

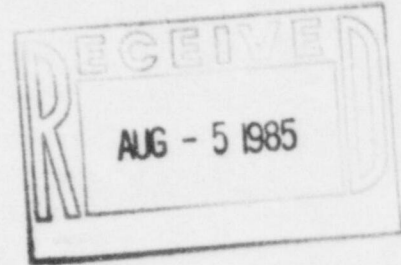


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NLS8500197

August 1, 1985



50-298

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

Subject: Cooper Nuclear Station Emergency Exercise Objectives

Reference: Letter from J. T. Collins(USNRC) to J. M. Pilant(NPPD)
dated February 9, 1984, subject: Exercise Submission Dates.

Dear Mr. Martin:

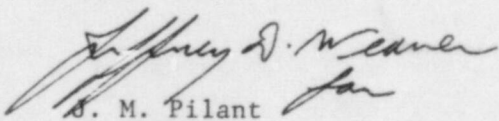
In accordance with the milestones outlined in the referenced letter, Nebraska Public Power District (NPPD) is hereby submitting the exercise objectives for the 1985 Cooper Nuclear Station Emergency Preparedness Exercise which has been scheduled for October 16, 1985. In developing the objectives for the 1985 exercise, we have attempted to address areas which will evaluate the capabilities of the NPPD Emergency Response Organization as well as the lessons learned from the 1984 exercise. The objectives provided herein were developed in conjunction with the states of Nebraska and Missouri and are believed to represent exercise areas which will satisfy the intent of 10CFR50.47, 10CFR50 Appendix E and NUREG 0654, FEMA-REP-1, Revision 1.

The objectives defined for NPPD are listed in Attachment 1; and, those defined for the states of Nebraska and Missouri are listed in Attachments 2 and 3, respectively.

A joint agency meeting to discuss the attached objectives has been scheduled for August 20, 1985. This meeting will be held at the Federal Emergency Management Agency (FEMA) Region VII office at 911 Walnut Street, Kansas City, Missouri. The exact time of the meeting will be determined at a later date and your office will be so advised.

If you should have any questions or comments regarding the enclosed objectives, please contact me.

Sincerely,


J. M. Pilant

Manager, Technical Staff
Nuclear Power Group

ACM/rg

cc: E. L. Jordan - UGNRC
P. J. Brehney - FEMA Region VII

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**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
1985 EMERGENCY PREPAREDNESS EXERCISE PROGRAM
EXERCISE OBJECTIVES**

The Cooper Nuclear Station (CNS) 1985 Emergency Preparedness Exercise Program objectives are based on the Nuclear Regulatory Commission (NRC) requirements delineated in 10CFR50.47 and 10CFR50, Appendix E. Additional guidance provided in NUREG-0654, FEMA-REP-1, Revision 1, NUREG-0696 and NUREG-0737 Supplement 1 was also utilized in developing these objectives.

The major objective of the Exercise is to evaluate the integrated capability of a major portion of the basic elements existing within the onsite and offsite emergency plans and emergency response organizations. The specific objectives of the exercise to be demonstrated are listed below.

1. Demonstrate the activation, and operation of emergency response facilities, including the Control Room, Technical Support Center, Operations Support Center, Emergency Operations Facility, Media Release Center and Alternate Emergency Operations Facility.
2. Demonstrate the reliability and effective use of emergency communications equipment and procedures.
3. Demonstrate proficiency in recognizing and classifying emergency conditions.
4. Demonstrate the notification of Federal, State, local, corporate, and plant emergency response personnel.
5. Demonstrate the ability to coordinate the available emergency response resources of NPPD, state and local organizations.
6. Demonstrate the ability to perform dose calculations utilizing radiological and meteorological information to determine the magnitude of, and for continuously assessing the impact of, the release of radioactive materials to the environment.
7. Demonstrate the transition of responsibilities between emergency facilities as a result of escalating accident classification.
8. Demonstrate knowledge of Protective Action Guides (PAGs), the recommendation of protective actions to offsite authorities, and determination of the subsequent implementation of protective actions by offsite agencies.
9. Demonstrate the capability to obtain and analyze samples utilizing the post-accident sampling system.

10. Demonstrate the mobilization of onsite and offsite radiological monitoring teams and the appropriate use of equipment, procedures, and communication to effectively track the plume.
11. Demonstrate the capability of offsite radiological monitoring teams to collect sample media.
12. Demonstrate the ability to perform site assembly, maintain accountability and evacuate as appropriate.
13. Demonstrate the ability to monitor and control emergency worker exposure within the plant.
14. Demonstrate adequate equipment and procedures for decontamination of emergency workers and equipment, as required.
15. Demonstrate the capability to obtain, coordinate and assemble emergency information for timely dissemination to the public via the media.
16. Demonstrate the capability of the NPPD spokesperson to reply to inquiries of both a technical and political nature.
17. Demonstrate the capability of NPPD IAC personnel to respond directly to (simulated) input from the public concerning real versus rumored events occurring at Cooper Nuclear Station or within the 10 mile EPZ.
18. Demonstrate the ability to plan recovery operations and identify the need for additional resources.
19. Demonstrate decision-making and coordination with offsite agencies in de-escalating and terminating the emergency and in planning re-entry to evacuated areas.

The exercise will have partial participation from the State of Nebraska and full-scale participation by the State of Missouri. The warning system sirens and EBS notifications for the emergency planning zone will not be activated during the exercise.

NEBRASKA STATE OBJECTIVES
**COOPER NUCLEAR POWER PLANT
EXERCISE OBJECTIVES**

Objectives of the Exercise

Test the Cooper Nuclear Power Plant Emergency Plan to include:

1. Interface with offsite government agencies
2. Initial notification to State government
3. Coordination of dose assessment activities
4. Public warning interface
5. Jointly conducted public information
6. Recovery and reentry activities

The following State support capabilities as listed in the Nebraska Radiological Emergency Response Plan for Nuclear Power Plant Incidents will be tested.

1. Activation of staff with subsequent deployment and operation of the State Field Command Post to include local and long-range communications. If plant scenario permits, test relocation of State Field Command Post to support local government implementation of appropriate protective actions. Participation of Nebraska State Patrol BLUEBIRD will be simulated.
2. Notification and follow-up contacts with State, Federal, and private agencies having responsibilities described in the Nebraska Plan.
3. Operational status and functioning of State EOC as well as coordination with agencies and field elements. Includes State EOC interstate coordination. With the exception of the Health Department, Agency representation at the State EOC will be simulated. State EOC will implement appropriate protective actions as approved by the Governor and/or the Governor's Authorized Representative.
4. State field radiological monitoring activities, offsite dose assessment, and coordination of protective action recommendations with Governor's Authorized Representative and State EOC. Coordination will also be effected with the utility and Missouri. This will include timely mobilization, deployment and operation of State field radiological monitoring teams as well as management of team activities, appropriate briefings and information flow. Field monitoring team equipment and communications capabilities will also be demonstrated. State aerial radiological monitoring missions to roughly track and define the parameters of the airborne plume as well as transport samples to the State Lab will be simulated.
5. Decision-making provisions for the use and distribution of radioprotective drugs for emergency workers.

6. The collection and transport of samples to the State Laboratory in Lincoln may be simulated. Timely processing of samples and other techniques at the State Laboratory will be demonstrated.
7. State EOC coordination of simulated Federal technical and non-technical support under the Federal Radiological Emergency Preparedness Plan (FREPP), including message flow and simulated support by such agencies as NRC, DOE, FEMA.
8. State CD support of the jointly operated Information Authentication Center (IAC) and Media Release Center (MRC). Demonstrate IAC coordinated dissemination of information simulated through the EBS. Operations at the MRC will include news media briefings as well as the appropriate use of zone designators/local terms in briefing media and the State of Nebraska use of visual displays for briefing and operations. The transmission of selected emergency information by means of portable data terminals will also be demonstrated. Rumor Control functions at the IAC and MRC will be tested.
9. Support for and supervision of two decontamination stations; one at Auburn for emergency workers and the other at Nebraska City for evacuees.
10. State and local communication including primary and supporting capabilities.
11. Decision-making and coordination for reentry and recovery.
12. State's capability to provide and distribute sufficient dosimetry to include self-reading and permanent record devices (TLDs) for the initial distribution to emergency workers operating in radiation areas. Most TLDs used during the exercise will be simulated. Actual TLDs will be available for inspection at the State EOC.

The following local support capabilities, as listed in appropriate local plans, will be demonstrated:

1. Initial notification receipt and alerting of key people.
2. Communications and coordination with all involved agencies.
3. Activation and staffing of local Emergency Operating Center (EOC) and appropriate use of Emergency Classifications.
4. Coordinated access control and security decision-making by selected law enforcement agencies.
5. Increased readiness measures for potential operations at Nebraska City/Otoe County relocation center. This facility will be operated on a training basis but will be subject to observation.
6. Decontamination station operations at Auburn to support emergency workers will be demonstrated.

7. Demonstrate capability to activate public alerting system and provide an informational message to the public within 15 minutes. Actual activation of alerting system and EBS will be simulated. However, preparation and handling of public notification messages will be demonstrated. (The public alert and notification procedures will be accomplished during the FEMA 43 test, to be conducted on 17 October 85.)
8. Coordination with IAC/MRC where appropriate concerning local public information activities. Demonstrate capability to define hazard area by referencing local landmarks.
9. Provision of fire and rescue support as required by plant. Transport and reception of simulated radiation casualty to the Nemaha County Hospital by a local Rescue Squad.
10. Decision-making and coordination planning for recovery and reentry.
11. The Nebraska City/Otce County reception registration and decontamination activities in support of Nemaha County evacuees will be operated on a training basis but will be subject to observation.
12. Demonstrate effective system for distribution and record keeping of dosimetry - to include permanent record devices (TLDs).
13. Demonstrate timely communication and coordination with community facilities for mobility impaired, disabled, etc. that may require special actions such as early notification or other support functions.
14. Decision-making will be demonstrated to simulate and control allocation of local resources, and determine need for State support as necessary.
15. Decision-making will be demonstrated to simulate allocation of appropriate support for the evacuation of the public with special needs, if required.

See Missouri scenario for objectives and other exercise information.

MISSOURI STATE OBJECTIVESEmergency Operations Center

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate adequacy of facilities and displays to support emergency operations.
5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
6. Demonstrate ability to identify need for, request, and obtain Federal assistance.

Forward Command Post

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate adequacy of facilities and displays to support emergency operations.
5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
6. Demonstrate ability to project dosage to the public via plume exposure, based on plant and field data, and to determine appropriate protective measures, based on PAG's, available shelter, evacuation time estimates, and other appropriate factors.
7. Demonstrate ability to project dosage to the public via ingestion pathway exposure, based on field data, and to determine appropriate protective measures based on PAG's and an other relevant factors (NUREG-0654, I.10, J.11).
8. Demonstrate ability to alert the public within the 10-mile EPZ, disseminate an initial instructional message within 15 minutes.

9. Demonstrate ability to formulate and distribute appropriate instructions to the public in a timely fashion.
10. Demonstrate the organizational ability and resources necessary to control access to an evacuated area (NUREG-0654, J.10.j).
11. Demonstrate the ability to continuously monitor and control emergency worker exposure.
12. Demonstrate the ability to make the decision, based on predetermined criteria, whether to issue KI to emergency workers and/or the general population.
13. Demonstrate the ability to supply and administer KI, once the decision has been made to do so.
14. Demonstrate ability to provide advance coordination of information released.
15. Demonstrate ability to identify need for, request, and obtain Federal assistance.
16. Demonstrate ability to determine and implement appropriate measures for controlled recover and reentry.

Information Authentication Center

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate adequacy of facilities and displays to support emergency operations.
4. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
5. Demonstrate the ability to continuously monitor and control emergency worker exposure.
6. Demonstrate ability to provide advance coordination of information released.

Dose Assessment

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.

3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
5. Demonstrate ability to mobilize and deploy field monitoring teams in a timely fashion.
6. Demonstrate appropriate equipment and procedures for determining ambient radiation levels.
7. Demonstrate appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10^{-7} uCi/cc presence of noble gases.
8. Demonstrate appropriate equipment and procedures for collection, transport and analysis of samples of soil, vegetation, snow, water and milk.
9. Demonstrate ability to project dosage to the public via plume exposure, based on plant and field data, and to determine appropriate protective measures, based on PAG's, available shelter, evacuation time estimates, and other appropriate factors.
10. Demonstrate ability to project dosage to the public via ingestion pathway exposure, based on field data, and to determine appropriate protective measures based on PAG's and any other relevant factors (NUREG-0654, I.10, J.11).
11. Demonstrate the ability to continuously monitor and control emergency worker exposure.
12. Demonstrate the ability to make the decision, based on predetermined criteria, whether to issue KI to emergency workers and/or the general population.
13. Demonstrate adequate equipment and procedures for decontamination of emergency workers, equipment and vehicles (NUREG-0654. K.5.a,b).

Field Monitoring

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate adequacy of facilities and displays to support emergency operations.

5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
6. Demonstrate the ability to continuously monitor and control emergency worker exposure.

Media Release Center

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate adequacy of facilities and displays to support emergency operations.
5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
6. Demonstrate ability to brief the media in a clear, accurate and timely manner.
7. Demonstrate ability to provide advance coordination of information released.

Medical

1. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
2. Demonstrate adequacy of ambulance facilities and procedures for handling contaminated individuals.
3. Demonstrate adequacy of hospital facilities and procedures for handling contaminated individuals.

MISSOURI COUNTY OBJECTIVES

Atchison

1. Demonstrate ability to mobilize staff and activate facilities promptly.
2. Demonstrate ability to fully staff facilities and maintain staffing around the clock.
3. Demonstrate ability to make decisions and to coordinate emergency activities.
4. Demonstrate adequacy of facilities and displays to support emergency operations.
5. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
6. Demonstrate appropriate equipment and procedures for determining ambient radiation levels.
7. Demonstrate appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10^{-7} uCi/cc presence of noble gases.
8. Demonstrate ability to alert the public within the 10-mile EPZ, disseminate an initial instructional message within 15 minutes.
9. Demonstrate ability to formulate and distribute appropriate instructions to the public in a timely fashion.
10. Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the plume EPZ (NUREG-0654, J.9, J.10.g).
11. Demonstrate the organizational ability and resources necessary to control access to an evacuated area (NUREG-0654, J.10.j).
12. Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of mobility-impaired individuals within the plume EPZ (NUREG-0654, J.10.d).
13. Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of schools within the plume EPZ (NUREG-0654, J.9, J.10.g).
14. Demonstrate the ability to continuously monitor and control emergency worker exposure.

15. Demonstrate the ability to make the decision, based on predetermined criteria, whether to issue KI to emergency workers and/or the general population.
16. Demonstrate the ability to supply and administer KI, once the decision has been made to do so.
17. Demonstrate ability to provide advance coordination of information released.
18. Demonstrate adequate equipment and procedures for decontamination of emergency workers, equipment and vehicles (NUREG-0654, K.5.a,b).
19. Demonstrate ability to determine and implement appropriate measures for controlled recover and reentry.

Nodaway

1. Demonstrate adequacy of procedures for registration and radiological monitoring of evacuees (NUREG-0654, J.12).