



Nebraska Public Power District
Nebraska's Energy Leader

NLS2000034
March 22, 2000

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

Gentlemen:

Subject: Emergency Plan Implementing Procedures
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 Procedures (EPIPs):

EPIP 5.7.6	Revision 29	"Notification"
EPIP 5.7.22	Revision 18	"Communications"

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

Sincerely,


R. L. Zipfel
Emergency Preparedness Manager

/nr
Enclosure

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

Senior Resident Inspector w/enclosure
USNRC

NPG Distribution w/o enclosure

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.6 NOTIFICATION	USE: REFERENCE  EFFECTIVE: 3/21/00 APPROVAL: SORC OWNER: J. G. KELSAY DEPARTMENT: EP
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1. PURPOSE

This procedure provides notification instructions to be followed upon the declaration of an emergency. These instructions cover Initial, Follow-up, and Termination Notifications to responsible state and local governmental agencies, NRC Notifications, ERO Notification/Staff Augmentation, initial generation of press releases to the Media, and notifications to other off-site support agencies.

2. PRECAUTIONS AND LIMITATIONS

- [] 2.1 Accuracy in communicating notification messages is extremely important. Avoid use of jargon and acronyms not understandable to the off-site agencies.
- [] 2.2 Failure to transmit accurate notification messages may result in delayed or improper response by off-site agencies.
- [] 2.3 Initial notifications to responsible state and local governmental agencies shall be performed within 15 minutes of the declaration of one of the emergency classes.

- [] 2.4 NRC notification shall be performed immediately following 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.
- [] 2.5 At an ALERT or higher classification, follow-up notifications to responsible state and local governmental agencies shall be performed approximately every 60 minutes, or sooner if there is a significant change in the status of the emergency.
- [] 2.6 Notification of Termination shall be performed within 1 hour after the termination of the emergency.
- [] 2.7 Do not re-activate the CNS Automated Notification System if the emergency escalates to a higher class and ERO response to the site has been initiated (ERO pagers have already activated).
- [] 2.8 If the Control Room must be evacuated and off-site notification responsibilities have not been transferred to the EOF, the Shift Communicator shall perform off-site notifications over the State Notification Telephone from the TSC or EOF.

3. REQUIREMENTS

- [] 3.1 Ensure the following equipment and materials are available, as needed:
 - [] 3.1.1 Installed communications equipment.
- [] 3.2 A NOTIFICATION OF UNUSUAL EVENT, ALERT, SITE AREA EMERGENCY, or a GENERAL EMERGENCY has been declared per Procedure 5.7.1.

4. COMPLETION OF NOTIFICATION FORM

- [] **NOTE** - Obtaining information in the EOF may be accomplished through the use of status boards or logs. The Emergency Preparedness Coordinator will assist with information retrieval.
- [] 4.1 The notification report number is a sequential number indicating the order of off-site notifications. The first report made to off-site authorities will be #1 followed by #2, etc. Notification report number is not dependent on classification or type of report, it is dependent on the number of reports.
- [] 4.2 Transmittal time is the time when all four parties are on the telephone. The "Time of Notification" space in Section 1 of Attachment 2 or Attachment 3 should be the same.

- [] 4.3 Check either initial or follow-up report. Initial report is required for each classification. Any other report is a follow-up.
- [] 4.4 Provide the name of CNS Communicator and call back number in the Control Room or other designated area.
- [] 4.5 Fill in the proper classification and corresponding Emergency Action Level (EAL) number.
- [] 4.6 Section 3 of the notification form contains the meteorological data that could change between notifications. This information can be obtained from the "MET" screen on PMIS.
 - [] 4.6.1 Enter the proper wind speed. This will depend on release height. For an ERP release use the wind speed at 100 meters. For any other release or release location unknown use the wind speed at 10 meters. If unable to determine wind speed use the default of 13 mph for elevated release point and 8 mph from any other source.
 - [] 4.6.2 Enter the proper wind direction in degrees. This will be the direction from which the wind is blowing. For example, winds from due north would be from 0°.
 - [] 4.6.3 Fill in either the yes or no box for precipitation.
 - [] 4.6.4 Fill in the proper stability class. Use the 100 m DT from the MET screen. If reading at 100 m is suspect, use the 60 m DT followed by the 10 m DT. If unable to determine stability class, use the default of "D". DT is the temperature difference from various heights.
- [] 4.7 Fill in the proper boxes indicating the status of radioactive material release.
 - [] 4.7.1 In order for "is" to be chosen, the release has to be greater than Off-Site Dose Assessment Manual (ODAM) limits. This number is on the notification form for airborne release and is also indicated on various PMIS screens (e.g., PMIS05, SPDS01, and SPDS24). Liquid release limits are in Technical Specifications.
 - [] 4.7.2 There "was" a release indicates the release has fallen below ODAM limits.
 - [] 4.7.3 There "will be" a release of radioactive material is used when a planned evolution is going to take place causing the release to be greater than ODAM limits (e.g., primary containment purge or release of a waste hold-up tank.)

- 4.8 Indicate the proper protective action recommendations (PARs) in Section 5. These recommendations are given by the Emergency Director. Recommendations are driven by classification (General Emergency) or by dose. The following is an example of a General Emergency PAR due to plant conditions:

	NONE	EVACUATE SECTORS	GO INDOORS AND MONITOR EAS/EBS IN SECTORS
0-2 miles		All	
2-5 miles		R,A,B	Remainder
5-10 miles			All

The affected sectors are dependent on wind direction and stability class. Affected sectors can be determined manually using the 10 mile radius EPZ map (1" = mile) with the proper dispersion overlay for that stability class. Place the dispersion overlay at the center of EPZ (CNS) and then move centerline to the proper wind direction degree, 180° from indicated wind direction. For example, if the wind direction is from 35° centerline should cross at 215°. The affected sectors are captured under the dispersion band. Affected sectors can also be determined by the CNS Dose Program. If no release is in progress and a General Emergency has been declared due to plant conditions, enter the proper wind direction and stability class and then ask for results. Respond yes to the question "declare a general emergency based on plant conditions". The automatic PAR will be given with the proper sectors. If a release, > 1 rem TEDE or > 5 rem CDE, is in progress the proper sectors will be given if all the questions are answered correctly.

- 4.9 Fill in the prognosis as either stable or unstable. This is a judgement call made by operations on the condition of the reactor. Fill in the plant status as either at power or shutdown.
- 4.10 In the remarks section provide as much information on the classification and condition of the plant. Remember individuals receiving this information may not be familiar with technical terms or nuclear jargon.
- 4.11 Section 8 contains information related the a release greater than Technical Specifications.
- 4.11.1 Fill in the release location exceeding Technical Specifications.
- 4.11.2 Fill in the proper release height, 300' for ERP and 30' for any other monitor location.

- [] 4.11.3 Determine the release duration. If duration is unknown use the default of 4 hours. Indicate release start time. Indicate stop time if known. If unknown indicate as "unk". Military time format should be used for all times.
- [] 4.11.4 Release rates (uCi/sec) can be determine by various PMIS screens (e.g., SPDS01, SPDS24, PMIS05). All monitored release points at CNS quantify noble gases. Release rates for particulate and iodides will not be given.
- [] 4.11.5 The projected integrated dose and projected dose rate can be obtained from CNS DOSE or by hand calculations.
- [] 4.11.6 The Emergency Director is responsible for ensuring all information on the notification form is correct. The Emergency Director signature is an indicator that he/she has reviewed the form and notifications can be made.

5. NOTIFICATIONS FROM CONTROL ROOM

[] 5.1 INITIAL NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES

- [] **NOTE 1** - Events which have taken place but are no longer occurring, which were not recognized at the time of occurrence as meeting the criteria listed in Procedure 5.7.1 for declaration as an emergency, must still be reported to responsible state and local governmental authorities as soon as possible after their discovery. Declaration and termination notifications of responsible state and local governmental authorities of an emergency which occurred, but no longer exists, may be performed together using the same incident report.
- [] **NOTE 2** - Due to the 15 minute time constraint or the nature of the event, the Emergency Director may designate any qualified individual in the control room as shift communicator.
- [] **NOTE 3** - When contacted by the Off-Site Communicator in the EOF, the Shift Communicator will transfer off-site notification responsibilities. This transfer of responsibilities will include plant status information, as well as a briefing of the status of notifications up to the time of transfer.
- [] 5.1.1 The Shift Communicator shall complete Attachment 1, Sections 1 through 7, and forward to the Emergency Director for approval.
- [] 5.1.2 The Emergency Director shall review, edit if necessary, and approve (sign) Attachment 1 and return it to the Shift Communicator.

- [] 5.1.3 The Communicator shall contact the agencies listed in Section 1 of Attachment 2 and provide them with the information from Attachment 1 using the State Notification Telephone System. Pick up the handset to the hotline and push the "Group Call" button. This will automatically ring telephones at County and State agencies.
- [] 5.1.4 Each time a party answers, ask them to obtain an Notification Report Form and standby until all 4 parties are on the line. Record the name of the person representing each agency and enter it in the appropriate blank in Section 1 of Attachment 2.
- [] 5.1.5 Record the time when all four parties are on the telephone, in the "Time of Notification" space in Section 1 of Attachment 2.

[] **CAUTION** - When performing Step 5.1.6, do not proceed to quickly.

- [] 5.1.6 When all four parties have their Notification Report Forms, clearly and concisely state the information on Attachment 1. Give the parties enough time to accurately write down the information on their forms.
- [] 5.1.7 In the event contact is lost with one of the agencies during the notification process, continue on with the notification to the group. When you are through with the group notification, attempt contact with the party that was lost by dialing the agency's individual number, which is printed next to the agency's name, on the telephone.
- [] 5.1.8 If the State Notification Telephone System is inoperable, alternate telephone numbers can be found in the CNS Emergency Telephone Directory. In this case, a conference call should be established by calling each agency using the alternate telephone number and then pressing the conference-call button on the phone. You should then contact the remaining agencies in the same manner until all 4 agencies are conferenced in. When all agencies are on-line, proceed with the notification. If all 4 agencies cannot be conferenced in, attempt contact by individual number as in Step 5.1.7.

[] 5.2 FOLLOW-UP NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES

- [] 5.2.1 The Shift Communicator shall complete Attachment 1, Sections 1 through 7, and forward to the Emergency Director for approval.
- [] 5.2.2 The Emergency Director shall review, edit if necessary, and approve (sign) Attachment 1 and return it to the Communicator.

- [] 5.2.3 The Communicator shall contact the agencies listed in Section 1 of Attachment 2 and provide them with the information from Attachment 1 in the same manner as the Initial Notifications were performed.

[] 5.3 NRC NOTIFICATIONS

- [] **NOTE** - When contacted by the ENS Communicator in the TSC, the Shift Communicator will transfer NRC Notification responsibilities. This transfer of responsibilities will include plant status information, as well as, a briefing of the status of notifications up to the time of transfer.

- [] 5.3.1 The NRC Senior Resident and Resident Inspectors are notified by pager when the CNS Automated Notification System is activated. These individuals can also be notified by normal communication methods. Examples of normal communication are phone, pager, and gaitronics. Applicable numbers are contained in the emergency telephone directory.

- [] 5.3.2 The Shift Communicator shall make notifications to NRC Headquarters via the ENS Telephone System by picking up the handset and dialing the number, on the sticker, on the top of the telephone. The NRC will request information regarding the plant's status. Attachments 1 and 2 can be a source of information for NRC, but the NRC does not have a copy of this form.

- [] 5.3.3 The NRC will likely request an open communications channel to receive continuous and detailed information at an ALERT or higher classification until the TSC is operational.

- [] 5.3.3.1 Report the declaration of any of the emergency classes specified in the CNS Emergency Plan as well as any change from one emergency class to another, or a termination of an emergency class.

- [] 5.3.3.2 Report any further degradation in the level of safety of the plant or other worsening plant conditions.

- [] 5.3.3.3 Any other information that is requested should be provided or an attempt to obtain the information should be made to the best of your ability relative to other responsibilities.

- [] 5.3.4 If the ENS telephone is inoperable, contact via normal telephone using alternate numbers as listed in the Emergency Telephone Directory.

[] 5.4 ERO NOTIFICATION/STAFF AUGMENTATION

[] 5.4.1 Immediately after the declaration of an emergency, the Emergency Director should ensure the CNS Automated Notification System is activated per Attachment 4. The CNS Automated Notification System shall perform the functions of activating emergency pagers, receiving telephone call-backs from pager carriers, and placing telephone calls to ERO members at home.

[] 5.4.2 Scenarios associated with the CNS Automated Notification System have been numbered to match the pager "XYZ" informational codes described in Procedure 5.7.22 and designed to activate the ERO per the CNS Emergency Plan and Procedures.

[] **NOTE** - When executing scenarios 200#, 300#, and 400#, recording of a "Current Scenario Message" is required.

[] 5.4.3 The system scenarios will ask if you want to record a "Current Scenario Message". It is at the discretion of the Emergency Director to record a message except for scenarios 200#, 300#, and 400#, which require the recording of a "Current Scenario Message". If the Emergency Director chooses to record such a message, all ERO responders who interface with the CNS ANS will hear the message immediately after a scenario-specific, "Prerecorded" message. If a "Current Scenario Message" is recorded it should contain information such as the applicable EAL, information that the responder needs to know regarding his safety prior to arriving at CNS, or specific information relevant to the emergency event.

[] 5.4.4 The system is currently programmed to print reports at the Emergency Response Facilities. These reports identify the persons who are responding to fill ERO positions and their approximate times of arrival.

[] 5.4.5 If the CNS ANS is discovered to be inoperable (i.e., no Control Room personnel pagers are activated) then use the backup method of pager activation found in Attachment 5.

[] 5.5 NOTIFICATION OF TERMINATION

[] 5.5.1 The Shift Communicator shall complete Attachment 1, Sections 1 and 2 and forward to the Emergency Director for approval.

- [] 5.5.2 The Emergency Director shall review Sections 1 and 2, edit if necessary, and then complete Section 7. The Emergency Director shall approve (sign) Attachment 1 and return it to the Shift Communicator.
- [] 5.5.2.1 Section 7 should contain a brief and concise summary of the current plant status which has allowed for termination of the emergency.
- [] 5.5.3 The Shift Communicator shall contact the agencies listed in of Attachment 2 and provide them with the information from Attachment 1.

6. EOF NOTIFICATIONS

[] 6.1 INITIAL NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES

[] **NOTE** - Upon EOF activation and prior to the transfer of Emergency Command and Control from the Control Room to the EOF, the Off-Site Communicator shall contact the Control Room and coordinate the transfer of responsibility of notification of responsible state and local governmental agencies to the EOF. This transfer of responsibilities will include plant status information, as well as a briefing of the status of notifications up to the time of transfer and shall occur simultaneously with the transfer of Emergency Command and Control.

[] 6.1.1 The Off-Site Communicator shall complete Attachment 1, Sections 1 through 7, and forward to the Emergency Director for approval.

[] 6.1.2 The Emergency Director shall review, edit if necessary, and approve (sign) Attachment 1 and return it to the Communicator.

[] 6.1.2.1 The EOF Director may sign Attachment 1, in the absence of the Emergency Director, after reviewing it with the Emergency Director, receiving his verbal approval of its content, and noting in the EOF Facility Log.©

[] 6.1.3 The Off-Site Communicator shall contact the agencies listed in Section 1 of Attachment 3 and provide them with the information from Attachment 1 using the State Notification Telephone System. Pick up the handset to the hotline and push the "Group Call" button. This will automatically ring telephones at County and State agencies.

[] 6.1.4 Each time a party answers, ask them to obtain a Notification Report Form and standby until all four parties are on the line. Record the name of the person representing each agency and enter it in the appropriate space in Section 1 of Attachment 3.

[] 6.1.5 Record the time when all four parties are on the telephone, in the "Time of all parties on line" space in Section 1 of Attachment 3.

[] **CAUTION** - When performing Step 6.1.6, do not proceed to quickly.

[] 6.1.6 When all four parties have their Notification Report Form, clearly and concisely state the information on Attachment 1. Give the parties enough time to accurately write down the information on their forms.

[] 6.1.7 Notifications to the states, performed by the Off-Site Communicator in the EOF, may be provided by handing a copy of Attachment 1 directly to the States Governor's Authorized Representative, if present.

[] 6.1.8 In the event contact is lost with one of the agencies during the notification process, continue on with the notification to the group. When you are through with the group notification, attempt contact with the party that was lost by dialing the agency's individual number, which is printed next to the agency's name, on the telephone.

[] 6.1.9 If the State Notification Telephone System is inoperable, alternate telephone numbers can be found in the CNS Emergency Telephone Directory. In this case, a conference call should be established by calling each agency using the alternate telephone number and then pressing the conference-call button on the phone. You should then contact the remaining agencies in the same manner until all 4 agencies are conferenced on in. When all agencies are on-line, proceed with the notification.

[] 6.2 FOLLOW-UP NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES

[] 6.2.1 The Off-Site Communicator shall complete Attachment 1, Sections 1 through 8, and forward to the Emergency Director for approval.

[] 6.2.1.1 The EOF Director may sign Attachment 1, in the absence of the Emergency Director, after reviewing it with the Emergency Director, receiving his verbal approval of its content and noting in the respective facility log.©

- [] 6.2.2 The EOF Director may review and approve (sign) Attachment 1 of the follow-up notification, in lieu of the Emergency Director, if the protective action recommendation has not changed or other significant change in the status of the emergency has not occurred.
- [] 6.2.3 The Off-Site Communicator shall contact the agencies listed in Section 1 of Attachment 3 and provide them with the information from Attachment 1 in the same manner as the Initial Notifications were performed.
- [] 6.3 NOTIFICATION OF OFF-SITE SUPPORT AGENCIES
 - [] 6.3.1 The Off-Site Communicator shall contact the agencies listed in Section 1 of Attachment 3 as soon as possible after declaration of an ALERT or higher emergency classification, but not until after the required notifications to responsible state and local governmental agencies have been completed per Section 1.
 - [] 6.3.2 The notification shall include, but not limited to, the information provided on Attachment 1, and any other basic information concerning the emergency event that is currently known or can be readily obtained.
 - [] 6.3.3 If the event is a NOTIFICATION OF UNUSUAL EVENT, or a higher emergency classification which has been terminated per station procedures prior to the above agencies being notified, notifications shall be performed by the Emergency Preparedness staff by close of the next business day following the termination of the emergency.
- [] 6.4 NOTIFICATION OF TERMINATION
 - [] 6.4.1 The Off-Site Communicator shall complete Attachment 1, Section 1 and 2 and forward to the Emergency Director for approval.
 - [] 6.4.2 The Emergency Director shall review Sections 1 and 2, edit if necessary, and then complete Section 7. The Emergency Director shall approve (sign) Attachment 1 and return it to the Off-Site Communicator.
 - [] 6.4.2.1 Section 7 should contain a brief and concise summary of the current plant status which has allowed for termination of the emergency.
 - [] 6.4.3 The Off-Site Communicator shall contact the agencies listed in Attachment 3 and provide them with the information from Attachment 1.

7. NOTIFICATIONS FROM THE TSC

- [] **NOTE** - After TSC activation and establishment of emergency communications between the TSC and Control Room, the ENS Communicator shall contact the Shift Communicator and coordinate the transfer of responsibility of NRC notification to the TSC. This transfer of responsibilities will include plant status information, as well as a briefing of the status of notifications up to the time of transfer. The ENS Communicator in the TSC can take the responsibility for notifying the NRC before the TSC is activated if concurrence is given by TSC Director and Control Room.

- [] 7.1 If the Shift Communicator was unable to make contact with the NRC Senior Resident Inspector or Resident Inspector, the ENS Communicator shall continue attempts to contact them via normal communications.

- [] 7.2 The ENS Communicator shall make notifications to the NRC Headquarters via the ENS Telephone System by picking up the handset and dialing the number, on the sticker, on the top of the telephone. The following information should be provided to the NRC:
 - [] 7.2.1 Any further degradation in the level of safety of the plant or other worsening conditions.
 - [] 7.2.2 Any change from one emergency class to another or termination of an emergency class.
 - [] 7.2.3 The results of ensuing evaluations or assessments of plant conditions.
 - [] 7.2.4 Effectiveness of the emergency response and any protective measures taken.
 - [] 7.2.5 Information related to plant behavior that is not understood.
 - [] 7.2.6 Any other information that is requested should be provided or an attempt to obtain the information should be made to the best of your ability.

- [] 7.3 If the ENS telephone is inoperable, contact via normal telephone using alternate numbers as listed in the Emergency Telephone Directory.

8. MISCELLANEOUS

- [] 8.1 Consider the following information when making emergency notifications.
 - [] 8.1.1 At an ALERT or higher emergency classification, to receive continuous and detailed information, the NRC will likely request an open line of communication with the Control Room (ENS) until the TSC is operational.

- [] 8.1.2 The NRC Resident Inspector(s) will likely respond to the CNS Control Room and/or TSC when notified.
- [] 8.1.3 The Public Affairs Duty Officer (PADO) shall be notified by pager by the CNS ANS. Public Affairs Duty Officer functions shall be superseded by the activation of the Joint Information Center (JIC). The JIC shall receive follow-up information from the Technical Information Coordinator in the EOF.
- [] 8.1.4 The On-call Emergency Preparedness Coordinator should assume the responsibility of coordinating press releases after being notified and responding to a Notification of Unusual Event (NOUE).
 - [] 8.1.4.1 This responsibility shall be for the period immediately after the declaration of the NOUE and continue until the responsibility is transferred to appropriate NPPD Corporate Communications Department Personnel.
 - [] 8.1.4.2 Any press release that is generated during this period should be reviewed and approved by the Emergency Director or his designee prior to release to the media.
- [] 8.1.5 Authorized Representatives of the Governors of Nebraska and Missouri may be represented in the EOF and set up Forward Command Posts at some other location.

ATTACHMENT 1 COOPER NUCLEAR STATION NOTIFICATION REPORT

Notification Report # _____		Time of Transmittal: _____		
<input type="checkbox"/> Initial Report (Complete Sections 1-7) <input type="checkbox"/> Follow up Report (Complete Sections 1-8)				
1) Name of CNS Communicator: _____		Call Back Number 402-825- _____		
2) Classification <input type="checkbox"/> NOUE <input type="checkbox"/> Alert <input type="checkbox"/> Site Area <input type="checkbox"/> General		EAL Number _____		
Event Declared(Date/Time) _____		Event Terminated(Date/Time) _____		
3) Meteorological Conditions		Wind Speed _____ MPH	Wind From _____ Degrees	
Stability Class <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G		Precipitation <input type="checkbox"/> Yes <input type="checkbox"/> No		
4) ODA release values: ERP = 7.28E5 µCi/sec Turbine Building = 3.6E4 µCi/sec Reactor Building = 3.6E4 µCi/sec Augment Radwaste = 3.6E4 µCi/sec		There <input type="checkbox"/> is <input type="checkbox"/> no <input type="checkbox"/> was <input type="checkbox"/> will be <input type="checkbox"/> an airborne <input type="checkbox"/> a liquid Release of radioactive material (Greater than ODA Limits)		
5) Protective Action Recommendations (PARS): General Emergency Automatic PAR - Evacuate 2 mi radius/5 mi downwind, Go indoors and monitor EAS/EBS remainder 10 mi EPZ.				
	None	Evacuate Sectors	Go indoors and monitor EAS/EBS in Sectors	
0-2 Miles				
2-5 Miles				
5-10 Miles				
6) Prognosis <input type="checkbox"/> Stable <input type="checkbox"/> Unstable		Plant Status <input type="checkbox"/> at Power <input type="checkbox"/> Shutdown		
7) Remarks _____				
8) Release Information				
Release From: <input type="checkbox"/> ERP <input type="checkbox"/> Reactor Building <input type="checkbox"/> Turbine Building <input type="checkbox"/> Aug Radwaste Building <input type="checkbox"/> Other: _____				
Release Height: <input type="checkbox"/> 300 ft (ERP) <input type="checkbox"/> 30 ft(RB,TB,ARWB) <input type="checkbox"/> Other _____ ft		Release Rate (Ci/sec) _____ Ci/sec		
Est. Duration: _____ (Hours)	Noble Gas: _____ Ci/sec			
Start Time: _____	Iodides: _____ N/A			
Stop Time: _____	Particulate: _____ N/A			
Distance From Plant	Projected Integrated Dose (Rem)		Projected Dose Rate (Rem/hr)	
	TEDE	CDE (Thyroid)	TEDE	CDE (Thyroid)
Site Boundary				
2 Miles				
5 Miles				
10 Miles				
Emergency Director _____		Date/Time _____		

ATTACHMENT 2 COOPER NUCLEAR STATION SHIFT COMMUNICATOR NOTIFICATION REPORT RECORD

Notification Report Number: _____

1. STATE AND LOCAL GOVERNMENTAL AGENCIES. Perform notifications **within 15 minutes** from the declaration of an emergency classification. Also requires follow-up notifications approximately every 60 minutes or sooner if there is a significant change of the status of the emergency.

Notify the following agencies	Phone	Name of contact
Nebraska Civil Defense via Nebraska State Patrol	State Notification Telephone System	
Nemaha County Sheriff		
Atchison County Sheriff		
Missouri SEMA via Missouri State Patrol		
		Time of all parties on line: _____
Record any comments, difficulties or observations you had while making this notification.		

2. ERO NOTIFICATION/STAFF AUGMENTATION. Activate CNS Automated Notification System per Attachment 4. Activation is not required if the ERO is currently responding or if the emergency facilities are activated.

Activation Required		Performed By	Time
Yes	No		

3. NRC HEADQUARTERS. Complete notifications via ENS immediately after the above notifications and not later than **60 minutes** after declaration of an emergency. Contact by normal telephone (Speed Dial), if ENS is inoperable.

NRC	ENS TELEPHONE	Alternate	Person Contacted	Time
	Dial # on phone sticker	Speed Dial -10		

Communicator Signature: _____ Date: _____

**ATTACHMENT 3 COOPER NUCLEAR STATION OFF-SITE
COMMUNICATOR NOTIFICATION REPORT RECORD**

Notification Report Number: _____

1. STATE AND LOCAL GOVERNMENTAL AGENCIES. Perform notifications **within 15 minutes** from the declaration of an emergency classification. Also requires follow-up notifications approximately every 60 minutes or sooner if there is a significant change of the status of the emergency.

Notify the following agencies	Phone	Name of contact
Nebraska Civil Defense via Nebraska State Patrol	State Notification Telephone System	
Nemaha County Sheriff		
Atchison County Sheriff		
Missouri SEMA via Missouri State Patrol		
		Time of all parties on line: _____
Record any comments, difficulties or observations you had while making this notification.		

2. SUPPORT AGENCIES - Perform notifications to the following support agencies, as soon as possible, after the declaration of an ALERT or higher emergency classification, but not until after all notifications are completed as required in Section 1.

AGENCY	PHONE	PERSON CONTACTED	Time
INPO	1-800-321-0614		
Nuclear Electric Insurance Limited (NEIL)	(860) 561-3433		

Communicator Signature: _____ Date: _____

NOTE - The Emergency Director Password is located in the Shift Supervisors Cubicle in the CNS Control Room.

1. Call into the CNS ANS by dialing telephone extension 8579.
2. After hearing the CNS ANS say "Hello", **immediately** enter the Emergency Director Password. Emergency Director Password = _____. The system will continue to speak the Hello speech segment as you are entering the password. After the Hello segment is spoken, the system will inform you that you have accessed the remote activation module.
3. To start a scenario, enter the scenario ID number from the list below, followed by the # sign. Scenario Number = _____.
4. The system will verify the event code you entered. Press 2.
5. The system will ask you about the an "Current Scenario Message". To record a "Current Scenario Message", press 2, speak your message after the tone. When finished recording, press "#". If necessary, you may script your "Current Scenario Message" below, if more space is needed continue on back. If you do not want to record a "Current Scenario Message", press "#".

Current Scenario Message: (tone) _____

(#)

6. If a "Current Scenario Message" has been recorded, it is played back at this time. The system will then prompt you to replay the message, record a new message, or continue on with the activation process. Determine if you need to replay the message again or re-record it and press the associated key for that choice; or press "#" to proceed on with the scenario activation process.
7. Press "3" to activate the chosen scenario.
8. Press "#" to disconnect from the system.

Classification	Scenario Description	Scenario ID Number
NOUE	No ERF Activation - No ERO Response to Plant	100#
ALERT	No ERF Activation - No ERO Response to Plant**	200#
SAE	No ERF Activation - No ERO Response to Plant**	300#
G.E.	No ERF Activation - No ERO Response to Plant**	400#
NOUE	ERF Activation - Use Your NORMAL Route to Plant	111#
ALERT	ERF Activation - Use Your NORMAL Route to Plant	211#
SAE	ERF Activation - Use Your NORMAL Route to Plant	311#
G.E.	ERF Activation - Use Your NORMAL Route to Plant	411#
ALERT	ERF Activation - Use SOUTH Access Road to Plant	212#
SAE	ERF Activation - Use SOUTH Access Road to Plant	312#
G.E.	ERF Activation - Use SOUTH Access Road to Plant	412#
ALERT	ERF Activation - Use NORTH Access Road to Plant	213#
SAE	ERF Activation - Use NORTH Access Road to Plant	313#
G.E.	ERF Activation - Use NORTH Access Road to Plant	413#

** These codes should only be used if current conditions could potentially affect the safety of the ERO responders. An on-the-fly message is required to explain the conditions to the ERO. As soon as conditions no longer pose a personnel safety issue, the Automated Notification System shall be re-activated with the appropriate code requiring activation of the emergency response facilities.©

NOTE - This section is not necessary if the CNS Automated Notification System is operational.

The steps listed under Voice mail Message Preparation are for those events where Emergency responders need to be provided more specific information prior to arrival at CNS. This information can be recorded on Voice mail for their retrieval when they call back in response to a page.

Voice mail Message Preparation:

1. Dial **5200** (Voice Mail).
2. Enter mailbox number, **5522 and #**.
3. Enter password, **5522 and #**.
4. Enter **8, 2** (Mailbox Greeting).
5. Enter **1** (External Greeting).
6. Enter **2**, Wait until end of greeting.
7. Enter **5** (Record command).
8. **Read** information on classification etc., (above) as an addition to the external greeting.
9. Enter **#** when completed.
10. Enter **8, 3** (Exits Voice Mail).

To Activate ALL ERO Pagers

NOTE - Be sure to obtain the Caller Password which is located in a sealed envelope in the Shift Supervisor's Cubicle before attempting to activate the pagers.

1. Dial (402) 633-0469 on any telephone.
2. When prompted by the computer voice, enter the caller password listed in the sealed envelope.
3. Enter "numeric message" when prompted by the computer voice.
 - The numeric message includes a three digit informational code (Scenario ID Number located in Attachment 4) and a seven digit telephone call-back number.

Example: 211 825-5522 - This represents an ALERT with TSC/OSC/EOF activation required and responders instructed to drive to CNS using the route they would normally drive.
 - The telephone number is a Voice Mail address to provide additional information (if necessary), and verify pager carriers received the page and are responding.
4. You may hang up after hearing the message, "Thank you for using ATS".
5. ERO management will check the voice mailbox during facility activation to verify ERO response.

1. DISCUSSION

- 1.1 All notifications and communications will be handled from the Control Room (CR) until the Technical Support Center (TSC) and Emergency Operations Facility (EOF) are activated. The responsibility of generating press releases to the media may be transferred to NPPD Corporate Communications Department Personnel prior to activation of the Joint Information Center (JIC).

- 1.2 During a declared Emergency at CNS, Emergency notifications to the State of Nebraska; State of Missouri; Atchison County, Missouri; and Nemaha County, Nebraska are accomplished through the State Notification Telephone System. The CNS State Notification Telephone System is a conference-calling system. When the handset to this hotline is picked up, and the "Group Call" button is pushed, dedicated telephones will automatically ring at Nebraska State Patrol, Missouri State Patrol, Atchison County Sheriff's Department, and Nemaha County Sheriff's Department. The utilization of law enforcement agencies as initial points of contact provides for 24 hour coverage. The dedicated lines listed also have extension lines which ring at the following facilities respectively: Nebraska State Civil Defense EOC, Missouri State Emergency Management EOC, Atchison County EOC, and Nemaha County EOC. Once the EOCs become operational, notifications may be made using the extension lines at the EOCs with concurrence between the respective EOC and law enforcement agency.

- 1.3 Notifications to the NRC are normally accomplished through the Emergency Notification System (ENS). The Emergency Notification System is a dedicated telephone system which is manned 24 hours by the Duty Officer at the NRC Headquarters Operations Center.

- 1.4 During any notification activity, if the primary communications system fails, communication methods shall be attempted such as alternate telephones, National Warning System (NAWAS), base station radio, or relay through a third party. Alternate telephone numbers are listed in the Emergency Telephone Directory.

- 1.5 Initial Notification - First notification made to responsible state and local governmental agencies after declaration of one of the emergency classes.
 - 1.5.1 If the emergency classification escalates, state and local notifications of the higher classification shall be considered as Initial Notifications, and must be completed within 15 minutes.

- 1.6 Follow-Up Notification - Notifications made to responsible state and local governmental agencies following any initial notification, which provides additional emergency information.

1.6.1 Follow-up notifications are required at least every 60 minutes during an alert or higher classification. Under certain situations a follow-up notification should be under the same time constraints as an initial notification. For example, significant change in release rate (classification change), change in Protective Action Recommendations (PARs), or changes in meteorological conditions that could effect dose assessment results.©

1.7 Notification of Termination - Notification of responsible state and local governmental agencies of termination of the emergency.

2. REFERENCES

2.1 CODES AND STANDARDS

2.1.1 10CFR50.

2.1.2 NPPD Emergency Plan for CNS.

2.2 PROCEDURES

2.2.1 Conduct of Operations Procedure 2.0.5, Shift Communicator Responsibility.

2.2.2 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.

2.2.3 Emergency Plan Implementing Procedure 5.7.22, Communications.

2.2.4 CNEP-1.0.

2.3 MISCELLANEOUS

2.3.1 QA Report 86-06.

2.3.2 NRC Inspection Report 89-35, Item 1.

2.3.3 NCR 93-52.

2.3.4 QA Observation 93-05A.

2.3.5 NRC Inspection Report 94-11.


2.3.6 NRC Inspection Report 94-29, Item 1.

2.3.7 CNS Emergency Telephone Directory.

2.4 NRC COMMITMENTS

2.4.1 © NRC Inspection Report 92-14. Commitment affects Steps 6.1.2.1 and 6.2.1.1.

2.4.2 © NRC Inspection Report 98-12 (NLS980074-05 and NLS980074-06). Commitments affect Step 1.6.1 on Attachment 6 and Attachment 4 footnote.

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.22 COMMUNICATIONS	USE: REFERENCE  EFFECTIVE: 3/21/00 APPROVAL: SORC OWNER: J. G. KELSAY DEPARTMENT: EP
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1. PURPOSE

This procedure provides instructions to station emergency response personnel when they need to operate communications equipment to contact the various federal, state, and local authorities, emergency repair teams, emergency response facilities, or other on-site and off-site support groups during station emergencies.

2. REQUIREMENTS

- [] 2.1 Ensure following equipment and materials are available, as needed:
 - [] 2.1.1 Nebraska Public Power District Northern Telecom SL1-MS PBX with rotary trunks to the ALLTEL Brownville Central Office.
 - [] 2.1.2 Station Intercom System (Gaitronics).

- [] 2.1.3 Sound Power System.
- [] 2.1.4 Alternate Intercom System.
- [] 2.1.5 CNS On-Site Digital Cell Phone System
- [] 2.1.6 Federal Telecommunications System (FTS 2000).
- [] 2.1.7 NPPD Microwave Network.
- [] 2.1.8 Local telephones (ALLTEL Communications).
- [] 2.1.9 NAWAS (National Warning System).
- [] 2.1.10 CNS State Notification Telephone System.
- [] 2.1.11 Site 450 MHZ Base Station Repeaters.
- [] 2.1.12 Cross-band radio communications with Nemaha County Sheriff.
- [] 2.1.13 Radio Paging System.
- [] 2.1.14 CNS Automated Notification System (CNS ANS).
- [] 2.1.15 District State-Wide Radio System (48.180 and 47.960 MHZ).
- [] **NOTE 1** - Communication equipment located in each Emergency Response facility is outlined in Attachment 1.
- [] **NOTE 2** - The following paragraphs are intended to provide a quick reference for utilization of any CNS communications equipment.

3. CNS NORTHERN TELECOM SL1-MS PBX

- [] 3.1 A Northern Telecom SL1-MS PBX provides telephone service to the Control Room, TSC, OSC, EOF, and other site areas. This is the primary on-site communications system. The extension numbers used during an emergency are contained in the Emergency Telephone Directory.
- [] 3.2 If the PBX should lose AC power, it will automatically switch to backup battery power. These batteries will power the PBX for ~ 6 hours. All extensions will continue to operate in their normal fashion.
- [] 3.3 In the event of a total failure of the PBX, the system is designed to connect several hard-wired extensions, designated as bypass telephones, directly to Central Office lines.

- [] 3.4 In the event even the bypass telephones are inoperative, other means of communication shall be attempted. It may become necessary to relay messages via radio, NSP/EOC Hotline, NAWAS, or microwave.
- [] 3.5 By dialing the digit 9 + 1 on selected PBX stations, the user is connected in to the commercial telephone network. The telephone numbers of Emergency Response Facilities and personnel are contained in the Emergency Telephone Directory.

4. GAITRONICS INTERCOM SYSTEM

- [] **NOTE** - This intercom system is utilized for communications throughout the station.

[] 4.1 SINGLE CHANNEL STATION OPERATION

- [] 4.1.1 Depress and hold the paging button while making the announcement.

- [] 4.1.1.1 When paging a person, page them to LINE 1.

- [] 4.1.1.2 General and Emergency announcements may be made while the party line is in use.

- [] 4.1.2 Release the paging button to carry on a party line conversation.

- [] 4.1.3 Use the handsets like a normal telephone. Use common courtesy and do not attempt to talk while someone else is talking.

[] 4.2 FIVE CHANNEL STATION OPERATION

- [] 4.2.1 To use the system, first select a clear channel for use.

- [] 4.2.2 Depress and hold the paging button while making the announcement.

- [] 4.2.2.1 When paging a person, page them to the appropriate line.

- [] 4.2.2.2 General and Emergency announcements may be made while the party lines are in use.

- [] 4.2.3 Release the paging button to carry on a party line conversation.

- [] 4.2.4 Use the handsets like a normal telephone. Use common courtesy and do not attempt to talk while someone else is talking.

[] 4.3 EMERGENCY SIGNALS

[] 4.3.1 Select which signal to use:

[] 4.3.1.1 Fire alarm (-----) distinct pulse tone.

[] 4.3.1.2 Emergency alarm (———) distinct steady tone.

[] 4.3.1.3 All clear (o) one steady up and down tone.

5. SOUND POWER SYSTEM

[] 5.1 USING SYSTEM A OR B

[] 5.1.1 Select the sound power jacks that are to be used and plug in headsets or handsets.

[] 5.1.2 Position the selector switch for each jack to the same channel, 1 through 6. Those headsets or handsets are on a single party line type hookup.

[] 5.1.3 Other headsets or handsets may be plugged into Systems A or B and set to any of the other not in use channels. Up to 6 separate party line conversations can be in progress at one time.

[] 5.2 USING INTERCONNECTED SYSTEMS A AND B

[] 5.2.1 Place the right-hand selector switch in each System A and B panels to the same number, 1 through 6, and all the jacks in each system on that selected number are on a party line.

[] 5.2.2 Repeat the above using the left-hand selector switch. Systems A and B can have two interconnections at one time.

[] 5.3 CONTROL ROOM SOUND POWER MONITOR

[] 5.3.1 Select the in-plant sound power to be utilized to Channel 1.

[] 5.3.2 With both handsets in their cradles, the monitor will receive all communications from all in-plant sound powers on Channel 1.

[] 5.3.3 When either handset is lifted, the speaker is disabled and the handset operates as all other sound power handsets.

6. ALTERNATE INTERCOM SYSTEM

- [] 6.1 The Alternate Intercom System provides an alternate in-plant communications network utilizing the stations backup tone commander telephone PBX System. This system has battery backup.
- [] 6.2 The location of Alternate Intercom Extensions and their numbers are:

<u>LOCATIONS</u>	<u>ACCESS NUMBER</u>
Control Room	43
Alternate OSC	44
TSC (Operations)	41
TSC (Engineering)	35
OSC	42
Hot Chemistry Lab	47
EOF (Dose Assessment)	48
EOF (Information Authentication Center)	31
EOF (Operations Table)	24
JIC	22

- [] 6.3 OPERATION OF THE ALTERNATE INTERCOM SYSTEM
 - [] 6.3.1 Terminal equipment (the phones themselves) are light grey in color.
 - [] 6.3.2 Pick up the handset and punch the two-digit number of the desired extension. Hang up the handset when done. A list of extension numbers is posted on each phone.

7. CNS ON-SITE DIGITAL CELL PHONE SYSTEM

- [] 7.1 The CNS on-site digital cell phone system is a pico-cellular digital cordless telephone system that is connected to the CNS NORTHERN TELECOM SL1-MS PBX. It uses a radio access system and enables the users to make and receive telephone calls anywhere in the area that is covered by the system base stations.

- [] 7.2 The system consists of an radio exchange unit (RE) connected to the PBX, several base stations and several portable telephones. The coverage is established by means of the pico-cellular network consisting of a number of base stations connected to the RE. By means of handovers from pico-cell to pico-cell, the user can roam within the covered area while maintaining the call without degradation of quality.
- [] 7.3 All functions that are available on a normal wired analog telephone connected to the PBX are also available on the cell phone system. The cell phones themselves are similar in operation to other commercially available cordless/cellular telephones. Built in voice encryption and phone authentication ensures privacy and secure communications.

8. FEDERAL TELECOMMUNICATIONS SYSTEM (FTS 2000)

- [] 8.1 The FTS 2000 System is a standard commercial telephone service and requires no complicated operating instructions. It is independent of all other telephone service and is installed and operated by the NRC. It provides a separate government communications network for all essential communication functions. This avoids the problem of heavy traffic loads, that in many emergency cases, overload local telephone company switching capabilities. Some of the FTS 2000 emergency communications functions are:

- [] 8.1.1 EMERGENCY NOTIFICATION SYSTEM (ENS)

- [] 8.1.1.1 The primary number, when dialed, connects CNS to the NRC Operations Center. Designated numbers are listed on the ENS telephones located in the Control Room, TSC, and EOF.

- [] 8.1.1.2 Alternate communication to the NRC Headquarters is provided by the Health Physics Network and the commercial PBX extensions which also have emergency bypass capabilities as explained in Steps 3.3 and 3.4.

- [] 8.1.2 HEALTH PHYSICS NETWORK (HPN)

- [] 8.1.2.1 The primary number, when dialed, connects CNS to the NRC Operations Center. Designated numbers are listed on the HPN telephones located in the TSC and EOF.

- [] 8.1.2.2 Backup for this network is provided by the commercial PBX extensions which also have emergency bypass capabilities as explained in Steps 3.3 and 3.4.

- [] 8.1.3 EMERGENCY RESPONSE DATA SYSTEM (ERDS)
 - [] 8.1.3.1 This is a line over which the raw reactor parametric data is transmitted from the site to the NRC.
 - [] 8.1.3.2 ERDS is activated in the Control Room within 1 hour of the declaration of an ALERT or higher emergency classification using the PMIS START/STOP Menu.
- [] 8.1.4 Other communication lines established between the NRC Site Team representatives and the NRC Base Team.
 - [] 8.1.4.1 Reactor Safety Counterpart Link.
 - [] 8.1.4.2 Protective Measures Counterpart Link.
 - [] 8.1.4.3 Management Counterpart Link.
 - [] 8.1.4.4 NRC Local Area Network Access.

9. MICROWAVE TELEPHONE NETWORK

- [] **NOTE** - The General Office in Columbus may be reached on this network. The desired telephone numbers are found in the Emergency Telephone Directory.
- [] 9.1 This NPPD Private Switching Network is accessed by dialing the digit 6 on any PBX extension. When the dial tone is heard, the desired telephone number may be dialed.
- [] 9.2 Backup communications for this network is provided by the commercial telephone system.

10. LOCAL TELEPHONES (CENTRAL OFFICE LINES - ALLTEL COMMUNICATIONS)

- [] 10.1 These are direct telephone lines to the ALLTEL Communications Brownville Central Office with extensions located in the Control Room, TSC, and EOF. Calls to Brownville and local, dial 7 digit number. Other calls are 1 + 10 digit number. These phones are plainly labeled with an 825 and the 4 digit individual extension number.
 - [] 10.1.1 One central office line is located in the Control Room.
 - [] 10.1.2 One central office line is located in the TSC.
 - [] 10.1.3 Two central office lines are located in the EOF Dose Assessment Area.

- [] 10.2 There are also telephones which are designed to automatically bypass the CNS PBX Switch in a power-fail situation. These "Bypass" telephones are designed to connect to Central Office lines and act in the same manner as the three lines listed above. The locations of these bypass telephones are listed below:

<u>C.O. Line Number</u>	<u>Location</u>	<u>Extension</u>
825-3811	Access Control	Normally inactive
825-3821	SAS	5276
825-3831	CAS	5374
825-3841	Switchboard	Normally inactive
825-3851	Admin 1st Floor	Normally inactive
825-3861	Control Room	5614
825-3871	Plant Manager's Office	Normally inactive

11. NATIONAL WARNING SYSTEM (NAWAS)

- [] 11.1 This party-line network is operationally controlled by Attack Warning Officers at the National Warning Centers of the Federal Emergency Management Agency (FEMA).

- [] **NOTE** - Detailed instructions for use of this network are posted near the telephone set located in the Control Room.

- [] 11.1.1 Lifting the handset connects to the system.

- [] 11.1.2 The push-to-talk button on the inside face of the handset shall be pressed to transmit. Because it is a party line, conversations should be of short duration.

12. CNS STATE NOTIFICATION TELEPHONE SYSTEM

- [] 12.1 If a declared emergency takes place at CNS, emergency notifications are made to the State of Nebraska, State of Missouri, Atchison County, Missouri, and Nemaha County, Nebraska, using the CNS State Notification Telephone System.

- [] 12.2 CNS State Notification Telephones are located in the Control Room, TSC, and EOF.

- [] 12.3 The CNS State Notification Telephone System is a conference-calling system. When the handset to this hotline is picked up and the "Group Call" button is pushed, dedicated telephones will automatically ring at Nebraska State Patrol, Missouri State Patrol, Atchison County Sheriff's Department, and Nemaha County Sheriff's Department. The utilization of law enforcement agencies as initial points of contact provides for 24 hour coverage. The dedicated lines listed also have extension lines which ring at the following facilities respectively: Nebraska State Civil Defense EOC, Missouri State Emergency Management EOC, Atchison County EOC, and Nemaha County EOC. Once the EOCs become operational, notifications may be made using the extension lines at the EOCs with concurrence between the respective EOC and law enforcement agency.

13. SITE 450 MHZ BASE STATION REPEATERS

- [] 13.1 CNS has two in-house 450 MHZ repeaters designated as Base 1 and Base 2. These stations operate on different frequencies. However, all remote control points, portable and mobile units, are equipped for selecting and utilizing either system. Specific groups are assigned a specific base station to reduce interference.
- [] 13.2 Normal operating procedure is for Operations to monitor F1. However, when Operations is involved in communication with Maintenance, Fire Protection, Radiological Protection, or other Operations personnel, Base 2, F3, shall be utilized.
- [] 13.3 Operation of the Base 1 repeater, remote control point, portable and mobile units, can be in any of following modes:
 - [] 13.3.1 OPERATION OF BASE 1 FROM REMOTE CONTROL POINTS
 - [] 13.3.1.1 Remote control points are located in the Control Room, CAS, SAS, Security, EOF, AEOF, and TSC. All control points can control Base 1 by selecting Base 1 on their console and can communicate to all mobile and portable units.

- [] 13.3.2 OPERATION OF THE PORTABLE AND MOBILE UNITS (F1 FUNCTION)
 - [] 13.3.2.1 All mobile and portable units can communicate with the remote control points connected to Base 1 by placing the frequency selecting switch in the F1 position. Their transmission will be received at the Base 1 receiver. All remote control points will receive the transmission. In addition, the transmission will be simultaneously retransmitted by Base 1 and all other mobile and portable units will receive it.
- [] 13.3.3 OPERATION OF DIRECT COMMUNICATIONS BETWEEN THE PORTABLE AND MOBILE UNITS BY BYPASSING BASE 1 (F2 FUNCTION) COMMONLY KNOWN AS "TALK AROUND"
 - [] 13.3.3.1 All mobile and portable units are capable of communicating directly to each other by selecting the F2 position on the frequency selection switch. This operation bypasses the Base 1 receiver. Consequently, the message is not heard by the remote control points and is not simultaneously retransmitted by Base 1.
- [] 13.4 Operation of the Base 2 repeater, remote control point, portable and mobile units, can be in any of the following modes:
 - [] 13.4.1 OPERATION OF BASE 2 FROM REMOTE CONTROL POINTS
 - [] 13.4.1.1 Remote control points are located in the Control Room, CAS, SAS, Security, EOF, AEOF, and TSC. All control points can control Base 2 by selecting Base 2 on their console and can communicate to all mobile and portable units.
 - [] 13.4.2 OPERATION OF THE PORTABLE AND MOBILE UNITS (F3 FUNCTION)
 - [] 13.4.2.1 All mobile and portable units can communicate with the remote control points connected to Base 2 by placing the frequency selecting switch in the F3 position. Their transmission will be received at the Base 2 receiver. All remote control points will receive the transmission. In addition, the transmission will be simultaneously retransmitted by Base 2 and all other mobile and portable units.

[] 13.4.3 OPERATION OF DIRECT COMMUNICATIONS BETWEEN THE PORTABLE AND MOBILE UNITS BY BYPASSING BASE 2 (F4 FUNCTION) COMMONLY KNOWN AS "TALK AROUND"

[] 13.4.3.1 All mobile and portable units are capable of communicating directly to each other by selecting the F4 position on the frequency selection switch. This operation bypasses the Base 2 receiver. Consequently, the message is not heard by the remote control points and is not simultaneously retransmitted by Base 2.

[] 13.5 Under normal operating conditions, group assignments for base station repeaters will be as follows:

[] **NOTE 1** - If one of the base station repeaters should fail, all personnel shall be instructed to switch operations to the functional system.

[] **NOTE 2** - Cross-channel communication with local law enforcement can be accomplished by encoding Base 1 or Base 2. The Auburn Sheriff's Department has a monitor receiver for each base.

[] **NOTE 3** - Paging of off-duty personnel can only be accomplished via Base 2.

[] 13.5.1 Base 1 (F1 & F2) - Security, Mobile Units, Cross Band, and Encoding.

[] 13.5.2 Base 2 (F3 & F4) - Maintenance, Operations, Paging, Fire, and RP.

14. CROSS-BAND RADIO COMMUNICATIONS WITH NEMAHA COUNTY SHERIFF'S OFFICE

[] 14.1 A cross-band, two-way radio communications system exists between CNS and the Nemaha County Sheriff's Office. Cross-band means the Sheriff's Office has monitor receivers on CNS's frequency Base 1 and Base 2 and CNS has a monitor receiver on the Sheriff's Office frequency.

- [] **NOTE** - If Base 1 is selected for cross-band operation, only the receiver which is on its frequency shall respond at the Sheriff's office. This also applies to Base 2.
- [] 14.1.1 The monitor receivers at the Nemaha County Sheriff's Office are coded and remain inoperative until they receive a code signal from CNS. The CNS monitor receiver is normally turned off. This receiver should be turned on prior to any attempt to test or communicate with the Nemaha County Sheriff's Office. The coding on the two monitor receivers at the Nemaha County Sheriff's Office are identical for CNS's Base 1 and Base 2. Only the receiver frequencies are different. The determination of which receiver is activated is determined by which base at CNS is selected for cross-band operation.
- [] 14.2 This cross-band system can also be used for emergency and medical communications. The Nemaha County Sheriff's Office is equipped with the emergency medical frequencies. If this type of communication is necessary, establish voice contact with the Nemaha County Sheriff's Office as described above. When communication has been established, request the Sheriff's Office to relay messages between you and the emergency vehicle. CNS's ambulance is also equipped with radio communication directly with the Sheriff's office and/or hospitals equipped with radios on the emergency medical frequency.
- [] 14.2.1 To establish radio communications with the Nemaha County Sheriff's Office:
 - [] 14.2.1.1 Turn on the CNS's monitor receiver and adjust the volume and select which base station you wish to utilize.
 - [] 14.2.1.2 Depress Code buttons 1 and 2, in that order, on the paging encoder. The code selected will appear on the LED readout on the encoder.
 - [] 14.2.1.3 Depress and release the P button on the encoder. The coded signal will automatically be transmitted to Auburn.
 - [] 14.2.1.4 When the red light on the remote control console goes out, voice communications between the Nemaha County Sheriff's Office and CNS has been established and normal radio operating procedures can be utilized.

15. RADIO PAGING SYSTEM OPERATION

[] 15.1 RADIO PAGING SYSTEM OPERATION

[] 15.1.1 CNS leases digital pagers and radio paging services from a telecommunications company. Pagers are issued to various Management and Emergency Response Personnel at CNS and other NPPD locations. Pagers can be activated from any touch-tone phone, on or off-site. Any call-back number may be displayed on the pager.

[] 15.1.2 TO SEND AN INDIVIDUAL PAGE

[] 15.1.2.1 Call the telephone number associated with the individual pager.

[] 15.1.2.2 A list of telephone numbers for individual pagers can be found in the TSC or EOF.

[] 15.1.2.3 A computer voice will ask you to enter your numeric message after the tone. If necessary, leave a 3-digit event code along with the call-back number.

[] 15.1.2.4 A table of 3-digit event codes can be found in Step 15.4.

[] 15.1.3 TO SEND A GROUP PAGE

[] 15.1.3.1 An All-Call group page is usually activated by the CNS ANS (refer to Section 8.14). However there is a "backup" method which allows the pagers to be activated by any touch-tone telephone. This backup method is password protected. Refer to Procedure 5.7.6 for further instructions.

[] 15.1.3.2 Call the telephone number associated with the specific group of pagers.

[] 15.1.3.3 A list of telephone numbers for specific groups of pagers can be found in the "Pager" section of the Emergency Telephone Directory.

[] 15.1.3.4 A computer voice will ask you to enter your numeric message after the tone. If necessary, leave a 3-digit event code along with the call-back number.

[] 15.1.3.5 A table of 3-digit event codes can be found in Step 15.4.

[] 15.2 PAGER INFORMATION

- [] 15.2.1 The pager ON/OFF switch is located on the side of the pager. Slide switch up all the way for audible paging, or half way up for vibration mode.
- [] 15.2.2 The pager will perform a "self-test" when first turned on. Eights will be displayed, it will beep, and the small red light will flash. If this does not occur, replace the battery and try again.
- [] 15.2.3 The display on the pager should always show the current time unless an unacknowledged page is in memory. In the audible mode, a small speaker symbol is also displayed. When in the vibrate mode, this symbol is absent. If there is an unacknowledged page stored in memory, the pager will "chirp" every 3 minutes until it is acknowledged.
- [] 15.2.4 The black button is used to clear the pages in memory, lock pages in memory or reset the pager clock.
- [] 15.2.5 See the informational leaflet distributed with the pagers for more information concerning pager features.
- [] 15.2.6 Replace the battery in the pager with an "AA" battery anytime it displays "LOW CELL". Batteries can be obtained at the CNS switchboard. The time displayed on the pager will have to be reset upon each change out of a pager battery.

[] 15.3 RESPONDING TO A PAGE

- [] 15.3.1 A pager will activate either audibly or by vibration, but only if it's turned on. It will also display the message "1 PAGE".
- [] 15.3.2 Press the gray "UP ARROW" button to display the page. The most recent page is displayed first. A second press of the gray button will show the time the page was received. As many as 16 pages may be stored in the pager's memory. Every other time the gray button is depressed, the pager displays the next oldest page. If the register of pages is empty, "NO PAGES" is displayed. A page will remain in the memory register until cleared or overwritten.

- [] 15.3.3 The pager may also display a Group 1, Group 2, Group 3, or Group 4. This group display identifies that the pager has been activated simultaneously with other pagers that are assigned to that particular group. The group display is informational only and has no bearing on response. Press the Grey button to scroll to the next screen and review the display digit code and call-back number.
 - [] 15.3.3.1 Group 1 is Emergency Preparedness Staff pagers.
 - [] 15.3.3.2 Group 2 is On-Shift Station Operator pagers.
 - [] 15.3.3.3 Group 3 is Emergency Medical Technician pagers.
 - [] 15.3.3.4 Group 4 is all EP Department Issued pagers. (All-Call for Emergency Response.)
- [] 15.3.4 Pager display codes in effect are described in the table in Step 15.4. These informational codes appear as the first three (3) digits of the display and can be any combination of digits defined in the table. The informational codes are followed by a seven digit telephone number which should be called immediately.
 - [] 15.3.4.1 EXAMPLE: 211-8255560. This would indicate an Alert declaration with Emergency Response Facility Activation and responders to the plant should use their normal driving route.
- [] 15.3.5 Return a call back to the telephone number displayed on the pager after the 3-digit code. Normally, if an emergency has been declared, the call-back number will be to the CNS ANS.

- [] **NOTE 1** - Reference the laminated, wallet sized, Pager Information Card for immediate help after a page if codes are displayed.
- [] **NOTE 2** - If no telephone number appears, contact the CNS Control Room by dialing (402) 825-5271.
- [] **NOTE 3** - All telephone calls to CNS from any telephone exchange other than Brownville will require dialing Area Code: "402."
- [] 15.4 PAGER CODES AND INFORMATION/ACTION SUMMARY

X CODE	Y CODE	Z CODE
0 - DRILL	0 - <u>No</u> Facilities are being Activated, Standby.	0 - Do <u>not</u> Respond to Plant.
1 - NOUE	1 - TSC/OSC/EOF are being activated.	1 - Use your Normal Route to Plant.
2 - ALERT		2 - Use <u>South</u> Access Road to Plant.
3 - SITE AREA EMERGENCY		3 - Use <u>North</u> Access Road to Plant.
4 - GENERAL EMERGENCY		
5 - DISREGARD PREVIOUS PAGE		

16. CNS AUTOMATED NOTIFICATION SYSTEM (CNS ANS)

- [] 16.1 The CNS Automated Notification System (CNS ANS), located in the EOF, is a PC loaded with software provided by Dialogics Communications Inc. The system has access to multiple inbound and outbound telephone lines. The system is interactive with the user, similar to the "Voice Mail" system used at CNS. There is a system printer attached and it also has FAX and Modem capabilities. A variety of reports can be generated at the system control console. Reports can also be faxed to any location having a FAX machine.
- [] 16.1.1 The system has been programmed by the Emergency Preparedness Staff with several pre-defined scenarios which cover the spectrum of Emergency Classifications and the associated ERO response expected. The system is activated by the Emergency Director according to instructions provided in Procedure 5.7.6. When a specific scenario is queued and executed, the CNS ANS will activate all pagers that are issued from CNS.
- [] 16.1.2 Simultaneously, the system will start to place outbound telephone calls to non-pager carriers, while accepting inbound calls from pager carriers calling back in response to the global page. The CNS ANS will provide the responder with information concerning the emergency event and expected response. The system will also request specific information from the responder in the form of yes or no answers and numbers. For the system to be able to interact with responders, it is necessary for the responder to have a telephone capable of producing DTMF tones. Many telephones of this type are known as "pulse-tone switchable". This is because they have a pulse/tone switch that allows their operating mode can be adjusted, depending upon the type of telephone service that is provided by the local telephone company. The switch in this type of phone must be in the tone position when interfacing with the CNS ANS.
- [] 16.1.3 The system has been programmed to prompt the System Operator to record an "Current Scenario Message". In most cases, it is at the discretion of the Emergency Director to determine if such a message is necessary. If an "Current Scenario Message" is recorded, this message shall be delivered immediately after a prerecorded message. An "Current Scenario Message" should contain information such as the applicable EAL, information the responder needs to know regarding his safety prior to arriving at CNS, or specific information that is relevant to the emergency.

- [] 16.1.4 The system is currently programmed to print reports at the Emergency Response Facilities. These reports identify the personnel who are responding to the plant to fill identified positions and their approximate times of arrival. These reports will be used by ERO Facility Management to evaluate the success of the call-in of ERO to an event.
- [] 16.1.5 Activation or cancellation of any of the system scenarios can be accomplished via any touchtone telephone by calling into the system extension 5560 and entering a valid password. System control is accomplished from the control terminal in the EOF. All system functions and maintenance are password protected to prevent accidental or unauthorized activation.
- [] 16.2 RESPONDING TO THE CNS ANS BY TELEPHONE
 - [] 16.2.1 When the CNS ANS calls out to CNS personnel at home, the call flow is virtually identical to when personnel call in to it. The CNS ANS will not ask to speak to a specific individual. It will identify itself, prompt for the entry of a security badge number, and then wait several seconds for the information to be entered. If no information is entered, it will prompt again and wait. If after 3 attempts, no information is entered, the system shall hang up and call other personnel.
 - [] 16.2.2 When calling in to the CNS ANS please be aware that the CNS ANS has access to a limited number of inbound lines and there are hundreds of pagers issued at CNS. It will take several minutes for the system to process all calls. Be patient and if necessary, make more than one attempt to call back. For notification to be completely successful, you **MUST** make contact with the system. Your call will ring through when any one of the lines are open. If you keep getting a busy signal, wait a minute before calling again.
 - [] 16.2.3 Follow the instructions provided by the CNS ANS. The CNS ANS will ask for your **4-digit** security badge number that you request from Security Access Control. Be sure to include the zeros in your number (i.e., 0008, 0027, 0276, 2080, etc.). After you enter the 4th digit, push the # key.
 - [] 16.2.4 All information requested by the system is verified after entry. This is done by a repeat back of the information and then the request to enter a **9** for **YES** or **6** for **NO** as to the correctness of the information. If you provide wrong information, realize it, and then enter a 6, the system will erase the information and prompt for the information again.

- 16.2.5 Do not hang up the telephone until you hear the system say, "Thank you, Goodbye". Only then, will you know that you have provided all the necessary information, and heard all the information that needs to be provided to you.

- 17. DISTRICT STATE-WIDE RADIO SYSTEM (48.180 AND 47.960 MHz) (F1 AND F2 RESPECTIVELY)
 - 17.1 CNS has a base station which operates on the District's state-wide radio system frequencies.
 - 17.2 This station is controlled from remote control consoles located at the EOF, AEOF, TSC, and Control Room.
 - 17.3 This station is capable of communicating with any other base station, mobile, or portable units which are equipped to operate on the state-wide system.

ATTACHMENT 1 EMERGENCY RESPONSE FACILITY COMMUNICATION EQUIPMENT

COMMUNICATIONS SYSTEM	OSC	EOF	TSC	CR	JIC	AEOF	AOSC	COMMENTS
1. Telephone PBX	X	X	X	X	X	X	X	Off-site Dial "9 + 1" Primary on-site/off-site communications
2. Station Intercom System "Gaitronics"	X	X	X	X			X	Other extensions available in various areas throughout the station
3. Sound Power System			X	X			X	Other outlets available in various areas throughout the station
4. Alternate Intercom System	X	X	X	X	X		X	Extensions available in other areas of the plant
5. FTS 2000 (ENS, HPN, EROs, NRC Site Team phones)		X	X	X				Dial telephone number listed on top of telephone
6. NPPD Microwave Network	X	X	X	X	X	X	X	District Wide
7. Telephone extensions to local exchange		X	X	X	X	X		None
8. NAWAS				X				None
9. CNS State Notification Telephone System		X	X	X				Hotline to states and counties
10. Site Base Station Repeater Consoles		X	X	X		X		None
11. Cross-Band Encoding				X				None
12. Radio Paging System	X	X	X	X	X	X	X	Leased Service
13. District State-Wide Radio System		X	X	X		X		District Wide
14. CNS On-Site Digital Cell Phone System	X	X	X	X			X	Functional and Available at Various Plant Locations
15. CNS Automated Notification System	X	X	X	X	X	X	X	Used for call-in of ERO personnel

1. DISCUSSION

- 1.1 The emergency response staff has available to it various types of communications equipment which allows for effective communications to both on-site and off-site groups.
- 1.2 Required notification of off-site groups is accomplished as outlined in Procedure 5.7.6. Communications with on-site or off-site groups is the responsibility of the Emergency Director, through cognizant individuals in each Emergency Response Facility. The basic philosophy is to minimize outside distractions to the Emergency Director so he can devote full attention to managing emergency mitigation and response activities.

2. REFERENCES

2.1 CODES AND STANDARDS

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

2.2 PROCEDURES

- 2.2.1 System Operating Procedure 2.2.4, Communications Systems.
- 2.2.2 Emergency Plan Implementing Procedure 5.7.6, Notification.