Limitations: Phones in the JIC may be prestaged.
  - c. Supporting objectives:
    - 1) Demonstrate the presence or availability and functioning of required equipment, or utilization of effective compensatory measures, in the OSC and TSC (Ex 88 CAR C-26).
    - 2) Demonstrate the proper and timely maintenance of emergency center data displays, especially in the PAP lobby, SSDC, MUDAC and JIC (Ex 88 CARs B-9, C-3 and C-15, D89-2 CAR C-17).
    - 3) Demonstrate the presence of operative emergency lighting in the TSC (Ex 88 CAR C-26 and NRC 88-29-C8).
    - 4) Demonstrate the integration of security considerations into the TSC decision making process (Ex 88 CAR C-26 and NRC 88-29-C4).
    - 5) Demonstrate that clocks in the various centers are synchronized (Ex 88 CAR NRC 88-29-C2, D89-2 CAR C-20).

#### Emergency Worker Exposure Control

6. Demonstrate the ability to continuously monitor and control emergency worker exposure.
  - a. Centers affected: OSC, CAS and MUDAC.
  - b. Limitations:
    - 1) The PAP and AAP will remain functional for routine plant operations. Actual security is not to be jeopardized.
    - 2) Radioactive material will not be utilized to "spike" any sample nor for contamination props.

- 3) Offsite field team members will not wear protective clothing in the field except those dispatched on the Hanford Reservation.
- 4) SCBAs may be worn by bearded personnel.
- 5) Protective clothing and SCBAs need only be utilized throughout the first deployment of each emergency worker if proficiency is demonstrated. In the interest of safety, SCBAs may be removed from anyone stressed by its use.

c. Supporting Objectives:

- 1) Demonstrate the ability to move badges and TLDs, or mock ups, to the PSF.
- 2) Demonstrate OSC re-entry team proficiency in the donning and use of Scot Air Paks and protective clothing (D89-2 CAR C-2).
- 3) Demonstrate effective control of Security Force emergency workers (D89-2 C-12).
- 4) Demonstrate the use of good ALARA practices in the control of emergency workers (Ex 88 CAR NRC 88-29-01).

Field Radiological Monitoring

7. Demonstrate the appropriate equipment and procedures for determining field radiation measurements.
  - a. Centers affected: MUDAC (and field teams).
  - b. Limitations: Mutual aid response will not be demonstrated.
  - c. Supporting Objective: Demonstrate the correct conduct of environmental monitoring, including such things as effective team command and control, team communications, monitoring instrument use, and documentation (Ex 88 CAR NRC 88-29-03).
8. Demonstrate the appropriate equipment and procedures for the measurement for airborne radioiodine concentrations as low as 10-7 microcuries per cc in the presence of noble gases.
  - a. Centers affected: MUDAC (and field teams).
  - b. Limitations: None.
  - c. Supporting objectives: None.
9. Not applicable.

### Plume Dose Projection

10. Demonstrate the ability, within the plume exposure pathway, to project (including thyroid dosage) dosage to the public via plume exposure.
  - a. Center affected: MUDAC.
  - b. Limitations: None.
  - c. Supporting objectives: None.

### Plume Protective Action Decision Making

11. Not applicable.

### Alert, Notification and Emergency Information

12. Not applicable.
13. Demonstrate the ability to coordinate the formulation and dissemination of accurate information and instructions to the public in a timely fashion after the initial alert and notification has occurred.
  - a. Centers affected: CR, TSC, EOF and JIC.
  - b. Limitations:
    - 1) The EBS broadcasts will be simulated on a special telephone speaker circuit.
    - 2) Only sirens within the Exclusion Area Boundary will be actuated.
  - c. Supporting objectives:
    - 1) Demonstrate the ability of the OACC staff to log the essence of EBS messages, and to properly process any deviations in the PAD from the Supply System PAR (Ex 88 CAR B-1).
    - 2) Demonstrate correct siren activations by the EOFCC staff (Ex 88 CAR B-4).
    - 3) Demonstrate proper completion of required notification forms (D89-2 CAR C-22).
14. Demonstrate the ability to brief the media in an accurate, coordinated and timely manner.
  - a. Centers affected: JIC.
  - b. Limitations: None.



c. Supporting objectives

- 1) Demonstrate correct, timely and courteous responses by telephone teams to all calls from the simulated media and public (Ex 88 CAR B-6).
  - 2) Demonstrate timely scheduling of the first and subsequent news conferences commensurate with the development of significant events (Ex 88 CAR C-21).
  - 3) Demonstrate that at least one phone on each telephone team remains functional at all times after activation of the JIC (Ex 88 CAR C-22).
  - 4) Demonstrate proper discharge of all JIC responsibilities, e.g., proper team supervision, equipment activation and checks, news release preparation and distribution, conduct of news conferences, notifications and documentation (Ex 88 CAR C-23, D89-2 CAR B-9).
15. Demonstrate the ability to establish and operate rumor control in a coordinated and timely fashion.
- a. Centers affected: JIC.
  - b. Limitations: None.
  - c. Supporting objectives: None.

Use of KI

16. Demonstrate the ability to make the decision to recommend the use of KI to emergency workers and institutionalized persons, based on pre-determined criteria, as well as to distribute and administer it once the decision is made.
- a. Centers affected: TSC, OSC, CAS, EOF.
  - b. Limitations: There are no institutionalized persons in the plume EPZ.
  - c. Supporting objectives: None.
17. Not applicable.

Implementation of Protective Actions, Traffic Control, Relocation Centers and Medical Services

18. through 24. Not applicable.

Decontamination, Supplementary Assistance and Ingestion

25. through 30. Not applicable.



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Recovery, Reentry and Relocation

31 and 32. Not applicable.

33. Demonstrate the ability to implement appropriate measures for controlled reentry and recovery. Specifically, to prepare plant recovery operations procedures.

a. Centers affected: TSC and EOF.

b. Limitation - A scenario "roll forward" may be used to get to the plant recovery phase.

24 Hour Staffing, Evacuation of Onsite Personnel and Unannounced Drill

34 through 36. Not applicable.