

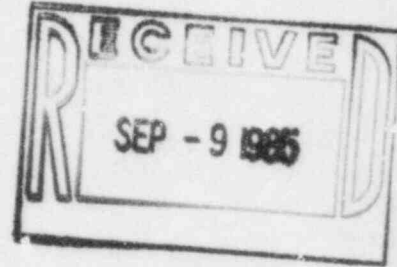


KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

September 3, 1985

Mr. R.D. Martin, Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



KMLNRC 85-211
Re: Docket No. STN 50-482
Ref: Letter dated 02/09/85 from JTCollins, NRC,
to GLKoester, KG&E
Subj: Emergency Preparedness Field Exercises
Objectives and Guidelines

Dear Mr. Martin:

Per the NRC instructions in the Reference, transmitted herewith
is the Wolf Creek Generating Station 1985 Emergency Preparedness
Field Exercises Objectives and Guidelines.

Yours very truly,

Glenn L. Koester

GLK:bb
Enc.
xc:PO'Connor (2), w/a
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KANSAS GAS AND ELECTRIC COMPANY
WOLF CREEK GENERATING STATION

1985 EMERGENCY PREPAREDNESS
FIELD EXERCISE

2.0 OBJECTIVES AND GUIDELINES

Subsections:

Objectives 2.1
Guidelines 2.15

EXERCISE OBJECTIVES

As a result of discussions between Kansas and Electric Company (KG&E), the State of Kansas, the Nuclear Regulatory Commission (NRC), the Federal Emergency Management Agency - Region VII (FEMA), and Coffey County, the following objectives have been developed for the 1985 Emergency Preparedness Field Exercise.

The objectives are organized by functional response area, pertaining to all participating organizations.

I. KANSAS GAS AND ELECTRIC COMPANY

A. Notification, Mobilization and Activation

1. Demonstrate the ability to notify and mobilize the KG&E emergency response organization in a timely manner.
2. Demonstrate the ability to staff emergency response facilities for activation.
3. Demonstrate the ability to activate the Technical Support Center (TSC), the Operations Support Center (OSC), the Emergency Operations Facility (EOF), the Information Clearinghouse (IC), the Media Release Center (MRC), the Home Office Emergency Center (HOEC) and the General Office (GO) in a timely manner.
4. Demonstrate the ability to initiate emergency response activities in an efficient and timely manner.

B. Communications

1. Demonstrate the ability to provide immediate notifications to required Federal, State and County authorities within required time limits.
2. Demonstrate the ability to provide followup notification to required Federal, State and County authorities in a timely manner.
3. Demonstrate the ability to gather and disseminate information regarding the status of the emergency conditions and the status of emergency response activities in a timely manner.
4. Demonstrate the adequacy, operability and effective use of emergency communications equipment.

5. Demonstrate the ability to communicate protective action recommendations to State and County authorities in a timely manner.
6. Demonstrate the ability to inform and update emergency response personnel regarding the status of emergency conditions.
7. Demonstrate the precise and clear transfer of responsibilities for performing immediate and followup notification from the Control Room (CR) to the TSC and ultimately to the EOF.

C. Emergency Response Facilities

1. Demonstrate the functional adequacy of the TSC, OSC, EOF, IC, MRC, HOEC and GO.
2. Demonstrate the functional adequacy of emergency response facility emergency status boards, maps, displays, and associated equipment and supplies to support emergency response operations.

D. Command and Control

1. Demonstrate the ability of the Duty Emergency Manager to maintain command and control of the overall emergency response.
2. Demonstrate the ability of emergency response facility managers to maintain command and control over emergency response activities conducted from their facilities.
3. Demonstrate the ability of all emergency response facility supervisory personnel to provide direction and guidance to their respective staffs.
4. Demonstrate the precise and clear transfer of command responsibilities from the CR to the TSC and ultimately to the EOF.

E. Accident Assessment

1. Demonstrate the ability of the CR to make a timely determination of the cause of the incident, and perform mitigating actions to place the unit in a safe and stable condition.
2. Demonstrate the ability of the CR, TSC, and EOF to classify an emergency condition in a timely manner.

3. Demonstrate the ability of the TSC, EOF and HOEC to analyze current plant conditions, identify projected trends and potential consequences, and provide recommendations for mitigating actions.
4. Demonstrate the ability of the TSC, EOF and HOEC to utilize vendor and/or other outside resources to assist in accident analysis and mitigation efforts.
5. Demonstrate the ability of the TSC, EOF, and HOEC engineering groups to coordinate accident analysis and mitigation efforts.

F. Radiological Assessment

1. Demonstrate the ability of the TSC and EOF to perform dose calculations and offsite dose projections in a timely manner.
2. Demonstrate the ability of the TSC and EOF to coordinate radiological assessment activities.
3. Demonstrate the ability of the EOF to perform and coordinate offsite dose assessment activities with the State of Kansas in a timely manner.
4. Demonstrate the ability to utilize plant Radiation Monitoring System (RMS) information and respond accordingly.
5. Demonstrate the ability of the TSC to request appropriate in-plant surveys from the OSC.
6. Demonstrate the ability of the OSC to dispatch and direct Onsite Survey Teams.
7. Demonstrate the ability of Onsite Survey Team personnel to collect and analyze radiological samples, and to perform dose rate surveys and other prescribed onsite and in-plant radiological monitoring activities.
8. Demonstrate the ability of the OSC to obtain and analyze samples utilizing the post-accident sampling system.
9. Demonstrate the ability of the TSC and EOF to incorporate the results of onsite and offsite dose assessments into the formulation of protective action recommendations.

G. Offsite Radiological Monitoring

1. Demonstrate the ability of the TSC to form, direct and coordinate Offsite Monitoring Team (OMT) personnel activities.

2. Demonstrate the ability of the EOF to form, direct and coordinate Joint Radiological Monitoring Team (JRMT) activities.
3. Demonstrate the ability of the OMT and JRMT personnel to collect and analyze radiological samples, and to perform dose rate surveys, and other prescribed radiological monitoring activities.
4. Demonstrate the ability of the OMT and JRMT personnel to measure airborne radioiodine concentrations as low as 10^{-7} uCi/cc in the presence of noble gas.

H. Protective Response

1. Demonstrate the ability of the CR, TSC and EOF to formulate and implement onsite protective measures.
2. Demonstrate the ability to account for site personnel in a timely manner, including ongoing accountability of TSC, OSC, and EOF personnel.
3. Demonstrate the ability to evacuate non-essential site personnel in an orderly and timely manner.
4. Demonstrate the ability of onsite personnel to respond to and treat a contaminated/injured individual.
5. Demonstrate the ability to coordinate with local agencies in transporting and treating a contaminated/injured individual.
6. Demonstrate the ability to control exposure and the spread of contamination by onsite and offsite emergency workers.
7. Demonstrate the ability to track and evaluate onsite and offsite personnel emergency exposures.
8. Demonstrate the ability to assess CR, TSC, OSC and EOF habitability.
9. Demonstrate the ability of the WCGS Security Organization to effectively control personnel access at the EOF.
10. Demonstrate the decision-making process involved in issuing KI to emergency workers.
11. Demonstrate the ability to augment emergency efforts utilizing outside support organizations.
12. Demonstrate the ability to formulate and recommend offsite protective actions to the State and County.

I. Public Information

1. Demonstrate the ability to gather current data concerning plant status and emergency response efforts for the development of news releases.
2. Demonstrate the ability to prepare and deliver accurate and timely news releases.
3. Demonstrate the ability to coordinate with the State and County public information organizations.
4. Demonstrate the ability to establish and operate rumor control activities.
5. Demonstrate the ability to monitor and report inaccuracies in news media coverage.
6. Demonstrate the ability to coordinate activities among the IC, MRC and GO.

I. Recovery and Reentry

1. Demonstrate the ability to enter into a recovery and reentry operation mode.
2. Demonstrate the ability to activate the recovery and reentry organization.
3. Demonstrate the ability to coordinate with Federal, State and County authorities in the identification of appropriate recovery and reentry activities.
4. Demonstrate the decision-making process involved in supporting long-term offsite environmental monitoring and sampling in conjunction with the Federal, State and County authorities.
5. Demonstrate the decision-making process involved in determining the habitability of affected subzones.
6. Demonstrate the decision-making process involved in providing a safe and stable reactor shut down margin.

K. Evaluation

1. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvement.

II. STATE OF KANSAS

A. Notification, Mobilization and Activation

1. Demonstrate the ability to notify and mobilize the State emergency response organization.
2. Demonstrate the ability to activate the State EOC and State Forward Staging Area.
3. Demonstrate the ability to staff emergency response facilities for initial activation and long-term operation.

B. Communication

1. Demonstrate the ability to communicate with appropriate members of the State, County and KG&E emergency response organizations.
2. Demonstrate the adequacy, operability and effective use of emergency communications equipment.

C. Emergency Response Facilities

1. Demonstrate the functional adequacy of the State EOC and State Forward Staging Area.
2. Demonstrate the functional adequacy of displays, equipment and supplies to support emergency response operations.

D. Command and Control

1. Demonstrate the ability to make decisions and to coordinate emergency activities with the County and KG&E.
2. Demonstrate the ability to identify the need for and request Federal assistance.

E. Radiological Assessment

1. Demonstrate the ability to mobilize and deploy Joint Radiological Monitoring Team members in conjunction with the County and KG&E.
2. Demonstrate the use of appropriate equipment for determining ambient radiation levels.

3. Demonstrate the use of appropriate equipment for measurement of airborne radioiodine concentrations as low as 10^{-7} uCi/cc in the presence of noble gases.
4. Demonstrate the adequacy of equipment and methods for collection, and transport of samples of soil, vegetation, snow, water and milk; as appropriate.

F. Protective Response

1. Demonstrate the ability to project dosage to the general public via plume exposure, based on plant and field data.
2. Demonstrate the ability to determine appropriate protective measures based on Protective Action Guides (PAGs), available shelter, evacuation time estimates, and other appropriate factors.
3. Demonstrate the ability to project dosage to the public via ingestion pathway exposure, based on field data, and to determine appropriate protective measures, based on PAGs and other relevant factors.
4. Demonstrate the ability to implement protective actions for ingestion pathway hazards.
5. Demonstrate the ability to estimate total population exposure.
6. Demonstrate the ability to distribute personnel dosimetry and continuously monitor and control emergency worker exposure.
7. Demonstrate the decision-making ability to establish and maintain access control around the affected subzones.
8. Demonstrate the ability to decide, based on predetermined criteria, whether to issue KI to emergency workers.
9. Demonstrate the ability to coordinate and distribute appropriate instructions to the public in a timely fashion.

G. Public Information

1. Demonstrate the ability to coordinate timely and accurate media releases with the County and KG&E.
2. Demonstrate the ability to provide advance coordination of information released in conjunction with the County and KG&E.
3. Demonstrate the ability to coordinate rumor control in conjunction with the County and KG&E.

H. Recovery and Reentry

1. Demonstrate the ability to coordinate with Federal, County and KG&E authorities in the identification of appropriate recovery and reentry activities.
2. Demonstrate the decision-making process involved in supporting long-term offsite environmental monitoring and sampling in conjunction with Federal, County and KG&E authorities.
3. Demonstrate the decision-making process involved in determining the habitability of affected subzones.

I. Evaluation

1. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvement.

III. COFFEY COUNTY

A. Notification, Mobilization and Activation

1. Demonstrate the ability to notify and mobilize the Coffey County emergency response organization.
2. Demonstrate the ability to activate the County EOC.
3. Demonstrate the ability to staff emergency response facilities for initial activation and long-term operation.

B. Communications

1. Demonstrate the ability to communicate with appropriate members of the State, County and KG&E emergency response organizations.
2. Demonstrate the adequacy, operability and effective use of communication equipment.

C. Emergency Response Facilities

1. Demonstrate the functional adequacy of the County EOC.
2. Demonstrate the functional adequacy of displays, equipment and supplies to support emergency response organizations.

D. Command and Control

1. Demonstrate the ability to make decisions and to coordinate emergency activities with the State and KG&E.
2. Demonstrate the ability to request outside support when local capabilities are exceeded.

E. Radiological Assessment

1. Demonstrate the ability to mobilize and deploy Joint Radiological Monitoring Team members in conjunction with the State and KG&E.
2. Demonstrate the use of appropriate equipment for determining ambient radiation levels.
3. Demonstrate the use of appropriate equipment for measurement of airborne radioiodine concentrations as low as 10^{-7} uCi/cc in the presence of noble gases.

4. Demonstrate the adequacy of equipment and methods for collection, and transport of samples of soil, vegetation, snow, water and milk; as appropriate.

F. Protective Response

1. Demonstrate the ability to determine appropriate protective measures, based on Protective Action Guides, available shelter, evacuation time estimates, and other appropriate factors.
2. Demonstrate the ability to distribute personnel dosimetry and continuously monitor and control emergency worker exposure.
3. Demonstrate the adequacy of ambulance facilities for handling a contaminated/injured individual.
4. Demonstrate the organizational ability and resources necessary to deal with impediments to evacuation such as inclement weather or traffic obstructions.
5. Demonstrate the ability to coordinate an orderly evacuation of the affected subzones.
6. Demonstrate the ability to formulate and distribute appropriate instructions to the public in a timely fashion.
7. Demonstrate the ability to alert the public within the effective 10-mile EPZ, and to disseminate an initial instructional message within 15 minutes after the decision is made to do so.

G. Public Information

1. Demonstrate the ability to coordinate timely and accurate media releases with the State and KG&E.
2. Demonstrate the ability to provide advance coordination of information released in conjunction with the State and KG&E.
3. Demonstrate the ability to coordinate rumor control in conjunction with the State and KG&E.

H. Recovery and Reentry

1. Demonstrate the ability to coordinate with Federal, State and KG&E authorities in the identification of appropriate recovery and reentry activities.

2. Demonstrate the ability to coordinate with Federal, State and KG&E authorities in supporting long-term offsite environmental monitoring and sampling.
3. Demonstrate the ability to coordinate with authorities in determining the habitability of affected subzones.

I. Evaluation

1. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvement.

IV. HOST COUNTY

A. Notification, Mobilization and Activation

1. Demonstrate the ability to notify and mobilize the Registration Center and Congregate Care Center personnel.
2. Demonstrate the ability to activate the Registration Center and the Congregate Care Center.
3. Demonstrate the ability to staff emergency response facilities for initial activation and long-term operation.

B. Communications

1. Demonstrate the ability to communicate with members of the Coffey County Emergency Response Organization in the processing of evacuees.
2. Demonstrate the adequacy, operability and effective use of communication equipment.

C. Command and Control

1. Demonstrate the ability to make decisions and to coordinate emergency activities with the State and Coffey County.

D. Protective Response

1. Demonstrate the ability to monitor evacuees and equipment for radiological contamination.
2. Demonstrate the ability to distribute personnel dosimetry, and continuously monitor and control emergency worker exposure.
3. Demonstrate the ability to monitor and control radiological contamination of evacuees and vehicles at the Registration Center.
4. Demonstrate the adequacy of procedures for registration of evacuees.

E. Recovery and Reentry

1. Demonstrate the ability to coordinate with the State and County in the identification of appropriate recovery activities.

F. Evaluation

1. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvement.

V. RANSOM MEMORIAL HOSPITAL

A. Notification, Mobilization and Activation

1. Demonstrate the ability to activate Ransom Memorial Hospital facilities to receive contaminated/injured individuals.

B. Communications

1. Demonstrate the ability to communicate with appropriate members of the KG&E emergency response organization.

C. Command and Control

1. Demonstrate the ability to make decisions and to coordinate emergency activities with KG&E.

D. Emergency Response Facilities

1. Demonstrate the functional adequacy of the hospital receiving and treatment facilities.
2. Demonstrate the functional adequacy of radiation monitoring equipment and supplies.

E. Protective Response

1. Demonstrate the ability to distribute dosimetry and to continuously monitor emergency worker exposure.
2. Demonstrate the ability to monitor and control radiological contamination within the hospital facilities.

F. Recovery

1. Demonstrate the ability to coordinate with KG&E in the identification of appropriate recovery activities.

G. Evaluation

1. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvement.

EXERCISE GUIDELINES

The following exercise guidelines have been developed to define the extent of "play" by exercise participants to meet the aforementioned exercise objectives:

1. The Field Exercise will be conducted on November 20, 1985.
2. Participants will not possess prior knowledge of the exercise start time.
3. There will be no pre-staging of exercise participants except for Control Room (CR) personnel who will be pre-staged in the WCGS Plant Simulator no later than 0715 on the exercise date. All other personnel should follow their normal routines for that day.
4. Personnel will be notified of emergency conditions through methods normally employed in making notifications, i.e. gaitronic announcements, manual call-outs, etc.
5. Personnel staffing the following emergency response facilities will be participating in the exercise:
 - A. Kansas Gas and Electric Company
 - Control Room (Simulator)
 - Technical Support Center (TSC)
 - Operations Support Center (OSC)
 - Emergency Operations Facility (EOF)
 - Home Office Emergency Center (HOEC)
 - Information Clearinghouse (IC)
 - Media Release Center (MRC)
 - General Office (GO)
 - B. State of Kansas
 - State Emergency Operations Center (State EOC)
 - State Forward Staging Area
 - C. Coffey County
 - Coffey County Emergency Operations Center (County EOC)
 - County Barn
 - Coffey County Ambulance Service
 - D. Host County
 - Registration Center
 - Congregate Care Center

- E. Ransom Memorial Hospital
 - F. Nuclear Regulatory Commission (NRC)
6. The CR will be simulated from the plant simulator. All Communications involving the CR will be duplicated in the simulator. Commercial telephone will be used for the HPN and ENS as necessary.
 7. Exercise play will be driven via the simulator computer. A set of operation scenario messages, "greensheets", will drive exercise play in the event the simulator computer fails.
 8. Radiological data terminals (RM-11), and fire protection panels (KC008) which are not duplicated in the plant simulator, will be simulated.
 9. Both operational and meteorological initial conditions for the exercise will be established prior to commencement of exercise play and will be distributed to the following personnel:
 - a. KG&E System Operators
 - b. Plant Manager
 - c. Shift Supervisor
 - d. Control Room Operators
 - e. Site Health Physicist
 - f. Site Chemist
 - g. Onsite Security Shift Lieutenant
 - h. Maintenance Crews
 10. Exercise play will commence with a postulated plant condition necessitating the declaration of an emergency at WCGS.
 11. Activation of the plant siren will be accomplished through the actual control room upon requests from operators in the simulator.
 12. Plant gaitronics will be functional from the simulator to the site. The phrase, "This is a drill", must begin and end emergency messages from the simulator in response to scenario events.
 13. Participation by KG&E onsite personnel directly involved in responding to an emergency shall be carried out to the fullest extent possible. Dispatch of emergency response personnel in the power block will be limited to the following:
 - a. Onsite Survey Teams
 - b. Emergency Repair and Damage Control Teams
 - c. Search and Rescue Teams
 - d. First Aid Teams
 - e. Security Teams
 14. The postulated accident conditions may warrant the assembly and evacuation of non-essential site personnel. If required by the exercise scenario, the site evacuation alarm will be sounded, and

accountability and evacuation of a small sample of site personnel will be performed. Following completion of accountability and evacuation activities, non-essential site personnel will be allowed to return to the site.

15. Exercise players should perform, as appropriate, radiological monitoring and dose assessment activities.
16. Alternate means of accessing the plant shall merely be simulated and not actually implemented.
17. Three Joint Radiological Monitoring Teams and one Onsite Survey Team should be dispatched for the purpose of testing response time, communications, and monitoring/sampling procedures. Field samples should be gathered and prepared for transport for analysis.
18. Each radiological monitoring field team will be accompanied by a controller/evaluator team throughout the exercise. Each field team will rendezvous with its controller/evaluator team at the location at which it obtains emergency kits. The rendezvous locations are as follows:
 - a. OSC (Onsite Survey Team/Offsite Monitoring Team)
 - b. EOF (Joint Radiological Monitoring Team)
19. The phrase, "This is a drill", must begin and end all radio transmissions performed in response to scenario events.
20. Exercise play may require the decontamination of offsite equipment or vehicles. This should be accomplished at the EOF decontamination facility.
21. Members of the press may be invited to participate in the exercise. However, they will be identified and their extent of "play" will be limited to questions regarding the exercise events. Questions regarding items such as the success of the exercise will not be addressed.
22. Procedures for the activation of the Alert and Notification System should be demonstrated up to, and including siren activation.
23. Emergency Broadcast System (EBS) announcements should be prepared and passed to the appropriate station, but not released to the general public.
24. The postulated accident conditions may necessitate the evacuation of the affected offsite population. If required by the exercise scenario, the evacuation will be simulated. However, a sample population may be available for in-processing and monitoring at a Registration Center.
25. If the exercise scenario requires that any personnel working for an organization not participating in the exercise be contacted, they shall be contacted for the purpose of checking communications only.