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SUBJECT: Informs that util is submitting encl scope & objectives for  
 991026 DC Cook Nuclear Plant emergency plan exercise to G  
 Shear of NRC Plant Support Branch. Exercise will include full  
 state & county participation.

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August 6, 1999

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U. S. Nuclear Regulatory Commission  
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Donald C. Cook Nuclear Plant Units 1 and 2  
1999 EMERGENCY PLAN EXERCISE SCOPE AND OBJECTIVES

This letter is to inform you that we are submitting the scope and objectives for the October 26, 1999, Cook Nuclear Plant emergency plan exercise to Mr. Gary Shear of your Plant Support Branch. This action is in accordance with A. B. Davis' NRC-Region III March 16, 1987, letter and FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual".

The October 26, 1999, exercise will include full state and county participation.

The exercise will be conducted using the unit 2 simulator and the simulated technical support center in the Cook Nuclear Plant training center. Controller information and simulation data are also being developed to provide backup for the exercise in the event of simulator equipment problems.

Also, in accordance with FEMA-REP-14, sixty days in advance of the exercise we will submit the complete exercise scenario package with all controller information and simulation data, including plant data, radiation level data, and release rate data.

Sincerely,

R. P. Powers  
Senior Vice President

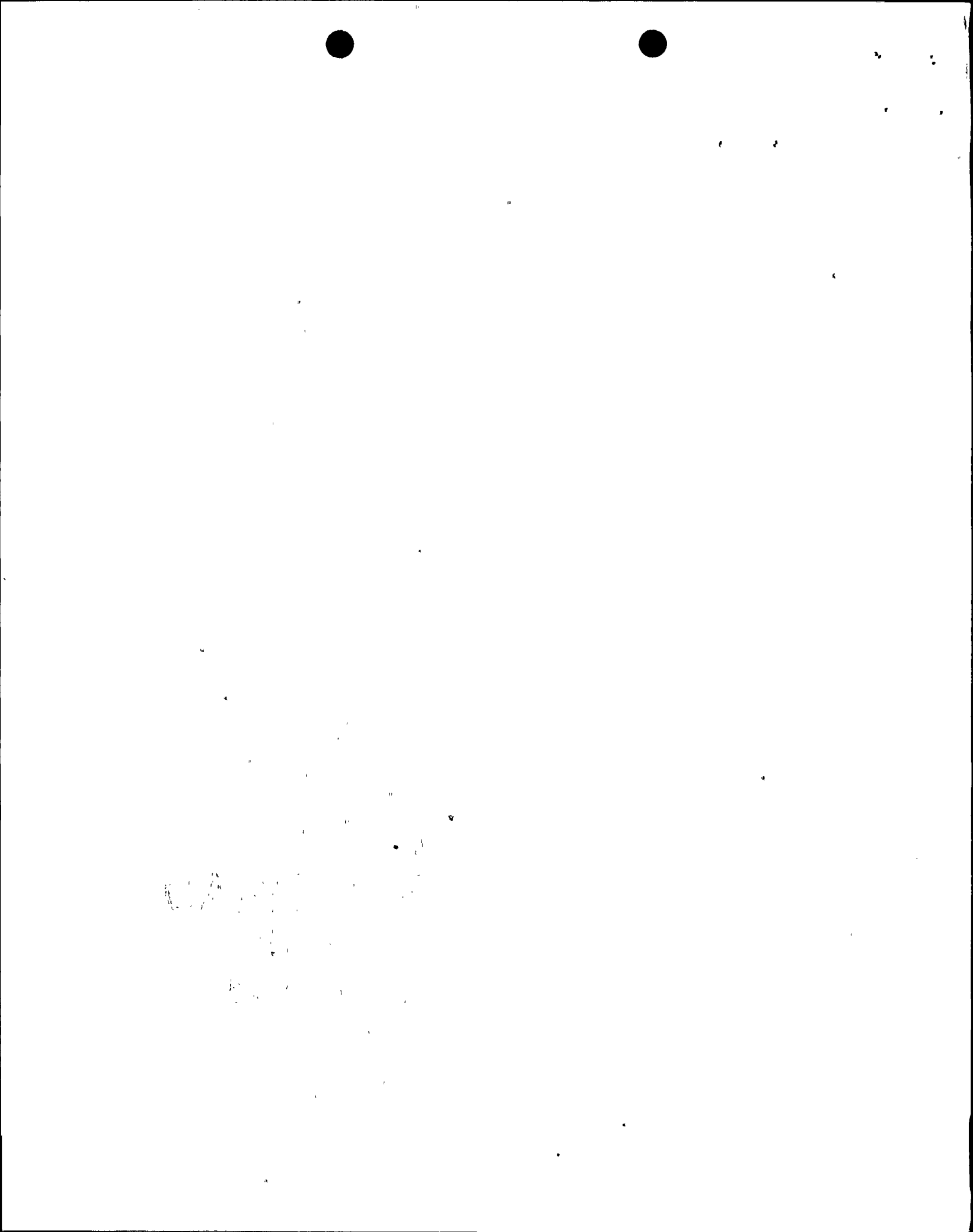
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c: A. C. Bakken, III, w/attachment  
J. E. Dyer, w/attachment  
Gary Shear, Chief Plant Support Branch, Region III  
MDEQ-DW & RPD  
NRC Resident Inspector



DONALD C. COOK NUCLEAR PLANT  
1999  
EMERGENCY RESPONSE EXERCISE

I. SCOPE

In the interest of verifying that the health and safety of Plant staff, Plant visitors and the general public are protected in the event of an accident at the Cook Nuclear Plant, American Electric Power conducts an annual plant emergency response exercise. In accordance with the schedule prescribed by the Nuclear Regulatory Commission (NRC) and the Federal Emergency Management Agency (FEMA), the 1999 emergency exercise will be conducted as a day shift exercise.

Exercise events will begin in the plant's UNIT 2 simulator at approximately 0830 on October 26, 1999 initiating the mobilization of Cook Nuclear Plant, Berrien County, and State of Michigan emergency response personnel. The plant site simulated Technical Support Center (TSC) and Operations Staging Area (OSA); Emergency Operations Facility (EOF) at the Buchanan Office; and the Joint Public Information Center (JPIC) at Lake Michigan College will all be activated in response to the simulated emergency events. A full State and County response will also result from these simulated events. Exercise termination is expected to take place at approximately 1400 on October 26, 1999.

The intent of the exercise is to demonstrate that these various emergency response organizations (EROs) are adequately trained to implement their corresponding emergency plans and procedures from their respective emergency response facilities (ERFs). It will also serve to demonstrate their ability to effectively communicate with each other and coordinate their activities.

The scenario has been designed to provide ample opportunity for all participating organizations to meet their objectives. It progresses through the appropriate emergency classifications in such a way that sufficient time is spent at each classification to allow objective-related decision making and actions to take place. However, scenario events have been created and paced to challenge the responders' ability to make timely and accurate emergency declarations; damage assessments and protective action recommendations and orders.

EOF and onsite exercise activities will be observed and evaluated by American Electric Power Nuclear Generation and NRC personnel. Offsite activities will be observed and evaluated by Federal Emergency Management Agency (FEMA) personnel the State of Michigan and the County of Berrien.



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Name	Address
John Doe	123 Main St
Jane Doe	456 Main St
John Doe	789 Main St

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## SECTION II

### EXERCISE OBJECTIVES



DONALD C. COOK NUCLEAR PLANT  
1999  
EMERGENCY RESPONSE EXERCISE

II. EXERCISE OBJECTIVES

The exercise objectives dictate the scope of the scenario. The objectives for this exercise were developed based upon the Donald C. Cook Nuclear Plant (DCCNP) Emergency Plan Administrative Manual.

Situations will be presented in the scenario to prompt the desired player response for each objective. Where appropriate, specific objectives and criteria for adequate demonstration will be included in the exercise messages for Controller/Observer use.

A. OVERALL LICENSEE OBJECTIVES

1. Demonstrate the ability of the emergency response organization to implement DCCNP Emergency Plan Procedures, and the AEP Emergency Response Manual.
2. Demonstrate the ability to establish emergency management command and control, and maintain continuity of this function for the duration of the postulated event.
3. Demonstrate the ability to establish communications and information flow between DCCNP emergency response facilities and participating offsite agencies.
4. Demonstrate the ability to designate subsequent shifts of the emergency response organization.
5. Demonstrate the ability to provide adequate control of the exercise to maintain scenario continuity; provide accurate and timely information; and appropriate instructions to exercise participants.<sup>1</sup>

B. CONTROL ROOM OBJECTIVES

1. Demonstrate the ability to recognize symptoms and parameters indicative of degrading plant conditions and to classify degraded conditions as emergencies.
2. Demonstrate the ability to initiate notification of offsite authorities and plant personnel.
3. Demonstrate communications and information flow to and from the Technical Support Center.

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<sup>1</sup> Objectives added to close out Inspection Follow-up Item (IFI 50-315-03; 316/97013-03)

4. Demonstrate the ability to transfer emergency authorities and responsibilities from the on-shift emergency organization to the DCCNP emergency response organization.
5. Demonstrate the duties of the Control Room Emergency Organization as described in procedure OHI-2080.

C. TECHNICAL SUPPORT CENTER OBJECTIVES

1. Demonstrate the ability to activate the facility within one hour of declaration of an emergency requiring facility activation.
2. Demonstrate the ability to provide analytical assistance and operational guidance to the Control Room.
3. Demonstrate the ability to coordinate onsite activities in response to the emergency.
4. Demonstrate the ability to establish and maintain hard copy communications with the EOF and verbal communications with the EOF, OSA, and JPIC.
5. Demonstrate the ability to provide analytical radiological assistance to the OSA and Control Room.
6. Demonstrate the ability to obtain data from the Plant Process Computer.
7. Demonstrate the ability to request emergency response teams from the OSA.
8. Demonstrate the ability to evaluate the results of TSC/OSA habitability surveys and assess the need to evacuate these facilities.
9. Demonstrate the ability to recognize degrading plant conditions and classify plant conditions as an emergency.
10. Demonstrate the ability to direct the implementation of site assembly, accountability and evacuation.
11. Demonstrate the ability to evaluate site evacuation routes and determine an appropriate route based on indicated radiological and meteorological conditions.
12. Demonstrate the actions required to be taken in the TSC if the emergency involves a breach of the reactor coolant system.

D. OPERATIONS STAGING AREA OBJECTIVES

1. Demonstrate the ability to activate the facility within one hour of declaration of an emergency requiring facility activation.

2. Demonstrate the ability to assemble, brief, and dispatch, within an average time of 20 minutes or less after being requested, the following emergency response teams:
  - a. Damage Control
  - b. Chemistry Sampling
  - c. On-site Radiation Monitoring
  - d. Off-site Radiation Monitoring
3. Demonstrate the ability to designate a second shift for OSA operation.
4. Each emergency response team assembled and dispatched shall demonstrate the following actions as applicable to the team type and mission:
  - a. Assembly of tools/equipment;
  - b. Pre-operation checks of equipment and communications devices;
  - c. Performance of appropriate radiological precautions;
  - d. Performance or simulation of team mission;
  - e. Post-mission debriefing and radiological controls.
5. Demonstrate the ability to provide emergency radiological support. As a minimum, the following activities should be demonstrated:
  - a. Establishment of emergency dosimetry and exposure tracking system;
  - b. Determination and establishment (if necessary) of emergency control points;
  - c. Performance of habitability surveys prescribed by procedure;
  - d. Analysis of radiological conditions to be encountered by emergency response teams;
  - e. Specification of radiological controls and precautions for emergency response teams.
6. Demonstrate the ability to perform offsite radiological monitoring. As a minimum, two teams should be dispatched and direct radiation monitoring as well as airborne radioactivity analysis should be demonstrated.
7. Demonstrate the ability to implement damage control activities in accordance with applicable Emergency Plan Procedures.
8. Demonstrate the ability to perform onsite radiological monitoring in accordance with applicable Emergency Plan Procedures. This monitoring should include direct radiation surveys and analysis of airborne radioactivity samples.



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1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order.

2. The second part of the document is a list of the topics which were discussed at the meeting. The topics are listed in alphabetical order.

3. The third part of the document is a list of the actions which were taken at the meeting. The actions are listed in alphabetical order.

4. The fourth part of the document is a list of the persons who were responsible for the actions taken at the meeting. The persons are listed in alphabetical order.

5. The fifth part of the document is a list of the persons who were responsible for the actions taken at the meeting. The persons are listed in alphabetical order.

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2. The second part of the document is a list of the topics which were discussed at the meeting. The topics are listed in alphabetical order.

9. Demonstrate the ability to obtain post accident samples from one of the following mediums and complete appropriate chemical and isotopic analysis within three hours of the sample request.
  - a. RCS Loop
  - b. Containment Sump
10. Demonstrate proper Controller's actions in the OSA during the exercise.<sup>1</sup>

E. EMERGENCY OPERATIONS FACILITY OBJECTIVES

1. Demonstrate the ability to activate the facility within one hour of declaration of an emergency requiring facility activation.
2. Demonstrate the ability to establish overall command and control of the DCCNP emergency response within one hour of declaration of a site area emergency or higher classification, as applicable.
3. Demonstrate the ability to establish and maintain effective emergency communications with each of the following agencies and facilities:
  - a. State of Michigan
  - b. Berrien County (Simulated)
  - c. NRC (Simulated)
  - d. Technical Support Center
  - e. Joint Public Information Center
4. Demonstrate the ability to establish and maintain hard copy data transmission and reception with each of the following facilities:
  - a. Technical Support Center
  - b. Joint Public Information Center
  - c. State of Michigan EOC
5. Demonstrate the ability to direct Offsite Radiation Monitoring Teams in order to determine the geographical location and radiological magnitude of the postulated plume.
6. Demonstrate the ability to update the State of Michigan on the status of the emergency at 15 minute intervals.
7. Demonstrate the ability to respond to inquiries from the TSC, JPIC, and State of Michigan in a timely manner.
8. Demonstrate the ability to project the magnitude of offsite dose using the Dose Assessment Program.

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<sup>1</sup>Objectives added to close out Inspection Follow-up Item (IFI 50-315-03; 316/97013-03)

9. Demonstrate recovery planning associated with the emergency termination.
10. Demonstrate the ability to designate a second shift for EOF operations.

F. PUBLIC AFFAIRS OBJECTIVES

1. Demonstrate activation of the Joint Public Information Center.
2. Demonstrate the ability to conduct media briefings.
3. Demonstrate the ability to respond to actual or simulated inquiries from media representatives.
4. Demonstrate the ability of rumor control personnel to respond to simulated inquiries from the general public.
5. Demonstrate the ability to monitor media transmissions and respond to inaccurate information being transmitted by the media.
6. Demonstrate coordination of news announcement content with State, County and Federal authorities.



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