



**Nebraska Public Power District**  
*Nebraska's Energy Leader*

NLS2002059

April 24, 2002

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 34	"Notification"
EPIP 5.7.6	Revision 34C1	"Notification"
EPIP 5.7.17	Revision 27	"Dose Assessment"
EPIP 5.7.21	Revision 24	"Maintaining Emergency Preparedness-Emergency Exercises, Drills, Tests, and Evaluations"
EPIP 5.7.22	Revision 22	"Communications"
EPIP 5.7.23	Revision 3	"Activation Of The JIC"

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

Sincerely,

J.A. Hutton  
Plant Manager

/nr

Enclosures

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

Senior Resident Inspector w/enclosures  
USNRC

NPG Distribution w/o enclosures

Records w/o enclosures

A045



<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.6  NOTIFICATION	USE: REFERENCE  EFFECTIVE: 4/13/02 APPROVAL: SORC OWNER: R. J. FISCHER 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 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.
- [ ] 3.3 If pager activation is required, then go to Attachment 4 and continue.

### 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 ODA 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 ( $\mu\text{Ci}/\text{sec}$ ) 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 ERO NOTIFICATION/STAFF AUGMENTATION

- [ ] **NOTE** - ERO Notification/Staff Augmentation should be performed prior to initial notifications to State and Local Governmental Agencies and NRC Notifications. This will maximize the response time available to the ERO Staff.
- [ ] 5.1.1 Immediately after the declaration of an emergency, the Emergency Director should ensure the CNS Automated Notification System (ANS) 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.

[ ] 5.2 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.

[ ] 5.2.1 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 Shift Communicator.

[ ] 5.2.3 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.

[ ] 5.2.4 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 blank in Section 1 of Attachment 2.

[ ] 5.2.5 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 5.2.6, do not proceed to quickly.

[ ] 5.2.6 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.

- [ ] 5.2.7 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.
- [ ] 5.2.8 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 four agencies are conferenced in. When all agencies are on-line, proceed with the notification. If all four agencies cannot be conferenced in, attempt contact by individual number as in Step 5.2.7.
- [ ] 5.3 FOLLOW-UP NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES
  - [ ] 5.3.1 The Shift Communicator shall complete Attachment 1, Sections 1 through 7, and forward to the Emergency Director for approval.
  - [ ] 5.3.2 The Emergency Director shall review, edit if necessary, approve (sign) Attachment 1, and return it to the Communicator.
  - [ ] 5.3.3 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.
- [ ] 5.4 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.
  - [ ] 5.4.1 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.

- [ ] 5.4.2 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.
- [ ] 5.4.3 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.
  - [ ] 5.4.3.1 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.
  - [ ] 5.4.3.2 Report any further degradation in the level of safety of the plant or other worsening plant conditions.
  - [ ] 5.4.3.3 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.
- [ ] 5.4.4 If the ENS telephone is inoperable, contact via normal telephone using alternate numbers as listed in the Emergency Telephone Directory.
- [ ] 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, 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 four 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, Sections 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 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 and instructed to contact the Shift Communicator in the Control Room. Upon being contacted by the PADO, the Shift Communicator will ensure all information from the Initial CNS Notification Report is relayed to the PADO. In such cases that it is not feasible to relay the information via telephone in a timely manner, the Notification Report may be faxed to the PADO. PADO 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).
- [ ] **NOTE** - Refer to Step 8.1.3.
- [ ] 8.1.4.1 Assist the Shift Communicator in ensuring communications are established with the PADO and information from the CNS Notification Reports is relayed to the PADO per Procedure 5.7.23.
- [ ] 8.1.4.2 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.
- [ ] 8.1.4.3 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**

<b>Notification Report Number:</b> _____		<b>Time of Transmittal:</b> _____		
<input type="checkbox"/> Initial Report (Complete Sections 1-7 only)		<input type="checkbox"/> Follow-Up Report		
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	Precipitation: <input type="checkbox"/> Yes <input type="checkbox"/> No	
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				
4) ODAM Airborne Release Values: There <input type="checkbox"/> is <input type="checkbox"/> no Release of Radioactive Material Greater than ODAM Limits.				
ERP = 7.28E5 µCi/sec		<input type="checkbox"/> was <input type="checkbox"/> an airborne		
TG Bldg = 3.6E4 µCi/sec				
RX Bldg = 3.3E4 µCi/sec				
ARW bldg = 3.6E4 µCi/sec		<input type="checkbox"/> will be <input type="checkbox"/> a liquid		
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 (required on follow-up Notifications with release greater than ODAM limits):				
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)	
Estimated 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 Signature: _____			Date: _____	Time: _____

**ATTACHMENT 2 COOPER NUCLEAR STATION SHIFT COMMUNICATOR  
NOTIFICATION REPORT RECORD**

**Notification Report Number:** \_\_\_\_\_

1. 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		

2. 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
NEMA 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: _____			
<b>Record any comments, difficulties, or observations you had while making this notification.</b>			

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 using alternate numbers in the Emergency Telephone Directory or Speed Dial, if ENS is inoperable.

NRC	ENS Telephone	Alternate	Person Contacted	Time
	Dial # on Phone Sticker	ETD or Speed Dial - 10		

<b>ATTACHMENT 2    COOPER NUCLEAR STATION SHIFT COMMUNICATOR NOTIFICATION REPORT RECORD</b>
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4.    TRANSFER OF NRC NOTIFICATION RESPONSIBILITY TO THE TSC. 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.

Name of ENS Communicator	Performed By	Time

5.    TRANSFER OF STATE AND LOCAL GOVERNMENTAL AGENCIES NOTIFICATION RESPONSIBILITY TO THE EOF. 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.

Name of Off-Site Communicator	Performed By	Time

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
NEMA 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		
American Nuclear Insurers (ANI)	(860) 561-3433		

Communicator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**ATTACHMENT 4    ACTIVATION OF THE CNS AUTOMATED NOTIFICATION SYSTEM (CNS ANS)**

**NOTE** - If ERO activation is desired but current conditions are unsafe for ERO personnel, use code 333. This will assemble the ERO at the Alternate EOF until conditions allow ERO response to the site.©

SCENARIO ID	SCENARIO DESCRIPTION
100	NOUE- EP COORDINATOR AND PADO RESPONSE ONLY
222	ERO RESPOND TO CNS
333	ERO RESPOND TO ALTERNATE EOF
600	DRILL - ERO CALL IN TEST
622	DRILL - ERO RESPOND TO CNS
633	DRILL - ERO RESPOND TO ALTERNATE EOF

**CAUTION** - Hanging up the phone prior to hearing the machine say "goodbye" will cause the dialogics system to lock-up.

1. If a "Current Scenario Message" is desired, go to Step 6.
2. At the State Notification Telephone, pick up receiver and PRESS the "ACTIVATE DIALOGICS" button.
3. Wait until voice is heard, then PRESS desired "SCENARIO" (e.g., 222, 333) button.
4. Following a 10 second delay, you will hear "Goodbye", then hang up phone.
5. Verify pagers activate within 2 minutes and perform the following:
  - 5.1 If pagers activate, exit this attachment.
  - 5.2 If pager activation is not successful, notify ED and proceed to Attachment 5.
6. Call into the CNS ANS by dialing telephone extension 8579.
7. Enter ED password followed by # sign.
8. To start a scenario, enter the scenario ID number from the list above followed by the # sign. Scenario Number = \_\_\_\_\_.
9. The system will verify the event code by speaking it to you. Press 2.
10. If you do not wish to record a "Current Scenario Message", proceed to Step 13.

ATTACHMENT 4    ACTIVATION OF THE CNS AUTOMATED NOTIFICATION SYSTEM (CNS ANS)
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11. 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.

Current Scenario Message: (tone) \_\_\_\_\_  
\_\_\_\_\_ (#)

12. 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.
13. Press "3" to activate the chosen scenario.
14. **PRESS "#"** to disconnect from the system.

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

If it is desired to record a current scenario message, go to the "Voice mail Message Preparation" section. If pager activation without current scenario message is desired, go to the Pager activation using the "**State Notification Telephone**" below.

**Pager activation using the State Notification Telephone:**

1. At **State Notification Telephone**, pick up receiver and hit "Activate Backup" button.
2. When prompted for password, hit "password" button.
3. When prompted for scenario, press desired "Scenario" button (e.g., 222, 333).
4. When the system states "Thank you for using ATS", hang up the phone.
5. If pagers activate, notify ED and exit this Attachment.
6. If pagers do not activate within 2 minutes, notify ED and using another phone attempt to activate pagers using manual method below.

**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: 222 825-5522 - This represents a declared emergency 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 Emergency Management Agency EOC, Missouri State Emergency Management Agency 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 Emergency Plan Implementing Procedure 5.7.23, Activation of the JIC.

### 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 on Attachment 4 NOTE prior to Scenario ID table.

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.6  NOTIFICATION	USE: REFERENCE EFFECTIVE: 4/17/02 APPROVAL: SORC OWNER: R. J. FISCHER 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 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.

- 3.3 If pager activation is required, then go to Attachment 4 and continue.

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 ODA 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 ODA 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 ( $\mu\text{Ci}/\text{sec}$ ) 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 ERO NOTIFICATION/STAFF AUGMENTATION

- [ ] **NOTE** - ERO Notification/Staff Augmentation should be performed prior to initial notifications to State and Local Governmental Agencies and NRC Notifications. This will maximize the response time available to the ERO Staff.
- [ ] 5.1.1 Immediately after the declaration of an emergency, the Emergency Director should ensure the CNS Automated Notification System (ANS) 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.

5.2 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.
- [ ] 5.2.1 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 Shift Communicator.
- [ ] 5.2.3 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.
- [ ] 5.2.4 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 blank in Section 1 of Attachment 2.
- [ ] 5.2.5 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 5.2.6, do not proceed to quickly.
- [ ] 5.2.6 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.

- [ ] 5.2.7 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.
- [ ] 5.2.8 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 four agencies are conferenced in. When all agencies are on-line, proceed with the notification. If all four agencies cannot be conferenced in, attempt contact by individual number as in Step 5.2.7.

5.3 FOLLOW-UP NOTIFICATIONS TO STATE AND LOCAL GOVERNMENTAL AGENCIES

- [ ] 5.3.1 The Shift Communicator shall complete Attachment 1, Sections 1 through 7, and forward to the Emergency Director for approval.
- [ ] 5.3.2 The Emergency Director shall review, edit if necessary, approve (sign) Attachment 1, and return it to the Communicator.
- [ ] 5.3.3 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.

5.4 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.
- [ ] 5.4.1 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.

- [ ] 5.4.2 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.
- [ ] 5.4.3 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.
  - [ ] 5.4.3.1 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.
  - [ ] 5.4.3.2 Report any further degradation in the level of safety of the plant or other worsening plant conditions.
  - [ ] 5.4.3.3 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.
- [ ] 5.4.4 If the ENS telephone is inoperable, contact via normal telephone using alternate numbers as listed in the Emergency Telephone Directory.

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, 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 four 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, Sections 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 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 and instructed to contact the Shift Communicator in the Control Room. Upon being contacted by the PADO, the Shift Communicator will ensure all information from the Initial CNS Notification Report is relayed to the PADO. In such cases that it is not feasible to relay the information via telephone in a timely manner, the Notification Report may be faxed to the PADO. PADO 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).
  - [ ] **NOTE** - Refer to Step 8.1.3.
  - [ ] 8.1.4.1 Assist the Shift Communicator in ensuring communications are established with the PADO and information from the CNS Notification Reports is relayed to the PADO per Procedure 5.7.23.
  - [ ] 8.1.4.2 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.
  - [ ] 8.1.4.3 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.

<b>Notification Report Number:</b> _____		<b>Time of Transmittal:</b> _____		
[ ] Initial Report (Complete Sections 1-7 only)		[ ] Follow-Up Report		
1) Name of CNS Communicator: _____		Call Back Number: 402-825- _____		
2) Classification: [ ] NOUE; [ ] Alert; [ ] Site Area; [ ] General		EAL Number: _____		
Event Declared (Date/Time): _____		Event Terminated (Date/Time): _____		
3) Meteorological Conditions	Wind Speed: _____ MPH	Wind From: _____ Degrees	Precipitation: [ ] Yes [ ] No	
Stability Class: [ ] A; [ ] B; [ ] C; [ ] D; [ ] E; [ ] F; [ ] G				
4) ODAM Airborne Release Values: There [ ] is [ ] no Release of Radioactive Material Greater than ODAM Limits. ERP = 7.28E5 $\mu$ Ci/sec TG Bldg = 3.6E4 $\mu$ Ci/sec [ ] was [ ] an airborne RX Bldg = 3.3E4 $\mu$ Ci/sec [ ] will be [ ] a liquid ARW bldg = 3.6E4 $\mu$ Ci/sec				
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: [ ] Stable; [ ] Unstable		Plant Status: [ ] at Power; [ ] Shutdown		
7) Remarks: _____				
8) Release Information (required on follow-up Notifications with release greater than ODAM limits):				
Release From: [ ] ERP; [ ] Reactor Building; [ ] Turbine Building; [ ] Aug Radwaste Building; [ ] Other: _____				
Release Height: [ ] 300 ft (ERP); [ ] 30 ft (RB, TB, ARWB); [ ] Other: _____ ft			Release Rate (Ci/sec)	
Estimated 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 Signature: _____		Date: _____	Time: _____	

**Notification Report Number:** \_\_\_\_\_

1. 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		

2. 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
NEMA 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: _____			
<b>Record any comments, difficulties, or observations you had while making this notification.</b>			

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 using alternate numbers in the Emergency Telephone Directory or Speed Dial, if ENS is inoperable.

NRC	ENS Telephone	Alternate	Person Contacted	Time
	Dial # on Phone Sticker	ETD or Speed Dial - 10		

4. TRANSFER OF NRC NOTIFICATION RESPONSIBILITY TO THE TSC. 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.

Name of ENS Communicator	Performed By	Time

5. TRANSFER OF STATE AND LOCAL GOVERNMENTAL AGENCIES NOTIFICATION RESPONSIBILITY TO THE EOF. 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.

Name of Off-Site Communicator	Performed By	Time

Communicator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**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
NEMA 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		
American Nuclear Insurers (ANI)	(860) 561-3433		

Communicator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**NOTE** - If ERO activation is desired but current conditions are unsafe for ERO personnel, use code 333. This will assemble the ERO at the Alternate EOF until conditions allow ERO response to the site.©

SCENARIO ID	SCENARIO DESCRIPTION
100	NOUE- EP COORDINATOR AND PADO RESPONSE ONLY
222	ERO RESPOND TO CNS
333	ERO RESPOND TO ALTERNATE EOF
600	DRILL - ERO CALL IN TEST
622	DRILL - ERO RESPOND TO CNS
633	DRILL - ERO RESPOND TO ALTERNATE EOF

**CAUTION** - Hanging up the phone prior to hearing the machine say "goodbye" will cause the dialogics system to lock-up.

1. If a "Current Scenario Message" is desired, go to Step 6.
2. At the ANS Activation Module, pick up receiver and PRESS the "ACTIVATE DIALOGICS" button.
3. Wait until voice is heard, then PRESS desired "SCENARIO" (e.g., 222, 333) button.
4. Following a 10 second delay, you will hear "Goodbye", then hang up phone.
5. Verify pagers activate within 2 minutes and perform the following:
  - 5.1 If pagers activate, exit this attachment.
  - 5.2 If pager activation is not successful, notify ED and proceed to Attachment 5.
6. Call into the CNS ANS by dialing telephone extension 8579.
7. Enter ED password followed by # sign.
8. To start a scenario, enter the scenario ID number from the list above followed by the # sign. Scenario Number = \_\_\_\_\_.
9. The system will verify the event code by speaking it to you. Press 2.
10. If you do not wish to record a "Current Scenario Message", proceed to Step 13.

11. 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.

Current Scenario Message: (tone) \_\_\_\_\_  
\_\_\_\_\_ (#)

12. 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.
13. Press "3" to activate the chosen scenario.
14. **PRESS "#"** to disconnect from the system.

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

If it is desired to record a current scenario message, go to the "Voice mail Message Preparation" section. If pager activation without current scenario message is desired, go to the Pager activation using the "**ANS Activation Module**" below.

**Pager activation using the ANS Activation Module:**

1. At **ANS Activation Module**, pick up receiver and hit "Activate Backup" button.
2. When prompted for password, hit "password" button.
3. When prompted for scenario, press desired "Scenario" button (e.g., 222, 333).
4. When the system states "Thank you for using ATS", hang up the phone.
5. If pagers activate, notify ED and exit this Attachment.
6. If pagers do not activate within 2 minutes, notify ED and using another phone attempt to activate pagers using manual method below.

**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: 222 825-5522 - This represents a declared emergency 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 Emergency Management Agency EOC, Missouri State Emergency Management Agency 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 Emergency Plan Implementing Procedure 5.7.23, Activation of the JIC.

### 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 on Attachment 4 NOTE prior to Scenario ID table.

<p><u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.17</p> <p>DOSE ASSESSMENT</p>	<p>USE: REFERENCE <sup>⊕</sup> EFFECTIVE: 4/13/02 APPROVAL: SORC OWNER: J. A. BEDNAR DEPARTMENT: EP</p>
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1. PURPOSE
- [ ] 1.1 This procedure provides instructions for performing a dose projection using the CNS-DOSE Computer Program.
  - [ ] 1.2 This procedure provides a manual backup method for performing dose assessment.
  - [ ] 1.3 This procedure provides instructions for making a rapid gross estimation of core damage based on in-containment high range radiation monitor readings for primary containment LOCA events.

- 1.4 This procedure provides instructions for obtaining meteorological data from alternate sources if the primary sources are not available. The general order of preference will be PMIS, MET System, National Weather Service, and then the use of historically determined default values.

## 2. PRECAUTIONS AND LIMITATIONS

- 2.1 Actual dose rates will vary as a function of:
  - 2.1.1 The total curies released.
  - 2.1.2 Release rate.
  - 2.1.3 The duration of the release.
  - 2.1.4 The isotopic mixture of the release.
  - 2.1.5 Meteorological conditions.
- 2.2 Update and refine dose calculations upon significant changes in one or more of the above parameters.
- 2.3 Should a release occur which necessitates rapid decision making concerning the recommendation of protective actions, the guidance contained in Procedure 5.7.20 should be followed.
- 2.4 Attachment 7 should be used to estimate core damage only in cases where the high range in-containment radiation monitors are exposed to coolant or steam (i.e., only for primary containment LOCA situations). For other accident sequences a Reactor Coolant System (RCS) sample and Core Damage Assessment Program (CORDAM) must be used. The Post-Accident Sampling System (PASS) may be used, as required, to obtain the RCS sample.
- 2.5 If the needed KAMAN monitor(s) is(are) inoperable, Release Rate Determinations shall be performed using Procedure 5.7.16.

## 3. REQUIREMENTS

- 3.1 Ensure following equipment and materials are available, as needed:
  - 3.1.1 COMPUTERIZED DOSE PROJECTION (CNS-DOSE)
    - 3.1.1.1 Computer terminals.
    - 3.1.1.2 Computer printers.

[ ] 3.1.2 MANUALLY CALCULATED DOSE PROJECTION

[ ] 3.1.2.1 Environs map.

[ ] 3.1.2.2  $\chi/Q$  isopleths (off-centerline only).

[ ] 3.1.2.3 Scientific calculator.

[ ] 3.2 A release of airborne radioactive material has or may occur

[ ] **NOTE 1** - When Meteorological or Radiological data needed to perform dose assessment is unavailable or "unhealthy", refer to Attachment 5 for alternate sources of data. Health "quality codes" are defined in Attachment 6.

[ ] **NOTE 2** - If the user is not familiar with the use of PMIS, Attachment 6 provides an overview and instructions on access and selected use of PMIS.

4. COMPUTER DOSE PROJECTION (CNS-DOSE)

[ ] 4.1 To start the dose projection program on a PMIS terminal, enter the turn-on code "DOSE" on a terminal logged into either the Primary or Backup System.

[ ] 4.2 The dose projection program can also be run on a non-PMIS terminal. However, this is reserved for personnel having access to an account on the computer and familiar with its use. To start the dose projection program on a non-PMIS terminal, on either PMIS computer, login to an account that has privileges to run PMIS software and run program [NPPD.EXECUTE]NPDOSEZ.

[ ] 4.3 Each time the program is started or the "New Sample" option is selected, new data will be loaded into the program. Verify that Field 1 correctly indicates the origin of the release and the data displayed is "healthy" and correct. Health "quality codes" are defined in Attachment 6. Alternate sources of meteorological and radiological data needed to run CNS-DOSE or perform a hand-calculation are found in Attachment 5.

[ ] 4.4 Estimate the duration of release (consult with Operations and/or Engineering for this time estimate) in hours. If the estimated duration of release cannot be determined, use the 4 hour default value.

[ ] 4.5 Determine if SGT is in the effluent stream and if it is functional. Consult with Radiological, Operations, and Engineering personnel for this determination, if available.

- [ ] **NOTE** - The Iodine to Noble Gas ratio is very dependent on the answer to the core degraded question and has a significant impact on the resultant dose projection calculations. The core is considered to be degraded if any of the following listed conditions are met OR if they were met and have subsequently dropped below the condition threshold. The answer to the core degraded question is coordinated between Radiological Protection, Chemistry, Operations, and Engineering, if available.
  
- [ ] 4.6 Determine if the core is degraded (fuel cladding loss) as indicated by any of the following conditions:
  - [ ] 4.6.1 SJAЕ reading  $\geq$  15,000 mrem/hr.
  - [ ] 4.6.2 Reactor Coolant Sample  $>$  300  $\mu$ Ci/gm Dose Equivalent I-131.
  - [ ] 4.6.3 Primary Containment Monitor (Drywell Hi-range Radiation Monitor) reading  $>$  2500 Rem/hr.
  - [ ] 4.6.4 Reactor water level below 0" FZ (Fuel Zone).
  
- [ ] 4.7 DETERMINE IF RELEASE BYPASSES SECONDARY CONTAINMENT
  - [ ] 4.7.1 If release bypasses secondary containment (i.e., direct venting of drywell or a release from the Turbine Building), then enter Y.
  - [ ] 4.7.2 If release does not bypass secondary containment, then enter N.
  
- [ ] 4.8 Make corrections or changes, as necessary.
  
- [ ] 4.9 Use the ENTER key to accept data and move to the next field.
  
- [ ] 4.10 Press the RESULTS option to display the dose projections.
  
- [ ] 4.11 Select either the PRINT or HARD COPY option to make a hard copy of the results.
  
- [ ] 4.12 Select the "New Sample" or "Edit" option to return to the previous display and obtain new data or make additional changes.
  
- [ ] 4.13 Exit the program by entering "Q" or pressing the "CANC" key on PMIS terminals.
  
- [ ] 4.14 Select the "Help" option for additional program operational information.

5. HAND-CALCULATED DOSE PROJECTION (CENTERLINE)

- NOTE** - This method reflects the methodology used in the CNS-DOSE Program. It gives only downwind dose values for plume centerline at distances of 1, 2, 5, and 10 miles from the site. For calculating doses at specific receptor locations, the method in Section 7 is used.
- 5.1 Obtain release rate from effluent KAMAN monitor digital readout in  $\mu\text{Ci}/\text{sec}$  and record value in Block 1 on Attachment 3. If KAMAN is inoperable, complete the appropriate attachment of Procedure 5.7.16 and record the noble gas release rate value ( $\mu\text{Ci}/\text{sec}$ ) in Block 1 on Attachment 3.
- NOTE** - The answer to the question concerning the status of the Standby Gas Treatment System has a significant impact on the resultant dose projection calculation. The answer to this question is coordinated with Radiological, Operations, and Engineering personnel, if available.©
- 5.2 Determine if SGT is in the effluent stream.
- 5.2.1 If SGT is in the effluent stream, enter 0.01 in Block 2 of Attachment 3.
- 5.2.2 If SGT is not in the effluent stream, enter 1 in Block 2 of Attachment 3.
- NOTE** - The Iodine to Noble Gas ratio is very dependent on the answer to the core degraded question and has a significant impact on the resultant dose projection calculations. The core is considered to be degraded if any of the following listed conditions are met OR if they were met and have subsequently dropped below the condition threshold. The answer to the core degraded question is coordinated between Radiological Protection, Chemistry, Operations, and Engineering, if available.
- 5.3 Determine if the core is degraded (fuel cladding loss) as indicated by any of the following conditions:
- 5.3.1 SJAE reading  $\geq 15,000$  mrem/hr.
- 5.3.2 Reactor Coolant Sample  $> 300$   $\mu\text{Ci}/\text{gm}$  Dose Equivalent I-131.
- 5.3.3 Primary Containment Monitor (Drywell Hi-range Radiation Monitor) reading  $> 2500$  Rem/hr.
- 5.3.4 Reactor water level below 0" FZ (Fuel Zone).
- 5.3.5 If core is degraded, obtain the Iodine to Noble Gas ratio from Table 1 of Attachment 3 and enter that value in Block 3 of Attachment 3.

- [ ] 5.3.6 If core is not degraded, enter 1.86E-7 in Block 3 of Attachment 3.
- [ ] 5.4 Obtain the Noble Gas energy factor (MeV/dis) based on time since reactor shutdown in hours from Table 2 on Attachment 3 and enter this value in Block 4 on Attachment 3.
- [ ] 5.5 Obtain the wind speed in miles per hour (mph) from PMIS or MET recorders in the Computer Room and record the value in Block 5 of Attachment 3. If wind speed is not available from PMIS or the MET recorders, call the National Weather Service (NWS) in Valley, NE and request an estimate of wind speed at CNS for the appropriate elevation. The telephone number for the NWS may be found in the Emergency Telephone Directory - Federal TAB.
  - [ ] 5.5.1 If the release is from the ERP, use wind speed at the 100 meter level. If 100 meter data is unavailable, use the 60 meter data. If wind speed is unavailable from both PMIS and the MET recorders, and the NWS cannot be contacted, then use the historical default wind speed value of 13 mph.
  - [ ] 5.5.2 If the release is from any other source, use the wind speed at the 10 meter level. Either MET tower 10 meter level is acceptable. If 10 meter data is unavailable, use the 60 meter data. If wind speed is unavailable from both PMIS and the MET recorders, and the NWS cannot be contacted, then use the historical default wind speed value of 8 mph.
- [ ] 5.6 Determine the atmospheric stability class ("A" through "G") from PMIS or use the MET System and the table below, and record in Block 6 on Attachment 3. If the stability class cannot be obtained from PMIS or Met System, and the National Weather Service cannot be contacted, use "D" as the default stability class.
  - [ ] 5.6.1 If using temperatures from the NWS to develop delta-T-based stability class, request the temperatures (10 meter (M) and 100 M) in degrees Centigrade. Determine degrees Centigrade (C) delta-T and the appropriate stability class using the following formula and table:

$$100 \text{ M } ^\circ\text{C} - 10 \text{ M } ^\circ\text{C} = \text{delta-T } ^\circ\text{C}$$

delta-T °C	< -1.7	-1.7 to -1.5	-1.5 to -1.3	-1.3 to -0.45	-0.45 to 1.3	1.3 to 3.6	> 3.6
Stability Class	A	B	C	D	E	F	G

- [ ] 5.7 DETERMINE IF RELEASE BYPASSES SECONDARY CONTAINMENT
  - [ ] 5.7.1 If release bypasses secondary containment (for example, direct venting of drywell or a release from the Turbine Building), then enter 1 in Block 7 on Attachment 3.
  - [ ] 5.7.2 If release does not bypass secondary containment, then enter 0.5 in Block 7 on Attachment 3.
- [ ] 5.8 Obtain TEDE Noble Gas Dose Conversion Factor from Table 3 of Attachment 3 and record in Block 8 on Attachment 3.
- [ ] 5.9 Obtain TEDE Iodine Dose Conversion Factor from Table 3 of Attachment 3 and record in Block 9 on Attachment 3.
- [ ] 5.10 Obtain CDE Iodine Dose Conversion Factor from Table 3 of Attachment 3 and record in Block 10 on Attachment 3.
- [ ] 5.11 Compute TEDE "sub-calculation" value and record in Block 11 of Attachment 3.
 
$$\frac{[(\text{Block 1})(\text{Block 4})(\text{Block 8})] + [(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 7})(\text{Block 9})]}{(\text{Block 5})}$$
- [ ] 5.12 Using the appropriate release point (ERP or other) and stability class (Block 6), obtain the mixing factors ( $\chi/Q_s$ ) for distances 1, 2, 5, and 10 miles from Table 4 on Attachment 3 and record in Block 12 of Attachment 3.
- [ ] 5.13 Compute the TEDE dose rate for each distance and record values in Block 13 on Attachment 3.
 
$$(\text{Block 11}) \times (\text{Block 12})$$
- [ ] 5.14 Estimate the duration of the release (consult with Operations and/or Engineering for this time estimate) in hours and record value in Block 14 on Attachment 3. If the estimated duration of release cannot be determined, use 4 hours as a default value.
- [ ] 5.15 Compute integrated TEDE doses for each distance and record values in Blocks 15 on Attachment 3.
 
$$(\text{Block 13}) \times (\text{Block 14})$$
- [ ] 5.16 Compute CDE "sub-calculation" value and record in Block 16 of Attachment 3.
 
$$\frac{(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 7})(\text{Block 10})}{(\text{Block 5})}$$

- [ ] 5.17 Compute the CDE dose rate for each distance and record values in Block 17 on Attachment 3.  
  
(Block 16) x (Block 12)
- [ ] 5.18 Compute the CDE dose for each distance and record values in Block 18 on Attachment 3.  
  
(Block 17) x (Block 14)
- [ ] 5.19 Refer to Procedure 5.7.1 to determine if an emergency should be declared due to radiological effluent (dose rate or integrated dose to a member of the public) calculated at or beyond 1 mile.
- [ ] 5.20 Refer to Procedure 5.7.20 to determine if any protective action recommendations should be made to off-site authorities.
- [ ] 5.21 Recalculate dose projections whenever conditions change significantly.
- [ ] 5.22 Record name, time, and date at the bottom of Attachment 3.

6. HAND-CALCULATED DOSE PROJECTION (NON-CENTERLINE)

- [ ] 6.1 Obtain release rate from effluent KAMAN monitor digital readout in  $\mu\text{Ci}/\text{sec}$  and record value in Block 1 on Attachment 1. If KAMAN is inoperable, complete appropriate attachment of Procedure 5.7.16 and record the noble gas release rate value ( $\mu\text{Ci}/\text{sec}$ ) in Block 1 on Attachment 1.
- [ ] **NOTE** - The answer to the question concerning the status of the Standby Gas Treatment System has a significant impact on the resultant dose projection calculation. The answer to this question is coordinated with Radiological, Operations, and Engineering personnel, if available.
- [ ] 6.2 Determine if SGT is in the effluent path.
  - [ ] 6.2.1 If SGT is in effluent path, enter 0.01 in Block 2 on Attachment 1.
  - [ ] 6.2.2 If SGT is not in effluent path, enter 1 in Block 2 on Attachment 1.

- [ ] **NOTE** - The Iodine to Noble Gas ratio is very dependent on the answer to the core degraded question and has a significant impact on the resultant dose projection calculations. The core is considered to be degraded if any of the following listed conditions are met OR if they were met and have subsequently dropped below the condition threshold. The answer to the core degraded question is coordinated between Radiological Protection, Chemistry, Operations, and Engineering, if available.
- [ ] 6.3 Determine if the core is degraded (fuel cladding loss) as indicated by any of the following conditions:
- [ ] 6.3.1 SJAЕ reading  $\geq$  15,000 mrem/hr.
  - [ ] 6.3.2 Reactor Coolant Sample  $>$  300  $\mu$ Ci/gm Dose Equivalent I-131.
  - [ ] 6.3.3 Primary Containment Monitor (Drywell Hi-range Radiation Monitor) reading  $>$  2500 Rem/hr.
  - [ ] 6.3.4 Reactor water level below 0" FZ (Fuel Zone).
  - [ ] 6.3.5 If core is degraded, obtain the Iodine to Noble Gas ratio from Table 1 of Attachment 1 and enter that value in Block 3 on Attachment 1.
  - [ ] 6.3.6 If core is not degraded, enter 1.86E-07 in Block 3 on Attachment 1.
- [ ] 6.4 Determine the energy factor (MeV/dis) based on time since reactor shutdown in hours and Table 2 on Attachment 1, and enter value in Block 4 on Attachment 1.
- [ ] 6.5 Obtain the wind speed in miles per hour (mph) from PMIS or MET recorders in the Computer Room and record the value in Block 5 on Attachment 1. If wind speed is not available from PMIS or the MET recorders, call the National Weather Service (NWS) in Valley, NE and request an estimate of wind speed at CNS for the appropriate elevation. The telephone number for the NWS may be found in the Emergency Telephone Directory - Federal TAB.
- [ ] 6.5.1 If the release is from the ERP, use wind speed at the 100 meter level. If 100 meter data is unavailable, use the 60 meter data. If wind speed is unavailable from both PMIS and the MET recorders, and the NWS cannot be contacted, then use the historical default wind speed value of 13 mph.

- [ ] 6.5.2 If the release is from any other source, use the wind speed at the 10 meter level. Either MET tower 10 meter level is acceptable. If 10 meter data is unavailable, use the 60 meter data. If wind speed is unavailable from both PMIS and the MET recorders, and the NWS cannot be contacted, then use the historical default wind speed value of 8 mph.
- [ ] 6.6 Determine the wind direction (from) in degrees from PMIS or MET and record in Block 6 on Attachment 1. If wind direction is not available from PMIS or the MET recorders, call the National Weather Service (NWS) in Valley, NE and request an estimate of wind direction at CNS for the appropriate elevation. The telephone number for the NWS may be found in the Emergency Telephone Directory - Federal TAB.
- [ ] 6.7 Determine the atmospheric stability class ("A" through "G") from PMIS or use the MET System and the table below, and record in Block 7 on Attachment 1. If the stability class cannot be obtained from the PMIS or MET System, and the NWS cannot be contacted, use "D" as the default stability class.
- [ ] 6.7.1 If using temperatures from the NWS to develop delta-T-based stability class, request the temperatures (10 meter (M) and 100 M) in degrees Centigrade. Determine degrees Centigrade (C) delta-T and the appropriate stability class using the following formula and table:

$$100\text{ M }^{\circ}\text{C} - 10\text{ M }^{\circ}\text{C} = \text{delta-T }^{\circ}\text{C}$$

delta-T °C	< -1.7	-1.7 to -1.5	-1.5 to -1.3	-1.3 to -0.45	-0.45 to 1.3	1.3 to 3.6	> 3.6
Stability Class	A	B	C	D	E	F	G

- [ ] 6.8 DETERMINE IF RELEASE BYPASSES SECONDARY CONTAINMENT
  - [ ] 6.8.1 If the release bypasses secondary containment (for example direct venting of the drywell or a release from the Turbine Building), then enter 1 in Block 8 on Attachment 1.
  - [ ] 6.8.2 If the release does not bypass secondary containment, then enter 0.5 in Block 8 on Attachment 1.
- [ ] 6.9 Obtain TEDE Noble Gas Dose Conversion Factor from Table 3 of Attachment 1 and record in Block 9 on Attachment 1.
- [ ] 6.10 Obtain TEDE Iodine Dose Conversion Factor from Table 3 of Attachment 1 and record in Block 10 on Attachment 1.
- [ ] 6.11 Obtain CDE Iodine Dose Conversion Factor from Table 3 of Attachment 1 and record in Block 11 on Attachment 1.

- [ ] 6.12 Obtain the mixing factor ( $\chi/Q$ ) for the receptor point or location.
  - [ ] 6.12.1 Record location or receptor point ID at the top of Attachment 1.
  - [ ] 6.12.2 Obtain the proper  $\chi/Q$  isopleth overlay based on stability class and release point.
    - [ ] 6.12.2.1 Overlays are available in the TSC or EOF for both elevated and ground level releases for each stability class. Use ground level isopleths for all releases which are not from the ERP.
  - [ ] 6.12.3 Place the isopleth overlay on an Emergency Planning Zone map scaled to 1" per mile. The preferred map is the "Cooper Nuclear Station 20 Mile Plume Exposure" map with sectors, radii, and wind direction labeled. One is posted in the TSC and EOF.
  - [ ] 6.12.4 Orient the isopleth overlay so the centerline of the isopleth is over the wind direction radius, the open end of the isopleth is downwind, and the asterisk is over CNS.
  - [ ] 6.12.5 Lightly mark the desired receptor location on the isopleth with a pencil.
  - [ ] **NOTE** - All  $\chi/Q$ s have negative exponents.
  - [ ] 6.12.6 Using the legend in the lower right hand corner of the isopleth overlay, linearly interpolating as necessary, determine a  $\chi/Q$  value for the receptor site.
  - [ ] 6.12.7 Record the  $\chi/Q$  value in Block 12 on Attachment 1.
- [ ] 6.13 Compute TEDE dose rate (rem/hr) and record in Block 13 on Attachment 1.
 
$$\frac{[(\text{Block 1})(\text{Block 4})(\text{Block 9})]+[(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 8})(\text{Block 10})]}{(\text{Block 5})} \times (\text{Block 12})$$
- [ ] 6.14 Estimate the duration of the release (consult with Operations and/or Engineering for this time estimate) in hours and record the value in Block 14 on Attachment 1. If the estimated duration of release cannot be determined, use 4 hours as a default value.
- [ ] 6.15 Compute the integrated TEDE dose (rem) and record in Block 15 on Attachment 1.
 
$$(\text{Block 13}) \times (\text{Block 14})$$

[ ] 6.16 Compute CDE dose rate (rem/hr) and record in Block 16 on Attachment 1.

$$\frac{(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 8})(\text{Block 11})}{(\text{Block 5})} \times (\text{Block 12})$$

[ ] 6.17 Compute CDE dose (rem) and record in Block 17 on Attachment 1.

$$(\text{Block 14}) \times (\text{Block 16})$$

[ ] 6.18 Record name, time, and date at the bottom of Attachment 1.

## 7. CORRELATING OFF-SITE SAMPLE RESULTS WITH DOSE PROJECTIONS©

[ ] **NOTE 1** - This section describes the methodology to be used to correlate CNS-DOSE results (estimated gross iodine concentrations) with gross iodine concentrations sampled in the field.

[ ] **NOTE 2** - This section is to be used by dose assessment personnel in the EOF once field teams have been dispatched and sample results become available.

[ ] **NOTE 3** - Initial dose projections (computer and hand-calculated) are based upon assumed radionuclide concentrations until actual concentrations have been measured. Off-site sample results are used to determine a dose correction factor which may be applied to adjust the CNS-DOSE Program.

### [ ] 7.1 FIELD TEAM SAMPLE TO CNS-DOSE COMPARISON

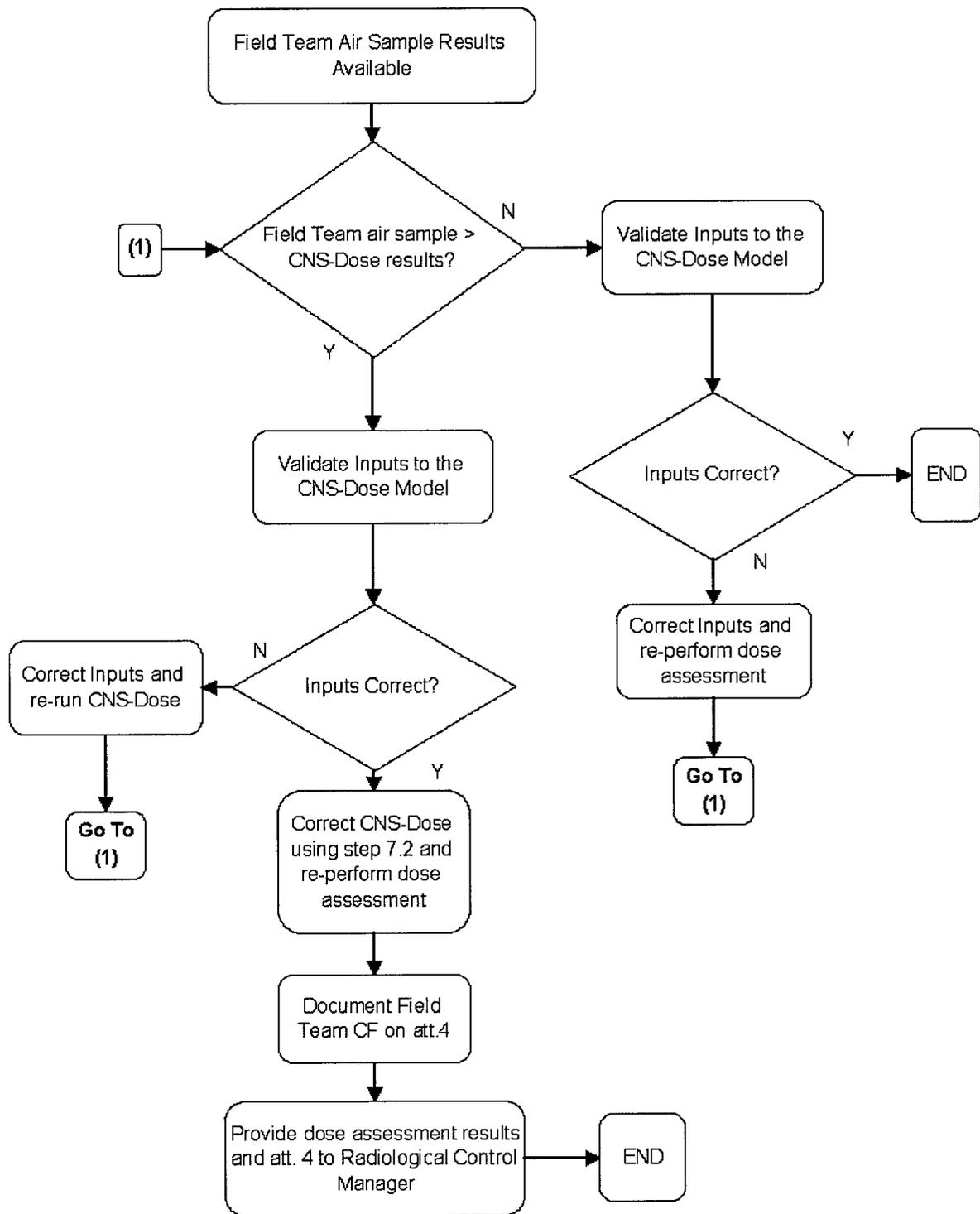
[ ] 7.1.1 Radiological Assessment Supervisor shall:

**NOTE 1** - Prior to comparing field team air sample results, ensure that the time of the field team air sample and the time of "CNS-DOSE" dose assessment are comparable.

**NOTE 2** - If the field team air sample is reported from a distance other than 1, 2, 5, or 10 miles, use the appropriate stability class/release point isopleth to determine what CNS-DOSE predicted iodine air sample results would be at that distance prior to performing the field team sample comparison.

[ ] 7.1.1.1 Compare the field team iodine air sample concentrations with the predicted CNS-Dose iodine air sample concentrations using the decision tree in Step 7.1.2.

[ ] 7.1.1.2 Radiological Control Manager shall review the field team corrected dose assessment results and communicate any change in PARs or Classification to the Emergency Director.



- | [ ] 7.2 APPLYING FIELD TEAM CORRECTION TO CNS-DOSE
  - | [ ] 7.2.1 Apply the correction to CNS-Dose using the "Field Adjust" OPTION of CNS-DOSE.
    - [ ] 7.2.1.1 At the MAIN CNS-DOSE screen, select option "Field Adjust".
    - [ ] 7.2.1.2 Enter the radius distance from CNS in miles at the prompt (1, 2, 5, and 10 are the only options).
    - [ ] 7.2.1.3 Enter the gross iodine concentration (in  $\mu\text{Ci/cc}$ ) obtained from the field at the prompt.
    - [ ] 7.2.1.4 After obtaining new Results from CNS-DOSE, compare new PARs to any PARs previously transmitted to off-site authorities.

8. CORE DAMAGE ESTIMATE USING IN-CONTAINMENT HI-RANGE RADIATION MONITORS

- [ ] **NOTE 1** - Attachment 7 is only used for core damage estimates where the in-containment radiation monitors are exposed to coolant or steam (i.e., only for primary containment LOCA situations). For other accident sequences, a Reactor Coolant System (RCS) sample and Core Damage Assessment Program (CORDAM) must be used. The Post-Accident Sampling System (PASS) may be used, as required, to obtain the RCS sample.
- [ ] **NOTE 2** - The release from the core may bypass the containment, be retained in the primary system, or not be uniformly mixed. Therefore, a low containment radiation reading does not guarantee a lack of core damage. The levels of damage indicated by the value in Attachment 7 are considered minimum levels unless there are inconsistent monitor readings.
- [ ] **NOTE 3** - Inconsistent monitor readings may be due to the uneven mixing in containment (e.g., steam rising to the top of the dome). It may take hours for uniform mixing.
- [ ] 8.1 The Chem/RP Coordinator or designee, shall perform following steps to determine an estimate of core damage, if decisions must be made which are based on core conditions and PASS results are not available.
  - [ ] 8.1.1 Obtain highest in-containment hi-range radiation monitor reading from RMA-RM-40A(B), DRYWELL RAD MONITOR, and record in Block 1 on Attachment 7.
  - [ ] 8.1.2 Complete the calculations on Attachment 7.

[ ] 8.1.3 Report results to the TSC Director.

**ATTACHMENT 1 HAND-CALCULATED DOSE PROJECTION (NON-CENTERLINE)**

Location or Receptor ID: \_\_\_\_\_

(1) Noble Gas Release Rate from KAMAN or 5.7.16 ( $\mu\text{Ci}/\text{Sec}$ )	(2) Release Path through SGBT? Yes = 0.01; No = 1	(3) Iodine/Noble Gas Ratio (from Table 1)	(4) Energy Factor (from Table 2)	(5) Wind Speed (mph) ERP = 13; Other = 8	(6) Wind Direction (° from)	(7) Stability Class Default = D	(8) Secondary Containment Bypassed? No = 0.5; Yes = 1

For Columns 5, 6, and 7, use PMIS, MET, NWS, or Defaults.

Conversion Factors (from Table 3)	
TEDE Noble Gas	(9)
TEDE Iodine	(10)
CDE Iodine	(11)

Mixing Factor (from Isopleths)
(12)

TEDE Dose Rate (13): _____ (rem/hr)
$\frac{[(\text{Block 1})(\text{Block 4})(\text{Block 9}) + (\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 8})(\text{Block 10})]}{(\text{Block 5})} \times (\text{Block 12})$

Duration (Hours) Default = 4 hrs
(14)

TEDE Dose (rem) (Block 13) x (Block 14)
(15)

CDE Dose Rate (16): _____ (rem/hr)
$\frac{[(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 8})(\text{Block 11})]}{(\text{Block 5})} \times (\text{Block 12})$

CDE Dose (rem) (Block 14) x (Block 16)
(17)

Name/Time/Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

ATTACHMENT 1 HAND-CALCULATED DOSE PROJECTION  
(NON-CENTERLINE)

**TABLE 1 - IODINE TO NOBLE GAS RATIO VS. TIME SINCE SHUTDOWN**

TIME SINCE SHUTDOWN (hrs)	IODINE/NOBLE GAS RATIO	
	NON-DEGRADED CORE	DEGRADED CORE
$t < 1$	1.86 E-7	2.71 E-1
$1 \leq t < 2$	1.86 E-7	3.57 E-1
$2 \leq t < 4$	1.86 E-7	3.41 E-1
$4 \leq t < 10$	1.86 E-7	2.81 E-1
$10 \leq t < 30$	1.86 E-7	2.30 E-1
$30 \leq t < 100$	1.86 E-7	1.65 E-1
$100 \leq t$	1.86 E-7	1.40 E-1

**TABLE 2 - ENERGY FACTORS**

TIME SINCE SHUTDOWN (hrs)	ENERGY FACTOR (MeV/dis)
$t < 1$	0.75
$1 \leq t < 2$	0.60
$2 \leq t < 4$	0.40
$4 \leq t < 10$	0.25
$10 \leq t < 30$	0.15
$30 \leq t < 100$	0.09
$100 \leq t$	0.07

**TABLE 3 - DOSE CONVERSION FACTORS**

	NON-DEGRADED CORE	DEGRADED CORE
TEDE Noble Gas	1.48 E-3	9.19 E-4
TEDE Iodine	8.77 E-2	2.98 E-2
CDE Iodine	2.04 E 0	4.96 E-1

ATTACHMENT 2    TRANSIT TIMES AND EFFECTIVE AGES OF NOBLE GASES AT RECEPTOR SITES
---

1. Effective Age is defined as time elapsed (hrs) since shutdown. For off-site locations, the effective age of the isotopic mixture may be obtained through summarizing following components:

- [ ] 1.1 The effective age at the time of release onset.
- [ ] 1.2 The transit time from the release point to the receptor site (refer to Section 2 below).

2. CALCULATION OF TRANSIT TIME FROM THE RELEASE POINT TO THE RECEPTOR LOCATION

- [ ] 2.1 Estimate the downwind distance (miles) to the receptor location.
- [ ] 2.2 Divide the distance in miles by the 100m meter level wind speed (mph) to determine the plume transit time.

(1) RECEPTOR SITE DOWNWIND DISTANCE (miles)	(2) 100 METER LEVEL WIND SPEED (mph)	(3) PLUME TRANSIT TIME (hrs) (1) ÷ (2)

3. DETERMINATION OF EFFECTIVE AGES AT RECEPTOR SITES

(1) EFFECTIVE AGE OF MIXTURE AT TIME OF RELEASE ONSET (hrs)	(2) TRANSIT TIME FROM RELEASE POINT TO RECEPTOR LOCATION (hrs)	(3) EFFECTIVE AGE OF ISOTOPIC MIXTURE AT RECEPTOR LOCATION (hrs) (1) + (2)

Name/Time/Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

**ATTACHMENT 3 HAND-CALCULATED DOSE PROJECTION (CENTERLINE)**

(1) Noble Gas Release Rate from KAMAN or 5.7.16 ( $\mu$ Ci/Sec)	(2) Release Path through SGBT? Yes = 0.01; No = 1	(3) Iodine/Noble Gas Ratio (from Table 1)	(4) Energy Factor (MeV/dis) (from Table 2)	(5) Wind Speed (mph) Defaults ERP = 13; Other = 8	(6) Stability Class Default = D	(7) Secondary Containment Bypassed? No = 0.5; Yes = 1
---	--	--	---	--	------------------------------------	--

For Columns 5 and 6, use PMIS, MET, NWS or Defaults.

Conversion Factors (from Table 3)	
TEDE Noble Gas	(8)
TEDE Iodine	(9)
CDE Iodine	(10)

TEDE Sub-Calculation (11): _____
$\frac{[(\text{Block 1})(\text{Block 4})(\text{Block 8})]+[(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 7})(\text{Block 9})]}{(\text{Block 5})}$

Mixing Factors (from Table 4)	
1 Mile	(12)
2 Mile	(12)
5 Mile	(12)
10 Mile	(12)

TEDE RATE (rem/hr) (Block 11 x Block 12)	
1 Mile	(13)
2 Mile	(13)
5 Mile	(13)
10 Mile	(13)

Duration (hours) Default = 4 hrs
(14)

TEDE Dose (rem) (Block 13 x Block 14)	
1 Mile	(15)
2 Mile	(15)
5 Mile	(15)
10 Mile	(15)

CDE Sub-Calculation (16): _____
$\frac{[(\text{Block 1})(\text{Block 2})(\text{Block 3})(\text{Block 7})(\text{Block 10})]}{(\text{Block 5})}$

CDE Rate (rem/hr) (Block 16 x Block 12)	
1 Mile	(17)
2 Mile	(17)
5 Mile	(17)
10 Mile	(17)

CDE Dose (rem) (Block 14 x Block 17)	
1 Mile	(18)
2 Mile	(18)
5 Mile	(18)
10 Mile	(18)

Name/Time/Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

ATTACHMENT 3 HAND-CALCULATED DOSE PROJECTION (CENTERLINE)

**TABLE 1 - IODINE TO NOBLE GAS RATIO VS. TIME SINCE SHUTDOWN**

TIME SINCE SHUTDOWN (hrs)	IODINE/NOBLE GAS RATIO	
	NON-DEGRADED CORE	DEGRADED CORE
t < 1	1.86 E-7	2.71 E-1
1 ≤ t < 2	1.86 E-7	3.57 E-1
2 ≤ t < 4	1.86 E-7	3.41 E-1
4 ≤ t < 10	1.86 E-7	2.81 E-1
10 ≤ t < 30	1.86 E-7	2.30 E-1
30 ≤ t < 100	1.86 E-7	1.65 E-1
100 ≤ t	1.86 E-7	1.40 E-1

**TABLE 2 - ENERGY FACTORS**

TIME SINCE SHUTDOWN (hrs)	ENERGY FACTOR (MeV/dis)
t < 1	0.75
1 ≤ t < 2	0.60
2 ≤ t < 4	0.40
4 ≤ t < 10	0.25
10 ≤ t < 30	0.15
30 ≤ t < 100	0.09
100 ≤ t	0.07

**TABLE 3 - DOSE CONVERSION FACTORS**

	NON-DEGRADED CORE	DEGRADED CORE
TEDE Noble Gas	1.48 E-3	9.19 E-4
TEDE Iodine	8.77 E-2	2.98 E-2
CDE Iodine	2.04 E 0	4.96 E-1

**TABLE 4 - PLUME CENTERLINE X/Q'S (MIXING FACTORS)**

RELEASE POINT	STABILITY CLASS	A	B	C	D	E	F	G
ERP (ELEVATED)	1 MILE	2.87E-6	6.04E-6	1.17E-5	8.35E-6	1.03E-6	2.35E-11	1.31E-23
	2 MILE	7.94E-7	1.78E-6	4.55E-6	8.21E-6	4.98E-6	8.12E-8	5.62E-13
	5 MILE	1.50E-7	3.42E-7	1.18E-6	3.77E-6	4.66E-6	1.09E-6	5.67E-9
	10 MILE	4.51E-8	1.03E-7	4.58E-7	1.82E-6	3.13E-6	1.44E-6	4.00E-8
OTHER THAN ERP (GROUND LEVEL)	1 MILE	3.01E-6	6.90E-6	1.73E-5	5.10E-5	1.09E-4	3.07E-4	7.67E-4
	2 MILE	8.03E-7	1.84E-6	5.15E-6	1.78E-5	3.86E-5	1.09E-4	2.71E-4
	5 MILE	1.50E-7	3.44E-7	1.21E-6	4.98E-6	1.25E-5	3.52E-5	8.81E-5
	10 MILE	4.51E-8	1.03E-7	4.63E-7	2.07E-6	6.43E-6	1.81E-5	4.52E-5

ATTACHMENT 4    CORRELATING OFF-SITE SAMPLE RESULTS WITH DOSE PROJECTIONS
---

1. CORRECTION FACTOR DETERMINATIONS USING OFF-SITE SAMPLING DATA

(1) SAMPLE LOCATION	(2) SAMPLE TIME	(3) FIELD GROSS IODINE CONCENTRATION ( $\mu$ Ci/cc)	(4) CNS-DOSE IODINE CONCENTRATION ( $\mu$ Ci/cc)	(5) CORRECTION FACTOR (CF) (3) $\div$ (4)

Name/Time/Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

3. Route completed form to Emergency Preparedness Department.

ATTACHMENT 5 METEOROLOGICAL AND RADIOLOGICAL DATA SOURCES FOR CNS-DOSE
---

**NOTE 1** - When the normal source of meteorological data (PMIS MET screen) is not available or is "unhealthy", attempt to obtain the data by PMIS point ID or obtain it from the MET Chart recorders in the Computer Room. If neither PMIS or the MET chart recorders are available, call the National Weather Service (NWS) in Valley, NE to obtain the data. The telephone number is contained in the Emergency Telephone Directory - Federal TAB. If the NWS cannot be contacted, use default values.

**NOTE 2** - If the user is not familiar with the use of PMIS, Attachment 6 provides an overview and instructions on access and selected use of PMIS.

**NOTE 3** - The Turn-On-Code "VALUE" is used to display single point values and qualities.

**NOTE 4** - The Turn-On-Code "MET" is used to display most meteorological point values and stability classes.

PMIS POINT ID	DESCRIPTION	ALTERNATE SOURCE
MET001	100M LVL SIGMA THETA (15 MIN AVE)	MET Chart Recorder
MET004	100M LVL TEMPERATURE	MET Chart Recorder
MET005	DELTA TEMPERATURE (100M-10M)	MET Chart Recorder
MET006	100M LVL WIND DIR. (15 MIN AVE)	MET Chart Recorder
MET007	100M LVL WIND SPEED (15 MIN AVE)	MET Chart Recorder
MET009	60M LVL SIGMA THETA (15 MIN AVE)	MET Chart Recorder
MET012	60M LVL TEMPERATURE	MET Chart Recorder
MET013	DELTA TEMPERATURE (100M-60M)	MET Chart Recorder
MET014	60M LVL WIND DIR. (15 MIN AVE)	MET Chart Recorder
MET015	60M LVL WIND SPEED (15 MIN AVE)	MET Chart Recorder
MET017	10M LVL SIGMA THETA (15 MIN AVE)	MET Chart Recorder
MET020	10M LVL TEMPERATURE	MET Chart Recorder
MET021	DELTA TEMPERATURE (60M-10M)	MET Chart Recorder
MET023	10M LVL WIND DIR. (15 MIN AVE)	MET Chart Recorder
MET024	10M LVL WIND SPEED (15 MIN AVE)	MET Chart Recorder
MET027	PRECIPITATION (15 MIN PERIOD)	MET Chart Recorder
MET028	10M TWR SIGMA THETA (15 MIN AVE)	MET Chart Recorder
MET029	10M TWR TEMPERATURE	MET Chart Recorder
MET030	10M TWR WIND DIR. (15 MIN AVE)	MET Chart Recorder
MET031	10M TWR WIND SPEED (15 MIN AVE)	MET Chart Recorder
N8000	RX BLDG EFFLUENT FLOW AVE	
N8001	TURB BLDG EFF HI RAD MON AVE	
N8002	TURB BLDG EFF NORM RAD MON AVE	
N8003	TURB BLDG FLOW AVE	
N8004	AOG & RW EFF HI RAD MON AVE	
N8005	AOG & RW EFF NORM RAD MON AVE	
N8006	RX BLDG EFF RAD MON AVE	
N8007	AOG & RW BLDG EFF FLOW AVE	
N8010	ERP HI RAD MON AVE	
N8011	ERP NORMAL RAD MON AVE	
N8012	ERP FLOW AVE	
N8013	SGT FLOW TO ERP AVE	

1. PLANT MANAGEMENT INFORMATION SYSTEM (PMIS)

1.1 The PMIS System (PMIS) is a set of programs and hardware provided by NPPD that make use of VMS functions and additional peripherals (Data Concentrators) which provides access to plant parameters.

2. PMIS COMPUTERS

2.1 PMIS computers share a common set of peripherals (disk drives, tape drives, terminals, etc.) and software.

3. VMS OPERATING SYSTEM

3.1 The VMS Operating System (VMS) is the host operating system for the PMIS computers. It is a set of programs that interface with the computer hardware and peripherals, and allows the computers to recognize and process commands.

4. PMIS MODES

4.1 PMIS has three operational modes, Primary, Primary/Backup, and Backup, and will operate on either computer in one of the three modes. A computer with PMIS operating in either the Primary or Primary/Backup Mode is referred to as the Primary System and the one with PMIS operating in the Backup Mode is referred to as the Backup System.

4.2 The Primary and Primary/Backup Modes provide full PMIS capabilities, consisting (in part) of data acquisition and conversion, data display, data archiving, alarm processing, self monitoring, and many other functions that perform specialized calculations and displays.

4.3 The Backup Mode monitors the Primary System, transfers information necessary to keep the Backup System files and tables up-to-date, and automatically changes to the Primary Mode when a loss of the Primary System is detected (referred to as a FAILOVER). Although many functions are available on the Backup System, their use is discouraged because the lack of real-time data results in the display of inaccurate information (CNS-DOSE is an exception).

## 5. PMIS ACCESS

- 5.1 Access to PMIS is gained through various video display terminals, printer/plotters, and printers, including color graphic Information Display Terminals (IDTs) dedicated exclusively for PMIS access in the Control Room, TSC, and EOF.
- 5.2 The IDTs and printers are selectively connected to either computer through a switching device controlled by PMIS. At system start or during a FAILOVER, all terminals and printers are switched to the Primary System. However, the SWITCH position may be changed at any time after that.

## 6. SCREEN FORMAT

- 6.1 When a terminal is under control of PMIS (instead of VMS), the screen display will be in a standard format consisting of four areas, OCA, GGDA, SSA, and FKA.
- 6.2 The OCA (Operator Communication Area) consists of the top two (one and two lines on the screen. This area is generally used to prompt-for and receive user inputs and display advisory and warning messages. In addition, some displays that require only one or two lines of screen use the OCA for display. Also (though technically not part of the OCA), the current date and time (updated once a second) is displayed at the right side of the screen on lines 1 and 2.
- 6.3 The GGDA (General and Graphic Display Area) consists of lines 4 through 47 and is used for most displays. In addition, some displays (chiefly functions requiring significant editing) also prompt-for and receive user inputs in the GGDA.
- 6.4 The SSA (SPDS Status Area) consists of lines 45 through 48 and contain four boxes that represent (by color code) the status of the SPDS (Safety Parameter Display System), which is a software system that monitors selected plant parameters and determines overall plant safety status.
- 6.5 The FKA (Function Key Area) consists of the bottom two (50 and 51) lines of the screen. The FKA is used to indicate which of the definable function keys are enabled. It also indicates which mode PMIS is in, the Plant Mode, and whether or not a PMIS "event" has occurred.

7. SCREEN-COPY FUNCTION

7.1 The screen-copy function, which is activated by pressing the HARD COPY key, provides full screen reproduction in color on a printer located in the same general area as the terminal.

8. PRINTER

8.1 The printers are connected to a specific computer and are generally accessed when a "...PRINT..." option is selected and a "logical name" is entered.

9. LOGICAL NAME

9.1 Printers and terminals are usually referenced by "logical names", in the format of TT00, TT01, etc. (IDTs), and LA00, LA01, etc. (printers). The "logical name" for a device can usually be found on a tag on the device.

10. RESET FUNCTION

10.1 This function, which is activated by pressing the RESET key (PC keyboard) or CONTROL-RESET keys (IDT keyboard), clears the screen, sounds the bell, and resets internal parameters to the default settings, producing the same effect as a re-boot or turning power off and on.

11. IDE FIELD

11.1 User input to PMIS Programs is through an open IDE (Interactive Data Entry) field on the terminal. An open IDE field is denoted by a yellow box that appears in the OCA or GGDA area. Anything typed on the keyboard will be echoed in the box. Erasing or back-spacing is accomplished with the DEL key. All entries into an IDE field must be terminated by pressing the ENTER key unless the field is overfilled or a function key is pressed (the terminal automatically adds a carriage return character in those cases).

12. TURN-ON-CODE

12.1 The Turn-On-Code (TOC) is the mechanism by which commands are issued to PMIS. This is a one to eight character code which is interpreted by PMIS and a corresponding command is issued.

### 13. PMIS DATABASE

13.1 All plant parameters (or additional data based on plant or PMIS parameters) that are processed by PMIS SYSTEM are defined in the PMIS DATABASE, which is a file that specifies the origin of the data, the frequency at which it is processed, the type of processing to be performed, etc. Each parameter is referred to as a "point" and is identified by a one to eight character name or POINT-ID (PID).

### 14. PMIS DATA PROCESSING

14.1 Some PMIS points are processed by scanning plant sensors (through the Data Concentrator) while others are calculated based on the values of previously processed points or PMIS parameters. All points values are then assigned a quality code stored in the Current Value Table (CVT).

14.2 Data in the CVT is considered to be "real-time" and representative of current plant and system conditions.

14.3 At regular intervals (and other special circumstances) point values are also stored in an Archive File, which provides ~ 24 hours of on-line historical information.

### 15. PMIS DATA ACCESS

15.1 All point values in the CVT and Archive File are accessed by the POINT-ID.

16. QUALITY CODES

16.1 The Quality Code, assigned when point values are assigned, represents the general status and "health" of the point, and determines how it is used by PMIS Programs. The following is a list of PMIS quality codes and related information.

CODE	DESCRIPTION	COLOR	HEALTH
UNK	Value unknown - not yet processed	White	Bad
DEL	Processing has been disabled	Magenta	Bad
INVL	Data concentrator error	Magenta	Bad
RDER	Data concentrator error	Magenta	Bad
OIC	Data concentrator error	Magenta	Bad
BAD	Outside instrument range	Magenta	Bad
STAG	Point failed stagnation check	Magenta	Bad
UDEF	Undefined (spare)	Magenta	Bad
REDU	Fails redundant point check	Magenta	Bad
HALM	Above high alarm limit	Red	Good
LALM	Below low alarm limit	Red	Good
HWRN	Above high warning limit	Yellow	Good
LWRN	Below low warning limit	Yellow	Good
ALM	State/Change-of-State alarm	Red	Good
SUB	Value has been substituted	Blue	Good
DALM	Alarm checking has been disabled	Green	Good
NCAL	Value cannot be calculated	White	Good
INHB	Alarm inhibited by cut-out point	Green	Good
GOOD	Passes all other checks	Green	Good

16.2 Not listed above is quality code OSUB (Operator Substituted), which is treated the same as SUB, and indicates that the value was substituted within that program. OSUB is not used in the CVT.

## 17. PMIS LOGIN

- 17.1 If the current date and time is displayed in the OCA and is being updated about once a second:
- 17.1.1 If "ENTER PASSWORD..." is displayed on line 2, press the ENTER key.
  - 17.1.2 If "SELECT FUNC. KEY OR TURN ON CODE..." and an open IDE field is displayed on line 2, the IDT is logged into PMIS. No further action is necessary.
  - 17.1.3 If a display is operating, press the CANC key.
  - 17.1.4 If terminal does not respond or does not meet any of the above criteria, press the XOFF key once. The terminal should be automatically reset (screen clears and the bell sounds) after about 30 seconds, and either the "ENTER PASSWORD..." or "...TURN-ON-CODE..." prompt should be displayed. Refer to the applicable previous step for more instruction.
- 17.2 If the current date and time is NOT displayed or is displayed but is not being updated:
- 17.2.1 Press the RESET key (PC keyboard) or CONTROL-RESET keys (IDT keyboard), wait at least 10 seconds, and press the ENTER key. If the date and time appear and began updating, refer to the previous (date and time updating) step.
  - 17.2.2 If a "\$" is displayed at the left of the screen, enter "LO" and press the ENTER key. After the "...LOGGED OFF..." message is displayed, press the ENTER key again.
  - 17.2.3 After "Username:" is displayed, enter "PMIS" and press the ENTER key. A welcome message followed by "PMIS LOGGED OUT..." will be displayed. Do not press any keys for 5 minutes or until the PMIS login display appears. When the "ENTER PASSWORD..." prompt is issued, refer to the previous (date and time updating) step and login to PMIS.
- 17.3 If neither of the above criteria is met or the specified sequence of events does not occur, contact the Nuclear Information Services (NIS) Department for assistance.

18. ACTIVATING A TURN-ON-CODE

- 18.1 If a display is currently operating in the area of the screen that the desired TOC requires, press the CANC key.
- 18.2 When "SELECT FUNC. KEY OR TURN ON CODE..." is displayed followed by an open IDE field, enter one of following:
  - 18.2.1 A TOC (i.e., "GROUP" -- activates the Group Display Program; the program will then prompt the user to select a menu option).
  - 18.2.2 A TOC followed by a space and optional text (i.e., "PLOT ARM1" -- activates the Real-Time Plot Program and plots the group "ARM1" without further user input; note that optional text is recognized by only selected TOCs).
  - 18.2.3 Press one of the programmable function keys on the right hand key pad or top row of function keys (i.e., blue "GROUP DISP" key -- functions the same as the first example).
- 18.3 Refer to the FKA for the function keys that are enabled and their descriptions. Use other options as provided by each program.
- 18.4 To exit a program, use the specified exit option (if provided) or press the CANC function key.

19. DETERMINING TO WHICH SYSTEM A TERMINAL IS CONNECTED

The PMIS System to which a terminal is connected is indicated by the "CONSOLE =..." on the bottom line of the FKA as follows:

- CONSOLE = PRIMARY    --    Connected to the Primary System operating in the Primary Mode.
- CONSOLE = PRIM/BAC    --    Connected to the Primary System operating in the Primary/Backup Mode.
- CONSOLE = BACKUP    --    Connected to the Backup System.
- CONSOLE = UNKNOWN    --    PMIS is in a transition or unknown state.

20. SWITCHING A DEVICE TO THE OTHER SYSTEM

- 20.1 On a terminal located in the same area as the device to be switched and connected to either PMIS System, activate the TOC "SWITCH".
- 20.2 A list of all devices that can be switched from that terminal will be displayed. Included will be their logical names, description, and the CPU to which the device is connected.
- 20.3 To switch a device, press function key F1 and then enter the logical name at the prompt.
- 20.4 If the device is an IDT, it will be logged off PMIS.
- 20.5 If the device being switched is a terminal other than the one running SWITCH, both are connected to the same system and a TOC is currently active, a message will be displayed to that effect, and the user will be asked if it is to be switched anyway. If the answer is not YES, the device is not switched.

ATTACHMENT 7 CORE DAMAGE ESTIMATION
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**NOTE** - This attachment is only used for core damage estimates where the in-containment radiation monitors are exposed to coolant or steam (i.e., only for primary containment LOCA situations). For other accidents sequences, utilize the Post-Accident Sampling System (PASS) and Core Damage Assessment Program (CORDAM).

(1) HIGHEST DRYWELL RAD MONITOR READING (RMA-RM-40A,B)	(2) 100% CORE MELT FACTOR	(3) CORE MELT FRACTION (1) ÷ (2)	(4) PERCENT CORE MELT (3) x 100	(5) PERCENT CLAD FAILURE (4) x 10
	2.44E+6			

Report the results of the core damage estimate (Blocks 4 and 5) to the TSC Director.

Name/Time/Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

1. DISCUSSION

- 1.1 This procedure covers dose projection. Dose projection represents calculation of an accumulated dose at some time in the future if current conditions continue.
- 1.2 The CNS-DOSE Computer Program is a software application operated on the PMIS computers. It makes use of current meteorological and radiological data from PMIS and manually entered data to perform dose projection for the area surrounding CNS. CNS-DOSE is the primary method of dose projection.
  - 1.2.1 The PMIS Computer System consists of two computers operating in a Primary and Backup Mode. Historical data may be obtained from either system; however, current data may be obtained only from the Primary System.
  - 1.2.2 Personnel unfamiliar with the operation of PMIS should reference procedures governing the operation of PMIS or refer to Attachment 6.
- 1.3 The manual dose projection methods in this procedure are intended to be used when CNS-DOSE is unavailable. Where possible, data used is from the same source as that used by the computer programs. The hand calculations are divided into two sections. Section 5 is intended to be used by the on-shift personnel for centerline dose projections. Section 6 is intended for dose assessment personnel in projecting non-centerline values.
- 1.4 The correlation methodology as described in Section 8 provides EOF dose assessment personnel with a means of correlating field team iodine concentration data with CNS-DOSE projected iodine concentration. Such a correlation is necessary to determine if initial Protective Action Recommendations (PARs) were adequate to protect the health and safety of the public.
- 1.5 Containment radiation level provides a measure of core damage, because it is an indication of the inventory of airborne fission products (i.e., noble gases, a fraction of the halogens, and a much smaller fraction of the particulates) released from the fuel to the containment (refer to NEDO-22215, Pages 1 and 2).

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1    NRC Regulatory Guide 1.109, Revision 1, October 1977, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10CFR50, Appendix I, Iodine Inhalation Dose Factors.
  
- 2.1.2    NRC Regulatory Guide 1.111, July 1977, Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors.
  
- 2.1.3    NRC Regulatory Guide 1.145, August 1979, Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants.
  
- 2.1.4    Health Physics Journal, November 1981, Noble Gas Dose Rate Conversion Factors.
  
- 2.1.5    ICRP 59, Working Breathing Rate.
  
- 2.1.6    EPA 400-R-92-001, May 1992, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents.

2.2 DRAWINGS (MAPS)

- 2.2.1    NPPD Drawing CNS-MI-102, Atmospheric Dispersion Model (EPM2) Special Receptor Points, 10 Mile Radius.
  
- 2.2.2    NPPD Drawing CNS-MI-03, Preselected Radiological Sampling and Monitoring Points in the Vicinity of Cooper Nuclear Station, 10 Mile Radius.
  
- 2.2.3    NPPD Drawing 2.2 (P3-A-45), Revision 1, Cooper Nuclear Station Site and Property Boundary, 1 Mile Radius.
  
- 2.2.4    Cooper Nuclear Station 50 Mile Emergency Planning Zone, Revision 2, 50 Mile Radius.

2.3    VENDOR MANUALS

2.3.1    CNS Number 0984, PMIS Operator's Manual - SAIC  
Document 502-85500107-72.

2.4    PROCEDURES

2.4.1    Emergency Plan Implementing Procedure 5.7.1, Emergency  
Classification.

2.4.2    Emergency Plan Implementing Procedure 5.7.16, Release Rate  
Determination.

2.4.3    Emergency Plan Implementing Procedure 5.7.20, Protective Action  
Recommendations.

2.5    MISCELLANEOUS

2.5.1    NRC Inspection Report 89-35.

2.5.2    © NRC Inspection Report 91-12, Emergency Preparedness Annual  
Inspection Report. Affects Section 7 and NOTE prior to Step 5.2.

2.5.3    NRC Inspection Report 92-14, Emergency Preparedness Annual  
Inspection Report.

2.5.4    General Electric Corporation, NEDO-22215, Procedures for the  
Determination of the Extent of Core Damage Under Accident  
Conditions.

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.21  MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS, AND EVALUATIONS	USE: INFORMATION      ⊕ EFFECTIVE: 4/17/02 APPROVAL: SORC OWNER: S. C. REZAB DEPARTMENT: EP
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1. PURPOSE

This procedure provides instructions for documenting the completion of periodic surveillances, tests, drills, and training. Periodic test and reviews of components of the Emergency Planning Program (e.g., facilities, equipment, Emergency Plan, and Emergency Plan Implementing Procedures, etc.) are conducted to ensure availability, operability, and reliability.

2. SENIOR MANAGER OF SITE SUPPORT INSTRUCTIONS

2.1 Review completed documentation of Attachment 1, EP Program Maintenance Checklist, on an annual basis.

- 2.2 Ensure State and County Emergency Management officials are made aware of non-emergency events that have a potential for media interest.
  - 2.2.1 Inform Emergency Preparedness (EP) of event.
  - 2.2.2 Verify EP has informed appropriate Emergency Management officials.
- 2.3 Ensure State and County Emergency Management officials are made aware of the following on an annual basis:
  - 2.3.1 Significant changes to the Emergency Plan/EPIPs.
  - 2.3.2 Emergency Action Levels (EALs).
- 2.4 Ensure that biennial exercises are performed with state and county Emergency Response Agencies.

### 3. EMERGENCY PREPAREDNESS MANAGER INSTRUCTIONS

- 3.1 At the beginning of each calendar year:
  - 3.1.1 Review the items on Attachment 1, EP Program Maintenance Checklist, and establish a working schedule.
- 3.2 Maintain awareness of status of completion of Attachment 1, EP Program Maintenance Checklist.
  - 3.2.1 Response actions performed as part of actual plant emergencies may be credited towards the following drills or tests:
    - 3.2.1.1 Integrated facility activation drill.
    - 3.2.1.2 Call out phone test/drill.
    - 3.2.1.3 RP drill.
    - 3.2.1.4 Off-Site agency communications drill.
    - 3.2.1.5 Medical drill.
  - 3.2.2 Evolutions incorporated within a multiple scope drill/exercise may count as drill or test completion, as example:
    - 3.2.2.1 RP drill, medical drill, or off-site communications drill as part of quarterly integrated facility activated drill or annual exercise.

- 3.2.3 Notification of ERO and Governmental Agencies including:
  - 3.2.3.1 Weekly tests of Automated Notification system.
  - 3.2.3.2 Quarterly off-hours ERO call-in test (at least one per year should be manual).
  - 3.2.3.3 Quarterly verification and update of Emergency Telephone Directory.
- 3.2.4 NRC Performance Indicators:
  - 3.2.4.1 Prepare and submit in accordance with Administrative Procedure 0-PI-01.
- 3.3 Ensure completion of the items on Attachment 2, Quarterly EP Maintenance Checklist.
- 3.4 Ensure the completion of the items on Attachment 3, Emergency Plan 6 Year Element Demonstration.
- 3.5 Ensure the completion of the items on Attachment 4, EPIP Annual Review.
- 3.6 Ensure the completion of the items on Attachment 5, EP Exercise Checklist.
- 3.7 Maintain awareness of the status of the Alert and Notification System (ANS) operability.
- 3.8 Ensure the following is performed for Biennial Exercises:
  - 3.8.1 Schedule a date for the exercise in coordination with the primary State and County emergency response agencies.
  - 3.8.2 Provide the opportunity for State and County response agencies to participate in an exercise.
  - 3.8.3 Coordinate NPPD efforts with other participating personnel, organizations, and agencies.
    - 3.8.3.1 If the Federal Emergency Management Agency (FEMA) is evaluating State and County emergency response, ensure the exercise scenario is developed within the time frames specified by the regulations, as defined in Attachment 5, EP Exercise Checklist.
  - 3.8.4 Discuss and evaluate annual exercise performance with plant management, NPPD controller/evaluators, and principal participants.

4. RECORDS

- 4.1 Attachments 1 through 5 are sent to CNS Records (quality record upon final review).

ATTACHMENT 1    EP PROGRAM MAINTENANCE CHECKLIST

Year: \_\_\_\_\_

1. SEMI-ANNUAL/ANNUAL/BIENNIAL EP MAINTENANCE ITEMS

- 1.1 Radiological Protection Drill (Semi-Annual).
  - 1.1.1 (January - June). Date: \_\_\_\_\_
  - 1.1.2 (July - December). Date: \_\_\_\_\_
- 1.2 Radiological Monitoring Drill (Annual). Date: \_\_\_\_\_
- 1.3 Biennial Exercise (include Attachment 5, EP Exercise Checklist). Date: \_\_\_\_\_
  - 1.3.1 FEMA Evaluated (even years only).  Yes;  No
- 1.4 Annual Off-Site Agencies Communications Drill. Date: \_\_\_\_\_
- 1.5 Annual Unannounced Communications Drill. Date: \_\_\_\_\_
- 1.6 Annual Medical Drill. Date: \_\_\_\_\_
- 1.7 Emergency Plan Review.
  - 1.7.1 Emergency Plan Review (Annual). Date: \_\_\_\_\_
  - 1.7.2 Letters of Agreement Certification (Annual Confirmation). Date: \_\_\_\_\_
  - 1.7.3 EPIP Review (Annual). Date: \_\_\_\_\_
- 1.8 Media Day (Annual). Date: \_\_\_\_\_
- 1.9 Public Information Brochure (Annual). Date: \_\_\_\_\_
- 1.10 Review and update 6 Year Plan (Annual) (include Attachment 3, Emergency Plan 6 Year Element Demonstration). Date: \_\_\_\_\_
- 1.11 Significant Emergency Plan/EPIP Changes, Emergency Action Levels (EALs) Meeting with State/County Emergency Management (Annual). Date: \_\_\_\_\_
- 1.12 Hospital Training (Annual). Date: \_\_\_\_\_

ATTACHMENT 1    EP PROGRAM MAINTENANCE CHECKLIST

Year: \_\_\_\_\_

1.13 Off-Site Agency Training (Annual).

1.13.1 Nebraska. Date: \_\_\_\_\_

1.13.2 Missouri. Date: \_\_\_\_\_

1.13.3 Iowa. Date: \_\_\_\_\_

1.13.4 Kansas. Date: \_\_\_\_\_

1.13.5 Local Agencies. Date: \_\_\_\_\_

1.14 Annual Training Review of ERO.

1.14.1 Solicit verification of annual ERO training completion from the Training Department. Date: \_\_\_\_\_

1.14.2 Review training completion feedback and remove any ERO members not qualified. Date: \_\_\_\_\_

1.15 EP Department Training Review (Annual). Date: \_\_\_\_\_

Completed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Emergency Preparedness Coordinator

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Emergency Preparedness Manager

ATTACHMENT 2    QUARTERLY EP MAINTENANCE CHECKLIST

Quarter: \_\_\_\_\_

Year: \_\_\_\_\_

1. EMERGENCY RESPONSE FACILITY SURVEILLANCE

1.1 Quarterly Emergency Equipment Inventory.

1.1.1 Control Room (Attachment 7). Date: \_\_\_\_\_

1.1.2 OSC (Attachment 8). Date: \_\_\_\_\_

1.1.3 Emergency Rescue (Attachment 9). Date: \_\_\_\_\_

1.1.4 AOSC (Attachment 10). Date: \_\_\_\_\_

1.1.5 EOF (Attachment 11). Date: \_\_\_\_\_

1.1.6 AEOF (Attachment 12). Date: \_\_\_\_\_

1.1.7 Ambulance (Attachment 13). Date: \_\_\_\_\_

1.1.8 Hospital (Attachment 14). Date: \_\_\_\_\_

1.2 TSC. Date: \_\_\_\_\_

1.2.1 Monthly Facility Survey (Per EPDG #2).

1.2.1.1 Month 1. Date: \_\_\_\_\_

1.2.1.2 Month 2. Date: \_\_\_\_\_

1.2.1.3 Month 3. Date: \_\_\_\_\_

1.3 OSC. Date: \_\_\_\_\_

1.3.1 Monthly Facility Survey (Per EPDG #2).

1.3.1.1 Month 1. Date: \_\_\_\_\_

1.3.1.2 Month 2. Date: \_\_\_\_\_

1.3.1.3 Month 3. Date: \_\_\_\_\_

1.4 EOF. Date: \_\_\_\_\_

1.4.1 Monthly Facility Survey (Per EPDG #2).

1.4.1.1 Month 1. Date: \_\_\_\_\_

1.4.1.2 Month 2. Date: \_\_\_\_\_

1.4.1.3 Month 3. Date: \_\_\_\_\_



ATTACHMENT 2 QUARTERLY EP MAINTENANCE CHECKLIST

Quarter: \_\_\_\_\_

Year: \_\_\_\_\_

NOTES:

ATTACHMENT 3 EMERGENCY PLAN 6 YEAR ELEMENT  
 DEMONSTRATION

ELEMENT	YEAR LAST PERFORMED	YEAR NEXT SCHEDULED	COMPLETION DATE
Two off hours staffing Exercises (6 p.m. - 4 a.m.) one must be unannounced			
Activation of Joint Information Center			
Use of fire control teams			
Use of medical support personnel			
Use of Security personnel for prompt access to emergency equipment or support			
Use of one or more portions of backup communications for notification			
Field monitoring			
Capability for determining the magnitude and impact of the particular components of a release			
Capability of post-accident coolant sampling and analysis			
Assembly and accountability			
Initial recovery planning activities			
Unannounced off hours drill including Staff Augmentation			

ATTACHMENT 4 EPIP ANNUAL REVIEW

Emergency Plan Implementing Procedures (Annual)				
Year: _____		Revision Number	Date Reviewed	PCR Y / N
5.7.1	Emergency Classification			
5.7.2	Shift Supervisor EPIP			
5.7.6	Notification			
5.7.7	Activation of TSC			
5.7.8	Activation of OSC			
5.7.8.1	Activation of Alternate OSC			
5.7.9	Activation of EOF			
5.7.9.1	Activation of Alternate EOF			
5.7.10	Personnel Assembly and Accountability			
5.7.11	Early Dismissal/Evacuation of Site Personnel			
5.7.12	Emergency Radiation Exposure Control			
5.7.13	Personnel Monitoring and Decontamination			
5.7.14	Stable Iodine Thyroid Blocking (KI)			
5.7.15	OSC Team Dispatch			
5.7.16	Release Rate Determination			
5.7.17	Dose Assessment			
5.7.18	Off-Site and Site Boundary Monitoring			
5.7.19	On-Site Radiological Monitoring			
5.7.20	Protective Action Recommendations			
5.7.21	Maintaining Emergency Preparedness - Emergency Exercises, Drills, Tests, and Evaluations			
5.7.22	Communications			
5.7.23	Activation of the JIC			
5.7.24	Medical Emergency			

Emergency Plan Implementing Procedures (Annual)				
Year: _____		Revision Number	Date Reviewed	PCR Y / N
5.7.25	Recovery Operations			
5.7.26	Long-Term Environmental Monitoring			
5.7.27	Alert and Notification System			
5.7.27.1	EAS Tone-Activated Radio Malfunction			
2.7.27.2	False Activation of Alert and Notification System Sirens			
5.7.28	Administration of Positional Instruction Manuals (PIMS)			

ATTACHMENT 5    EP EXERCISE CHECKLIST

- Year: \_\_\_\_\_
- 1. Exercise Date Selection. Date: \_\_\_\_\_
- 2. ERO Participant Notification. Date: \_\_\_\_\_
- 3. Scenario Development Personnel Assigned. Date: \_\_\_\_\_
- 4. Controllers/Evaluators Assigned. Date: \_\_\_\_\_
- 5. Exercise Objectives.
  - 5.1 Emergency Preparedness Manager Approval. Date: \_\_\_\_\_
  - 5.2 Submitted to Licensing (75 Day NRC Submittal, even years only). Date: \_\_\_\_\_
- 6. Exercise Scenario.
  - 6.1 Provided to Nebraska Emergency Management Agency (EMA). Date: \_\_\_\_\_
  - 6.2 Provided to Missouri EMA. Date: \_\_\_\_\_
  - 6.3 Sixty Day (Prior to Exercise) FEMA Submittal, even years only). Date: \_\_\_\_\_
  - 6.4 Provided to Licensing (45 Day NRC Submittal, even years only). Date: \_\_\_\_\_
- 7. Post Exercise Critique Date: Date: \_\_\_\_\_
- 8. Site Oversight Review Committee (SORC) Critique Report Review. Date: \_\_\_\_\_

ATTACHMENT 6 INSTRUCTIONS FOR EQUIPMENT INVENTORIES (ATTACHMENTS 7 THROUGH 14)
---

1. INSTRUCTIONS

1.1 PM cards, from the CNS Maintenance Planning Office, shall be issued to those departments responsible for emergency equipment inventory once per quarter. Emergency equipment inventory shall also be performed after each use.

1.1.1 The Radiological Protection Department is responsible for the inventory of emergency equipment listed on Attachments 7, 8, 10, 11, 12, 13, and 14.

1.1.2 The Maintenance Department is responsible for the inventory of emergency rescue equipment listed on Attachment 9.

1.2 Personnel responsible for emergency equipment inventory shall obtain an emergency locker seal prior to opening an Emergency Locker. A supply of locker seals shall be maintained by the Emergency Preparedness Department.

1.3 The inventory shall be performed utilizing the appropriate attachment of this procedure.

**NOTE** - An operability check need not be performed on communication equipment listed in this procedure that is located in the TSC, OSC, or EOF. Testing of these communication devices is conducted by the Emergency Preparedness Staff on a periodic basis.

1.4 Emergency equipment shall be inventoried, inspected, equipment calibration stickers checked, and an operability check shall be performed on all emergency equipment/instruments.

1.5 Operability, calibration, and equipment maintenance shall be conducted per normal station procedures.

1.6 During inspection, any equipment found inoperative or out of calibration shall be replaced in a timely manner.

1.7 During inspection, if any deficiency of inventory is discovered, contact the Emergency Preparedness Department.

ATTACHMENT 6    INSTRUCTIONS FOR EQUIPMENT INVENTORIES (ATTACHMENTS 7 THROUGH 14)
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- 1.8 Instruments or equipment may be routinely removed from inventory for purposes of calibration or repair. Instruments and equipment being removed for calibration or repair should be immediately replaced with similar reserve instruments or equipment, where such reserves exist. Instruments or equipment for which there are not reserves should be returned to inventory immediately upon completion of calibration or repair activities.
- 1.9 During the inventory process, the expiration date of the supply of Potassium Iodide (KI) located within the emergency response facilities shall be checked. If the expiration date is within 3 months from the date of the inventory currently being performed, contact the Emergency Preparedness Department and advise them of the expiration date. Emergency Preparedness Department personnel shall order a new supply of KI or receive an extension of the expiration date from the manufacturer.
- 1.10 Upon completion of the emergency equipment inventory, the PM card shall be signed off, indicating inventory is complete, and sent to the Emergency Preparedness Department for review. Emergency Preparedness Department will return the PM card to CNS Maintenance Planning Office. Documentation of emergency equipment inventories shall be kept on file at CNS Maintenance Planning Office.

ATTACHMENT 7    EMERGENCY EQUIPMENT MAINTAINED AT CONTROL ROOM
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**NOTE** - The air breathing equipment is not within the Emergency Locker, but the cases are located near the Emergency Locker for convenience, inspection, and maintenance.

ITEM	QUANTITY
1. Coveralls, Paper	25 Pairs
2. Shoe Covers, Disposable 14"	24 Pairs
3. Gloves, Disposable	2 Boxes
4. Geiger-Mueller Survey Meter (Range 0-50 mrem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	3 Each
6. Dosimeter, Direct Reading Electronic	6 Each
7. Spare Batteries ("AA" Cell)	12 Each
8. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	20 Bottles
9. Radiation Warning Sign And Appropriate Inserts	4 Each
10. Radiation Barrier Rope, 200'	1 Coil
11. Radiation Warning Tape	1 Roll
12. First Aid Kit	1 Each
13. Plastic Bag, Large	6 Each
14. Duct Tape, 2"	3 Rolls
15. Self-Contained Breathing Apparatus (With Voice Communicators)	6 Each
16. Full Face Respirators With Single Particulate Canisters	6 Each
17. Full Face Respirators With Single Particulate Canisters And Voice Communicators	6 Each
18. Spare Air Cylinders	6 Each
19. Spare Respirator Canister	12 Each
20. Hand Lantern, With 6 Volt Battery	2 Each
21. Flashlight, With Two "D" Cell Batteries	8 Each
22. Spare Battery For Hand Lantern (6 Volt)	2 Each
23. Spare Batteries ("D" Cell, 12 Per Box)	1 Box
24. Spare Battery (9 Volt)	24 Each
25. General Arrangement Drawing	1 Set
26. Step-Off Pad	1 Each
27. Radiation Monitor (Frisker)	1 Each
28. Spare Batteries ("C" Cell)	15 Each
29. Spare Batteries (30 Volt)	2 Each
30. Meals-Ready-To-Eat (MREs)©	> 20 Each
31. Smear Book (10 Smears Per Book)	10 Each

ATTACHMENT 8 EMERGENCY EQUIPMENT AT OSC

ITEM	QUANTITY
1. Flashlight, With Two "D" Cell Batteries	25 Each
2. Masking Tape	6 Rolls
3. Particulate Filter, 2"	1 Box
4. Charcoal And Silver Zeolite Cartridge	10 Each
5. Air Sample Plastic Bag And Label	20 Each
6. Smear Book (10 Smears Per Book)	10 Each
7. Spare Batteries ("D" Cell, 12 Per Box)	2 Boxes
8. Spare Batteries ("AA" Cell)	4 Each
9. Step-Off Pad	4 Each
10. Protective Clothing (Full Set)	6 Each
11. Self-Contained Breathing Apparatus	8 Each
12. Spare Bottle For SCBA	12 Each
13. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	100 Bottles
14. Survey Instrument Ion-Chamber (Range 0 to 50 rem/hr)	2 Each
15. I&C/Electrical Tool Kit	4 Each
16. Volt Ohmmeter	2 Each
17. Coveralls, Paper	25 Pairs
18. Shoe Covers, Disposable 14"	25 Pairs
19. Gloves, Disposable	1 Box
20. Radiation Barrier Rope, 200'	1 Roll
21. Radiation Monitor (Frisker)	2 Each
22. Radiation Warning Sign With Appropriate Inserts	12 Each
23. Mechanical Maintenance Tool Kit	2 Each
24. Continuous Air Monitor	1 Each
25. PD-1 Area Radiation Monitor	3 Each
26. Personnel Radiation Monitor	1 Each
27. Gloves, Electrical, Low Voltage	1 Pair
28. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
29. Hard Hat	10 Each
30. Safety Glasses	10 Each
31. Ear Plugs	1 Box
32. Portable Air Sampler	1 Each
33. Spare Battery (9 Volt)	12 Each
34. Spare Battery ("C" Cell)	12 Each
35. Geiger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each

ATTACHMENT 9    EMERGENCY RESCUE EQUIPMENT LOCKER
---

ITEM	DESCRIPTION	UNIT	QUANTITY
1.	Wrecking Bars	Each	2
2.	Bolt Cutters	Each	2
3.	Hacksaw and Blades	Each	2
4.	Come-Along	Each	1
5.	Cable Sling, 1/2" x 3'	Each	2
6.	Cable Sling, 1/2" x 6'	Each	2
7.	Hydraulic Jack, 3 Ton	Each	1
8.	Hydraulic Jack, 5 Ton	Each	1
9.	Sledge Hammer, Various Sizes	Each	4
10.	Porta Power	Each	1
11.	Web Slings (2" - 20' Long, 2" - 10' Long)	Each	4
12.	Sound Powered Phones	Each	1
13.	Safety Belt and Line	Each	1
14.	Fire Axe	Each	1
15.	Crow Bar	Each	1
16.	200' - 3 Part Block and Tackle	Each	1
17.	Battery Lanterns	Each	2
18.	Spare Batteries for Battery Lanterns	Each	2

ATTACHMENT 10 EMERGENCY EQUIPMENT MAINTAINED AT AOSC
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1. GENERAL SUPPLIES AND PROTECTION EQUIPMENT

ITEMS	QUANTITY
1. Coveralls, Paper	25 Pair
2. Shoe Covers	25 Pair
3. Gloves, Disposable	1 Box
4. PD-1 Area Radiation Monitor	3 Each
5. Continuous Air Monitor	1 Each
6. Radiation Monitor (Frisker)	1 Each
7. Flashlight, With 2 "D" Cell Batteries	8 Each
8. Spare Batteries ("D" Cell, 12 Per Box)	1 Box
9. Book Of Team-Dispatch Forms (Procedure 5.7.15, Attachment 1)	1 Each
10. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	20 Bottles
11. Step-Off Pad	2 Each
12. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
13. Spare Batteries ("AA" Cell, 4 Per Box)	1 Box

## 1. PROTECTION EQUIPMENT

**NOTE** - The air breathing equipment is not within the Emergency Locker, but the cases are near the Emergency Locker for convenience, inspection, and maintenance.

ITEM	QUANTITY
1. Coveralls, Paper	25 Each
2. Shoe Covers, Disposable 14"	25 Pairs
3. Gloves, Disposable	1 Box
4. Extendable Probe Survey Instrument (Range 0-1,000 rem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
6. Geiger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
7. Sample Holder With Pancake Type Detector	1 Each
8. Scaler Electronic Package (MS-2)	1 Each
9. Dosimeter, Direct Reading, Electronic	1 Each
10. Spare Batteries ("AA" Cell)	8 Each
11. Filters For Air Sampler; 2"	1 Box
12. Charcoal Cartridge For Air Sampler	10 Each
13. Silver Zeolite Cartridge For Air Sampler	10 Each
14. Extension Cord, Electric (50')	2 Each
15. PD-1 Area Radiation Monitor	3 Each
16. Continuous Air Monitor	1 Each
17. Self-Contained Breathing Apparatus	4 Each
18. Spare 45 Air Cylinder	4 Each
19. Tape, Duct, 2"	3 Rolls
20. Plastic Sheeting, 20' x 20'	2 Sheets
21. Plastic Bag, Small	1 Box
22. Plastic Bag, Large	6 Each
23. Radiation Warning Sign with Appropriate Inserts	12 Each
24. Smear Book (10 Smears Per Book)	20 Each
25. Radiation Barrier Rope, 200'	1 Coil
26. Radiation Warning Tape	1 Roll
27. Hand Lantern With 6 Volt Battery	1 Each
28. Flashlight, With Two "D" Cell Batteries	8 Each
29. Spare Battery For Hand Lantern (6 Volt)	1 Each
30. Spare Batteries ("D" Cell, 12 Per Box)	1 Box

**ATTACHMENT 11 EMERGENCY EQUIPMENT MAINTAINED AT EOF**

ITEM	QUANTITY
31. Pocket Knife	1 Each
32. Small Hand Tool Kit With Straight Slot Screwdriver, Phillips Screwdriver, Small Pliers, And Small Vise Grip	1 Each
33. Step-Off Pads	2 Each
34. Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments	1 Each
35. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	200 Bottles
36. Radiation Monitor (Frisker)	2 Each
37. Continuous Air Monitor Particulate Filter (CNSNO 35881)	10 Each
38. Spare Batteries (9 Volt)	12 Each
39. Spare Batteries ("C" Cell)	6 Each
40. Portable Air Sampler	1 Each

2. EMERGENCY DOWNWIND SURVEY KIT SUPPLIES (two complete kits are required).

**NOTE** - The Downwind Survey Team Supplies (Items 1 through 13) are located in the EOF. Items 14 through 47 may be stored in the Downwind Survey Vehicles.

ITEM	QUANTITY
1. Full Face Respirator	2 Each
2. Hand Lantern	1 Each
3. Spare Battery For Hand Lantern	1 Each
4. Calculator	1 Each
5. Dosimeter, Direct Reading Electronic	2 Each
6. Spare Batteries ("AA")	4 Each
7. Hand Held Radio	1 Each
8. Gieger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
9. Ion Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
10. Spare Battery ("D" Cell)	4 Each
11. Spare Battery (30 Volt)	1 Each
12. Spare Battery (9 Volt)	4 Each
13. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	2 Bottles
14. Low Cut Rubber Shoes	4 Each

ATTACHMENT 11 EMERGENCY EQUIPMENT MAINTAINED AT EOF

ITEM	QUANTITY
15. 250 ml Square Bottle	6 Each
16. One Liter Bottle	4 Each
17. Masslin Cloths	1 Package
18. One-Piece Plastic Coveralls	2 Each
19. Shovel	1 Each
20. Combination Cartridge For Respirator	8 Each
21. Masking Tape	2 Rolls
22. Emergency Action Log	1 Pad
23. Procedure 9.EPIN.1, Emergency Air Samplers	1 Each
24. Plastic Sheeting	1 Roll
25. Complete Set Of EPIPs	1 Each
26. Bolt Cutters	1 Each
27. Small Plastic Bag	50 Each
28. Grass Shears	1 Each
29. Paper Coveralls	4 Each
30. 2" Air Sample Filters	1 Box
31. Silver Zeolite Cartridge	6 Each
32. Charcoal Cartridge	6 Each
33. 2" Millipore Air Sample Filters	1 Box
34. Air Sampler With Head	1 Each
35. Smear Book (10 Smears Per Book)	10 Each
36. Radioactive Material Sticker	50 Each
37. Sample Label	25 Each
38. 2 cc Vial	10 Each
39. Plastic Pipet	10 Each
40. Lined Paper Pad	1 Pad
41. Clipboard	2 Each
42. 10-Mile Radius Map	2 Each
43. Site Map	1 Each
44. Large Plastic Bags	25 Each
45. Disposable Gloves	1 Box
46. Ink Pens	3 Each
47. Tweezers	1 Each

ATTACHMENT 11 EMERGENCY EQUIPMENT MAINTAINED AT EOF
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3. DECONTAMINATION SUPPLIES

**NOTE** - Following supplies are available in or near the EOF Decon Room.

ITEM	QUANTITY
1. Towels	10 Each
2. Soap	3 Bars
3. Septisol (Germicide)	1 Can
4. Lanolin	1 Tube
5. Swabs, Cotton Tipped, 100s	3 Packages
6. Compresses, Gauze, 3" x 3", 100s	2 Packages
7. Towels, Paper	1 Roll
8. Beaker, Plastic, 150 ml	3 Each
9. Hand Brush, Soft Bristle	2 Each
10. Soap, Pumice	2 Bars

4. FIRST AID AND RESCUE EQUIPMENT

ITEM	QUANTITY
1. First Aid Kit	1 Each
2. Stretcher	1 Each
3. Rope, 1/2" - 50'	1 Coil

ATTACHMENT 12 EMERGENCY EQUIPMENT MAINTAINED AT AEOF

1. PROTECTION EQUIPMENT AND ADMINISTRATIVE SUPPLIES

ITEM	QUANTITY
1. Coveralls, Paper	50 Each
2. Shoe Covers, Disposable 14"	50 Pairs
3. Gloves, Disposable	2 Boxes
4. Gieger-Mueller Survey Instrument (Range 0-50 mrem/hr)	1 Each
5. Ion-Chamber Survey Instrument (Range 0-50 rem/hr)	1 Each
6. Sample Holder With Pancake Type Detector	1 Each
7. Scaler Electronic Package (MS-2)	1 Each
8. Dosimeter, Direct Reading Electronic	1 Each
9. Spare Batteries ("AA" cell)	4 Each
10. Portable Air Sampler w/Head (High Volume) (60 Hz, 120 VAC)	1 Each
11. Inverter (12 VDC To 120 VAC)	1 Each
12. Filter For Air Sampler; 2"	1 Box
13. Charcoal Cartridge For Air Sampler	5 Each
14. Silver Zeolite Cartridge For Air Sampler	5 Each
15. Extension Cord, Electric (50')	1 Each
16. Tape, Duct, 2"	3 Rolls
17. Plastic Sheeting, 20' x 20'	2 Sheets
18. Plastic Bag, Small	1 Box
19. Plastic Bag, Large	6 Each
20. Radiation Warning Sign With Appropriate Inserts	12 Each
21. Smear Book	20 Each
22. Radiation Barrier Rope, 200	1 Coil
23. Radiation Warning Tape	1 Roll
24. Hand Lantern With 6 Volt Battery	3 Each
25. Flashlight, With Two "D" Cell Batteries	8 Each
26. Spare Battery For Hand Lantern (6 Volt)	3 Each
27. Spare Batteries ("D" Cell)	1 Box
28. Pocket Knife	1 Each
29. Small Hand Tool Kit With Straight Slot Screwdriver, Phillips Screwdriver, Small Pliers, And Small Vise Grip	1 Each
30. Shovel	1 Each
31. Liter Bottle	6 Each
32. Step-Off Pad	2 Each

ATTACHMENT 12 EMERGENCY EQUIPMENT MAINTAINED AT AEOF

ITEM	QUANTITY
33. Thyroid Blocking Tablets (KI) Check Expiration Date Per Step 1.9	60 Bottles
34. Radiation Monitor (Frisker)	1 Each
35. Spare Batteries (9 Volt)	6 Each
36. Spare Batteries ("C" Cell)	1 Box

2. DECONTAMINATION SUPPLIES

ITEM	QUANTITY
1. 55 Gallon Radwaste Barrel With Lid	3 Each
2. Disposable Coveralls	50 Each
3. Disposable Gloves, 25 Pair/Box	2 Boxes
4. 2" Masking Tape	3 Rolls
5. Small Poly Bag	12 Each
6. Large Poly Bag	36 Each
7. Plastic Bucket	4 Each
8. Bar Soap	24 Each
9. Bath Towel	~ 50.
10. Poly Sheeting	1 Roll
11. Procedure 9.RADOP.7, Personnel Decontamination	6 Copies
12. Pumice Soap	2 Bars
13. Septisol (Germicide)	1 Can
14. Lanolin	1 Tube
15. Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments	1 Each
16. Swabs, Cotton Tipped, 100s	3 Packages
17. Compresses, Gauze, 3" x 3", 100s	2 Packages
18. Towels, Paper	1 Roll
19. Breaker, Plastic 150 ml	3 Each
20. Hand Brush, Soft Bristle	10 Each

3. FIRST AID AND RESCUE EQUIPMENT

ITEM	QUANTITY
1. First Aid Kit	1 Each
2. Stretcher	1 Each

ATTACHMENT 13 EMERGENCY EQUIPMENT MAINTAINED FOR AMBULANCE
---

ITEM	QUANTITY
1. Dosimeter, Direct Reading Electronic	5 Each
2. TLD Badge	5 Each
3. Geiger-Mueller Survey Instrument (CPM)	1 Each
4. Ion-Chamber Survey Instrument (0-5 rem/hr)	1 Each
5. Radiation Tag	10 Each
6. Spare Batteries ("AA" Cell)	8 Each
7. Smear Book	5 Each
8. Form CNS RP-25, TLD Badging Record	1 Each
9. Spare Batteries (9 Volt)	6 Each
10. Spare Batteries ("C" Cell)	1 Box

ATTACHMENT 14 EMERGENCY EQUIPMENT MAINTAINED AT HOSPITAL

ITEM	QUANTITY
1. Radiation Barrier Rope	1 Roll
2. Masking Tape	10 Rolls
3. Brown Paper	1 Roll
4. Plastic Sheeting	1 Roll
5. Applicable Radiation Warning Signs With Inserts, As Appropriate	5 Each
6. Shoe Covers	15 Pairs
7. Bags, Plastic (Large)	10 Each
8. Bags, Plastic (Small)	20 Each
9. Radiation Marking Tape	1 Roll
10. Coveralls, Paper	25 Pairs
11. Gloves, Rubber Disposable	2 Boxes
12. Cardboard Boxes, ~ 2' x 3'	6 Each
13. Masslin Cloths	1 Bundle
14. Step-Off Pad	1 Each

## 1. DISCUSSION

1.1 Annual - Once per calendar year (January 1 through December 31).

1.2 Biennial - Once per two calendar years.

## 1.3 DRILLS

- 1.3.1 Communications Tests and Drills - Communications tests involve the use of emergency communications equipment to verify operability. Communications drills involve use of emergency communications equipment to notify and transfer simulated emergency information to off-site governmental agencies.
- 1.3.2 Performance Indicator (PI) (ERF) Drill - An ERF drill demonstrated various emergency response capabilities including management and coordination of emergency response, accident assessment, protective action decision-making, and plant system repair and corrective action involving all or certain Emergency Response Facilities (Control Room, Technical Support Center (TSC), Operational Support Center (OSC), and Emergency Operations Facility (EOF)). These drills are conducted at least four times per calendar year and should be conducted approximately once each calendar quarter. One of these drills is designed to satisfy the requirements of an exercise as defined below. Non-exercise drills provide opportunity to consider accident management strategies. Supervised instruction can be permitted for these drills, with operating staff having the opportunity to resolve problems (success paths) rather than have controllers intervene. Additionally, non-exercise drills may focus on on-site training objectives.
- 1.3.3 Medical Emergency Drill - A medical emergency drill involves a simulated contaminated individual, with provisions for activation of the plant First Aid/Personnel Decontamination Team. Participation by local support services (i.e., ambulance and off-site medical treatment facility) is tested separately once per year or as part of the annual medical drill. Medical Emergency Drills are conducted at least once every calendar year.
- 1.3.4 Radiological Monitoring Drill - Radiological monitoring drills include collection and analysis of air samples, testing of communications, and understanding of messages between Radiological Protection supervision and the off-site monitoring teams. A radiological monitoring drill will be conducted at least once every calendar year.

1.3.5 Radiological Protection Drills - Radiological Protection drills test various tasks employed by that department during an emergency condition. Radiological Protection drills are conducted semi-annually and one of the semi-annual drills may be incorporated into the radiological monitoring drill.

1.4 Exercise - An exercise is an event that tests the integrated capability of a major portion of the basic elements existing within the CNS Radiological Emergency Plan. An exercise is required biennially per 10CFR50. Off-site agency participation is required biennially. Exercises are developed, scheduled, and conducted in a manner consistent with the regulations and guidance of 10CFR50, Appendix E, NUREG 0654, and other appropriate regulatory documents. Biennial exercises involving off-site agencies shall be conducted as a Site Area Emergency and should escalate to General Emergency. The exercise scenarios are varied such that all major elements of the Plan are tested at least every 6 years.

1.5 Letter of Agreement (LOA) - Support or assistance from outside agencies is established and maintained through Letters of Agreement or, in some instances, purchase orders/contracts. Letters of Agreement are confirmed annually through correspondence, direct contact, or by telephone. Purchase orders/contracts are renewed as required.

1.6 Monthly - At least once each calendar month, being the first day of each month until the last unless otherwise specified.

1.7 Quarterly - Once per calendar quarter, with the quarters being January through March, April through June, July through September, and October through December.

1.8 Semi-Annual - Twice per calendar year, with one time from January 1 to June 30 and one from July 1 to December 31.

## 2. RESPONSIBILITIES

2.1 The Emergency Preparedness Manager is responsible for:

2.1.1 Planning, scheduling, and coordinating emergency exercises involving off-site agencies.

2.1.2 Reviewing Attachment 1, EP Program Maintenance Checklist, upon completion.

2.1.3 Reviewing results of exercises and major drills.

- 2.2 The Senior Manager of Site Support, with plant management, is responsible for ensuring adequate resources are made available to support and conduct emergency preparedness activities including:
  - 2.2.1 Exercises and drill scenario development and control.
  - 2.2.2 Exercise and drill participation.
  - 2.2.3 Support for maintenance of emergency facilities and equipment.
- 2.3 The Site Oversight Review Committee (SORC) is responsible to review the following:
  - 2.3.1 Revisions to the CNS Radiological Emergency Plan.
  - 2.3.2 Revisions to Emergency Plan Implementing Procedures (EPIPs).
  - 2.3.3 Quarterly PI Drill Critique Report.
- 2.4 The Emergency Preparedness (EP) Manager is responsible for:
  - 2.4.1 Maintaining awareness of EP activities.
  - 2.4.2 Ensuring coordination of EP drills and exercises in accordance with this procedure.
  - 2.4.3 Ensuring documentation of EP Program maintenance in Attachment 1, EP Program Maintenance Checklist.
  - 2.4.4 Ensuring documentation of major element demonstration as indicated on Attachment 3, Emergency Plan 6 Year Element Demonstration.
  - 2.4.5 Ensuring critiques of exercises, drills, and actual events are conducted, documented, and that deficiencies are addressed in accordance with plant corrective action practices.
  - 2.4.6 Ensuring that EPIPs are reviewed through feedback from the following sources:
    - 2.4.6.1 Daily use.
    - 2.4.6.2 Drills and exercises.
    - 2.4.6.3 Actual events.

2.4.6.4 Training.

2.4.6.5 Annual EPIP review as indicated on Attachment 4, EPIP Annual Review.

### 3. REFERENCES

#### 3.1 CODES AND STANDARDS

3.1.1 NPPD Emergency Plan for CNS.

3.1.2 NUREG 0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

3.1.3 10CFR50, Domestic Licensing of Production and Utilization Facilities.

3.1.4 Generic Letter #GL 93-01, Emergency Response Data System Test Program.

#### 3.2 PROCEDURES

3.2.1 Administrative Procedure 0-EP-02, Configuration Control of The Automated Notification System (ANS).

3.2.2 Administrative Procedure 0-PI-01, Performance Indicator Program.

3.2.3 Radiological Protection Procedure 9.EPIN.1, Emergency Air Samplers.

3.2.4 Radiological Protection Procedure 9.INST.58, Portable Beta-Gamma Counting Instruments.

3.2.5 Radiological Protection Procedure 9.RADOP.7, Personnel Contamination.

#### 3.3 MISCELLANEOUS

3.3.1 QA Finding 92-1900-24.

3.3.2 RCR 2002-0014.

3.3.3 EPDG #2, Emergency Preparedness Department Guide #2.

ATTACHMENT 15 INFORMATION SHEET
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3.3.4 RCR 2001-0075 (QA Audit 01-01).

3.3.5 RCR 2002-0520 (QA Audit 02-03).

3.4 NRC COMMITMENTS

3.4.1 © NUREG-0737, Item III.D.3.4, Section 5.2, Emergency Provisions (LQA 8000581-11). Commitment affects Step 30 on Attachment 7.

3.4.2 © NRC Inspection Report 01-04 (NLS2001081). Commitment affects Step 2.3.1 on Attachment 2.

<u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.22  COMMUNICATIONS	USE: REFERENCE  EFFECTIVE: 4/13/02 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 2001).
- [ ] 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 System A or B and set to any of the other not in use channels. Up to six 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 2001)

- [ ] 8.1 The FTS 2001 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 2001 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, OSC, 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, OSC, 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 it's 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 16). However, there is a "backup" method which allows the pagers to be activated by any touch-tone telephone. This backup method is password protected.

[ ] 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

[ ] **NOTE** - The following information applies to the Motorola "Bravo" digital pagers issued to most CNS employees. Some CNS employees, due to special circumstances, are issued Motorola "Advisor Gold" Alpha-Numeric pagers for which the following information does not apply. The CNS EP Department keeps printed operational information and instructions for use of both types of pagers on file in the EP office area for those individuals who request a copy.

[ ] 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: 222-8255560. This would indicate a declaration with Emergency Response Facility Activation and responders to the plant.
  
- [ ] 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

CODE	CODE DESCRIPTION
100	NOUE: EP AND PADO RESPONSE ONLY
222	RESPOND TO CNS IF FIT FOR DUTY
333	RESPOND TO THE ALTERNATE EOF IF FIT FOR DUTY
600	DRILL - ERO CALL IN TEST
622	DRILL - RESPOND TO CNS IF FIT FOR DUTY
633	DRILL - RESPOND TO THE ALTERNATE EOF IF FIT FOR DUTY

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 be printed to any location having a FAX machine or LAN printer.
  - [ ] 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. Following declaration of Alert or higher 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 touch-tone telephone by calling into the system extension 8579 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 three 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, OSC, 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.

18. GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE (GETS)

[ ] 18.1 GETS should be used during a National Security and Emergency Preparedness event that causes congestion and blockage in the public switched telephone network. Refer to Attachment 2, Governmental Emergency Telecommunications Service (GETS), for GETS usage instructions.

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 2001 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		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

ATTACHMENT 2    GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE (GETS) INSTRUCTIONS
--

**NOTE 1** - GETS should be used during a National Security and Emergency Preparedness event that causes congestion and blockage in the public switched telephone network.

**NOTE 2** - The Control Room GETS card is located in the Shift Supervisor's cubicle in the CNS Control Room.

**NOTE 3** - The EOF GETS card is located in the Emergency Preparedness Coordinator's Position Instruction Manual (PIM).

To place a call utilizing GETS:

1. Dial 9-1-710-627-4387.
  - Alternate number (to be used if you cannot complete the call using the main GETS number) - 9-1-888-288-4387.
2. After the short dial tone, enter your PIN located on your GETS card.

**NOTE** - Do NOT dial a 9-1 before entering your destination number's Area Code and Telephone Number. This will cause failure in connecting to the destination number.

3. When prompted, dial your destination number (Area Code + Telephone Number).

GETS Assistance:

1. Dial 9-1-800-818-GETS (4387) to obtain user assistance or report trouble at any time. This line is available 24 hours a day.

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 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.
- 2.2.3 Emergency Plan Implementing Procedure 5.7.2, Shift Supervisor EPIP.

<u>CNS OPERATIONS MANUAL</u> EPIP 5.7.23  ACTIVATION OF THE JIC	USE: REFERENCE  EFFECTIVE: 4/13/02 APPROVAL: SORC OWNER: T. S. HAYNES DEPARTMENT: EP
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1. PURPOSE

This procedure provides notification and activation instructions in the event of a declared emergency at Cooper Nuclear Station (CNS). It provides instructions for the Public Affairs Duty Officer (PADO) to notify Corporate Communications and NPPD management. It also describes the functions of the Joint Information Center (JIC) and the responsibilities of the JIC staff in the event an emergency is declared at CNS.

2. PRECAUTIONS AND LIMITATIONS

- [ ] 2.1 The Emergency Director approves all written information releases prior to their release.
- [ ] 2.2 Accuracy in receiving information regarding an emergency at CNS is extremely important. Be sure the receiver of each message understands its content. Ensure the information is recorded concisely and the reporting official repeats the information and gives his name.

[ ] 2.3 Accuracy in releasing information regarding an emergency at CNS is also extremely important. Always coordinate with other information gatherers before any information is released to the media or the public.

[ ] 2.4 It is imperative that all media releases/briefings be documented.

### 3. REQUIREMENTS

[ ] 3.1 An emergency has been declared at CNS per Procedure 5.7.1.

### 4. INITIAL NOTIFICATION OF THE PADO

[ ] 4.1 The PADO shall be notified by pager of any emergency situation at CNS. The pager will display a return telephone number at CNS.

[ ] 4.2 The PADO shall immediately return a call to the telephone number provided and follow instructions given by the Automated Notification System (ANS). This will also provide the PADO with information on how to contact the CNS Communicator.

[ ] 4.3 Obtain Procedure 5.7.6, Attachment 1, Cooper Nuclear Station Notification Report. Upon establishing contact with the CNS Communicator, identify yourself as the PADO and request all information from the Initial Cooper Nuclear Station Notification Report. In certain cases, the CNS Communicator may not be available to provide you the information via telephone in a timely manner. In such cases, a fax of the Initial Notification Report is acceptable.

[ ] 4.4 Repeat the emergency information on Procedure 5.7.6, Attachment 1, back to the CNS Communicator, if received via telephone. Forward the Initial Notification Report to the Public Affairs Director.

[ ] 4.4.1 Request the CNS Communicator to fax all Notification Reports to you.

[ ] 4.4.2 Notify the **Vice President - Nuclear** of an emergency situation at CNS and relay the information from Procedure 5.7.6, Attachment 1, Cooper Nuclear Station Notification Report.

[ ] 4.4.3 Notify the **Chief Executive Officer (CEO)** or designee of an emergency situation at CNS and relay the information from Procedure 5.7.6, Attachment 1, Cooper Nuclear Station Notification Report.

- [ ] 4.5 Advise the CNS Communicator how to provide you further information. Give him a telephone number where you may be reached or tell him to continue to use the pager system.
- [ ] 4.5.1 IN THE EVENT THAT THE JIC NEEDS TO BE ACTIVATED DURING NORMAL OFFICE HOURS (JIC ACTIVATION IS REQUIRED AT A SITE AREA EMERGENCY OR HIGHER CLASSIFICATION. HOWEVER, THE PUBLIC AFFAIRS DIRECTOR AND/OR EMERGENCY DIRECTOR CAN CHOSE TO ACTIVATE AT A LOWER CLASSIFICATION) - Request the NPPD General Office Receptionist to use the building paging system to announce the activation of the JIC. The Public Affairs Director has the responsibility to ensure the JIC is staffed and activated.
- [ ] **NOTE** - A print-out of qualified JIC personnel can be found in the Corporate Communications office, Public Affairs Director PIM, and the Facility Manager PIM.
- [ ] 4.5.2 In the event that the JIC needs to be activated during non-business hours, the Public Affairs Director has the responsibility to ensure members of the JIC staff are contacted and the JIC is activated.

5. PUBLIC AFFAIRS DIRECTOR

- [ ] 5.1 The Public Affairs Director (PAD) is responsible for the following:
  - [ ] 5.1.1 Ensuring appropriate JIC staff members have been notified that the JIC is activating.
  - [ ] 5.1.2 Conducting a roll call to verify JIC Emergency Response positions have been staffed.
  - [ ] 5.1.3 Obtaining a current plant status report from the Emergency Director.
  - [ ] 5.1.4 Conducting an initial meeting with key JIC personnel to ensure they are ready to assume their emergency response functions.
  - [ ] 5.1.5 Declaring the JIC operational.
  - [ ] 5.1.6 Contacting the EOF Director to inform him that the JIC is operational.
  - [ ] 5.1.7 Conducting initial and follow-up meetings with the JIC staff and other agencies to ensure everyone has the latest emergency status information.

- [ ] 5.1.8 Coordinating JIC public relations activities by ensuring following activities are performed:
  - [ ] 5.1.8.1 News conferences.
  - [ ] 5.1.8.2 Media monitoring.
  - [ ] 5.1.8.3 Rumor control.
  - [ ] 5.1.8.4 Employee information.
- [ ] 5.1.9 Contacting the CEO and update him on the emergency status.
- [ ] 5.1.10 Ensuring appropriate media representatives (AP, Omaha World Herald, etc.) are contacted and informed the JIC is functioning.
- [ ] 5.1.11 Providing the Governmental Affairs office with information concerning the emergency status at CNS.
- [ ] 5.1.12 Coordinating activities of the JIC with Media Representatives and moderate the news conferences (who speaks, when, where, etc.).
- [ ] 5.1.13 Taking notes in news conferences and assisting the designated Spokesperson, as necessary.
- [ ] 5.1.14 Ensuring "press releases" by NPPD are faxed to NRC Region IV Public Information Officer and NRC Operations Center. Fax numbers are located in the Emergency Telephone Directory.
- [ ] 5.1.15 Ensuring following are notified and provided with CNS status:
  - [ ] 5.1.15.1 LES Public Information.
  - [ ] 5.1.15.2 Mid American Energy Corporate Communications.
- [ ] 5.1.16 Providing status of JIC support efforts to EOF.
- [ ] 5.1.17 Providing follow-up contact with the EOF Director, Vice President - Nuclear, and CEO as needed.
- [ ] 5.1.18 The PAD will review the written information releases to ensure following items are included:
  - [ ] 5.1.18.1 Time of events and declaration.
  - [ ] 5.1.18.2 Points of contact and/or telephone numbers for news media.

5.1.19 The PAD will send the written information release to the Emergency Director for approval.

5.1.19.1 The PAD will issue the information release for final processing after receiving the Emergency Directors approval.

## 6. FACILITY MANAGER

6.1 The Facility Manager is responsible for following:

6.1.1 Assuming responsibility for all office machines, supplies, and their environment throughout the course of the emergency.

6.1.2 Ensuring tables and chairs are set up.

**NOTE** - Emergency Planning Implementing Procedures and Emergency Telephone Directories are located in JIC Cabinet #1. Equipment and supplies can be found in JIC Cabinet #2. Two fax machines for the JIC and two fax machines for the States are located in JIC Cabinet #3.

6.1.3 Setting up and verifying operability of all communications equipment. If any equipment is found to be defective, make arrangements to replace or augment it.

6.1.4 Ensuring equipment and supplies are available in the media briefing area (microphones, PA system, literature display, etc.).

6.1.5 Establishing and maintaining security by stationing one person at the Board Room Entrance near the General Office Lobby to perform following:

6.1.5.1 Register NPPD, State, Federal agency personnel, and media representatives names and affiliations. Ensure media representatives have Media Press Credentials.

6.1.5.2 Direct media representatives to briefing area.

6.1.5.3 If necessary, acquire additional Security personnel (i.e., Columbus Police Department and/or professional security contractor. Guard-Rite Security Services L.L.C. can be contacted at 402-644-8000 or 402-644-7054 (emergencies).

6.1.6 Developing a 24 hour schedule for JIC personnel.

- 6.1.7 Obtaining clerical and administrative support for the JIC staff as necessary.
- 6.1.8 The Facility Manager will post a notice for the scheduled news conference near the briefing area.
- 6.1.9 Ensuring the JIC is cleaned up and the appropriate equipment is returned to the General Office when the facility is deactivated.

## 7. TECHNICAL BRIEFER

- 7.1 The Technical Briefer is responsible for following:
  - 7.1.1 Establishing contact with the EOF TIC.
  - 7.1.2 Receiving technical information for use by the designated Spokesperson in news conferences.
  - 7.1.3 Providing technical information to the Public Affairs Director (PAD).
  - 7.1.4 Assisting in the review of statements to the media by providing clarification of the technical data.
    - 7.1.4.1 The type, severity, and extent of the emergency at CNS.
    - 7.1.4.2 The plant's current status (i.e., stable, improving, or deteriorating).
    - 7.1.4.3 Any changes in the emergency classification.
    - 7.1.4.4 A description of the latest developments regarding the emergency situation.
    - 7.1.4.5 The prognosis for, or magnitude of, any radiological releases from the plant and the associated meteorological conditions.
    - 7.1.4.6 A description of those actions taken or currently being undertaken to mitigate the emergency and place the plant in a safe and stable condition.
    - 7.1.4.7 Forward the information release to the PAD.
  - 7.1.5 Organizing the appropriate technical information for use in development of news conferences and communiques.

- 7.1.6 Responding to technical questions that were asked by the media during news conferences and organize the appropriate responses for use in development of the upcoming news release, if necessary.

## 8. MEDIA MONITOR

- 8.1 The Media Monitor is responsible for following:

- 8.1.1 Assisting in assembling equipment necessary for operation of the public information effort.
- 8.1.2 Monitoring and recording radio and television network newscasts, particularly the EAS stations associated with CNS. Inform Public Affairs Director (PAD) of any misinformation being generated by or through the media.
- 8.1.3 Remaining available to PAD for media monitoring assignments relative to emergency response by the District.

## 9. DESIGNATED SPOKESPERSON

- 9.1 The designated Spokesperson is responsible for following:

- 9.1.1 The designated Spokesperson will represent NPPD during news conferences and present prepared statements to the media.

## 10. PUBLIC INFORMATION OFFICER

- 10.1 The Public Information Officer (PIO) is responsible for:

- 10.1.1 Making arrangements for two laptops and one printer to be brought to the JIC facility.
- 10.1.2 Coordinating activities with Public Information Officers from other agencies (state and federal).
- 10.1.3 The PIO will prepare written information releases for the news media and the public as needed.
- 10.1.4 Assisting with the rumor control function in the JIC.
- 10.1.5 Assisting with response to public inquiries, if necessary.
- 10.1.6 Responding to public inquiry calls directed to NPPD at the JIC in cooperation with State and Federal personnel.
- 10.1.7 Provide support to the District's designated Spokesperson.

11. RUMOR CONTROL ACTIVITIES

- 11.1 Rumor control personnel shall relay rumors or misinformation and trends in information to the Public Affairs Director (PAD).
  - 11.1.1 PAD will ensure rumors and misinformation are addressed in a timely manner in either a news conference or a telephone call.
  - 11.1.2 As appropriate, rumors or misinformation regarding state or county activities will be referred to the state or county Public Information Officer located in the JIC.

12. PREPARATION AND APPROVAL OF WRITTEN INFORMATION (PRESS) RELEASES

- 12.1 At a minimum, written information releases should be prepared following activation of the JIC and cancellation of the emergency (i.e., resumption of normal plant operations); however, written information releases should be prepared as events related to the emergency dictate to ensure the news media and the public are kept informed, and to preclude the dissemination of misinformation. Such information releases should also be prepared when a change in emergency classification occurs.
- 12.2 The Public Information Officer will prepare written information releases for the news media and the public as needed.
- 12.3 The Technical Briefer will ensure the information release is accurate with regard to following:
  - 12.3.1 The type, severity, and extent of the emergency at CNS.
  - 12.3.2 The plant's current status (i.e., stable, improving, or deteriorating).
  - 12.3.3 Any changes in the emergency classification.
  - 12.3.4 A description of the latest developments regarding the emergency situation.
  - 12.3.5 The prognosis for, or magnitude of, any radiological releases from the plant and the associated meteorological conditions.
  - 12.3.6 A description of those actions taken or currently being undertaken to mitigate the emergency and place the plant in a safe, stable condition.
  - 12.3.7 Forward the information release to the Public Affairs Director (PAD).

- 12.4 The PAD will review the written information releases to ensure following items are included:
  - 12.4.1 Time of events and declaration.
  - 12.4.2 Points of contact and/or telephone numbers for news media.
- 12.5 The PAD will send the written information release to the Emergency Director for approval.
  - 12.5.1 The PAD will generate the information release for final processing after receiving the Emergency Directors approval.
- 12.6 DISTRIBUTION OF WRITTEN INFORMATION RELEASES
  - 12.6.1 The PAD's Secretary will distribute copies of the written information releases to following:
    - 12.6.1.1 Facility Manager for inclusion on the media materials desk.
    - 12.6.1.2 Federal and State Public Information Officers in the JIC.
    - 12.6.1.3 Fax copies to the Governmental Affairs Office, NRC Region IV Public Information Officer, NRC Operations Center, LES Public Information, and Mid American Energy Corporate Communications. Fax numbers are located in the Emergency Telephone Directory.

### 13. NEWS CONFERENCES

- 13.1 News conferences should be conducted as events related to the emergency dictate; however, it is recommended, at a minimum, news conferences be conducted at least once each day, until such time that the plant has been placed in a safe and stable condition.
- 13.2 The Public Affairs Director (PAD) should schedule news conferences held in the JIC and announce the time to the media representatives, if possible.
- 13.3 The Facility Manager will post a notice for the scheduled news conference near the briefing area.
- 13.4 Prior to the news conference the designated Spokesperson, PAD, Public Information Officer, and the appropriate State and Federal personnel shall meet to discuss the content and organization of the news conference.
- 13.5 The PAD should serve as the moderator for all news conferences.

- [ ] 13.6 The designated Spokesperson will present prepared statements to the media during news conferences.
- [ ] 13.7 The Technical Briefer should respond to technical questions that were asked by the media during news conferences and organize the appropriate responses for use in development of the upcoming news release, if necessary.

#### 14. EMPLOYEE INFORMATION ACTIVITIES

- [ ] 14.1 Contact NPPD Regional System Control (Norfolk and Kearney), Transmission Control Center (Doniphan), Gerald Gentleman Station, and Sheldon Station and:
  - [ ] 14.1.1 Inform the area Managers of the emergency status at CNS. Updates need to be sent out as appropriate.
- [ ] 14.2 Contact the Customer Care Call Center in Norfolk and have them update the Customer Care Manager or designee of the emergency status at CNS.
- [ ] 14.3 Notify PAD immediately upon completion of these tasks.
- [ ] 14.4 Update the area Managers, as appropriate.
- [ ] 14.5 Respond to telephone requests for information, as necessary.

#### 15. RECOVERY

- [ ] 15.1 The Emergency Director at CNS evaluates the effectiveness of corrective actions taken at the Station and determines if the emergency is under control as discussed in Section 9 of the NPPD Emergency Plan for CNS. When the emergency is determined to be under control and at the direction of the Emergency Director, a Recovery Panel is activated. The Panel may consist of following personnel:
  - [ ] 15.1.1 Emergency Director.
  - [ ] 15.1.2 Emergency Operations Facility Director (EOF).
  - [ ] 15.1.3 Technical Support Center Director (TSC).
  - [ ] 15.1.4 Public Affairs Director (JIC).
  - [ ] 15.1.5 Radiological Control Manager (EOF).

- [ ] 15.2 Accuracy in releasing information regarding an emergency at CNS is extremely important. Always coordinate and verify information before a statement is made to the media or the public.
- [ ] 15.3 All actions necessary during recovery operations cannot be anticipated. Most actions necessary during recovery from an accident at CNS will be dependent upon the conditions of the event. Personnel need to be alert, anticipate and identify problem situations, and communicate effectively.
- [ ] 15.4 When the Recovery Panel is activated by the Emergency Director at CNS, JIC activities will be as follows:
  - [ ] 15.4.1 The Public Affairs Director will represent the JIC on the Recovery Panel by conference call.
  - [ ] 15.4.2 Notifying JIC personnel of Recovery Panel activation.
  - [ ] 15.4.3 Providing input to the Recovery Panel, as appropriate.
  - [ ] 15.4.4 Providing Legislative Affairs office with current emergency information.
- [ ] 15.5 When Recovery Panel activities are terminated, JIC activities will be as follows:
  - [ ] 15.5.1 The Public Affairs Director will:
    - [ ] 15.5.1.1 Brief JIC personnel of any Recovery Panel decisions and information, as appropriate.
    - [ ] 15.5.1.2 Ensure the Facility Manager is informed of the CNS emergency status and expected time frame for future actions.
    - [ ] 15.5.1.3 Instruct JIC personnel to continue with facility activities.
- [ ] 15.6 When the decision has been made to initiate the Recovery Organization, JIC activities will be as follows:
  - [ ] 15.6.1 The Public Affairs Director
    - [ ] 15.6.1.1 Notify JIC personnel of the decision to activate the Recovery Organization.
    - [ ] 15.6.1.2 Contact the Vice President - Nuclear to discuss the expected time frame for maintaining JIC activities.

- 15.6.1.3 Deactivate the JIC, as necessary.
- 15.6.1.4 Provide Legislative Affairs office with emergency and recovery operation information.
- 15.7 Overall activities of the JIC after activation of the Recovery Organization are as follows:
  - 15.7.1 Support the CEO and his interface with District Board members as well as other governmental officials.
  - 15.7.2 Ensure all NPPD information provided to state and federal organizations and media sources is current and correct.
  - 15.7.3 Ensure all NPPD information is relayed to the public in a timely manner and without distortion.
  - 15.7.4 Ensure sources of misinformation are located and erroneous information is corrected.

#### 16. DEACTIVATION OF THE JIC

- 16.1 The Facility Manager shall supervise the deactivation of the JIC.
- 16.2 All personnel shall restore their work stations to the pre-emergency configurations.
- 16.3 All personnel shall surrender their logs and other records to the Facility Manager.
- 16.4 The Facility Manager shall forward all logs and other records to the Emergency Preparedness Office at CNS.

ATTACHMENT 1 PAGER CARRIER INSTRUCTIONS

The person carrying the pager is responsible for the following:

1. Keep the pager "ON" at all times when scheduled to carry the pager.
2. Familiarity with the operation of the digital display pager, how it operates, what the codes mean, how to reset the pager, etc. If you have questions about the pager use or need an additional copy of the pager operating instructions, contact the CNS Emergency Preparedness Department.
3. Report to the JIC, as appropriate, when the pager is activated for an emergency as indicated by the display on the pager. The following codes will be displayed on the pager.

<b>PAGER CODES AND INFORMATION/ACTIONS SUMMARY</b>	
<b>CODE</b>	<b>RESPONSE TO CODE</b>
100	NOUE: EP AND PADO RESPONSE ONLY
222	RESPONSE TO CNS IF FIT FOR DUTY
333	RESPOND TO THE ALTERNATE EOF IF FIT FOR DUTY
600	DRILL ERO CALL IN TEST
622	DRILL - RESPOND TO CNS IF FIT FOR DUTY
633	DRILL - RESPOND TO THE ALTERNATE EOF IF FIT FOR DUTY

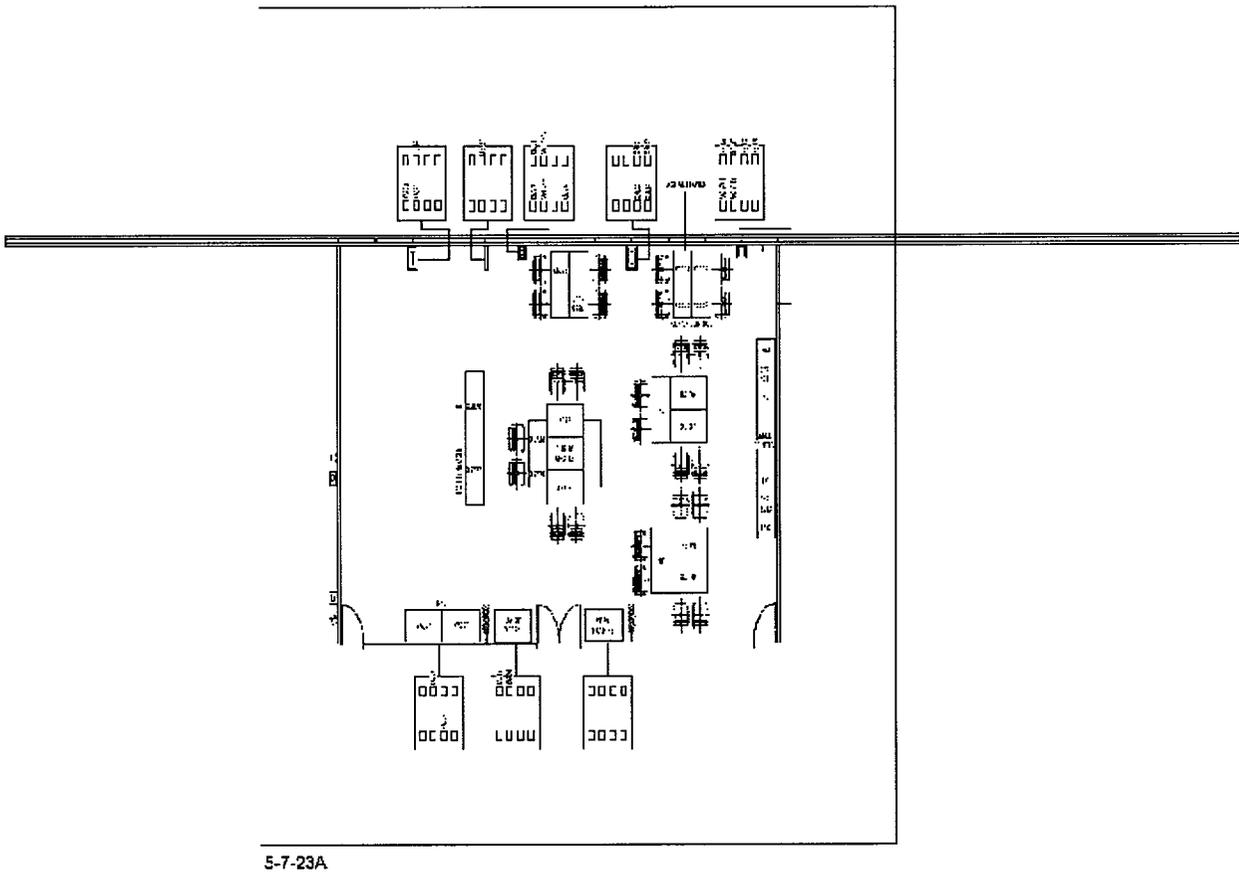


Figure 1

1. DISCUSSION

- 1.1 The CNS Control Room makes the initial notification to General Office Emergency Response personnel upon declaration of an emergency classification. The JIC may be placed on standby during an ALERT and will be manned and activated upon the declaration of a SITE AREA EMERGENCY or GENERAL EMERGENCY.
  
- 1.2 As discussed in the NPPD Emergency Plan for CNS, the JIC is a media briefing area. At this site, NPPD coordinates press briefings with state and federal emergency response personnel. During an emergency response, the major function of the JIC is:
  - 1.2.1 Coordinate the development and dissemination of information to the news media.
  - 1.2.2 Conduct media monitoring.
  - 1.2.3 Maintain rumor control.
  - 1.2.4 Provide NPPD employees with information concerning the emergency.
  
- 1.3 The JIC is located in the third floor Conference Rooms of the Columbus General Office Building. Attachment 2 shows the floor plan of the JIC.
  - 1.3.1 At a minimum during emergency response activities, the JIC should be staffed with following personnel:
    - 1.3.1.1 Public Affairs Director.
    - 1.3.1.2 Technical Briefer.
    - 1.3.1.3 Public Information Officer.
  
- 1.4 POSITION INSTRUCTION MANUALS (PIMs)
  - 1.4.1 Positional Instruction Manuals (PIMs) contain positional checklists for the activation and operation of the JIC and are to be utilized by all JIC positions. PIMs are numbered and controlled by the Emergency Preparedness Department, labeled by ERO position, and are located in JIC Cabinet #1.
    - 1.4.1.1 Public Affairs Director - PIM #1.
    - 1.4.1.2 Public Affairs Director Secretary - PIM #2.

1.4.1.3    Designated Spokesperson - PIM #3.

1.4.1.4    Facility Manager - PIM #4.

1.4.1.5    Technical Briefer - PIM #5.

1.4.1.6    Media Monitor - PIM #6.

1.4.1.7    Public Information Officer - PIM #7.

1.4.1.8    Rumor Control - PIM #8.

1.4.1.9    Employee Information - PIM #9.

## 2.    REFERENCE

2.1    Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.

2.2    Emergency Plan Implementing Procedure 5.7.6, Notification.