

**CONFIDENTIAL
DRILL INFORMATION**

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
1992 EMERGENCY RESPONSE GRADED EXERCISE OBJECTIVES

Submitted by: Malone Date: 8 Jan 1992
Manager, Emergency Response

Approved by: [Signature] Date: 1/9/92
Group Vice President, Nuclear

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1992 EMERGENCY RESPONSE GRADED EXERCISE
OBJECTIVES

2.0 OBJECTIVES

The 1992 Emergency Response Graded Exercise will be conducted to demonstrate the ability of the South Texas Project Electric Generating Station (STPEGS), State, County, and local agencies to effectively implement their respective Radiological Emergency Response Plans. Implementation of these plans must insure the protection of the Public Health and Safety in the event of a major radiological accident. Additionally the exercise will provide training for each Emergency Response Organization. Accordingly, the following objectives have been developed:

2.1 STPEGS OBJECTIVES

A. ASSESSMENT AND CLASSIFICATION

- 1) Demonstrate the ability to detect and assess initiating conditions which warrant Emergency Classification.
(CR, TSC, EOF) (I.1, I.2)
- 2) Demonstrate the ability to determine which Emergency Action Levels (EALs) are applicable for the existing plant conditions and properly classify the emergency.
(CR, TSC, EOF) (D.1, D.2)

B. NOTIFICATION AND COMMUNICATIONS

- 1) Demonstrate the ability to correctly complete the Offsite Agency Notification Form.
(CR, TSC, EOF) (E.3)
- 2) Demonstrate the ability to complete notifications to State and County within fifteen (15) minutes of declaring an Emergency Classification.
(CR, TSC, EOF) (E.1, E.3, F.1)
- 3) Demonstrate the ability to correctly complete NRC Form 361, Event Notification Worksheet.
(CR, TSC, EOF) (E.1)
- 4) Demonstrate the ability to notify the Nuclear Regulatory Commission (NRC) immediately after the State and County and not later than one (1) hour of the Emergency Classification.
(CR, TSC, EOF) (F.1, 10CFR50.72[3])

B. NOTIFICATION AND COMMUNICATIONS (Con't)

- 5) Demonstrate the ability to periodically (approximately hourly) update State and County agencies.
(CR, TSC, EOF) (E.4)
- 6) Demonstrate the capability to identify and request support from organizations capable of providing assistance with critical plant problems.
(TSC, EOF) (B.7, B.8)
- 7) Demonstrate the capability to maintain an open-line of communication on the Emergency Notification System (ENS) if requested by the NRC.
(CR) (F.1)
- 8) Demonstrate the capability to maintain communication on the Health Physics Network (HPN) if requested by the NRC.
(TSC, EOF) (*)
- 9) Demonstrate the ability to periodically (at least hourly) update the NRC.
(CR, TSC, EOF) (*)
- 10) Demonstrate the ability to notify Emergency Response Organization (ERO) personnel via pager, autodialer or public address system.
(CR, Security) (E.2)
- 11) Demonstrate the ability to requisition, acquire and transport emergency equipment and supplies needed to support the plant emergency response.
(CR, OSC, TSC, EOF) (B.7, B.8)
- 12) Demonstrate effective communications between emergency facilities.
(CR, OSC, TSC, EOF) (F.1)
- 13) Demonstrate the ability of the ERO to provide accurate and timely information to the Media Information Center (MIC).
(CR, TSC, EOF) (*)

C. EMERGENCY FACILITIES

- 1) Demonstrate the ability to staff and activate the onsite Technical Support Center (TSC) and Operations Support Center (OSC) within approximately sixty (60) minutes of the declaration of an Alert Emergency Classification.
(TSC, OSC) (A.1, A.2, A.3, A.4, B.5, E.2, H.4)

C. EMERGENCY FACILITIES (Con't)

- 2) Demonstrate the ability to partially staff the Emergency Operations Facility (EOF) within approximately sixty (60) minutes of the Alert classification.
(EOF) (A.1, A.2, A.4, B.5, E.2, H.4)
- 3) Demonstrate the ability to staff and activate the Emergency Operations Facility within approximately sixty (60) minutes of the declaration of a Site Area Emergency or General Emergency classification.
(EOF) (A.1, A.2, A.4, B.5, E.2, H.4)
- 4) Demonstrate the ability to staff and activate the MIC within four (4) hours of the Site Area Emergency classification
(MIC) (A.3, A.4, B.5, G.3, G.4, H.4)
- 5) Demonstrate the ability to maintain correct and current information on status boards.
(TSC, OSC, EOF) (B.1)
- 6) Demonstrate the ability to transfer responsibility from one emergency response team to another.
(TSC, OSC, EOF) (B.3)

D. EMERGENCY DIRECTION AND CONTROL

- 1) Demonstrate the ability to transfer emergency direction authority from the Control Room to the TSC and the TSC to the EOF.
(CR, TSC, EOF) (B.1, B.2, B.3)
- 2) Demonstrate the ability to prioritize emergency response activities.
(CR, TSC, EOF) (*)
- 3) Demonstrate the ability to properly brief and dispatch the Environmental Field Teams.
(EOF) (I.7, I.8)
- 4) Demonstrate the ability to direct Environmental Field Teams activities.
(EOF) (I.7, I.8)
- 5) Demonstrate the ability to control access to the Owner Controlled Area and the Protected Area
(TSC, EOF, SAS) (K.6)
- 6) Demonstrate the ability to coordinate emergency response information with offsite agencies.
(CR, TSC, EOF) (E.1, E.2, E.3, E.4, E.5, E.6, E.7)

D. EMERGENCY DIRECTION AND CONTROL (Con't)

- 7) Demonstrate the ability of Emergency Response Facility Management to provide briefings on activities in progress.
(CR, TSC, OSC, EOF) (*)
- 8) Demonstrate the ability to coordinate and effectively interface with State and NRC Protective Response Team representatives assigned to the onsite emergency facilities.
(TSC, EOF) (A.3, B.9, F.1.f)
- 9) Demonstrate the ability to form, brief, dispatch and debrief Emergency Response Teams.
(OSC) (K.1)
- 10) Demonstrate the ability to adequately prepare and brief personnel for entry into very high radiation areas.
(OSC) (K.2, K.3, K.4)
- 11) Demonstrate the ability to maintain periodic contact with Emergency Response Teams to provide updates of plant conditions and receive status of Team activities.
(OSC, EOF) (F.1)
- 12) Demonstrate the ability to maintain accountability of personnel assigned to Emergency Response Facilities.
(CR, OSC, TSC, EOF) (J.5)

E. RADIOLOGICAL ASSESSMENT, PROTECTIVE ACTIONS AND ENVIRONMENTAL MONITORING

- 1) Demonstrate the ability to identify and trend important plant radiological data.
(TSC, OSC, EOF) (I.1, I.2)
- 2) Demonstrate the ability to collect and document all radiological surveys taken.
(CR, TSC, OSC, EOF) (I.2)
- 3) Demonstrate the ability to take appropriate protective actions for onsite personnel including administration of Potassium Iodide (KI) pills.
(TSC, OSC, EOF) (J.1, J.6.c, J.10.e)
- 4) Demonstrate the ability to assemble and account for all personnel inside the Protected Area within thirty (30) minutes of sounding the Assembly Alarm.
(CR, TSC, SAS) (J.5)

E. RADIOLOGICAL ASSESSMENT, PROTECTIVE ACTIONS AND ENVIRONMENTAL MONITORING (Con't)

- 5) Demonstrate the ability to issue and administratively control dosimetry.
(CR, TSC, OSC, EOF) (J.3, K.2, K.3)
- 6) Demonstrate the ability to establish radiological controls in the Emergency Response Facility.
(CR, OSC, TSC, EOF) (J.3, K.2, K.3, K.6)
- 7) Demonstrate the ability to conduct habitability surveys in the Emergency Response Facility.
(CR, OSC, TSC, EOF) (K.2)
- 8) Demonstrate the ability to monitor, track and document radiation exposure for Emergency Response personnel.
(CR, OSC, TSC, EOF) (K.1, K.2, K.3, NUREG-0737, 8.1)
- 9) Demonstrate the ability to perform offsite dose projections.
(EOF) (I.1, I.2, I.3, I.6, I.8, I.10, I.11)
- 10) Demonstrate the ability to determine appropriate Protective Action Recommendations (PARs) for the public and to notify offsite authorities within 15 minutes of a PAR declaration by the Emergency Director.
(CR, TSC, EOF) (E.3, E.4, E.6, E.7, J.7)
- 11) Demonstrate the ability to modify PAR's due to wind shifts or changes in source term and notify offsite authorities within 15 minutes of a PAR change declaration by the Emergency Director.
(CR, TSC, EOF) (E.4, I.5)
- 12) Demonstrate the ability to perform decontamination of radioactively contaminated individuals.
(OSC) (J.5, K.5, NUREG-0737, 8.3)
- 13) Demonstrate the ability to collect Reactor Coolant System (RCS) and/or Containment Atmosphere samples using the Post Accident Sample System (PASS).
(OSC) (I.2, I.3 NUREG-0737, 8.2)
- 14) Demonstrate the ability to analyze RCS and/or Containment Atmosphere samples.
(OSC) (I.2, I.3)
- 15) Demonstrate the ability to perform core damage assessment.
(TSC) (I.2, I.3, NUREG-0737, 8.2)

E. RADIOLOGICAL ASSESSMENT, PROTECTIVE ACTIONS AND ENVIRONMENTAL MONITORING (Con't)

- 16) Demonstrate the ability to collect field samples in accordance with field sampling procedures.
(Field Teams) (H.6, I.7, I.8, I.9, N.2.d)
- 17) Demonstrate the ability to perform field sample analysis in accordance with field sampling procedures.
(Field Teams) (H.6, I.8, I.9, I.10)
- 18) Demonstrate the ability to document, and assess field sample results.
(EOF) (I.12)

F. FIRST AID ACTIONS

- 1) Demonstrate the ability to respond to a contaminated and injured person.
(OSC) (J.5, L.2, L.4, J.4, NUREG-0737, 8.4)
- 2) Demonstrate the ability to properly coordinate First Aid activities with offsite responders (i.e., ambulance crews and hospitals).
(CR, TSC) (B.9, F.2, L.1, L.2, L.3, L.4, NUREG-0737, 8.6)

G. RELOCATION OBJECTIVES

- 1) Demonstrate the ability to identify and designate essential personnel at the assembly areas.
(TSC) (*)
- 2) Demonstrate the ability to coordinate a site evacuation and interface with offsite authorities.
(TSC, OSC) (B.9, J.2, J.3, J.4, J.10)

H. PUBLIC INFORMATION

- 1) Demonstrate the ability to effectively respond to media requests with correct information.
(MIC) (G.4)
- 2) Demonstrate the ability to prepare and issue accurate press releases in a timely manner.
(CR, TSC, EOF, MIC) (E.5, E.6, E.7, G.4.b)
- 3) Demonstrate the ability to quickly notify the media of fast breaking significant events and provide timely follow-ups.
(CR, TSC, EOF, MIC) (E.6, G.4.b)

H. PUBLIC INFORMATION (Con't)

- 4) Demonstrate the ability to effectively use visual aids to support media briefing information.
(MIC) (*)

I. RECOVERY

- 1) Demonstrate the ability to identify the criteria to enter a Recovery Classification and obtain concurrence with the State, County and NRC Protective Response Team to enter Recovery.
(TSC, EOF) (M.1)
- 2) Demonstrate the ability to develop a list of repair activities and required resources necessary for the recovery effort.
(OSC, TSC, EOF) (M.2)
- 3) Demonstrate the ability to interface with, and coordinate planning for the recovery effort with the State, County, and NRC Protective Response Team. (EOF) (M.1)

J. CONDUCT OF THE EXERCISE

- 1) Demonstrate the ability to perform all actions as realistically and to the fullest extent possible within the listed limitations of the Exercise.
(N.1)
- 2) Demonstrate the ability to conduct a post exercise critique. (N.4)

* Not an NRC regulatory requirement but selected by the STPEGS Emergency Response Division for evaluation.

2.2 STATE AND LOCAL OBJECTIVES

STATE AND LOCAL OBJECTIVES FOR THE 1992
STPEGS GRADED EXERCISE

FEMA EXERCISE OBJECTIVE NUMBER & TEXT	NUREG-0654 REFERENCE	JURISDICTIONAL RESPONSIBILITY		LOCATION (See Note A)
		State	Local	
1. Demonstrate the ability to monitor, understand and use emergency classification levels (ECL) through the appropriate implementation of emergency functions and activities corresponding to ECL's as required by the scenario. The four ECL's are: Notification of Unusual Event, Alert, Site Area Emergency and General Emergency.	D.3, D.4	X	X	ALL
2. Demonstrate the ability to fully alert, mobilize and activate personnel for both facility and field-based emergency functions. (See note B).	E.1, E.2	X	X	ALL
3. Demonstrate the ability to direct, coordinate and control emergency activities.	A.1.d, A.2.a	X	X	1,2,3,4
4. Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.	F. (not F.1.f)	X	X	ALL
5. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.	G.3.a, H.2.3	X	X	1,2,3,4,5

STATE AND LOCAL OBJECTIVES FOR THE 1992
STPEGS GRADED EXERCISE

FEMA EXERCISE OBJECTIVE NUMBER & TEXT	NUREG-0654 REFERENCE	JURISDICTIONAL RESPONSIBILITY		LOCATION (See Note A)
		State	Local	
6. Demonstrate the ability to continuously monitor and control emergency worker exposure.	K.3.a, K.3.b	X	X	1,4,7,8, 9,10,12,13
7. Demonstrate the appropriate equipment and procedures for determining field radiation measurements.	I.8, I.11	X		7
8. Demonstrate the appropriate equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} microcurie per cc in the presence of noble gases.	I.9	X		7,8
9. Demonstrate the ability to obtain samples of particulate activity in the airborne plume and promptly perform laboratory analyses. (New Objective)	I.10	X		7,8
10. Demonstrate the ability, within the plume exposure pathway, to project dosage to the public via plume exposure, based on plant and field data.	I.10	X		4
11. Demonstrate the ability to make appropriate protective action decisions, based on projected or actual dosage, EPA PAC's, availability of adequate shelter, evacuation time estimates and other relevant factors.	J.10.m	X	X	1,4

STATE AND LOCAL OBJECTIVES FOR THE 1992
STPEGS GRADED EXERCISE

FEMA EXERCISE OBJECTIVE NUMBER & TEXT	NUREG-0654 REFERENCE	JURISDICTIONAL RESPONSIBILITY		LOCATION (See Note A)
		State	Local	
12. Demonstrate the ability to initially alert the public within the 10-mile EPZ and begin dissemination of an instructional message within 15 minutes of a decision by appropriate State and/or local officials(s).	E.6		X	1
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.	E.5, G.4.b	X	X	1,2,3,4,5,14
14. Demonstrate the ability to brief the media in an accurate, coordinated and timely manner.	G.3.a, G.4.a	X	X	5
15. Demonstrate the ability to establish and operate rumor control in a coordinated and timely fashion.	G.4.c	X	X	5
16. Demonstrate the ability to make the decision to recommend the use of KI to emergency workers and institutionalized persons, based on predetermined criteria, as well as to distribute and administer it once the decision is made, if necessitated by radioiodine releases.	J.10.e, J.10.f	X	X	1,4,6,7,9

STATE AND LOCAL OBJECTIVES FOR THE 1992
STPEGS GRADED EXERCISE

FEMA EXERCISE OBJECTIVE NUMBER & TEXT	NUREG-0654 REFERENCE	JURISDICTIONAL RESPONSIBILITY		LOCATION (See Note A)
		State	Local	
18. Demonstrate the ability and resources necessary to implement appropriate protective actions for the impacted permanent and transient plume EPZ population (including transit-dependant persons, special needs populations, handicapped persons and institutionalized persons).	J.10.d J.10.g J.10.h		X	1
19. Demonstrate the ability and resources necessary to implement appropriate protective actions for school children within the plume EPZ.	J.9 J.10.g		X	1
20. Demonstrate the organizational ability and resources necessary to control evacuation traffic flow and to control areas to evacuate sheltered areas.	J.10.j J.10.k		X	1,9
21. Demonstrate the adequacy of procedures, facilities, equipment and personnel for the registration, radiological monitoring and decontamination of evacuees.	J.12	X	X	12
22. Demonstrate the adequacy of facilities, equipment and personnel for congregate care of evacuees.	J.10.h	X	X	12

STATE AND LOCAL OBJECTIVES FOR THE 1992
STPEGS GRADED EXERCISE

FFMA EXERCISE OBJECTIVE NUMBER & TEXT	NUREG-0654 REFERENCE	JURISDICTIONAL RESPONSIBILITY		LOCATION (See Note A)
		State	Local	
23. Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured or exposed individuals.	L.4		X	10
24. Demonstrate the adequacy of medical facilities, equipment, procedures and personnel for handling contaminated, injured or exposed individuals.	L.1		X	10
25. Demonstrate the adequacy of facilities, equipment, supplies, procedures and personnel for decontamination of emergency workers, equipment and vehicles and for waste disposal.	K.5.a, K.5.b	X	X	12
26. Demonstrate the ability to identify the need for and call upon Federal and other outside support agencies' assistance.	C.1.a C.1.b C.1.c C.4	X	X	1,2,3
33. Demonstrate the ability to maintain staffing on a continuous 24 hour basis by an actual shift change.	A.1.e, A.4		X	12
34. Demonstrate the ability to coordinate the evacuation of onsite personnel.	B.6, J.2		X	1,9,12

Notes:

- A. The locations where various exercise objectives are to be demonstrated are indicated by numerical codes as follow:

<u>CODE</u>	<u>TEAM ELEMENT OR FACILITY NAME</u>	<u>LOCATION</u>
1.	Matagorda County EOC	Sheriff's Office, Bay City
2.	State EOC	DPS Headquarters, Austin
3.	Disaster District Sub 2A EOC	DPS District Office, Pierce
	STPEGS EOF	STPEGS Plant Site, Matagorda County
5.	Media Information Center	Matagorda Inn, Bay City
6.	BRC Staging Area	Convention Center, Bay City
7.	Various Field Monitoring Teams	10-Mile EPZ
8.	BRC ERV and Mobile Laboratory	Adjacent to the BRC Staging Area
9.	Access Control Point(s)	10-Mile EPZ
10.	Ambulance Service (Palacios)	Palacios Area Emergency Medical Services
11.	Wagner General Hospital	Palacios
12.	Reception Center (Palacios)	Palacios Field House
13.	Vehicle Decontamination Facility	Designated Car Wash, Palacios
14.	Emergency Broadcast Station	KMKS

- B. State and MIC teams will be pre-positioned. Deployment will not be delayed to simulate travel time from normal duty stations.
- C. Procedures and/or activities performed at Wagner General Hospital will not be evaluated by FEMA during the conduct of this Exercise.
- D. FEMA objectives numbers 17 and 27 through 32 are not required to be demonstrated during the course of this exercise.