



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

July 19, 2000
ST-NOC-AE-00000894
STI: 31145620
File No.: G09.8
ER 20000116
10CFR50.47

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
2000 Graded Emergency Preparedness Exercise Objectives

Attached for your review are the Onsite and Offsite objectives, as well as, the Exercise Participant Guidelines (Extent of Play) for the Evaluated Emergency Response Exercise to be held October 18, 2000 at the South Texas Project.

If you should have any questions, please contact myself at (361) 972-8053 or Fred Perry at (361) 972-8697.

A handwritten signature in black ink, appearing to read "P.L. Serra". The signature is stylized and cursive.

P.L. Serra
Manager, Plant Protection

Enclosure: 2000 Graded Emergency Response Exercise Objectives
2000 Graded Emergency Response Exercise Participant Guidelines

File: Document Control
NRC-Drills

A045

cc:*

*Tom Andrews (2 copies)
Region IV Office of Regional Administrator,
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

*John A. Nakoski
Project Manager, Mail Stop OWFN/7-D-1
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

*Cornelius F. O'Keefe
Sr. Resident Inspector
c/o U. S. Nuclear Regulatory Comm.
P. O. Box 910
Bay City, TX 77404-0910

Tae (T. J.) Kim
U. S. Nuclear Regulatory Commission
Mail Stop OWFN/7-D-1
Washington, DC 20555-0001

D. G. Tees/R. L. Balcom
Houston Lighting & Power Co.
P. O. Box 1700
Houston, TX 77251

C. A. Johnson/R. P. Powers
AEP - Central Power and Light
P. O. Box 289, Mail Code: N5022
Wadsworth, TX 77483

*Office of Nuclear Regulatory Research
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Jon C. Wood
Matthews & Branscomb
One Alamo Center
106 S. St. Mary's Street, Suite 700
San Antonio, TX 78205-3692

*Institute of Nuclear Power
Operations - Records Center
700 Galleria Parkway
Atlanta, GA 30339-5957

*Richard A. Ratliff
Bureau of Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, TX 78756-3189

A. H. Gutterman, Esquire
Morgan, Lewis & Bockius
1800 M Street, N.W.
Washington, DC 20036-5869

W. C. Gunst/M. T. Hardt
City Public Service
P. O. Box 1771
San Antonio, TX 78296

A. Ramirez/C. M. Canady
City of Austin
Electric Utility Department
721 Barton Springs Road
Austin, TX 78704

* The above copies distributed without Attachment except as noted by the asterisk. If copies are required, please contact us.

2.0 SCOPE AND OBJECTIVES

2.1 Scope

The 2000 South Texas Project Electric Generating Station (STPEGS) Emergency Preparedness Graded Exercise, to be conducted on October 18, 2000, has been developed to support demonstration of the capabilities of the South Texas Project, the State of Texas, and the County of Matagorda, Texas Emergency Response Organizations. The Exercise will test and provide the opportunity to evaluate the emergency plans and procedures of the South Texas Project, the State of Texas, and the County of Matagorda, Texas. It will test the ability of participants to assess and respond to emergency conditions and coordinate activities to protect the health and safety of individuals in the plant and in the vicinity of STPEGS from the consequences of a radiological incident. The Exercise will include full activation and participation of the entire South Texas Project Emergency Onsite Facilities which will be evaluated by the Nuclear Regulatory Commission (NRC). The State of Texas, and County of Matagorda emergency facilities and objectives will be demonstrated to, and evaluated by the Federal Emergency Management Agency (FEMA) in accordance with the objectives and extent of play in Section 2.3, "Offsite Objectives".

In addition, the Exercise will provide the South Texas Project, the State of Texas, and Matagorda County with the opportunity to assess the effectiveness of training improvements and modifications made to the Emergency Plans and Procedures since the last Exercise.

The following summary indicates which emergency response facilities will participate in the 2000 STPEGS Emergency Preparedness Exercise:

South Texas Project Nuclear Operating Co.

Control Room (CR) Simulator -	STPEGS
Technical Support Center (TSC) -	STPEGS
Operations Support Center (OSC) -	STPEGS
Emergency Operations Facility (EOF) -	STPEGS
Joint Information Center (JIC) -	Bay City, Texas

State of Texas / Matagorda County

Disaster District Sub-2C Emergency Operations Center	Pierce, Texas
Bureau of Radiation Control Operations	STPEGS EOF
Joint Information Center	Bay City, Texas
McAllister Reception Center	Bay City, Texas
Matagorda County Emergency Operations Center	Bay City, Texas
Bureau of Radiation Control Staging Area	Bay City, Texas
Bureau of Radiation Control Mobile Laboratory	Bay City, Texas
Bureau of Radiation Control Field Monitoring Teams	10 Mile EPZ
Two Access Control Points	10 Mile EPZ

2.2 Onsite 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 STPEGS radiological emergency preparedness Exercise objectives are based on 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 utilized in developing the objectives.

This drill meets the requirements for a semi-annual Health Physics drill in accordance with NUREG 0654 N.2.e. This drill involves response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment.

This drill meets the requirements for a Communication drill in accordance with NUREG 0654 N.2.a. Communications between the nuclear facility, state and local Emergency Operations Centers, and field assessment teams will be demonstrated.

This drill meets the requirements for an Exercise in accordance with NUREG 0654 N.1.a. This drill will simulate an emergency that results in offsite radiological releases, which will require response by offsite authorities.

This drill will be evaluated for Drill and Exercise Performance Indicators, in accordance with NEI 99-02 Rev. 0, Regulatory Assessment Performance Indicator Guidelines.

This drill will demonstrate and meet the five year objective to Conduct a Post accident recovery and re-entry seminar with Federal, State and local officials. This drill will demonstrate and meet the five year objective for demonstrating the Nuclear Regulatory Commission co-location in onsite facilities involving Federal response.

Objectives are grouped according to functional area of emergency response. Additionally, objectives have been cross referenced to major or parent Emergency Plan Implementing Procedures used in demonstrating the objective, and to any related open weaknesses from previous years' exercises.

General Objectives:

1. Demonstrate the adequacy of the STPEGS Emergency Plan, and the Emergency Plan Implementing Procedures.

¹NUREG-0654 ref: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P
²Major EPIP ref: ALL
2. Demonstrate the ability to activate, staff and operate the Technical Support Center (TSC), Operations Support Center (OSC), Emergency Operations Facility (EOF), and Joint Information Center (JIC) within the time frames specified in the Emergency Plan.

¹NUREG-0654 ref: B.5; G.3; H.1-3, 6-9,12; J.1, 4, J.6.a-c, 10.a-b, E.2; F.1,2,3
²Major EPIP ref: OERP01-ZV-IN03, -TS01, -OS01, -EF01, -OF02
3. Demonstrate the reliability and effective use of normal and emergency communications equipment and procedures.

¹NUREG-0654 ref: F.1-3
²Major EPIP ref: OERP01-ZV-IN02
4. Demonstrate the ability to coordinate and effectively interface with State and NRC Protective Response Team representatives assigned to the onsite emergency facilities. (5 Year Objective)

¹NUREG-0654 ref: A.3, B.6, and C.2.a-b
²Major EPIP ref: OERP01-ZV-EF07, 08, 21, -TS01, 02, 04

5. Demonstrate the ability to provide an exercise scenario and controller organization that permits testing a major portion of the emergency plan.

¹NUREG-0654 ref: N.1.a-b

²Major EPIP ref: OPGP05-ZV-0001

6. Demonstrate the ability to conduct a post-exercise critique to identify weak or deficient areas that need correction.

¹NUREG-0654 ref: N.4, 5

²Major EPIP ref: OPGP05-ZV-0001

Accident Assessment, Classification and Mitigation

7. Demonstrate the ability to assess plant conditions.

¹NUREG-0654 ref: D.1-2; H.5; I.1

²Major EPIP ref: OERP01-ZV-SHO1, -TS07

8. Demonstrate the ability to identify projected trends and potential consequences.

¹NUREG-0654 ref: D.1-2; H.5; I.1

²Major EPIP ref: OERP01-ZV-TS04, -TS07

9. Demonstrate the ability to classify emergency events per the Classification Procedure OERP01-ZV-IN01. (Performance Indicator)

¹NUREG-0654 ref: D.1-2; H.5; I.1

²Major EPIP ref: OERP01-ZV-IN01

10. Demonstrate the ability to provide technical support for operations in accident assessment and mitigation.

¹NUREG-0654 ref: B.7.a-b

²Major EPIP ref: OERP01-ZV-TS03

Notification and Mobilization

11. Demonstrate the ability to alert and notify STPEGS emergency response personnel in a timely manner.

¹NUREG-0654 ref: A.1.e; B.1, 5,7.a; E.2; F.1.e

²Major EPIP ref: OERP01-ZV-IN03

12. Demonstrate the ability of STPEGS to notify federal, state and county agencies within the time frames specified in the Emergency Plan.
(Performance Indicator)

¹NUREG-0654 ref: A.1.e; B.4, 7.c; E.1-4; F.1; J.7; N.2.a

²Major EPIP ref: OERP01-ZV-IN02

13. Demonstrate the ability to correctly complete the Offsite Agency Notification Form.

¹NUREG-0654 ref: A.1.e; B.4, 7.c; E.1-4; F.1; J.7; N.2.a

²Major EPIP ref: OERP01-ZV-IN02

14. Demonstrate the ability to alert, advise and direct onsite non-essential personnel.

¹NUREG-0654 ref: J.1, 4

²Major EPIP ref: OERP01-ZV-IN04

Direction and Control

15. Demonstrate the ability to direct and coordinate emergency responses.

¹NUREG-0654 ref: A.1.d; B.2-7.a-b

²Major EPIP ref: OERP01-ZV-SHO1, -TS01, -EF01

16. Demonstrate the ability to transfer emergency direction from the Control Room (CR), to the TSC, and finally to the EOF, or from the Control Room directly to the EOF.

¹NUREG-0654 ref: A.1.d; B.3-5

²Major EPIP ref: OERP01-ZV-SHO1, -TS01, -EF01

Radiological Assessment and Control

17. Demonstrate the ability to provide radiological monitoring and decontamination capabilities for onsite and non-essential personnel.

¹NUREG-0654 ref: J.3-4; K.7
²Major EPIP ref: OERP01-ZV-IN06

18. Demonstrate the ability to provide onsite contamination controls, and area access controls.

¹NUREG-0654 ref: K.5, 6
²Major EPIP ref: OERP01-ZV-IN06

19. Demonstrate the ability to continuously monitor and control emergency worker exposures.

¹NUREG-0654 ref: K.1.a-g, 2,3.a-b
²Major EPIP ref: OERP01-ZV-IN06

20. Demonstrate the ability to monitor, assess, and correlate onsite radiological conditions.

¹NUREG-0654 ref: H.5.b, c, 9; I.1-3; N.2.d, e.1
²Major EPIP ref: OERP01-ZV-SH02,-TS04, -TS05,and -OS03

21. Demonstrate the ability to collect, analyze and evaluate simulated radiological samples and surveys.

¹NUREG-0654 ref: H.5.b, 7; N.2.d, e.1
²Major EPIP ref: OERP01-ZV-TS04,-OS03,-OS06

22. Demonstrate the ability to assess core damage.

¹NUREG-0654 ref: I.3; M.1
²Major EPIP ref: OERP01-ZV-TS05, -TS07

23. Demonstrate the ability to simulate taking a PASS sample.

¹NUREG-0654 ref: H.5.b

²Major EPIP ref: OERP01-ZV-SH01, -TS01, -EF01, and -TS05

24. Demonstrate the ability to determine source terms and dose projections, evaluate dose projections against protective action guides and determine appropriate onsite and offsite protective actions.

¹NUREG-0654 ref: H.6a, 8; I.3-7, 9-10; J.10.m

²Major EPIP ref: OERP01-ZV-IN07, -TS05

³Exercise Weakness 50-498; 499/98013-01 *Failure to recognize the need to make PARs beyond 10 miles.*

25. Demonstrate the ability to make timely protective action recommendations to offsite agencies. (Performance Indicator)

¹NUREG-0654 ref: I.5-11, J.7

²Major EPIP ref: OERP01-ZV-IN07

26. Demonstrate the ability to adequately form, brief, dispatch, and debrief Emergency Teams.

¹NUREG-0654 ref: H.5.b, 7; N.2.d, e.1

²Major EPIP ref: OERP01-ZV-OS01, -OS03, -OS06

Public Information

27. Demonstrate the capability to coordinate the preparation, review and release of information with, state and local government agencies; and provide press releases to the media in a timely manner.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

28. Demonstrate the capability at the JIC to respond directly to questions from the media and/or public concerning real and rumored events of an emergency at STPEGS.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

29. Demonstrate the capability at the JIC to identify rumors and correct false information concerning an emergency at STPEGS.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

30. Demonstrate the capability at the JIC to coordinate and assemble emergency information for dissemination to the media and/or public.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

Security

31. Demonstrate the ability to control access to the Owner Controlled Area, the Protected Area and the Emergency Response Facilities.

¹NUREG-0654 ref: J.1, 4

²Major EPIP ref: OERP01-ZV-TS08, SH03

32. Demonstrate the ability to provide initial and continuous accountability of onsite individuals.

¹NUREG-0654 ref: J.1-5

²Major EPIP ref: OERP01-ZV-INO4, -INO5, -SH03, and -TS08

Five Year Objective

33. Demonstrate the ability to conduct a post accident recovery and re-entry seminar with Federal, State and local officials.

¹NUREG-0654 ref: M.

²Major EPIP ref: OERP01-ZV-RE01

FOOTNOTES

¹ References related emergency planning objectives provided as guidance in 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 References major STPEGS Emergency Plan Implementing Procedure(s) used in demonstrating the objective. Other procedures may be applicable but will generally be referenced by, or branched from, the major procedure.

³ References NRC Inspection Report 50-498; 499/98013-01 Exercise Weakness- Failure to recognize the need to make protective action recommendations beyond 10 miles.

2.3 Offsite Objectives

Objective 1: Mobilization of Emergency Personnel

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

Locations: Bureau of Radiation Control (BRC) Operations at STP EOF; Joint Information Center (Bay City); BRC Staging Area (Bay City); BRC Mobile Laboratory (Bay City); State (BRC) Field Monitoring Teams (Bay City); State Contamination Control Teams (Bay City); Matagorda County EOC (Bay City); McAllister Reception Center (Bay City); State EOC (Austin); Disaster District EOC (Pierce); Bus Driver Demonstration; Traffic and Access Control Demonstration.

Extent of Play:

- 1) The Bureau of Radiation Control and DPS personnel not stationed in the Matagorda County area will pre-stage at the BRC staging area in Bay City.
- 2) At Site Area or General Emergency, the State EOC will notify agencies, which compose the Emergency Management Council. However, only those agencies on the primary notification list will be requested to send representatives to the State EOC.
- 3) American Red Cross personnel will pre-stage at the ARC Chapter office in Bay City.
- 4) Matagorda County monitoring and decontamination personnel will pre-stage at the Environmental Health Department.
- 5) An extra dispatcher will be placed on duty at the Matagorda County Sheriff's office to handle the regular workload.
- 6) To allow for maximum amount of play, Joint Information Center staff will pre-stage in the Bay City area.
- 7) One (1) bus driver will be mobilized for the bus demonstration.
- 8) Two (2) law enforcement officers will be mobilized for the Traffic and Access Control Point demonstration (see statement at Objective 30).

Objective 2: Facilities - Equipment, Displays, and Work Environment

Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.

Locations: BRC Operations at STP EOF; Joint Information Center (Bay City); BRC Staging Area (Bay City); Matagorda County EOC (Bay City); State EOC (Austin); Disaster District EOC (Pierce).

Extent of Play:

- 1) Regardless of the scenario, no facilities/activities will relocate during this exercise.
- 2) The BRC Mobile Laboratory and Emergency Response Vehicle (ERV) will be pre-staged because of the distance involved with driving the vehicle to Bay City.
- 3) To allow for the maximum amount of play, the set-up at the Joint Information Center will be pre-staged.

Objective 3: Direction and Control

Demonstrate the capability to direct and control emergency operations.

Locations: BRC Operations at STP EOF; BRC Staging Area (Bay City); Matagorda County EOC (Bay City); State EOC (Austin); Disaster District EOC (Pierce).

Objective 4: Communications

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Locations: BRC Operations at STP EOF; Joint Information Center (Bay City); BRC Staging Area (Bay City); BRC Mobile Laboratory (Bay City); BRC Field Monitoring Teams (Bay City); State Contamination Control Teams (Bay City); Matagorda County EOC (Bay City); McAllister Reception Center (Bay City); State EOC (Austin); Disaster District EOC (Pierce); Bus Driver Demonstration; Traffic and Access Control Demonstration.

Extent of Play:

- 1) A controller phone cell will be established to ensure appropriate communications are accomplished and to ensure fluid exercise play.

Objective 5: Emergency Worker Exposure Control

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

Locations: BRC Operations at STP EOF; BRC Staging Area (Bay City); BRC Mobile Laboratory (Bay City); BRC Field Monitoring Teams (Bay City); State Contamination Control Teams (Bay City); Matagorda County EOC (Bay City); McAllister Reception Center (Bay City).

Extent of play:

- 1) Access to anti-contamination clothing will be demonstrated; however, it will not be worn. Exercise participants will use gloves, as necessary.
- 2) The McAllister Reception Center monitoring and decontamination staff will only demonstrate the use of TLDs. Reception center monitoring and decontamination staff will not be issued Direct Reading Dosimetry (DRD).

Objective 6: Field Radiological Monitoring - Ambient Radiation Monitoring

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

Location: BRC Field Monitoring Teams (Bay City)

Extent of Play:

- 1) Four (4) Field Monitoring Teams will be deployed for training purposes. Only two teams will be evaluated.
- 2) Any attempts by Field Monitoring Teams to locate (and measure) areas of maximum exposure will be limited in compliance with BRC Procedure 7, Personnel Dosimetry and Exposure Control.
- 3) Use of anti-contamination clothing will be limited to gloves.
- 4) Equipment not required to demonstrate exercise objectives may be left at the staging area to allow for additional space within the vehicle.
- 5) Drill evaluators and controllers may be required to travel in separate vehicles due to space restrictions.

Objective 7: Plume Dose Projection

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

Location: BRC Operations at STP EOF

Extent of Play:

- 1) The protective actions that result from this decision making process will not be implemented. No member of the public will be relocated. Special populations will be addressed in Objective 15.
- 2) Areas Requiring Corrective Action (ARCA), Issue ID: 60-98-07-A-01, will be closed by training BRC Accident Assessment to aggressively follow-up with field sampling to verify dose projections. The objective will be demonstrated by BRC officials **after conclusion of the exercise** by a controller/player inject which will indicate that a Protective Action Guide (PAG) may be exceeded beyond the Emergency Planning Zone (EPZ) boundary.

Objective 8: Field Radiological Monitoring - Airborne Radioiodine and Particulate Activity Monitoring

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as $1.0E^{-7}$ microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

Location: BRC Field Monitoring Teams (Bay City)

Extent of Play:

- 1) Samples will be counted in the Mobile Laboratory, not by Field Monitoring Teams.
- 2) Activated charcoal filters will be used in lieu of Silver Zeolite filters for exercise purposes.

Objective 9: Plume Protective Action Decision Making

Demonstrate the capability to make timely and appropriate Protective Action Decisions (PADs).

Locations: Matagorda County EOC (Bay City); BRC Operations at STP EOF

Objective 10: Alert and Notification

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate state or local officials.

Location: Matagorda County EOC (Bay City)

Extent of Play:

- 1) Siren and alert radio activation will be simulated.
- 2) Emergency Alert System (EAS) Messages will be sent to the EAS radio stations; however, broadcasts will be simulated.
- 3) Route alerting will not be demonstrated.
- 4) Community Alert Network (CAN) will not be demonstrated.

Objective 11: Public Instructions and Emergency Information

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Location: Matagorda County EOC (Bay City)

Extent of Play:

- 1) Messages will not be broadcast over commercial radio or television.

Objective 12: Emergency Information - Media

Demonstrate the capability to coordinate the development and dissemination of clear, accurate and timely information to the news media.

Location: Joint Information Center (Bay City)

Objective 13: Emergency Information - Rumor Control

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

Location: Joint Information Center (Bay City)

Extent of Play:

- 1) Four telephones will be staffed for this demonstration. A phone cell will inject rumors.

Objective 14: Implementation of Protection Actions - Use of KI for Emergency Workers, Institutionalized Individuals, and the General Public (State and Local)

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the state plan specifies, the general public.

Locations: BRC Operations at STP EOF; BRC Staging Area (Bay City); Matagorda County EOC (Bay City)

Extent of Play:

- 1) Distribution of KI to emergency workers will be simulated by using copies of the Patient Packet Insert to represent actual KI supplies.
- 2) Actual ingestion of KI will be simulated by emergency workers.
- 3) The use of KI by the general public is not recommended in the State of Texas, and there are no institutionalized individuals within the STPEGS 10-mile EPZ; therefore, KI will not be issued to the general public or institutionalized individuals.

Objective 15: Implementation of Protective Actions - Special Populations

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

Location: Matagorda County EOC (Bay City)

Extent of Play:

- 1) Protective actions for special needs individuals will be considered at the County EOC; however, actual demonstration of protective actions will not be performed.
- 2) Matagorda County EOC staff will demonstrate this objective through discussion and showing the evaluator a roster of special needs individuals in the 10 mile emergency planning zone.

Objective 16: Implementation of Protective Actions - Schools

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

Location: Matagorda County EOC (Bay City)

Extent of Play:

- 1) Matagorda Independent School District will demonstrate implementation of protective actions for schools via telephone communications with the Matagorda County EOC, Transportation Coordinator. No students will be affected by the notifications.

- 2) A bus will travel to the County EOC for dosimetry issuance and the appropriate briefings. The bus will travel to a predetermined school for simulated student pick-up. The bus will then travel to a designated host school in Bay City and terminate its route. No students will be affected by the demonstration.

Objective 17: Traffic and Access Control

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

Location: Matagorda County EOC (Bay City)

Extent of Play:

- 1) Law enforcement officers and BRC Contamination Control Teams will establish two Traffic and Access Control Points (see statement at objective 30).
- 2) In order to protect exercise participants, these Traffic and Access Control Points will be established at pre-selected off-road locations. Normal traffic will not be affected by control point operations.
- 3) A controller inject during the exercise will identify the two Traffic and Access Control Point locations. The controller inject will not interfere with the Traffic and Access Control Point decision making process.

Objective 18: Reception Center Monitoring, Decontamination, and Registration

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.

Location: McAllister Reception Center (Bay City)

Extent of Play:

- 1) Decontamination will be discussed if requested, but actual decontamination will not be performed.
- 2) Due to school in session, only a portion of the reception center will be activated during the exercise, including:
 - Only one locker room (male area) will be activated for the demonstration.
 - The emergency vehicle and bus pickup will not be activated.
 - No evacuees will be transported to a Congregate Care facility.

Objective 19: Congregate Care

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

Location: McAllister Reception Center (Bay City)

Extent of Play:

- 1) The Congregate Care facility (St. Mark's Episcopal Church) activation will not be demonstrated; however, if requested, an American Red Cross official will walk evaluators through the facility to describe its setup and operating procedures.

Objective 22: Emergency Workers, Equipment, and Vehicles Monitoring and Decontamination

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment, and vehicles.

Location: McAllister Reception Center (Bay City)

Extent of Play:

- 1) Emergency workers use the same facilities as the general public. Demonstration of this activity is included in Objective 18.
- 2) Vehicle decontamination will be discussed if requested, but actual decontamination will not be performed.

Objective 25: Laboratory Operations

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

Location: BRC Mobile Laboratory (Bay City)

Extent of Play:

- 1) Laboratory personnel will process samples collected by Field Monitoring Teams.

Objective 28: Relocation, Re-Entry, and Return - Decision Making

Demonstrate the capability to develop decisions on relocation, re-entry, and return.

Locations: BRC Operations at STP EOF; Matagorda County EOC (Bay City).

Extent of Play:

- 1) To be demonstrated via a tabletop discussion at the conclusion of the plume phase exercise and post drill critique.
- 2) The Chief of Field Operations/Recovery Manager will brief county, state, and federal officials on the PAGs developed. In addition, county, state, and federal officials will discuss relocation, re-entry, return and resource issues as they pertain to the evacuated zone(s).

Objective 29: Relocation, Re-Entry, and Return - Implementation

Demonstrate the capability to implement relocation, re-entry, and return.

Locations: BRC Operations at STP EOF; Matagorda County EOC (Bay City).

Extent of Play:

- 1) To be demonstrated via a tabletop discussion at the conclusion of the plume phase exercise and post drill critique.
- 2) The Chief of Field Operations/Recovery Manager will brief county, state, and federal officials on the PAGs developed. In addition, county state, and federal officials will discuss relocation, re-entry, return and resource issues as they pertain to the evacuated zone(s).

Objective 30: Continuous, 24-Hour Staffing

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

Locations: Joint Information Center (Bay City) BRC Contamination Control Teams (Bay City); BRC Mobile Laboratory (Bay City); BRC Operations at STP EOF; State EOC (Austin); McAllister Reception Center (Bay City)

Extent of Play:

- 1) Rather than deploying one team per shift, the Bureau of Radiation Control will use two (2) Contamination Control Teams for the entire exercise. The two Traffic and Access Control Points teams will meet the shift turnover requirement.
- 2) Turnover between key members of the Joint Information Center (Bay City) will occur between the Alert and Site Area Emergency Classification Level. The turnover will include utility, state and local spokespersons only.
- 3) Shift turnover for monitoring and decontamination operations will include:
 - one (1) supervisor
 - one (1) Station One emergency worker
 - one (1) Station Two emergency worker
 - one (1) Station Three emergency worker
- 4) Shift turnover for the American Red Cross will include:
 - one (1) Reception Center Manager
 - one (1) Registration Coordinator.
- 5) Due to the compressed exercise schedule the State EOC will make shift changes at other than normal times.
- 6) Shift change at the BRC Mobile Laboratory will occur by controller inject.

3.0 GUIDELINES

To define the scope and extent of participation by organizations and “participants”, the following guidance is established to meet the objectives listed in Section 2.0 of the Drill Manual.

A. GENERAL INFORMATION

1. The exercise will be conducted on October 18, 2000. Drill participants will not possess prior knowledge of the drill sequence of events, and will follow normal daily activities the day of the drill until notified of abnormal conditions as directed by 0ERP01-ZV-IN03, “Emergency Response Organization Notification”.
2. The Control Room staff will operate from the STPEGS Simulator located in the Nuclear Training Facility. Prior to the start of the Drill a shift briefing will be conducted, for the operating crew, covering initial conditions and conduct of the drill. Plant Operators, participating in the drill, will be dispatched to the plant with controllers to take the place of on-shift plant operators for drill purposes only. Communication systems in the Simulator will be cross-connected with the rest of the plant.
3. The drill will commence with a postulated condition necessitating the declaration of an emergency classification and escalate to require further emergency classification declarations.
4. Drill participants will perform, as required, radiological monitoring and dose assessment activities as identified in the Section 2.0 Objectives. Radiological field monitoring teams will be dispatched in order to evaluate response time, communications and monitoring procedures.
5. As drill conditions warrant the following onsite participants and facilities will be staffed and activated, the Onshift Emergency Organization (Normal shift personnel), Technical Support Center, Operations Support Center, Emergency Operations Facility (Blue team Emergency Response personnel).
6. The Joint Information Center will be staffed and activated. Offsite participants from STPEGS will be pre-staged at the Joint Information Center to allow for the maximum amount of play. Participation by members of the news media will be simulated. News bulletins will be made which depict simulated drill events. However, no drill press bulletins will be made to the public.
7. Operational and Radiological data are generated by the simulator which is cross connected to the Technical Support Center, Operations Support Center (41' RCA access control), and the Emergency Operations Facility to simulate ICS and RM-11 systems currently installed in those areas.

3.0 GUIDELINES

B. PLANT / PERSONNEL SAFETY

1. Personnel will NOT manipulate any plant equipment (valves, breakers, controls) in response to the Drill, except for equipment mock-ups or components specifically agreed upon by management before hand (for example, PASS samples).
2. Personnel will NOT take any actions that jeopardize personnel safety. Take immediate action to restore safe operation if an unsafe condition exists.
3. Personnel will NOT enter any areas which are contaminated, potentially contaminated, airborne or high radiation areas. ALARA practices will be maintained during the Drill.
4. Actions that would jeopardize the operation of the units, will not be taken.
5. Actions that would violate permit requirements such as Breach / Impairment of Fire Barriers (block open Fire or Security Doors), Breach of Control Room HVAC Envelope, or violation of Radiation Work Permits etc., will not be taken.
6. In the event an actual emergency occurs during the conduct of the Drill, personnel are to notify the Control Room using ext. 911. Then, as soon as possible, notify the lead controller in your facility or the Drill Coordinator.
 - a. In the event of an actual fire report, the operating shift will provide the initial response.
 - b. In the case of an actual medical emergency, the operating shift will provide the initial response until relieved.
 - c. Qualified drill participants and controllers can be directed to support the real Shift Supervisor in response to the actual emergency.
 - d. The Drill Coordinator will control time out activities in the facilities due to the real emergency, and determine if suspension or termination of the drill is required.
7. If the decision is made to suspend the Drill, any and all communications links will be used to notify the appropriate personnel of the real emergency.
8. The Lead Controller in each facility will be advised if any unsafe condition exists.
9. Drill personnel will observe all radiological controls. All personnel who enter the RCA must have the appropriate radiation worker qualifications.

3.0 GUIDELINES

10. Controllers will specify any actions that are to be simulated.

C. COMMUNICATIONS / NOTIFICATIONS

1. All radio and telephone communications will be preceded and followed by the phrase "THIS IS A DRILL".
2. All required notifications will be made to:
 - a. The NRC using the "Drill Emergency Communications Directory." In the simulator, Emergency Response Data System (ERDS) activation will be simulated.
 - b. The State and County will be notified via the "Drill Emergency Communications Directory." The notification form will be faxed to all locations using the broadcast mode, including the onsite Phone Cell. Any drill documentation transmitted via facsimile machine will have the word "Drill" stamped on them prior to transmittal
3. Use of plant Alarms (Fire Alarm, Assembly and Accountability) will be preceded by announcing "THIS IS A DRILL" over the plant PA.
4. Calls to outside vendors will be made for initial contact. No services will be requested. Participants will clarify that the notification is for "Drill Only" and no work or service is being requested. If the vendor is willing to provide information, the necessary information will be obtained such as response capability, response time, delivery time and cost.
5. Other calls for offsite assistance will be made as specified in the "Drill Emergency Communications Directory."

D. PLANT ACTIVITIES

1. All actions will be performed as realistically as possible. Emergency teams will be dispatched in accordance with procedures and a controller will be with the teams. Actions required by Plant Operating Procedures and Emergency Plan Implementing Procedures will be carried out to the extent possible, unless otherwise directed by the drill controllers.
2. Assume all systems function as designed unless told otherwise by control messages or a controller.

3. Only information provided in the scenario will be used.
 - a. Controllers will provide data in the location the information would normally be available. (e.g. RM-11 data available at MEAB 41' RCA Access Control Point).
 - b. If a failure of the Simulator occurs, and the Simulator can not be recovered in a reasonable period of time, backup data sheets will be available and posted in appropriate locations. Selected parameters and readings will be provided. The selected information will be sufficient to make the necessary decisions or action required by Drill participants.
 - c. There will be a Drill controller at each defined location. Controllers will provide information and clarification of data to keep the Drill progressing in accordance with the scenario. Since all possible participant reactions to the simulated drill events can not be anticipated, individual Controllers may initiate simulated situations to preserve the continuity of the overall scenario timeline without prior approval of the Lead Controller. However, individuals are prohibited from creating real or simulated situations which are not provided for in the scenario package and may affect the timeline without prior approval of the Lead Controller.
4. Drill participants will respond to all scenario events as if they were real unless directed otherwise by a controller.
5. Drill Tag outs will not be hung in the operating plant. Tag outs will be posted in the simulator.
6. Equipment and tools normally used to do a job will be obtained and brought to the work location unless it poses a safety hazard to the plant or participants..
7. All required repair parts should be located and obtained in the warehouse, unless directed otherwise by a Drill controller.
8. Mockups of equipment and/or areas may be established to simulate actual equipment and/or inaccessible areas. Participant actions in these simulated areas will be performed as if these conditions actually existed.
9. If samples are deemed necessary they will actually be collected and their analysis conducted unless otherwise directed by a controller. If a decision is made to use the Post Accident Sampling System (PASS) those sampling activities will be simulated from the PASS room.

GUIDELINES

10. Controllers will specify during the course of the Drill any actions that are to be simulated. For example, if the decision to issue Potassium Iodide (KI) is made onsite, all preparations will be conducted, however personnel will not ingest KI.
11. Portable fire extinguishers or other sealed canisters will not have the seals broken or safety pins removed in response to the postulated scenario events, except when specifically required by instructions provided in the scenario package.
12. The use of protective clothing will not be simulated by the drill participants in the plant.
13. The Offsite Field Monitoring teams so as not to unnecessarily alarm members of the general public will simulate the use of protective clothing.
14. SCBA's will be donned, as required by the scenario conditions, however, after initial fitting on the face, the masks may be removed for safety considerations.
15. The use of silver zeolite cartridges when taking air samples will be simulated. Charcoal cartridges will be provided by the drill controllers for use in the air samplers.

E. ASSEMBLY AND ACCOUNTABILITY

1. If assembly and accountability is ordered, it will be conducted in accordance with 0ERP01-ZV-IN04 and site non-essential personnel will be assembled in designated assembly areas. Once accountability procedures have been completed, a page announcement will allow the assembled personnel to return to their normal workstations.
2. Site evacuation will be simulated.

F. DOCUMENTATION

1. Emergency plan action logs and procedure checklists will be used by participants to record events during the Drill. These should be collected by the appropriate administrative personnel at the end of the Drill and turned over to the Facility Lead Controller.