



Nebraska Public Power District
Nebraska's Energy Leader

NLS2001091
October 2, 2001

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

Subject: Emergency Plan Implementing Procedure
Cooper Nuclear Station, NRC Docket 50-298, DPR-46

Pursuant to the requirements of 10 CFR 50, Appendix E, Section V, "Implementing Procedures," Nebraska Public Power District is transmitting the following Emergency Plan Implementing Procedure (EPIP):

EPIP 5.7.2 Revision 15 "Shift Supervisor EPIP"

Should you have any questions concerning this matter, please contact me.

Sincerely,

P. A. Hays
Acting Emergency Preparedness Manager

/nr

Enclosures


cc: Regional Administrator w/enclosures (2)
USNRC - Region IV

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A-045

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.2 SHIFT SUPERVISOR EPIP	USE: REFERENCE  EFFECTIVE: 9/18/01 APPROVAL: SORC OWNER: R. J. FISCHER DEPARTMENT: EP
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1. PURPOSE

This procedure provides a series of actions to be taken by the Shift Supervisor upon declaration of an Emergency Classification. Personnel shall be directed to use additional procedures to adequately respond to an emergency event.

2. REQUIREMENTS

- [] 2.1 A Emergency has been declared per Procedure 5.7.1.

3. INITIAL ACTIONS

- [] 3.1 The Shift Supervisor, immediately following classification of an emergency, shall declare to the Control Room Staff the classification. He shall include in the announcement the time of the classification and the EAL on which the classification is based per Procedure 5.7.1.
- [] 3.2 The Shift Supervisor shall initially assume the role of the Emergency Director and announce this to the Control Room Staff. He shall remain Emergency Director until relieved by another qualified Emergency Director.

- [] **NOTE** - If a threat to personnel safety exists (i.e., weather, security threat, radiological release) or personnel accountability has already been completed, Attachment 3, Emergency Announcement Without Accountability, is used.©
- [] 3.3 The Emergency Director shall ensure one of the following emergency announcements is made over the station Gaitronics at each emergency classification to notify station personnel of the emergency and initiate personnel assembly and accountability per Procedure 5.7.10.
 - [] 3.3.1 If initial accountability has not been previously performed, and is required or warranted, complete Attachment 2 of this procedure and proceed with announcement.
 - [] 3.3.2 If initial accountability has been previously performed, or is not required or warranted, complete Attachment 3 of this procedure and proceed with announcement.
- [] 3.4 The Emergency Director should ensure the CNS Automated Notification System (ANS) is activated immediately after the emergency declaration per Procedure 5.7.6, Attachment 4. The Emergency Director may request assistance in activation of the system from Shift Communicator, Shift Technical Engineer, or Emergency Preparedness Coordinator. A description of the CNS Automated Notification System can be found in Procedure 5.7.22. If after two unsuccessful attempts, the CNS ANS is discovered to be inoperable (i.e., no Control Room personnel pagers are activated), use the backup method of ERO pager activation found in Procedure 5.7.6, Attachment 5.
- [] 3.5 The Emergency Director shall ensure initial notification to responsible state and local governmental agencies is completed within 15 minutes of each declaration of an emergency class, including any class escalation, per Procedure 5.7.6.
- [] 3.6 The Emergency Director shall make a Protective Action Recommendation (PAR) as part of the Initial Notifications and Follow-Up to responsible state and local governmental agencies, even if the PAR is "None". Guidance for making PARs is contained in Procedure 5.7.20.
 - [] 3.6.1 If appropriate, perform a dose calculation per Procedure 5.7.17 to determine PAR.
 - [] 3.6.1.1 The automatic minimum PAR for a GENERAL EMERGENCY is evacuation of 2 mile radius and 5 miles downwind of the site and go indoors and monitor EAS/EBS for the remainder of the 10 mile Emergency Planning Zone (EPZ).

- [] 3.7 The Emergency Director shall ensure the NRC is notified via the Emergency Notification System (ENS) immediately after notification of responsible state and local governmental agencies and not later than 1 hour after the time of declaration of one of the emergency classes.
- [] 3.8 The Emergency Director shall ensure the Emergency Response Data Systems (ERDS) is activated using the PMIS START/STOP Menu. This shall be done in the Control Room as soon as possible but not later than 1 hour after the time of declaration of an ALERT or higher classification.

4. FOLLOW-UP EMERGENCY DIRECTOR ACTIONS

- [] 4.1 If appropriate, perform additional dose calculations per Procedure 5.7.17 to determine if PARs are adequate. If the dose calculation indicates that a more conservative PAR is necessary, immediately notify off-site agencies of the new PAR per Procedure 5.7.6.
 - [] 4.1.1 Evaluate whether the use of KI by on-site Emergency Response Personnel is warranted per Procedure 5.7.14.
- [] 4.2 During an ALERT or higher class emergency, perform follow-up notifications to State and Local Agencies at least every 60 minutes or sooner if there is a significant change in the status of the emergency per Procedure 5.7.6.
- [] 4.3 Consider dismissal of all Non-ERO personnel from the Station at the ALERT classification. Evacuate all Non-ERO personnel at the SITE AREA EMERGENCY classification per Procedure 5.7.11.
- [] 4.4 Re-evaluate the emergency classification as conditions change per Procedure 5.7.1. Escalate to a higher emergency classification if conditions warrant.
- [] 4.5 Reclassify or terminate the emergency, if appropriate, per Procedure 5.7.1. If the emergency is terminated, provide notification of termination to responsible state and local governmental agencies per Procedure 5.7.6.
- [] 4.6 The Emergency Director shall reference the checklist contained in Attachment 1 or similar. Write the time the action was performed in the appropriate Emergency Classification Column. Implement any additional actions deemed necessary.

ATTACHMENT 1 SHIFT SUPERVISOR AS EMERGENCY DIRECTOR - ACTION ITEM CHECKLIST

Write the time the action was completed inside each appropriate column box. NA = Not Applicable

ACTION		EPIP	NOUE	ALERT	SAE	GE
1.	Declare event and announce to the Control Room Staff. Required for Each emergency classification.	5.7.1				
2.	Initiate ERO notification and staff augmentation by activating the CNS Automated Notification System (ANS). The back-up method of ERO pager activation should be utilized after two unsuccessful attempts at activating the CNS ANS. <u>Do not</u> re-activate the System if Emergency Response Facilities are already being activated.	5.7.6				
3.	Make appropriate PA announcement to Site personnel. Required for Each emergency classification.	5.7.2				
4.	Perform initial notifications to responsible state and local governmental agencies. (Within 15 minutes of Each emergency declaration.)	5.7.6				
5.	Make PARs to off-site agencies. Required for Each emergency classification. (Perform Dose Assessment if appropriate as per Step 10.)	5.7.6 5.7.20				
6.	Perform initial notifications to NRC. Required for Each emergency classification. (Immediately after notification of state and local agencies, and not later than 1 hour after the time of declaration.)	5.7.6				
7.	Activate the Emergency Response Data System (ERDS). (As soon as possible but not later than 1 hour after the time of declaration of an ALERT or Higher Classification.)	5.7.2	NA			
8.	Perform Personnel Assembly and Accountability. (Within 30 minutes of declaration of an ALERT or Higher Classification.)	5.7.10	NA			

ATTACHMENT 1 SHIFT SUPERVISOR AS EMERGENCY DIRECTOR - ACTION ITEM CHECKLIST

ACTION	EPIP	NOUE	ALERT	SAE	GE
9. Complete follow-up notifications to off-site agencies if Significant Status change or at least every 60 minutes after declaration of an ALERT or Higher Classification.	5.7.6	NA			
10. Perform Dose Assessments.	5.7.17	NA	NA		
11. Evaluate if KI should be recommended for use by NPPD ERO personnel.	5.7.14	NA	NA		
12. Consider dismissal of Non-ERO personnel from the Site.	5.7.11			NA	NA
13. Evacuate all Non-ERO personnel from the Station.	5.7.11	NA	NA		
14. Re-evaluate the Emergency Classification as conditions change.	5.7.1				
15. Turn-over ED duties when relieved by another qualified ED. The Technical Communicator's PIM contains the Control Room Turnover Worksheet.	5.7.2				

WHEN PERSONNEL SAFETY IS THREATENED OR PERSONNEL ACCOUNTABILITY HAS ALREADY BEEN COMPLETED, USE ATTACHMENT 3.

ثُمَّ لَمْ يَجْعَلْ فِي الْقُرْآنِ حَرْفًا مِمَّا يَكُونُ فِيهِ حَرْفٌ مَعْنًى إِلَّا جَعَلْنَا كِتَابَ اللَّهِ ذِكْرًا لِلَّذِينَ أُوتُوا الْحِكْمَ لَعَلَّهُمْ يَخَذُوا حِذْرًا

ثُمَّ تَتَمَّ

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard training program, while the experimental group received a training program with a focus on the specific skills required for the task. The results of the training program were compared between the two groups.

- (1) Give a Brief description of the emergency event and location (refer to Procedure 5.7.1 for assistance, if necessary).
- (2) State any locations that should be avoided due to the emergency conditions. For emergency situations involving high radiological conditions, hazardous materials, fire, or other hostile environments, specific evacuation routes should be included in the announcement to ensure personnel are directed around the affected area.

1. DISCUSSION

- 1.1 The responsibility and authority to classify events and make emergency declarations rests with the Emergency Director. The Shift Supervisor shall initially assume the role of the Emergency Director and remain so until relieved by another qualified Emergency Director. Certain actions may still need to be performed by the Shift Supervisor, as requested by the Emergency Director, after command and control of the emergency response has been transferred to the EOF.
- 1.2 Four standardized emergency classifications have been established; they are:
 - 1.2.1 NOTIFICATION OF UNUSUAL EVENT (NOUE)
 - 1.2.2 ALERT
 - 1.2.3 SITE AREA EMERGENCY (SAE)
 - 1.2.4 GENERAL EMERGENCY (GE)
- 1.3 The rationale for the NOUE and ALERT classes is to provide early and prompt recognition and notification of minor events which could lead to more serious consequences or which might be indicative of more serious conditions which are not yet fully realized.
- 1.4 The SAE and GE classes reflect conditions where significant radiological releases are likely or are occurring or there is actual or imminent substantial core degradation or melting with potential for loss of containment. These classifications warrant full mobilization of Emergency Response Organizations and the alerting of the public.
- 1.5 Upon the declaration of any emergency classification, prompt notification is made to the responsible state and local governmental agencies to ensure sufficient emergency response personnel are mobilized and respond to the event in accordance with their respective radiological emergency response plans.
- 1.6 All on-site Emergency Response Facilities are activated following the declaration of an ALERT or higher classification. Activation of Facilities and/or assembly and accountability activities may be delayed if determined by the Emergency Director that personnel safety would be threatened. Facility activation and/or assembly and accountability shall be accomplished as soon as practical after safety concerns pass.

- 1.7 Representatives from Federal and State agencies may dispatch personnel to the EOF. The decision to make prompt notification of the general public will be made at a SAE or GE by the appropriate governmental agencies.
- 1.8 Assessment of meteorological data, radiological dose projections, and other parameters will be made to determine the type of Protective Action Recommendations (PARs) necessary for the protection of the general public. Off-site authorities will implement appropriate protective actions for affected populations based on those PARs, as well as other data they have assembled. The general public will be kept informed of events by media facilities with periodic releases of updated information.
- 1.9 Contracted service companies, sponsor utilities, and other industry resources may be alerted and requested to render assistance as appropriate. In addition, federal resources may be called upon for assistance.
- 1.10 The Emergency Director shall escalate, terminate, or reduce the emergency classification as conditions warrant.

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1 NPPD Emergency Plan for CNS.
- 2.1.2 NUREG 0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 2.1.3 NUREG BR-0150, Volume 1, Revision 1.

2.2 PROCEDURES

- 2.2.1 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.
- 2.2.2 Emergency Plan Implementing Procedure 5.7.6, Notification.
- 2.2.3 Emergency Plan Implementing Procedure 5.7.10, Personnel Assembly and Accountability.
- 2.2.4 Emergency Plan Implementing Procedure 5.7.11, Evacuation of Non-Designated Site Personnel.

ATTACHMENT 4 INFORMATION SHEET

2.2.5 Emergency Plan Implementing Procedure 5.7.14, Stable Iodine Thyroid Blocking (KI).

2.2.6 Emergency Plan Implementing Procedure 5.7.17, Dose Assessment.

2.2.7 Emergency Plan Implementing Procedure 5.7.20, Protective Action Recommendations.

2.2.8 Emergency Plan Implementing Procedure 5.7.22, Communications.

2.3 MISCELLANEOUS

2.3.1 NRC Information Notice 83-28.

2.3.2 NRC Inspection Report 94-11.

2.3.3 CNS Emergency Telephone Directory.

2.3.4 © NRC Inspection Report 98-12. Affects NOTE prior to Step 3.3 and Attachment 3.

ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS

Correspondence Number: NLS2001091

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described for information only and are not regulatory commitments. Please notify the NL&S Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

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