

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
EMERGENCY PLAN EVALUATION EXERCISE
March 13, 1984

Rev. 0

NORTHERN STATES POWER COMPANY

SECTION II: EXERCISE OBJECTIVES & GUIDELINES

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II. EXERCISE OBJECTIVES & GUIDELINES

As a result of coordination between Northern States Power and the following agencies: Minnesota Division of Emergency Services and Department of Health, Wisconsin Division of Emergency Government and Department of Health and Social Services; guidelines have been developed for the conduct of the exercise scheduled to be conducted on March 13, 1984 to reflect capabilities of the various participating organizations to meet the objectives set forth below:

A. Exercise Objectives

1. For the NSP (Licensee) Emergency Response Organization:
 - a. Demonstrate proficiency in classifying the emergency condition.
 - b. Demonstrate efficient and effective notification and alerting procedures and methods.
 - c. Demonstrate the ability of the NSP Emergency Response Organization to maintain command control.
 - d. Demonstrate precise and clear transfer of responsibilities from the On-site Emergency Organization to the Corporate Emergency Response Organization.
 - e. Demonstrate the ability of the NSP Emergency Response Organization to maintain continuity of command control throughout the drill.
 - f. Demonstrate protective measures considered, determined and used to protect station personnel and the general public.
 - g. Demonstrate reliability and effective use of emergency communications equipment, and communications procedures and methods.
 - h. Demonstrate capability to evaluate and produce public information releases in the best interests of all concerned.
 - i. Demonstrate the ability to perform radiological monitoring and assessments, and off-site dose assessment projections necessary to provide advance warning to local, State, and Federal agencies, and to the general public.
 - j. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional capability improvements.

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A. Exercise Objectives (con't)

- k. Demonstrate the physical adequacy of the various NSP emergency response facilities for individual member working space and communications usage.
 - l. Demonstrate the primary functional responsibilities and/or problem solving capabilities of the NSP Emergency Response Organization.
 - m. Demonstrate recovery techniques in the ability of the NSP Emergency Response Organization to de-escalate (deactivate) corporate and site emergency response activities and the general public.
 - n. Demonstrate the ability of the NSP Emergency Response Organization to integrate its activities with those of the other participating emergency response organizations (City, County, and State).
2. *For the various off-site emergency response organizations (NSP, City, County, and State).
- a. Demonstrate ability to mobilize staff and activate facilities promptly.
 - b. Demonstrate ability to fully staff facilities and maintain staffing around the clock (Wisconsin only).
 - c. Demonstrate ability to make decisions and to coordinate emergency activities.
 - d. Demonstrate adequacy of facilities and displays to support emergency operations.
 - e. Demonstrate ability to communicate with all appropriate locations, organizations, and field personnel.
 - f. Demonstrate ability to mobilize and deploy field monitoring team(s) in a timely fashion.
 - g. Demonstrate appropriate equipment and procedures for determining ambient radiation levels.
 - h. Demonstrate appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10^{-7} $\mu\text{Ci}/\text{CC}$ in the presence of noble gases.

*The objectives for the off-site emergency response organization have been selected from a list of 35 objectives identified in the memorandum from Dave McLoughlin, Deputy Associate Director, State and Local Programs and Support, FEMA National, to the FEMA Regional Directors dated August 5, 1983 and titled; Procedural Policy on Radiological Preparedness Plan Reviews, Exercise Observations and Evaluation and Interim Findings.

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- i. Demonstrate appropriate equipment and procedures for collection, transport and analysis of samples of soil, vegetation, snow, and water. (Minnesota - snow only)
- j. Demonstrate ability to determine projected dose 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 all other appropriate factors.
- k. Demonstrate ability to alert the public within the 10-mile EPZ, and disseminate an initial instructional message, within 15 minutes.
- l. Demonstrate ability to formulate and distribute appropriate instructions to the public, in a timely fashion.
- m. Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the plume EPZ.
- n. Demonstrate the organizational ability and resources necessary to deal with impediments to evacuation, as inclement weather or traffic obstructions.
- o. Demonstrate the organizational ability and resources necessary to control access to an evacuated area.
- p. Demonstrate the ability to continuously monitor and control emergency worker exposure.
- q. Demonstrate ability to brief the media in a clear, accurate and timely manner.
- r. Demonstrate ability to provide advance coordination of information released.
- s. Demonstrate ability to establish and operate rumor control in a coordinated fashion.
- t. Demonstrate adequacy of procedures for registration and radiological monitoring of evacuees.
- u. Demonstrate adequacy of facilities for mass care of evacuees.
- v. Demonstrate adequate equipment and procedures for decontamination of emergency workers, equipment and vehicles (NSP only).
- w. Demonstrate ability to identify need for, request, and obtain Federal assistance (Minnesota only).
- x. Demonstrate ability to estimate total population exposure.

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- y. Demonstrate ability to determine and implement appropriate measures for controlled recovery and reentry.

C. Exercise Guidelines

To define the "extent of play" by the exercise participants and meet the exercise objectives, the following exercise guidelines have been developed:

1. The exercise will be conducted on March 13, 1984. Since exercise participants will not possess prior knowledge of the exercise time, all personnel should follow their normal routines for the day.
2. The exercise will commence with a postulated plant condition necessitating escalation through at least three (3) emergency action levels.
3. The postulated accident conditions will result in a simulated radiological release which necessitates the consideration of protective actions for the general public. Meteorological conditions will be varied throughout the exercise.
4. This exercise may include sheltering and/or evacuation to a reception and care facility as required by the Scenario. In-processing and monitoring of evacuees may be conducted. Once completed, the evacuees would be released. Highway barricade material may be deployed to positions in accordance with plan directives; however, highways shall not be closed.
5. Exercise participants will perform, as appropriate, radiological monitoring, dose assessment, and sampling activities.
6. NSP radiological monitoring field teams will be dispatched for the purpose of testing response time, communications, and monitoring and sampling procedures. The field teams will gather sample media and simulate routing such samples to the appropriate laboratory facilities for analysis. State radiological monitoring field team(s) will communicate data on monitoring and sampling to appropriate officials.

Each NSP radiological monitoring field team will be accompanied by a controller/evaluator team throughout the exercise. Each NSP field team will rendezvous with its controller/evaluator team at the location at which it obtains its emergency kits. The rendezvous locations are as follows:

NSP Construction Office Building - Prairie Island

NOTE: The Monticello Plant survey teams will come with their controllers on the day of the exercise. They will meet drivers at the Prairie Island ECF.

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7. All of NSP's on-site and off-site emergency response facilities, and the County's EOC's, will be manned and perform their prescribed functions. Minnesota EOC will be fully staffed to support the county exercises with certain state agency operations simulated. The state of Wisconsin will fully activate state EOC's in support of county EOC's.
8. The Joint Public Information Center (JPIC) located at the Minnesota State Capitol in St. Paul, MN will be manned and perform its prescribed functions. Members of the press in the Twin Cities area will be identified and invited to participate in the exercise.

Simulated releases will be prepared by the Minnesota and Wisconsin Public Information Officers and NSP Communications Department and will be released at the JPIC. In addition, there will be exercise press releases issued at Pierce County and Red Wing/Goodhue County Press Rooms. Exercise press releases may be made to the public.
9. As appropriate, Emergency Broadcast Station (EBS) announcements should be prepared and passed to the appropriate stations, but not released to the general public with one exception described below in Item 10.
10. As appropriate, procedures for the activation of the PANS will be demonstrated up to but not including siren activation. This includes message preparation for the NOAA and EBS networks but no transmission of alert signal nor instructional message. In addition to simulating mobile alerting, public safety vehicles will traverse at least one sector in the 5-10 mile zone.
11. The postulated accident conditions may warrant the assembly and evacuation of non-essential site personnel. If required by the exercise scenario, the site emergency alarm should be sounded and personnel assembled. However, once on-site assembly and accountability procedures have been completed, non-participating personnel should be allowed to return to their normal work stations. Procedures for the evacuation of non-essential site personnel should be simulated.
12. Participation by NSP on-site personnel directly involved in responding to an emergency shall be carried out to the fullest extent possible, including the deployment of radiological monitoring teams, emergency maintenance teams, and other emergency workers.
13. Exercise participants will include the following organizations:
 - a. Northern States Power Company
 1. On-site Emergency Organization
 2. Corporate Emergency Response Organization

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- a. Emergency Operations Facility Organization
- b. Headquarters Emergency Organization
- b. Goodhue, MN, Dakota, MN, Pierce WI, and Dunn, WI Counties and all supporting local agencies, as identified in the Minnesota Nuclear Power Plant Emergency Response Plan and Wisconsin Peacetime Radiological Emergency Response Plan, will participate in a full-capacity.
- c. The State of Minnesota will participate in a small-scale capacity. Many of the State agency actions, as identified in the State of Minnesota Radiological Emergency Response Plan, will be simulated.
- d. The State of Wisconsin will participate in a full scale capacity, as identified in the State of Wisconsin Peacetime Radiological Emergency Response Plan, unless it receives prior written assurance from FEMA, Region V by or before January 30, 1984 that the successful completion of its exercise with the Kewaunee Nuclear Power Plant now makes it eligible for biennial exercising at all nuclear power plants for which it is responsible. If that assurance is provided, Wisconsin will participate in a small scale capacity.
- e. The NRC will participate in the exercise.

Active participation in the exercise will only be required of the above-listed organizations. If the exercise scenario requires that any other organizations and/or officials be contacted, they shall be contacted for the purpose of checking communications only. Other Federal responses to an emergency, including those of the Dept. of Energy Radiological Assistance Program and the Department of Energy, shall be simulated.

14. If required by the exercise scenario, alternate means of accessing the plant shall merely be simulated and not actually implemented. However, on-site security personnel should exercise their procedures for restricting normal access to the site without actually redirecting incoming and outgoing personnel.

No other live or simulated events are currently intended for use in the exercise.