



Nebraska Public Power District
Nebraska's Energy Leader

NLS2002118

September 18, 2002

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

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 5.7.2	Revision 18	"Shift Supervisor EPIP"
EPIP 5.7.7	Revision 29	"Activation of TSC"
EPIP 5.7.9	Revision 24	"Activation of EOF"
EPIP 5.7.10	Revision 24	"Personnel Assembly and Accountability"
EPIP 5.7.24	Revision 21	"Medical Emergency"
EPIP 5.7COMMUN	Revision 0	"Communications"

In addition, the following EPIP has been deleted:

EPIP 5.7.22 "Communications Systems"

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)
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A045

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

COMMITMENT	COMMITTED DATE OR OUTAGE
None	

CNS OPERATIONS MANUAL
EPIP PROCEDURE 5.7.2

SHIFT SUPERVISOR EPIP

USE: REFERENCE
EFFECTIVE: 8/27/02
APPROVAL: SORC
OWNER: R. J. FISCHER
DEPARTMENT: EP



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1. PURPOSE

This procedure provides a series of actions to be taken by Shift Supervisor upon declaration of an Emergency Classification.

2. PRECAUTIONS AND LIMITATIONS

- [] 2.1 Shift Supervisor shall initially assume role of Emergency Director and will be Emergency Director until relieved by another qualified Emergency Director.
- [] 2.2 If an Alert, a Site Area Emergency, or General Emergency is reached, do not reclassify to a lower classification or terminate Emergency until Emergency Response Facilities are activated.
- [] 2.3 If the emergency is security-related, armed Security personnel may not be available to perform functions described in this procedure. Other personnel should be assigned to perform these functions.©

3. REQUIREMENTS

- [] 3.1 An Emergency has been declared per Procedure 5.7.1.
- [] 3.2 Procedure steps in Section 4 and Attachments 1, 2, 3, and 4 may be performed out of listed order, if needed to more efficiently deal with emergency situation.

4. INITIAL ACTIONS

- ☐ 4.1 Shift Supervisor, immediately following classification of an emergency, should announce following to Control Room Staff:
 - ☐ 4.1.1 Time of classification. Time: _____
 - ☐ 4.1.2 Level of emergency classification. Class: _____
 - ☐ 4.1.3 EAL on which classification is based. EAL #: _____
 - ☐ 4.1.4 Description of condition causing classification.
- ☐ 4.2 Ensure Shift Communicator has been called to Control Room.
- ☐ 4.3 Enter Attachment for applicable Classification Level.
 - ☐ 4.3.1 Attachment 1, ACTIONS FOR NOTIFICATION OF UNUSUAL EVENT.
 - ☐ 4.3.2 Attachment 2, ACTIONS FOR AN ALERT.
 - ☐ 4.3.3 Attachment 3, ACTIONS FOR SITE AREA EMERGENCY.
 - ☐ 4.3.4 Attachment 4, ACTIONS FOR GENERAL EMERGENCY.

5. RECORDS

- ☐ 5.1 Completed portions and Attachments are sent to the EP Manager for CNS Records (quality records upon completion).

1. ACTIONS FOR NOTIFICATION OF UNUSUAL EVENT

- [] 1.1 Inform ERO personnel of Notification of Unusual Event via CNS Automated Notification System (ANS).
 - [] 1.1.1 On telephone with ANS Activation Module, activate ANS by:
 - [] 1.1.1.1 Picking up telephone.
 - [] **NOTE** - Hanging up phone while ANS is activating may cause ANS to lockup.
 - [] 1.1.1.2 When dial tone received, depress ACTIVATE DIALOGICS pushbutton.
 - [] 1.1.1.3 When voice asks for Scenario Password, depress one of following:
 - [] a. "100 SCENARIO" pushbutton for normal NOUE.
 - [] b. "222 SCENARIO" pushbutton to activate on-site ERFs.
 - [] c. "333 SCENARIO" pushbutton to activate AEOF.
 - [] 1.1.1.4 When ANS tells you goodbye, hang up.
 - [] 1.1.2 If ANS or telephone with ANS Activation Module is unavailable, have an individual **concurrently** activate backup notification methods per Attachment 6.
- [] **NOTE 1** - Accountability and personnel assembly is not required at NOUE level; however, it may be performed.
- [] **NOTE 2** - Accountability should not be performed if performing accountability will additionally **THREATEN PERSONNEL SAFETY.©**
- [] 1.2 Determine if personnel assembly and accountability will be performed.
 - [] 1.2.1 If accountability will not be performed, go to Step 1.3.
 - [] 1.2.2 If accountability will be performed, go to Step 1.4.

[] **NOTE** - Personnel assembly and accountability is not required at NOUE level; however, it may be performed.

[] 1.3 If personnel assembly and accountability will not be performed, perform following:

[] 1.3.1 If desired, fill in blanks of Step 1.3.3:

[] 1.3.1.1 In (1), give a brief description of emergency event and if applicable, location.

[] 1.3.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel.
- Any precautions needed for security events/severe weather conditions.

[] 1.3.2 Activate Emergency Alarm for 10 seconds.

[] 1.3.3 Make following announcement over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director declared
[time]
a Notification of Unusual Event.

There is ⁽¹⁾ _____

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

[] **NOTE** - Accountability should not be performed, if performing accountability will additionally **THREATEN PERSONNEL SAFETY.**©

[] 1.4 If assembly and accountability is desired for NOUE, perform following:

[] 1.4.1 If desired, fill in blanks of Step 1.4.3.

[] 1.4.1.1 In (1), give a brief description of emergency event and if applicable, location.

[] 1.4.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel.
- Any precautions needed for security events/severe weather conditions.

[] 1.4.2 Activate Emergency Alarm for 10 seconds.

[] 1.4.3 Make following announcement over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director declared a
[time]
Notification of Unusual Event.

There is ⁽¹⁾ _____

All personnel report to your Designated Assembly Areas for initial accountability.

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

ATTACHMENT 1 ACTIONS FOR NOTIFICATION OF UNUSUAL EVENT

- ☐ 1.5 Record time announcement completed. Time: _____
 - ☐ 1.6 Direct someone to complete CNS Notification form per Procedure 5.7.6.
 - ☐ 1.6.1 For NOUE, recommended PAR is "None".
 - ☐ 1.6.2 Review and sign completed Notification form to authorize transmittal to state and local authorities.
 - ☐ 1.7 Ensure initial notification with PAR, to responsible state and local governmental agencies completed within 15 minutes of declaration.
 - ☐ 1.7.1 Record time state and local authorities contacted. Time: _____
 - ☐ 1.8 During performance of subsequent steps in this Attachment, monitor plant conditions and re-evaluate emergency classification as conditions change per Procedure 5.7.1. Escalate to a higher emergency classification if conditions warrant.
 - ☐ 1.8.1 If reclassification is performed, ensure NRC notification 1 hour time limit is completed and tracked.
 - ☐ 1.8.2 If reclassification is performed, proceed to Step 1.11.
 - ☐ 1.9 Ensure NRC is notified via Emergency Notification System (ENS) immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after time of declaration of Notification of Unusual Event.
 - ☐ 1.9.1 Record time NRC duty officer is contacted. Time: _____
 - ☐ 1.10 If assembly and accountability is being performed for NOUE, perform following:
 - ☐ 1.10.1 Ensure Designated Assembly Area Supervisor for the Control Room is completing initial accountability of Operations personnel per Procedure 5.7.10.
 - ☐ 1.10.2 Ensure initial accountability completed within 30 minutes per Procedure 5.7.10.
 - ☐ 1.10.2.1 Record time initial accountability completed.

- [] 1.11 If escalating to another emergency classification, perform following:
 - [] 1.11.1 Announce following to Control Room Staff:
 - [] 1.11.1.1 Time of classification. Time: _____
 - [] 1.11.1.2 Level of emergency classification. Class: _____
 - [] 1.11.1.3 EAL on which classification is based. EAL #: _____
 - [] 1.11.1.4 Description of condition causing classification.
 - [] 1.11.2 Exit this Attachment and enter Attachment for applicable Classification level.

- [] **NOTE** - Normally Shift Supervisor remains Emergency Director when at a Notification of Unusual Event. However, another qualified Emergency Director may relieve Shift Supervisor as Emergency Director.

- [] 1.12 Turnover Emergency Director duties when relieved by another qualified Emergency Director.
 - [] 1.12.1 Use Attachment 7 to turnover to oncoming Emergency Director.
 - [] 1.12.2 Announce to Control Room who Emergency Director is.
 - [] 1.12.3 Exit this Attachment and enter Attachment 5.

- [] 1.13 Terminate emergency, if appropriate, per Procedure 5.7.6.
 - [] 1.13.1 If emergency is terminated, provide notification of termination to responsible state and local governmental agencies per Procedure 5.7.6.

1. ACTIONS FOR AN ALERT

[] **CAUTION** - Do not re-activate Automated Notification System if Emergency Response Facilities are already being activated.

[] 1.1 If not previously performed, initiate ERO activation by:

[] 1.1.1 Determine if ERO personnel will report to on-site Facilities or to AEOF.

[] 1.1.2 On telephone with ANS Activation Module, activate ANS by:

[] 1.1.2.1 Picking up telephone.

[] **NOTE** - Hanging up phone while ANS is activating may cause ANS to lockup.

[] 1.1.2.2 When dial tone received, depress ACTIVATE DIALOGICS pushbutton.

[] 1.1.2.3 When voice asks for Scenario Password, depress one of following:

[] a. "222 SCENARIO" pushbutton to activate on-site ERFs.

[] b. "333 SCENARIO" pushbutton to activate AEOF.

[] 1.1.2.4 When ANS tells you goodbye, hang up.

[] 1.1.3 If ANS or telephone with ANS Activation Module is unavailable, have an individual **concurrently** activate backup notification methods per Attachment 6.

[] **NOTE** - Accountability will be performed if not previously performed and performing accountability will not additionally **THREATEN PERSONNEL SAFETY.©**

[] 1.2 Determine if personnel assembly and accountability will be performed.

[] 1.2.1 If accountability will be performed, go to Step 1.3.

[] 1.2.2 If accountability will not be performed, go to Step 1.4.

ATTACHMENT 2 ACTIONS FOR AN ALERT

[] 1.3 Notify personnel and initiate personnel assembly and accountability by:

[] 1.3.1 If desired, fill in blanks below for Step 1.3.3.

[] 1.3.1.1 In (1), give a brief description of emergency event and if applicable, location.

[] 1.3.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

[] 1.3.2 Activate Emergency Alarm for 10 seconds.

[] 1.3.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____, Emergency Director
[time]
declared an ALERT.

There is ⁽¹⁾ _____

All personnel report to your Designated Assembly Areas for initial accountability.

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

ATTACHMENT 2 ACTIONS FOR AN ALERT

☐ 1.4 Notify station personnel WITHOUT personnel assembly and accountability by:

☐ 1.4.1 If desired, fill in blanks below for Step 1.4.3.

☐ 1.4.1.1 In (1), give a brief description of emergency event and if applicable, location.

☐ 1.4.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

☐ 1.4.2 Activate Emergency Alarm for 10 seconds.

☐ 1.4.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director
[time]
declared an ALERT.

There is ⁽¹⁾ _____

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

- [] 1.12 Ensure Emergency Response Data Systems (ERDS) is activated using PMIS START/STOP Menu. This shall be done as soon as possible but not later than 1 hour after time of declaration of an ALERT or higher classification.
 - [] 1.12.1 Record time ERDS activated. Time: _____
- [] 1.13 Ensure NRC is notified via Emergency Notification System (ENS) immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after declaration of emergency.
 - [] 1.13.1 Record Time NRC duty officer is contacted. Time: _____
- [] 1.14 Ensure initial accountability of Operations personnel is completed.
- [] 1.15 If any of following conditions exist, **concurrently** enter Procedure 5.7.14 for Stable Iodine Thyroid Blocking:
 - [] 1.15.1 Fuel cladding has been determined to be lost, or
 - [] 1.15.2 Calculated dose of ≥ 25 rem (CDE) to thyroid is likely to be received, or
 - [] 1.15.3 Life saving operation is to be undertaken in areas where high levels of radio-iodine are suspected and no current air analysis is available.
- [] 1.16 Ensure initial accountability completed by:
 - [] 1.16.1 Within 30 minutes, ensure Security Coordinator reports when initial accountability is complete.
 - [] 1.16.2 If accountability was not initiated due to personnel safety concerns, monitor plant/site conditions and when personnel safety concern has passed, initiate personnel assembly and accountability.
 - [] 1.16.3 Record time initial accountability completed. Time: _____
- [] 1.17 Consider dismissal of all non-ERO personnel from station at ALERT classification per Procedure 5.7.11.
- [] 1.18 During an ALERT or higher class emergency, perform follow-up notifications to state and local agencies at least every 60 minutes or sooner if there is a significant change in status of emergency per Procedure 5.7.6.

☐ 1.19 If reclassifying to another emergency classification, perform following:

☐ 1.19.1 Announce following to Control Room Staff.

☐ 1.19.1.1 Time of classification. Time: _____

☐ 1.19.1.2 Level of emergency classification. Class: _____

☐ 1.19.1.3 EAL on which classification is based. EAL: _____

☐ 1.19.1.4 Description of condition causing classification.

☐ 1.19.2 Exit this Attachment and enter Attachment for applicable Classification level.

☐ 1.20 Turnover Emergency Director duties when relieved by another qualified Emergency Director.

☐ 1.20.1 Use Attachment 7 to turnover to oncoming Emergency Director.

☐ 1.20.2 Announce to Control Room Staff who Emergency Director is.

☐ 1.20.3 Exit this Attachment and enter Attachment 5.

1. ACTIONS FOR SITE AREA EMERGENCY

<input type="checkbox"/> CAUTION - Do <u>not</u> re-activate Automated Notification System if Emergency Response Facilities are already being activated.

☐ 1.1 If not previously performed, initiate ERO Activation by:

☐ 1.1.1 Determine if ERO personnel will report to on-site Facilities or to AEOF.

☐ 1.1.2 On telephone with ANS Activation Module, activate ANS by:

☐ 1.1.2.1 Picking up telephone.

☐ **NOTE** - Hanging up phone while ANS is activating may cause ANS to lockup.

☐ 1.1.2.2 When Dial Tone received, depress ACTIVATE DIALOGICS pushbutton.

☐ 1.1.2.3 When voice asks for Scenario Password, depress one of following:

☐ a. "222 SCENARIO" pushbutton to activate on-site ERFs.

☐ b. "333 SCENARIO" pushbutton to activate AEOF.

☐ 1.1.2.4 When ANS tells you goodbye, hang up.

☐ 1.1.3 If ANS or telephone with ANS Activation Module is unavailable, have an individual **concurrently** activate backup notification methods per Attachment 6.

☐ **NOTE** - Accountability will be performed if not previously performed and performing accountability will not additionally **THREATEN PERSONNEL SAFETY**©.

☐ 1.2 Determine if personnel assembly and accountability will be performed.

☐ 1.2.1 If accountability will be performed, go to Step 1.3.

☐ 1.2.2 If accountability will not be performed, go to Step 1.4.

ATTACHMENT 3 ACTIONS FOR SITE AREA EMERGENCY

[] 1.3 Notify personnel and initiate personnel assembly and accountability by:

[] 1.3.1 If desired, fill in blanks below for Step 1.3.3.

[] 1.3.1.1 In (1), give a brief description of emergency event and if applicable, location.

[] 1.3.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

[] 1.3.2 Activating Emergency Alarm for 10 seconds.

[] 1.3.3 Announce following over station Gaitronics:

Attention All Station Personnel, At _____ Emergency Director
[time]
declared a SITE AREA EMERGENCY.

There is ⁽¹⁾ _____

All personnel report to your Designated Assembly Areas for initial accountability.

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

☐ 1.4 Notify station personnel WITHOUT personnel assembly and accountability by:

☐ 1.4.1 If desired, fill in blanks below for Step 1.4.3.

☐ 1.4.1.1 In (1), give a brief description of emergency event and if applicable, location.

☐ 1.4.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

☐ 1.4.2 Activate Emergency Alarm for 10 seconds.

☐ 1.4.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director
[time]
declared a SITE AREA EMERGENCY.

There is ⁽¹⁾ _____

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

☐ 1.5 Record time announcement completed. Time: _____

- [] 1.6 Make a Protective Action Recommendation (PAR) as part of initial notifications to responsible state and local governmental agencies.
 - [] 1.6.1 If no release in progress, PAR is "None".
 - [] 1.6.2 If release in progress, perform following as needed:
 - [] 1.6.2.1 If dose calculation cannot be completed in time to meet 15 minute notification time limits, perform initial notifications with PAR of "None" and update when dose information needed for a PAR is available.
 - [] 1.6.2.2 Have dose calculation performed per Procedure 5.7.17.
 - [] 1.6.2.3 Use projected doses and Procedure 5.7.20 to make PARs.
- [] 1.7 Direct on watch individual to complete CNS Notification form per Procedure 5.7.6.
 - [] 1.7.1 Review and sign completed Notification form to authorize transmittal to state and local authorities.
- [] 1.8 Ensure initial notification to responsible state and local governmental agencies is completed within 15 minutes of each declaration of an emergency class per Procedure 5.7.6.
 - [] 1.8.1 Record time state and local authorities contacted. Time: _____
- [] 1.9 If not previously performed, ensure ERO pager activation has occurred by one of the following methods:
 - [] 1.9.1 Activation of Control Room or Shift Manager's pager, or
 - [] 1.9.2 ANS activation by calling Ext. 5560 and verifying ANS indicates an active scenario.
- [] 1.10 If ANS fails to activate pagers, have an individual **concurrently** activate backup notification methods per Attachment 6.

- [] 1.11 During performance of subsequent steps in this Attachment, monitor plant conditions and re-evaluate emergency classification as conditions change per Procedure 5.7.1. Escalate to higher classification if conditions warrant.
 - [] 1.11.1 If reclassification is performed, ensure NRC and ERDS 1 hour time limits are completed and tracked.
 - [] 1.11.2 If reclassification is performed, proceed to Step 1.21.
- [] 1.12 If not previously performed, ensure Emergency Response Data Systems (ERDS) is activated using PMIS START/STOP Menu. This shall be done as soon as possible but not later than 1 hour after declaration of an ALERT or higher classification.
 - [] 1.12.1 Record time ERDS activated. Time: _____
- [] 1.13 If release in progress or suspected, have additional dose calculations performed per Procedure 5.7.17 to determine projected off-site doses for use in determining classification and PAR.
- [] 1.14 Monitor plant conditions and meteorological conditions for changes in PAR.
 - [] 1.14.1 If a change in PAR occurs, complete notifications to responsible state and local governmental agencies within 15 minutes of declaration of the change per Procedure 5.7.6.
 - [] 1.14.2 If a change in PAR occurs, complete notification to NRC immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after declaration of the change per Procedure 5.7.6.
- [] 1.15 Ensure NRC is notified via Emergency Notification System (ENS) immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after declaration of each emergency classification.
 - [] 1.15.1 Record Time NRC duty officer is contacted. Time: _____
- [] 1.16 If not previously performed, ensure initial accountability of Operations personnel is completed.

- [] 1.17 If any of following conditions exist, **concurrently** enter Procedure 5.7.14 for Stable Iodine Thyroid Blocking:
 - [] 1.17.1 Fuel cladding has been determined to be lost, or
 - [] 1.17.2 A calculated dose of ≥ 25 rem (CDE) to thyroid is likely to be received, or
 - [] 1.17.3 Life saving operation is to be undertaken in areas where high levels of radio-iodine are suspected and no current air analysis is available.

- [] 1.18 If not previously performed, ensure initial accountability completed by:
 - [] 1.18.1 Within 30 minutes, ensure Security Coordinator reports when initial accountability is complete.
 - [] 1.18.2 If accountability was not initiated due to personnel safety concerns, monitor plant/site conditions and when personnel safety concern has passed, initiate personnel assembly and accountability.
 - [] 1.18.3 Record time initial accountability completed. Time: _____

- [] 1.19 Evacuate all non-ERO personnel per Procedure 5.7.11.

- [] 1.20 Perform follow-up notifications to state and local agencies at least every 60 minutes or sooner if there is a significant change in status of emergency per Procedure 5.7.6.

- [] 1.21 If escalating to another emergency classification, perform following:
 - [] 1.21.1 Announce following to Control Room Staff:
 - [] 1.21.1.1 Time of classification. Time: _____
 - [] 1.21.1.2 Level of emergency classification. Class: _____
 - [] 1.21.1.3 EAL on which classification is based. EAL #: _____
 - [] 1.21.1.4 Description of condition causing classification.
 - [] 1.21.2 Exit this Attachment and enter Attachment for applicable Classification level.

[] 1.22 Turnover Emergency Director duties when relieved by another qualified Emergency Director.

[] 1.22.1 Use Attachment 7 to turnover to oncoming Emergency Director.

[] 1.22.2 Announce to Control Room Staff who Emergency Director is.

[] 1.22.3 Exit this Attachment and enter Attachment 5.

1. ACTIONS FOR GENERAL EMERGENCY

[] **CAUTION** - Do not re-activate Automated Notification System if Emergency Response Facilities are already being activated.

[] 1.1 If not previously performed, initiate ERO activation by:

[] 1.1.1 Determine if ERO personnel will report to on-site Facilities or to AEOF.

[] 1.1.2 On telephone with ANS Activation Module, activate ANS by:

[] 1.1.2.1 Picking up telephone.

[] **NOTE** - Hanging up phone while ANS is activating may cause ANS to lockup.

[] 1.1.2.2 When dial tone received, depress ACTIVATE DIALOGICS pushbutton.

[] 1.1.2.3 When voice asks for Scenario Password, depress one of following:

[] a. "222 SCENARIO" pushbutton to activate on-site ERFs.

[] b. "333 SCENARIO" pushbutton to activate AEOF.

[] 1.1.2.4 When ANS tells you goodbye, hang up.

[] 1.1.3 If ANS telephone with ANS Activation Module is unavailable, have an individual **concurrently** activate backup notification methods per Attachment 6.

[] **NOTE** - Accountability will be performed if not previously performed and performing accountability will not additionally **THREATEN PERSONNEL SAFETY.©**

[] 1.2 Determine if personnel assembly and accountability will be performed.

[] 1.2.1 If accountability will be performed, go to Step 1.3.

[] 1.2.2 If accountability will not be performed, go to Step 1.4.

[] 1.3 Notify personnel and initiate personnel assembly and accountability by:

[] 1.3.1 If desired, fill in blanks below for Step 1.3.3.

[] 1.3.1.1 In (1), give a brief description of emergency event and if applicable, location.

[] 1.3.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

[] 1.3.2 Activate Emergency Alarm for 10 seconds.

[] 1.3.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director
[time]
declared a GENERAL EMERGENCY.

There is ⁽¹⁾ _____

All personnel report to your Designated Assembly Areas for initial accountability.

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

ATTACHMENT 4 ACTIONS FOR GENERAL EMERGENCY

- [] 1.4 Notify station personnel WITHOUT personnel assembly and accountability by:

- [] 1.4.1 If desired, fill in blanks below for Step 1.4.3.

- [] 1.4.1.1 In (1), give a brief description of emergency event and if applicable, location.

- [] 1.4.1.2 In (2), provide following as needed:©

- Locations that should be avoided due to emergency conditions.
- Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
- Any precautions needed for security events/severe weather conditions.

- [] 1.4.2 Activate Emergency Alarm for 10 seconds.

- [] 1.4.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director
[time]
declared a GENERAL EMERGENCY.

There is ⁽¹⁾ _____

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

- [] 1.5 Record time announcement completed. Time: _____

- [] 1.6 Make a Protective Action Recommendation (PAR) as part of initial notifications to responsible state and local governmental agencies.
 - [] 1.6.1 If no release in progress, automatic minimum PARs for a GENERAL EMERGENCY are:
 - Evacuation of 2 mile radius,
 - Evacuation of 5 miles downwind of site, and
 - Go indoors and monitor EAS/EBS for remainder of 10 mile Emergency Planning Zone (EPZ).
 - [] 1.6.2 If release in progress, perform following as needed:
 - [] 1.6.2.1 If dose calculation cannot be completed in time to meet 15 minute notification time limits, perform initial notifications with Automatic minimum PARs and update if dose information indicates need to expand PAR.
 - [] 1.6.2.2 Have dose calculation performed per Procedure 5.7.17.
 - [] 1.6.2.3 Use projected doses and Procedure 5.7.20 to make PARs.
 - [] 1.6.2.4 If dose based PAR is greater than current PAR, perform notifications to responsible state and local governmental agencies to update them of expanded PAR.
- [] 1.7 Direct on watch individual to complete CNS Notification form per Procedure 5.7.6.
 - [] 1.7.1 Review and sign completed Notification form to authorize transmittal to state and local authorities.
- [] 1.8 Ensure initial notification to responsible state and local governmental agencies is completed within 15 minutes of each declaration of an emergency class per Procedure 5.7.6.
 - [] 1.8.1 Record time state and local authorities contacted. Time: _____
- [] 1.9 If not previously performed, ensure ERO pager activation has occurred by one of the following methods:
 - [] 1.9.1 Activation of Control Room or Shift Manager's pager, or

- [] 1.9.2 ANS activation by calling Ext. 5560 and verifying ANS indicates an active scenario.
- [] 1.10 If ANS fails to activate pagers, have an individual **concurrently** activate backup notification methods per Attachment 6.
- [] 1.11 If not previously performed, ensure Emergency Response Data Systems (ERDS) is activated using PMIS START/STOP Menu. This shall be done as soon as possible but not later than 1 hour after time of declaration of an ALERT or higher classification.
- [] 1.11.1 Record time ERDS activated.

Time: _____
- [] 1.12 If release in progress, have additional dose calculations performed per Procedure 5.7.17 to determine projected off-site doses for use in determining PAR.
- [] 1.13 Monitor plant conditions and meteorological conditions for changes in PAR.
- [] 1.13.1 If a change in PAR occurs, complete notifications to responsible state and local governmental agencies within 15 minutes of declaration of the change per Procedure 5.7.6.
- [] 1.13.2 If a change in PAR occurs, complete notification to NRC immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after declaration of the change per Procedure 5.7.6.
- [] 1.14 Ensure NRC is notified via Emergency Notification System (ENS) immediately after notification of responsible state and local governmental agencies, and not later than 1 hour after declaration of each emergency classification.
- [] 1.14.1 Record Time NRC duty officer is contacted.

Time: _____
- [] 1.15 If not previously performed, ensure initial accountability of Operations personnel is completed.
- [] 1.16 If any of following conditions exist, **concurrently** enter Procedure 5.7.14 for Stable Iodine Thyroid Blocking:
- [] 1.16.1 Fuel cladding has been determined to be lost, or
- [] 1.16.2 Calculated dose of ≥ 25 rem (CDE) to thyroid is likely to be received, or

- ☐ 1.16.3 Life saving operation is to be undertaken in areas where high levels of radio iodine are suspected and no current air analysis is available.
- ☐ 1.17 If not previously performed, ensure initial accountability completed by:
 - ☐ 1.17.1 Within 30 minutes, ensure Security Coordinator reports when initial accountability is complete.
 - ☐ 1.17.2 If accountability was not initiated due to personnel safety concerns, monitor plant/site conditions and when personnel safety concern has passed, initiate personnel assembly and accountability.
 - ☐ 1.17.3 Record time initial accountability completed. Time: _____
- ☐ 1.18 Ensure evacuation of all non-ERO personnel has been initiated per Procedure 5.7.11.
- ☐ 1.19 Perform follow-up notifications to state and local agencies at least every 60 minutes or sooner if there is a significant change in status of emergency per Procedure 5.7.6.
- ☐ 1.20 Turn-over ED duties when relieved by another qualified Emergency Director.
 - ☐ 1.20.1 Use Attachment 7 to turnover to oncoming Emergency Director.
 - ☐ 1.20.2 Announce to Control Room who Emergency Director is.
 - ☐ 1.20.3 Exit this Attachment and enter Attachment 5.

ATTACHMENT 5 SHIFT SUPERVISOR ACTIONS WHEN ANOTHER INDIVIDUAL IS EMERGENCY DIRECTOR

1. SHIFT SUPERVISOR ACTIONS WHEN ANOTHER INDIVIDUAL IS
EMERGENCY DIRECTOR

[] **NOTE** - Perform following steps **concurrently**, as needed.

[] 1.1 Notify Emergency Director when changes in plant conditions are discovered that warrant reclassifying to a higher classification.

[] 1.2 If requested, have emergency announcements made per Attachment 8 when changes in emergency classifications are made.

[] 1.3 Notify Emergency Director of any significant changes in plant conditions.

[] 1.4 Notify Emergency Director of any emergent equipment repairs needed.

[] 1.5 Notify Emergency Director when changes in plant conditions warrant changes in TSC and OSC priorities.

[] 1.6 Notify Operations Coordinator in TSC of additional support needed from TSC or OSC that is not being obtained through the ED.

[] 1.7 Coordinate dispatch of Station Operators from Control Room with Chem/RP Coordinator.

[] 1.8 If SAMG entry is required, implement Procedure 5.9SAMG.

[] 1.8.1 Record time Decision Making Authority is transferred to Operations Coordinator.

Time: _____

- [] 1.1 If CNS ANS is unavailable, activate backup pagers by performing following:
- [] 1.1.1 If desired, script an addition to voice mail message per Step 1.4.
- [] 1.1.2 On telephone with ANS Activation Module, pick up telephone.
- [] 1.1.3 Press ACTIVATE BACKUP pushbutton.
- [] 1.1.4 When prompted for password, press PASSWORD pushbutton.
- [] 1.1.5 When prompted for scenario and after tone, press "___ SCENARIO" pushbutton.

Scenario Description	Scenario Number
Notification of Unusual Event Declared	100
ERF Activation - Respond to Plant	222
ERF Activation - Respond to AEOF	333

- [] 1.1.6 After hearing message, "Thank you for using ATS", HANG UP.
- [] 1.2 If telephone with ANS Activation Module is not available and CNS ANS is available, perform following:

- [] 1.2.1 Complete CNS ANS code below by performing following:
- [] 1.2.1.1 Obtain Emergency Directors Password and write it in blocks.
- [] 1.2.1.2 Determine and enter appropriate scenario code.

Scenario Description	Scenario Number
Notification of Unusual Event Declared	100
ERF Activation - Respond to Plant	222
ERF Activation - Respond to AEOF	333

- [] **NOTE** - Hanging up phone while ANS is activating may cause ANS to lock up.
- [] 1.2.2 Activate CNS ANS by dialing and providing following information when requested:

Extension 8579

ED PASSWORD _ _ _ #

Scenario Number #

Confirm Event Code 2

If you do not wish to record a "Current Scenario Message", press 3#.

If desired to record a "Current Scenario Message":

When ask about "Current Scenario Message", press 2.

After the tone speak your message.

When finished recording, press #.

Listen to message and follow voice mail instructions to modify or accept as desired.

To activate chosen scenario and message, press 3#.

[] 1.2.3 Record Time of Completion: _____

[] 1.3 If telephone with ANS Activation Module is not available, AND CNS ANS is not available, activate all ERO pagers by:

[] 1.3.1 If desired, script an addition to voice mail message per Step 1.4.

[] 1.3.2 Obtain password from Shift Supervisor cubicle sealed envelope.

[] 1.3.3 Determine and enter appropriate scenario code below:

Scenario Description	Scenario Number
Notification of Unusual Event Declared	100
ERF Activation - Respond to Plant	222
ERF Activation - Respond to AEOF	333

[] 1.3.4 Dial below number and providing following information when requested:

Dial **4 0 2 6 3 3 0 4 6 9** on any telephone.

When prompted, ENTER password .

When prompted, ENTER "numeric message" **8 2 5 5**
5 2 2.

After hearing the message "Thank you for using ATS", HANG UP.

☐ 1.3.5 Record Time of Completion: _____.

☐ **NOTE** - Step 1.4 is not necessary if CNS Automated Notification System is operational.

☐ 1.4 If needed to provide Emergency responders more specific information prior to arrival at CNS, record a voice mail message by:

☐ 1.4.1 Dial 5200 (voice mail).

☐ 1.4.2 Enter mailbox number, 5522, and #.

☐ 1.4.3 Enter password, 5522 and #.

☐ 1.4.4 Enter 8, 2 (mailbox greeting).

☐ 1.4.5 Enter 1 (external greeting).

☐ 1.4.6 Enter 2; wait until end of greeting.

☐ 1.4.7 Enter 5 (record command).

☐ 1.4.8 Provide desired information as an addition to the external greeting.

☐ 1.4.9 Enter # when completed.

☐ 1.4.10 Enter 8, 3 (exits voice mail).

ATTACHMENT 7 EMERGENCY DIRECTOR TURNOVER

[] 1.1 Emergency Classification Status, circle applicable Classification:

Unusual Event Alert Site Area Emergency General Emergency

[] 1.2 EAL Classification is based upon EAL #: _____.

[] 1.3 Initiating Events:

[] 1.4 Previous EAL #s Entered:

[] 1.5 Status of emergency procedure implementation and mitigating actions.

[] 1.5.1 Off-Site Notification Form IS / IS NOT Completed

[] 1.5.2 Off-Site Notifications - Last Notification #: _____

Local & States NOT NOTIFIED IN PROGRESS NOTIFIED

Time Completed: _____

NRC Duty Officer NOT NOTIFIED IN PROGRESS NOTIFIED

Time Completed: _____

[] 1.5.3 Protective Action Recommendations made.

NONE YES (Complete Table Below)

	None	Evacuate Sectors	Go indoors and monitor EAS/EBS in Sectors
0-2 Miles			
2-5 Miles			
5-10 Miles			

- ☐ 1.5.4 Status of Personnel Assembly and Accountability per Procedure 5.7.10.

- ☐ 1.5.5 Status of Stable Iodine Thyroid Blocking per Procedure 5.7.14.

Not Implemented Implemented and Status is: _____

- ☐ 1.5.6 Status of dismissal and or evacuation of non-ERO personnel per Procedure 5.7.11.

Not Started Started and Status is: _____

- ☐ 1.5.7 Radiological conditions release above ODAM limits in progress (circle):

YES NO

- ☐ 1.5.8 Status of Release Rate Determinations per Procedure 5.7.16.

Not Started Started and Status is: _____

[] 1.5.9 Status of Dose Calculations per Procedure 5.7.17.

Not Started Started and Status is: _____

[] 1.6 Reactor Status (circle): OPERATING SHUTDOWN

[] 1.7 Fission Product Barrier and Safety System Status (circle):

Fuel Cladding: Intact Potential Loss Lost

Primary Coolant: Intact Potential Loss Lost

Primary Containment: Intact Potential Loss Lost

Secondary Containment: Intact Potential Loss Lost

[] 1.8 Evolutions in Progress: _____

[] 1.9 Off-Site Assistance Requests: _____

[] 1.10 Site Priorities: _____

- 1.1 Notify station personnel of Emergency Classification changes by:
- [] 1.1.1 If desired, fill in blanks below for Step 1.1.3.
- [] 1.1.1.1 In (1), give a brief description of emergency event and if applicable, location.
- [] 1.1.1.2 In (2), provide following as needed:©
- Locations that should be avoided due to emergency conditions.
 - Include specific evacuation routes to ensure personnel are directed around areas involving significant personnel safety hazards.
 - Any precautions needed for security events/severe weather conditions.
- [] 1.1.2 Activate Emergency Alarm for 10 seconds.
- [] 1.1.3 Announce following over station Gaitronics:

Attention All Station Personnel, at _____ Emergency Director
[time]
declared a (an) _____.
[emergency classification]

There is ⁽¹⁾ _____

All personnel stay clear of ⁽²⁾ _____

Activate Emergency Alarm for 10 seconds and repeat announcement.

1. DISCUSSION

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

- 1.7 Representatives from federal and state agencies may dispatch personnel to the EOF. The decision to make prompt notification of the general public will be made at a SAE or GE by the appropriate governmental agencies.

- 1.8 Assessment of meteorological data, radiological dose projections, and other parameters will be made to determine the type of Protective Action Recommendations (PARs) necessary for the protection of the general public. Off-site authorities will implement appropriate protective actions for affected populations based on those PARs, as well as other data they have assembled. The general public will be kept informed of events by media facilities with periodic releases of updated information.

- 1.9 Contracted service companies, sponsor utilities, and other industry resources may be alerted and requested to render assistance, as appropriate. In addition, federal resources may be called upon for assistance.

- 1.10 The Emergency Director shall escalate, terminate, or reduce the emergency classification as conditions warrant.

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1 NPPD Emergency Plan for CNS.

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

- 2.1.3 NUREG BR-0150, Volume 1, Revision 1.

2.2 PROCEDURES

- 2.2.1 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.

- 2.2.2 Emergency Plan Implementing Procedure 5.7.6, Notification.

- 2.2.3 Emergency Plan Implementing Procedure 5.7.10, Personnel Assembly and Accountability.

- 2.2.4 Emergency Plan Implementing Procedure 5.7.11, Evacuation of Non-Designated Site Personnel.


- 2.2.5 Emergency Plan Implementing Procedure 5.7.14, Stable Iodine Thyroid Blocking (KI).
- 2.2.6 Emergency Plan Implementing Procedure 5.7.16, Release Rate Determination.
- 2.2.7 Emergency Plan Implementing Procedure 5.7.17, Dose Assessment.
- 2.2.8 Emergency Plan Implementing Procedure 5.7.20, Protective Action Recommendations.
- 2.2.9 Severe Accident Procedure 5.9SAMG, Severe Accident Management Guidance.

2.3 MISCELLANEOUS

- 2.3.1 CNS Emergency Telephone Directory.
- 2.3.2 NRC Information Notice 83-28.
- 2.3.3 NRC Inspection Report 94-11.
- 2.3.4 © NRC Inspection Report 98-12. Affects NOTES prior to Steps 1.2 and 1.4 on Attachment 1, Steps 1.3.1.2 and 1.4.1.2 on Attachment 1, NOTE prior to Step 1.2 on Attachment 2, Steps 1.3.1.2, and 1.4.1.2 on Attachment 2, NOTE prior to Step 1.2 on Attachment 3, Steps 1.3.1.2 and 1.4.1.2 on Attachment 3, NOTE prior to Step 1.2 on Attachment 4, Steps 1.3.1.2 and 1.4.1.2 on Attachment 4, and Step 1.1.1.2 on Attachment 8.
- 2.3.5 RCR 2001-0354, Action 13.

2.4 NRC COMMITMENTS

- 2.4.1 © NLS2002030, Response to Order for Interim Safeguards and Security Compensatory Measures. Commitment Number NLS2002030-18. Commitment affects Step 2.3.

<p align="center"><u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.7</p> <p align="center">ACTIVATION OF TSC</p>	<p>USE: REFERENCE </p> <p>EFFECTIVE: 8/27/02</p> <p>APPROVAL: SORC</p> <p>OWNER: R. J. FISCHER</p> <p>DEPARTMENT: EP</p>
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4. EVACUATION OF THE TSC	5
ATTACHMENT 1 INFORMATION SHEET	7

1. PURPOSE

[] 1.1 This procedure describes the activation and subsequent operation of the Technical Support Center in the event of an ALERT or higher classification.

[] 1.2 The topics addressed are:

[] 1.2.1 Functions of the TSC and its interface with other on-site Emergency Response Facilities.

[] 1.2.2 Activation criteria, including a list of positions and their associated responsibilities.

2. PRECAUTIONS AND LIMITATIONS

[] 2.1 If the Area Radiation Monitor and/or the Continuous Air Monitor alarms, an area habitability survey should be conducted.

[] 2.2 If the Chemistry/Radiological Protection Coordinator determines that the TSC is uninhabitable, the TSC functions shall be transferred to the Control Room until personnel relocate to the EOF and reassume them.

[] 2.3 The TSC shall be activated in ~ 1 hour from the time of declaration of an ALERT or higher classification.

[] 2.4 If the emergency is security-related, armed Security personnel may not be available to perform functions described in this procedure. Other personnel should be assigned to perform these functions.©

3. ACTIVATION AND OPERATION OF THE TSC

- ☐ 3.1 Upon declaration of an ALERT or higher classification, TSC personnel shall report to the TSC. ERO positions assigned a Positional Instruction Manual (PIM) as defined below shall obtain their PIM when reporting to the TSC and follow instructions contained within.
 - ☐ 3.1.1 TSC Director is responsible for:
 - ☐ 3.1.1.1 Taking charge of all TSC functions and activities, and coordinating the in-plant emergency response.
 - ☐ 3.1.1.2 Providing technical assistance and recommendations to the Control Room to mitigate emergency conditions.
 - ☐ 3.1.1.3 Ensuring proper priority is established for repair activities.
 - ☐ 3.1.1.4 Directing on-site protective actions for Emergency Response Organization personnel.
 - ☐ 3.1.1.5 Ensuring Emergency Director is kept informed of current plant status and potential changes in emergency classification.
 - ☐ 3.1.2 Operations Coordinator is responsible for:
 - ☐ 3.1.2.1 Providing a liaison between the Control Room and the TSC/OSC Staffs on personnel, technical, and administrative issues related to plant operations.
 - ☐ 3.1.2.2 Keeping the TSC Director and TSC Staff informed of any significant changes in plant conditions.
 - ☐ 3.1.2.3 Informing the Control Room of changing radiological conditions and on-going TSC activities.
 - ☐ 3.1.2.4 Evaluate and provide technical input on repair missions including Control Room clearances.
 - ☐ 3.1.3 Engineering Coordinator is responsible for:
 - ☐ 3.1.3.1 Directing the efforts of the Engineering Group through the Engineering Team Leader.

- ☐ 3.1.3.2 Maintaining liaison with General Electric, Burns & Roe, Inc., Institute of Nuclear Power Operations, and other contract support groups.
- ☐ 3.1.3.3 Developing Special Procedures and modifications which may be needed.
- ☐ 3.1.3.4 Ensuring the TSC Staff is kept informed of Engineering efforts and activities.
- ☐ 3.1.4 Maintenance Coordinator is responsible for:
 - ☐ 3.1.4.1 Analyzing the status of damaged or inoperable plant systems. Provide repair options to TSC Management on restoration of equipment to operational status along with realistic repair times.
 - ☐ 3.1.4.2 Assisting the TSC Director to establish priorities for repair and maintenance activities.
 - ☐ 3.1.4.3 Communicating repair and maintenance priorities to the OSC Supervisor.
 - ☐ 3.1.4.4 Briefing the TSC Director on repair/re-entry team status.
- ☐ 3.1.5 Chemistry/Radiological Protection Coordinator is responsible for:
 - ☐ 3.1.5.1 Assessing radiological doses, recommending radiation protection measures, directing radiological surveys and decontamination actions, and assisting in assessment of off-site consequences.
 - ☐ 3.1.5.2 Providing chemical analyses for the evaluation of station systems and provide data to aid in the determination of reactor core conditions and release potentials.
 - ☐ 3.1.5.3 Providing technical expertise on release rates and dose projections.
 - ☐ 3.1.5.4 Determining the status of TSC/OSC habitability.
 - ☐ 3.1.5.5 Briefing the TSC Director on in-plant radiological concerns.
- ☐ 3.1.6 Operations/EOP Advisor is responsible for:
 - ☐ 3.1.6.1 Providing operational information to the TSC Director.

- [] 3.1.6.2 Monitoring EALs for potential upgrades in emergency classification.
- [] 3.1.6.3 Monitoring EOPs to ensure the TSC Staff is aware of current and future plant activities and needs with respect to potential EOP implementation.
- [] 3.1.6.4 Maintaining an open communication line with the Control Room and the EOF.
- [] 3.1.7 ENS Communicator is responsible for providing continuous communication with the NRC, when requested.
- [] 3.1.8 Security Coordinator is responsible for:
 - [] 3.1.8.1 Maintaining site security per the Site Security Plan.
 - [] 3.1.8.2 Providing specific direction to the Security Shift Supervisor during emergency events.
 - [] 3.1.8.3 Coordinating personnel assembly and accountability, evacuation of personnel from the site, and maintaining site access control during emergency events.
 - [] 3.1.8.4 Providing security for the Emergency Response Facilities.
 - [] 3.1.8.5 Acting as a liaison with State and Local Law Enforcement Agencies arriving at the site.
- [] 3.1.9 Administrative Assistant is responsible for providing support while the TSC is operational.
- [] 3.1.10 TSC Logkeeper is responsible for maintaining a log of all TSC activities.
- [] 3.1.11 Engineering Team Leader is responsible for:
 - [] 3.1.11.1 Ensuring proper Engineering staffing.
 - [] 3.1.11.2 Assigning Engineering Staff tasks based on the priorities set by the Engineering Coordinator.
 - [] 3.1.11.3 Ensuring trending of key plant parameters is being performed.

- [] 3.1.11.4 Communicate Engineering analyses and solutions to the Engineering Coordinator.
- [] 3.1.12 Control Parameter Assessment Engineer is responsible for evaluating the availability of instrumentation used to determine values of the Emergency Operation Procedures/Severe Accident Guideline control parameters.
- [] 3.1.13 Functional Status Assessment Engineer is responsible for evaluating the availability of plant systems which may be used to perform functions specified in the Plant Specific Technical Guidelines/Severe Accident Technical Guidelines.

4. EVACUATION OF THE TSC

- [] **NOTE 1** - If emergency conditions dictate evacuation of the TSC, relocation of the TSC will be to the EOF where the TSC functions will be performed.
- [] **NOTE 2** - TSC personnel should take the necessary materials from the TSC with them when relocating so they can perform their TSC duties in the EOF.
- [] 4.1 The TSC personnel shall be evacuated and TSC functions relocated if any of the following occur:
 - [] 4.1.1 It is determined that habitability in the facility cannot be maintained because of loss of TSC equipment or the safety of TSC personnel is jeopardized because of environmental concerns.
 - [] 4.1.2 The functions of the TSC as listed in Attachment 1 cannot be performed by either the established primary or backup methods.
 - [] 4.1.3 A major loss of equipment occurs and that loss would prevent personnel from performing the intended functions of the TSC.
- [] 4.2 TSC personnel shall relocate to the following areas to perform their duties:
 - [] 4.2.1 The TSC Director, ENS Communicator, Engineering Coordinator, Chem/RP Coordinator, Maintenance Coordinator, and Operations Coordinator shall report to the "NRC Briefing Room".
 - [] 4.2.2 The OPS/EOP Advisor shall co-locate with the EOF OPS/EOP Advisor.
 - [] 4.2.3 The Security Coordinator shall co-locate with the Logistics Coordinator.

- [] 4.2.4 The Engineering staff shall assemble in the Training Building, Classroom J.
- [] 4.2.5 The Administrative Assistant and Log Keeper shall report to the TSC Director and standby in the "Information Authentication Center".
- [] 4.2.6 Reporting agencies may utilize the "State Conference Room".

1. DISCUSSION

1.1 FUNCTIONS OF TSC

1.1.1 TSC provides facilities, communications, and technical data to support the CNS Emergency Response Organization. TSC personnel shall research drawings, specifications, test data, and other Engineering data as required to:

1.1.1.1 Provide Technical Support to Control Room Operations personnel by:

- a. Recommending courses of action which may be taken to mitigate the consequences of the event.
- b. Evaluating the effects of abnormal system configuration on future operational evolutions and to assure such evolutions are properly planned.
- c. Diagnosing station conditions and performing trending of key parameters to ensure technical evaluations are being conducted with the most current information.

1.1.2 TSC also:

1.1.2.1 Directs accident mitigation activities by:

- a. Ensuring proper priority is established for repair activities.
- b. Developing special procedures and system modifications that may be needed.

1.1.2.2 Provides up-to-date information to the NRC via a continuously manned communications link.

1.1.2.3 Provides for the safety of on-site Emergency Response personnel.

1.2 The TSC is located on the 903' level of the Administration Building south of the main RCA entrance.

1.3 STAFFING OF TSC

- 1.3.1 Positional Instruction Manuals (PIMs) contain positional checklists for the activation and operation of the TSC. PIMs are numbered and controlled by the Emergency Preparedness Department, labeled by ERO position, and are located in the TSC.
- 1.3.2 If an ERO position is not filled in a timely fashion, fill the vacancy with personnel that are immediately available. Staff with personnel that have the skill set necessary to perform the functions of the position.

NOTE - If minimum staff positions are vacant and time is approaching 60 minutes from declaration (i.e., later than 55 minutes), then place an individual in the vacant position to prepare for activation of the facility. Interim staffing of the TSC Director position shall be approved by the ED, interim staffing of any other TSC position shall be approved by the TSC Director. Interim staffing choices shall be logged in the approving individuals PIM.

- 1.3.3 TSC Director declares TSC activated when the following minimum staff positions have been filled:

NOTE - Any position filled with an interim individual will be identified to the Security Coordinator who will actively pursue filling the position with a qualified individual.

- 1.3.3.1 *TSC Director - PIM #01.
- 1.3.3.2 *Engineering Coordinator - PIM #02.
- 1.3.3.3 *Maintenance Coordinator - PIM #03.
- 1.3.3.4 *Chemistry/Radiological Protection Coordinator - PIM #04.
- 1.3.3.5 *Operations Coordinator - PIM #12.

*Minimum staff required for activation.

1.3.4 When fully manned, the TSC is staffed with the following personnel:

1.3.4.1 Operations/Emergency Operating Procedure Advisor - PIM #05.

1.3.4.2 ENS Communicator - PIM #07.

1.3.4.3 Security Coordinator - PIM #08.

1.3.4.4 Administrative Assistant - PIM #09.

1.3.4.5 TSC Logkeeper - PIM #10.

1.3.4.6 Engineering Team Leader - PIM #11.

1.3.4.7 Electrical Engineer - PIM #13.

1.3.4.8 Mechanical Engineer - PIM #14.

1.3.4.9 Reactor Engineer - PIM #15.

1.3.4.10 Civil Engineer - PIM #16.

1.3.4.11 Control Status Assessment Engineer - PIM #17.

1.3.4.12 Function Status Assessment Engineer - PIM #18.

2. REFERENCES

2.1 CODES AND STANDARDS

2.1.1 NPPD Emergency Plan for CNS.

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

2.2 PROCEDURES

2.2.1 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.

2.2.2 Emergency Plan Implementing Procedure 5.7.10, Personnel Assembly and Accountability.

2.2.3 Emergency Plan Implementing Procedure 5.7.11, Evacuation of Non-Designated Site Personnel.

2.2.4 Emergency Plan Implementing Procedure 5.7.21, Emergency Equipment Inventory.

2.2.5 Emergency Plan Implementing Procedure 5.7.22, Communications.

2.3 MISCELLANEOUS

2.3.1 QA Audit 86-06.

2.3.2 NRC Inspection Report 91-12, Emergency Preparedness Annual Inspection Report.

2.3.3 NRC Inspection Report 92-14, Accident Management Techniques.

2.3.4 QA Audit 93-05.

2.3.5 NRC Inspection Report 93-24, Emergency Preparedness Exercise Report.

2.3.6 RCR 2002-0126.

2.4 NRC COMMITMENTS

2.4.1 © NLS2002030, Response to Order for Interim Safeguards and Security Compensatory Measures. Commitment Number NLS2002030-18. Commitment affects Step 2.4.

CNS OPERATIONS MANUAL
EPIP PROCEDURE 5.7.9

ACTIVATION OF EOF

USE: REFERENCE
EFFECTIVE: 8/27/02
APPROVAL: SORC
OWNER: J. A. BEDNAR
DEPARTMENT: EP



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1. PURPOSE

- [] 1.1 This procedure describes the sequence of events and requirements for the activation of the Emergency Operations Facility (EOF) in the event of an ALERT or higher classification.
- [] 1.2 The topics addressed are:
 - [] 1.2.1 Functions of the EOF and its interface with both on-site and off-site emergency organizations.
 - [] 1.2.2 Activation criteria, including a roster of personnel and their associated responsibilities.

2. PRECAUTIONS AND LIMITATIONS

- | [] 2.1 Upon activation of the EOF, ensure access is restricted to personnel assigned to this facility.
- [] 2.2 If Area Radiation Monitor or Continuous Air Monitor alarms, an area habitability survey should be conducted.
- [] 2.3 In the event the EOF becomes uninhabitable (radiological, environmental, or other cause) or it cannot be powered from the 12.5 kV or EOFDG (temporary diesel), EOF personnel will be evacuated to and activate the Alternate EOF (AEOF). (Temporary Change)
- | [] 2.4 If the emergency is security-related, armed Security personnel may not be available to perform functions described in this procedure. Other personnel should be assigned to perform these functions.©
- [] 2.5 The EOF shall be activated within ~ 1 hour of declaration of an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY declaration.

3. ACTIVATION AND OPERATION OF THE EOF

- ☐ 3.1 Upon declaration of an ALERT or higher classification, EOF personnel shall report to the EOF. ERO positions assigned a Positional Instruction Manual (PIM), as defined below, shall obtain their PIM when reporting to the EOF and follow instructions contained within. The responsibilities of EOF ERO personnel are as follows:

- ☐ 3.1.1 Emergency Director is responsible for:

- ☐ 3.1.1.1 In all accident classifications, the Emergency Director is in charge of the Emergency Response Organization. He is the individual assigned the authority and responsibility to immediately and unilaterally initiate emergency response actions. The Emergency Director may not delegate the following:

- ☐ a. Event declaration.

- ☐ b. The decision to notify authorities responsible for off-site emergency measures.

- ☐ c. The recommendation of protective actions to authorities responsible for off-site emergency measures.

- ☐ 3.1.1.2 Verifying NPPD on-site and off-site emergency response functions are being performed in a timely manner.

- ☐ 3.1.1.3 Ensuring adequate technical and logistical support is available to the station emergency organization.

- ☐ 3.1.1.4 Ensuring continuity of emergency response resources.

- ☐ 3.1.1.5 Ensuring interface functions between NPPD and governmental organizations are being properly executed per the respective Emergency Plans.

- ☐ 3.1.2 EOF Director is responsible for:

- ☐ 3.1.2.1 Ensuring the EOF provides the necessary off-site support to the CNS response organization.

- ☐ 3.1.2.2 Ensuring contact with federal, state, and local officials is made to inform them of the current situation at CNS.

- ☐ 3.1.2.3 Ensuring communications are established between the EOF, TSC, Control Room, and the Joint Information Center (JIC).
- ☐ 3.1.2.4 Providing guidance to the Radiological Control Technical Information Coordinator and other key members of the EOF Staff and to inform the Emergency Director of significant activities in the EOF.
- ☐ 3.1.3 Radiological Control Manager is responsible for:
 - ☐ 3.1.3.1 Directing the activities of the Radiological Assessment Supervisor, off-site survey teams, and the site boundary survey team (outside the Protected Area).
 - ☐ 3.1.3.2 Ensuring dose assessment is performed.
 - ☐ 3.1.3.3 Providing assistance to the Emergency Director in the formulation of Protective Action Recommendations.
 - ☐ 3.1.3.4 Monitoring radiological conditions and advising the Emergency Director on when to issue Potassium Iodide (KI).
 - ☐ 3.1.3.5 Interfacing with appropriate state and local dose assessment groups.
- ☐ 3.1.4 Operations/EOP Advisor is responsible for:
 - ☐ 3.1.4.1 Providing technical assistance and operational information to the Emergency Director and/or EOF Director.
 - ☐ 3.1.4.2 Monitoring plant conditions in regard to EALs. Recommends changes in emergency classification to Emergency Director if warranted.
 - ☐ 3.1.4.3 Providing assistance to the Emergency Director in the formulation of Protective Action Recommendations.
 - ☐ 3.1.4.4 Monitoring event mitigation activities with respect to EOPs. Provides current and future status of EOP implementation.
 - ☐ 3.1.4.5 Assisting the Technical Information Coordinator by reviewing technical information for transmission to the JIC.

- ☐ 3.1.5 Emergency Preparedness Coordinator is responsible for:
 - ☐ 3.1.5.1 Assisting with activation of the Emergency Response Facilities.
 - ☐ 3.1.5.2 Ensuring ERO personnel are performing their duties as defined by the appropriate EPIPs.
- ☐ 3.1.6 Off-site Communicator is responsible for gathering and disseminating information to appropriate off-site agencies per the EPIPs.
- ☐ 3.1.7 Radiological Assessment Supervisor is responsible for:
 - ☐ 3.1.7.1 Developing Protective Action Recommendations.
 - ☐ 3.1.7.2 Coordinating the activities of the Field Monitoring Teams.
- ☐ 3.1.8 Logistics Coordinator is responsible for:
 - ☐ 3.1.8.1 Assisting in obtaining additional off-site support:
 - ☐ a. Personnel.
 - ☐ b. Equipment.
 - ☐ c. Arrange for specialized contractor assistance as required. Arrange for training of contractor personnel. Use CNS and Corporate resources to carry out these responsibilities (i.e., GE, Burns & Roe, INPO, etc.).
 - ☐ d. Developing a 24 hour schedule for EOF personnel.
 - ☐ e. Ensure financial support is available to the EOF. POs EP1001 through EP1050 are approved for use.
 - ☐ 3.1.8.2 Food/lodging/transportation support.
- ☐ 3.1.9 Dose Assessment Coordinator is responsible for assisting the Radiological Assessment Supervisor by maintaining status boards and coordinating dose projections.
- ☐ 3.1.10 Field Team Coordinator is responsible for movement and sampling activities of the CNS downwind survey field teams as directed by the Radiological Assessment Supervisor.
- ☐ 3.1.11 Technical Information Coordinator is responsible for gathering technical information to be transmitted to the JIC.

- ☐ 3.1.12 Clerical Coordinator is responsible for ensuring sufficient clerical support exists in the EOF to adequately support EOF personnel.
- ☐ 3.1.13 Dose Assessment Clerk is responsible for operating the dose assessment model.
- ☐ 3.1.14 EOF Logkeeper is responsible for maintaining EOF log.
- ☐ 3.1.15 EOF Radiation Protection Pool personnel are responsible for:
 - ☐ 3.1.15.1 Conducting plume-tracking activities.
 - ☐ 3.1.15.2 Performing in-field sampling activities as requested.
 - ☐ 3.1.15.3 Habitability surveys in the EOF as directed by the Radiological Assessment Supervisor.

4. EVACUATION OF EOF

- ☐ **NOTE 1** - In the event the EOF must be evacuated, responsibilities will be formally turned over to the TSC.
- ☐ **NOTE 2** - Evacuation of EOF to AEOF will be conducted using Procedures 5.7.9.1, 5.7.11, and 5.7.13 as guidelines.
- ☐ 4.1 The EOF personnel shall be evacuated and EOF functions relocated if any of the following occur:
 - ☐ 4.1.1 It is determined that habitability in the facility cannot be maintained because of loss of EOF equipment or the safety of EOF personnel is jeopardized because of environmental concerns.
 - ☐ 4.1.2 The functions of the EOF as listed in Attachment 1 cannot be performed by either the established primary or backup methods.
 - ☐ 4.1.3 A major loss of equipment occurs and that loss would prevent personnel from performing the intended functions of the EOF.

1. DISCUSSION

1.1 FUNCTIONS OF EOF

- 1.1.1 Provides overall off-site management of NPPD emergency response and resources.
- 1.1.2 Provides coordination of off-site radiological assessment and recommendations for the protection of the public.
- 1.1.3 Provides coordination of off-site emergency response activities with Local, State, and Federal organizations.
- 1.1.4 Provides guidance and instructions to Off-Site Radiological Emergency Survey Teams.
- 1.1.5 Disseminates emergency status information to the Joint Information Center (JIC).

1.2 The EOF is located adjacent to the Security Building outside the Protected Area.

1.3 If emergency conditions dictate relocation from the EOF, emergency evaluation and coordination activities will be accomplished from the Alternate Emergency Operations Facility (AEOF). The AEOF is located in the town of Auburn, Nebraska, housed in the former Auburn National Guard Armory. Activation of the AEOF shall be accomplished per Procedure 5.7.9.1.

1.4 STAFFING OF EOF

- 1.4.1 Positional Instruction Manuals (PIMs) contain positional checklists for the activation and operation of the EOF. PIMs are numbered and controlled by the Emergency Preparedness Department, labeled by ERO position, and are located in the EOF.
- 1.4.2 If an ERO position is not filled in a timely fashion, fill the vacancy with personnel that are immediately available. Staff with personnel that have the skill set necessary to perform the functions of the position with the exception of the Emergency Director who shall be relieved by another qualified ED.

NOTE - If minimum staff positions are vacant and time is approaching 60 minutes from declaration (i.e., later than 55 minutes), then place an individual in the vacant position to prepare for activation of the facility. Interim staffing of the EOF Director position shall be approved by the ED, interim staffing of any other EOF position shall be approved by the EOF Director. Interim staffing choices shall be logged in the approving individuals PIM.

- 1.4.3 EOF Director declares EOF activated when the following minimum staff positions have been filled:

NOTE - Any position filled with an interim individual will be identified to the Logistics Coordinator who will actively pursue filling the position with a qualified individual.

- 1.4.3.1 *Emergency Director - PIM #01.
- 1.4.3.2 *EOF Director - PIM #02.
- 1.4.3.3 *Radiological Control Manager - PIM #03.
- 1.4.3.4 *Off-Site Communicator - PIM #06.
- 1.4.3.5 *Radiological Assessment Supervisor - PIM #07.

* Minimum staff required for activation.

- 1.4.4 When fully manned, the EOF is staffed with the following personnel:

- 1.4.4.1 Operations/Emergency Operating Procedure Advisor - PIM #04.
- 1.4.4.2 Emergency Preparedness Coordinator (EPC) - PIM #05.
- 1.4.4.3 Logistics Coordinator - PIM #08.
- 1.4.4.4 Dose Assessment Coordinator - PIM #09.
- 1.4.4.5 Technical Information Coordinator (TIC) - PIM #10.
- 1.4.4.6 Clerical Coordinator - PIM #12.
- 1.4.4.7 Dose Assessment Clerk - PIM #13.

- 1.4.4.8 EOF Logkeeper - PIM #14.
- 1.4.4.9 EOF RP Pool - PIM #16.
- 1.4.4.10 Down Wind Driver - PIM #17
- 1.4.4.11 Field Team Coordinator - PIM #18.

2. REFERENCES

2.1 CODES AND STANDARDS

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

2.2 PROCEDURES

- 2.2.1 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.
- 2.2.2 Emergency Plan Implementing Procedure 5.7.9.1, Activation of Alternate EOF.
- 2.2.3 Emergency Plan Implementing Procedure 5.7.11, Evacuation of Non-Essential Site Personnel.
- 2.2.4 Emergency Plan Implementing Procedure 5.7.13, Personnel Monitoring and Decontamination.
- 2.2.5 Emergency Plan Implementing Procedure 5.7.21, Emergency Equipment Inventory.
- 2.2.6 Emergency Plan Implementing Procedure 5.7.22, Communications.

2.3 MISCELLANEOUS

- 2.3.1 QA Audit 86-06.
- 2.3.2 NRC Inspection Report 89-35.
- 2.3.3 NRC Inspection Report 92-14, Accident Management Techniques.

2.3.4 QA Audit 93-05.

2.3.5 RCR 2002-0126.

2.4 NRC COMMITMENTS

2.4.1 © NLS2002030, Response to Order for Interim Safeguards and
Security Compensatory Measures. Commitment number
NLS2002030-18. Commitment affects Step 2.4.

<p style="text-align: center;"><u>CNS OPERATIONS MANUAL</u> EPIP PROCEDURE 5.7.10</p> <p>PERSONNEL ASSEMBLY AND ACCOUNTABILITY</p>	<p>USE: REFERENCE Ⓢ EFFECTIVE: 8/27/02 APPROVAL: SORC OWNER: J. G. KELSAY DEPARTMENT: EP</p>
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1. PURPOSE

- [] 1.1 This procedure describes required actions and provides specific instructions to CNS personnel to implement personnel assembly and accountability.
- [] 1.2 This procedure provides a means to ascertain the names of missing individuals within the Protected Area within 30 minutes of the declaration of an ALERT or higher emergency classification and account for all on-site individuals continuously thereafter.

2. PRECAUTIONS AND LIMITATIONS

- [] 2.1 Specific routes to be traveled or areas to be avoided should be included in the emergency announcement, if appropriate.
- [] 2.2 The names of missing individuals within the Protected Area shall be ascertained within 30 minutes of the declaration of the emergency and accounted for continuously thereafter.
- [] 2.3 If the emergency is security-related, armed Security personnel may not be available to perform functions described in this procedure. Other personnel should be assigned to perform these functions.©

3. REQUIREMENTS

- [] 3.1 The Emergency Director declares an ALERT, or higher classification, as defined in Procedure 5.7.1, or otherwise determines personnel assembly and accountability is required.

4. PERSONNEL ASSEMBLY

- [] 4.1 The Emergency Director ensures the emergency alarm is activated and the appropriate announcement provided. If personnel assembly and accountability is desired at a Notification of Unusual Event, a similar message format with appropriate information will be used.
- [] 4.2 Personnel escorting visitors or tours shall take them immediately to the exit turnstile and direct them to report to Training Building Classrooms "J", "H", or "I" for assembly. Escorts will then report to their own Designated Assembly Area.
- [] **NOTE** - Operations personnel who are in remote areas of the station and are in the immediate process of maintaining or restoring the plant to a safe condition shall not be expected to physically assemble in the Control Room. Operations personnel in these situations shall communicate their status and location to the Control Room. Such personnel shall be defined as "missing" on the initial Security Computer Report and shall be accounted for by the Security Coordinator through communications with the Control Room.
- [] 4.3 ERO personnel upon hearing the emergency alarm and associated announcement shall immediately report to their respective Emergency Response Facilities unless otherwise instructed by the announcement.
 - [] 4.3.1 On-Shift Operations Crew personnel shall report to the Control Room.
 - [] 4.3.2 Operations personnel acting as Relief Crew shall report to the Control Room.
 - [] 4.3.3 Radiological Protection Technicians, Chemistry Technicians, Mechanics, Electricians, and Instrument & Control Technicians shall report to the OSC.
 - [] 4.3.4 Other ERO Team personnel (ERO Teams 1, 2, 3, and 4) shall report to their assigned facility (Control Room, TSC, OSC, or EOF).
 - [] **NOTE** - Disregard the following step if the emergency is security related and reference the Security Plan and Procedures.
 - [] 4.3.5 On-duty Security personnel, except those manning CAS, SAS, ACCESS CONTROL, CONTROL ROOM, and compensatory posts, report to the Security Building Lunch Room behind CAS.

- [] 4.4 Non-ERO personnel outside the Protected Area shall remain at or proceed to an area where they can monitor the station gaitronics system for additional information and/or instructions. A designated assembly area outside the Protected Area is any work area or community area such as a Lunchroom or Conference Room where personnel can monitor the station gaitronics system for additional information and/or instructions.
- [] 4.5 Non-ERO personnel within the Protected Area shall exit the Protected Area and assemble in Classroom "J", "H", or "I" in the Training Building. Monitor the area station gaitronics system for additional information and/or instructions.
- [] 4.6 Other - Personnel may be assigned to other temporary assembly areas within the Protected Area, as construction, maintenance, and refueling outages, etc., dictate.
 - [] 4.6.1 A list of any such temporary assembly areas shall be posted in the TSC at the Security Coordinator's desk.
- [] 4.7 Personnel reporting to a Designated Assembly Area within the Protected Area shall card a security badge reader with their security badge which has been designated for accountability purposes as listed below:
 - [] NOTE - Operations personnel who are located in the Control Room shall not be expected to physically card the Control Room door badge reader. Operations personnel in the Control Room shall be accounted for by the Security Coordinator.
 - [] 4.7.1 Control Room - Control Room door badge reader.
 - [] 4.7.2 TSC/OSC - The badge reader outside the TSC door labeled "TSC/OSC Emergency Accountability Reader".
 - [] 4.7.3 CAS/SAS/Access Control - The CAS, SAS, and Access Control door badge readers.
 - [] 4.7.4 Security Building Lunch Room - The CAS or Access Control door badge reader.
- [] NOTE - In the absence of the Designated Assembly Area Supervisor (DAAS) listed in Section 7, anyone reporting to their Designated Assembly Area may fulfill DAAS duties.
- [] 4.8 The DAAS in the EOF shall obtain copies of the Accountability Sign-In Sheet, Attachment 1, and circulate it for all assembled personnel to sign.

- [] 4.9 All personnel assembling in the EOF shall sign in on Attachment 1, providing their security badge number, name, and time of assembly.

5. INITIAL ACCOUNTABILITY OF PERSONNEL

- [] 5.1 The on-duty Security Shift Supervisor shall ensure Access Control is manned and access to the Protected Area is controlled per Step 5.3.1.
- [] **NOTE** - The on-duty Security Shift Supervisor shall assume the duties of the Security Coordinator during times other than normal working hours until relieved by another qualified Security Coordinator.
- [] 5.2 Upon the activation of the Emergency Alarm and the instructions announced for personnel to perform assembly and accountability, the Security Shift Supervisor shall instruct CAS to immediately initiate an "Accountability" command in the Security Computer System.
- [] 5.3 Access Control personnel shall inform the Security Coordinator when the flow of people through the exit turnstile has stopped. The Security Coordinator in the TSC shall print an Accountability Report to the TSC Security System printer. If the Security System printer in the TSC is inoperable, the report shall be printed in CAS or SAS. The Security Coordinator shall then direct Access Control and the Security Shift Supervisor to secure access to the Protected Area and start the printout.
- [] 5.3.1 Permission to enter shall be obtained from the Security Coordinator. A list of personnel entering or exiting the Protected Area will be kept by Access Control. This list should be maintained on Attachment 1 if available.
- [] 5.3.2 The on-duty Security Shift Supervisor shall direct the CAS/SAS Operator to survey the Owner Controlled Area (OCA) with the closed circuit television camera, for personnel (farmers, boaters, line crews, etc.).
- [] 5.3.2.1 Any activity shall be reported to the Security Coordinator.
- [] 5.3.2.2 Individuals in the OCA or entering the OCA will be requested to depart the area, if conditions dictate.

- [] 5.3.3 Upon its completion, the Security Coordinator shall obtain the Accountability Report from the TSC Security computer system printer.
- [] 5.3.3.1 If the Accountability Report is printed on the SAS or CAS printer, upon its completion, the Security Shift Supervisor shall ensure it is immediately delivered to the Security Coordinator in the TSC.
- [] 5.3.4 Those persons whose names appear on the Accountability Report are missing.
- [] 5.3.5 Initial accountability is complete when the Security Coordinator has the Accountability Report in his possession and is aware of the names on it.
- [] **NOTE** - The on-duty Shift Supervisor (Emergency Director) performs the duties of the TSC Director until the TSC is activated.
- [] 5.3.6 The Security Coordinator shall notify the TSC Director when initial on-site accountability is complete.
- [] 5.3.7 The Security Coordinator shall attempt to locate missing personnel using the security computer system and any other available means including paging them over the Gaitronics System, calling other Designated Assembly Areas, or calling their normal work location. If these individuals are not located, the Security Coordinator shall report the names of these individuals to the TSC Director as unaccounted-for.
- [] 5.3.8 The TSC Director shall report the results of personnel accountability to the Emergency Director.
- [] 5.3.9 The TSC Director shall initiate a rescue and re-entry operation per Procedure 5.7.15 to locate and/or assist unaccounted-for personnel.
- [] 5.3.10 If ERO Management determines that additional or specific ERO personnel are needed to mitigate the event, the Security Coordinator or Logistics Coordinator shall contact the individuals directly at their normal work location or their Designated Assembly Area. Chosen individuals shall be instructed to report to a particular Emergency Response Facility and specific instructions shall be provided to the additional responders at the time of contact.

6. CONTINUOUS ACCOUNTABILITY

- [] **CAUTION** - Conditions resulting in declared emergencies may also create high radiation and/or contamination. Personnel safety/risk shall always be weighed against the task to be accomplished.
- [] **NOTE 1** - During the initial accountability phase, movement between facilities and into the plant should be restricted to that required for immediate emergency response.
- [] **NOTE 2** - Continuous accountability will be coordinated by a Security Coordinator after arrival on-site during backshift, weekends, or holidays.
- [] 6.1 Maintain a written record of your movement into and out of Emergency Response Facilities by signing in and out on Attachment 1, Accountability Log.
 - [] 6.1.1 The Control Room, TSC, and EOF will have Security personnel present to perform continuous accountability duties, unless pre-empted by security contingencies.
- [] 6.2 All teams entering the plant shall be tracked in the OSC by the OSC Supervisor.
- [] 6.3 A primary and alternate method of notification/communication with an emergency response facility should be established prior to entry into areas of the plant affected by emergency conditions.
- [] 6.4 Information concerning any unusual or dangerous condition encountered should immediately be relayed to an emergency response facility. High radiation levels and locations should also be relayed.
- [] 6.5 All on-shift Station Operators, Licensed Operators, and Shift Technical Engineers needed for response to plant conditions remain under the control of the Shift Supervisor.
- [] 6.6 Extra Operations personnel not needed in the Control Room for immediate emergency response may be relocated to the OSC after initial accountability for assignment to Repair/Rescue/Monitoring Teams. This decision to relocate Operations personnel is made by the Shift Supervisor and shall be communicated to the Emergency Director, TSC Director, and OSC Supervisor.
- [] 6.7 Personnel shall be granted access to the Protected Area only on the authorization of the Security Coordinator.

7. DESIGNATED ASSEMBLY AREA SUPERVISORS

- ☐ **NOTE** - In the absence of the Designated Assembly Area Supervisors listed below, anyone reporting to their Designated Assembly Area may fulfill DAAS duties.
- ☐ 7.1 The people listed below are assigned as the Designated Assembly Area Supervisor and alternate for each respective assembly area.
- ☐ 7.2 CONTROL ROOM
 - ☐ 7.2.1 Security personnel (the written record of movement required in Step 6.3 shall be performed by Security personnel unless pre-empted by security contingencies).
 - ☐ 7.2.2 Shift Supervisor.
 - ☐ 7.2.3 Station Operator.
- ☐ 7.3 TSC
 - ☐ 7.3.1 Security Coordinator.
 - ☐ 7.3.2 TSC Director.
- ☐ 7.4 OSC
 - ☐ 7.4.1 OSC Supervisor.
 - ☐ 7.4.2 OSC Leads.
- ☐ 7.5 SECURITY BUILDING LUNCH ROOM
 - ☐ 7.5.1 Security Shift Supervisor.
 - ☐ 7.5.2 CAS Specialist.
- ☐ 7.6 EOF
 - ☐ 7.6.1 Logistics Coordinator.
 - ☐ 7.6.2 Security personnel.
 - ☐ 7.6.3 Emergency Preparedness Coordinator.

☐ 7.7 TRAINING CENTER CLASSROOMS H, I, AND J

☐ 7.7.1 Training Department personnel.

☐ 7.8 OTHER

☐ 7.8.1 On-Site Assembly Areas, as needed, because of construction, outage, etc., shall be designated by the Emergency Preparedness Manager.

8. MISCELLANEOUS

☐ 8.1 Personnel who are off-site at the time of the emergency and are notified to report to the site shall report to their normal Designated Assembly Area unless given other specific instructions.

ATTACHMENT 1 CONTINUOUS ACCOUNTABILITY LOG SHEET

DESIGNATED ASSEMBLY AREA: _____ SUPERVISOR: _____ DATE: _____

NOTE 1 - Sign in or out EVERY TIME you enter or leave an Emergency Response Facility.

NOTE 2 - Notify Designated Assembly Area Supervisor every time you enter or leave an Emergency Response Facility.

Initial Accountability Complete: _____ (Time)

BADGE NUMBER	NAME (PRINT)	TIME IN FACILITY	TIME OUT FACILITY	TIME IN FACILITY	TIME OUT FACILITY	DESTINATION

1. DISCUSSION

- 1.1 In the event of an emergency at CNS, it is necessary that all personnel are notified of the situation, their whereabouts identified for safety and security purposes if within the Protected Area, and they respond in a coordinated effort to the emergency.
- 1.2 CNS visitors shall receive instructions from their escort explaining what they are to do and where they are to go in the event of the sounding of the Emergency Alarm. It is the responsibility of each Supervisor to know the general location of his subordinates at any time.
- 1.3 An emergency signal, activated manually from the Control Room, is provided to alert all personnel in the vicinity of the plant an emergency exists. The emergency alarm consists of a distinct steady-tone sounded through the station intercom system. The alarm shall be sounded and appropriate announcements made to station personnel per Procedure 5.7.2.
- 1.4 All ERO personnel reporting to a Designated Assembly Area within the Protected Area (PA), with the exception of Operations personnel in the immediate process of maintaining or restoring the plant to a safe condition, shall use their security badge to card a Security System badge reader for accountability purposes at that area. A report generated by the Security Computer shall identify all personnel who are missing.

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1 NPPD Emergency Plan for CNS.
- 2.1.2 NUREG 0654/FEMA-REP-1, 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 Emergency Plan Implementing Procedure 5.7.1, Emergency Classification.
- 2.2.2 Emergency Plan Implementing Procedure 5.7.2, Shift Supervisor EPIP.

2.2.3 Emergency Plan Implementing Procedure 5.7.15, OSC Team
Dispatch.

| 2.3 NRC COMMITMENTS

| 2.3.1 © NLS2002030, Response to Order for Interim Safeguards and
| Security Compensatory Measures. Commitment number
| NLS2002030-18. Commitment affects Step 2.3.

<p align="center"><u>CNS OPERATIONS MANUAL</u> EPIP 5.7.24</p> <p align="center">MEDICAL EMERGENCY</p>	<p>USE: REFERENCE Ⓢ EFFECTIVE: 8/27/02 APPROVAL: SORC OWNER: J. A. BEDNAR DEPARTMENT: EP</p>
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1. PURPOSE

This procedure is to be used if the Control Room is notified of an injury or illness that constitutes a medical emergency on District property at Cooper Nuclear Station (CNS). Steps related to contamination control shall be omitted if it is determined that the patient is not contaminated.

2. PRECAUTIONS AND LIMITATIONS

- [] 2.1 A medical emergency should be declared when a individual has requested emergency medical assistance from the Control Room for any of, but not limited to, the following symptoms:

- [] 2.1.1 Is or becomes unconscious.
- [] 2.1.2 Has trouble breathing or breathing in an abnormal pattern.
- [] 2.1.3 Has chest pain or chest pressure.
- [] 2.1.4 Is bleeding severely.
- [] 2.1.5 Has pressure or pain in abdomen.
- [] 2.1.6 Severe vomiting or passing blood.

- ☐ 2.1.7 Has seizures, severe headaches, or slurred speech.
- ☐ 2.1.8 Appears to have been poisoned.
- ☐ 2.1.9 Has injuries to the head, neck, or back.
- ☐ 2.1.10 Has possible fractures or broken bones.
- ☐ 2.1.11 Appears dizzy, disoriented, or confused.
- ☐ 2.1.12 Will be transported to an off-site medical facility by station ambulance.

☐ 2.2 This procedure is intended to be initiated by the Operations and Radiation Protection personnel on-shift. The Fire Brigade Leader (FBL) is typically designated the Incident Commander and the on-shift Chem/RP Technician initially fulfills the role of RP Technician. The Shift Supervisor maintains the reference copy of this procedure and is responsible for ensuring all actions are taken until control of the incident is transferred to the TSC Director, if applicable. Attachments should be distributed to responding personnel as time and circumstances permit.

☐ 2.3 This procedure intends that the Shift Supervisor maintain control of the medical emergency at all times, irrespective of ERO activation. However, under extenuating circumstances, the Shift Supervisor may formally delegate his responsibilities to the TSC Director after the initial actions have been completed. The TSC Director shall be in possession of the procedure and communication capabilities at the time of such delegation. The turnover of these responsibilities must be absolutely clear and the person delegated must accept ALL the Shift Supervisor's responsibilities as delineated in this procedure.

☐ 2.4 Nemaha County Hospital and the University of Nebraska Medical Center are trained in handling contaminated, injured personnel. Initial transport of contaminated personnel must go to one of these facilities.

☐ 2.5 If the emergency is security-related, armed Security personnel may not be available to perform functions described in this procedure. Other personnel should be assigned to perform these functions.©

3. REQUIREMENTS

☐ 3.1 The NPPD Emergency Plan for CNS does NOT need to be activated to use this procedure.

☐ 3.2 Ensure following equipment and materials are available:

☐ 3.2.1 EMT medical bag and supplies, First-Aid kits.

☐ 3.2.2 Radiological survey instrumentation.

☐ 3.2.3 Site Communication Systems.

4. ALL PERSONNEL (NPPD AND CONTRACTOR EMPLOYEES)

☐ NOTE - When performing this procedure, minimize the spread of contamination if time and circumstances permit.

☐ 4.1 Upon discovering an injured or suddenly ill person, immediately render First-Aid for life threatening emergencies (i.e., stop severe bleeding, restore breathing, or provide CPR) and call for help.

☐ 4.2 Notify the Control Room by either radio, gaitronics, or telephone (extension 911, 5271, or 5253) and provide following information:

☐ 4.2.1 Location of the injured or ill person. Be as specific as possible.

☐ 4.2.2 The number of persons involved and their names, if known.

☐ 4.2.3 A description of the patient's injury or illness and condition (i.e., whether conscious or unconscious).

☐ 4.2.4 Radiological conditions in the area, if known.

☐ 4.2.5 Other emergency conditions present (i.e., fire, explosion, etc.).

☐ 4.3 Remain with the patient until assistance arrives unless hazardous conditions exist.

5. SHIFT SUPERVISOR

- [] **NOTE 1** - The Shift Supervisor must ensure Steps 5.1 through 5.6 or Attachment 3, Steps 1.1 through 1.6, are performed prior to transferring responsibility to another person. Steps may be performed in any logical order at the discretion of the Shift Supervisor.
- [] **NOTE 2** - Additional EMT response information that needs to be communicated after either Step 5.1.1 or 5.1.2 has been completed can be sent via the use of the e-mail system to the CNS EMT pager group address "CNS EMT [Pager]".
- [] 5.1 Alert the EMTs and dispatch them to the location of the medical emergency.
 - [] 5.1.1 By EMT pager group 402-633-0930 (primary means).
 - [] 5.1.2 By gaitronics announcement (alternate means).
- [] 5.2 Inform the EMTs of the emergency location and the number of EMTs, if known, already responding.
- [] 5.3 Designate the third responding EMT or an alternate person if three EMTs do not respond as the ambulance driver. Direct them to obtain keys to the ambulance from Access Control if necessary, start the ambulance, and monitor Frequency 3 for directions.
 - [] 5.3.1 In the absence of EMT qualified personnel, dispatch two First-Aid trained Station Operators to the emergency location to provide First-Aid.
- [] 5.4 If the patient is within a Radiologically Controlled Area or an emergency has been declared, dispatch the on-shift Chem/RP Technician to the scene with instrumentation suitable for frisking.
- [] 5.5 Dispatch the Fire Brigade Leader (or designate and dispatch an Incident Commander) to the scene with a communications device (radio or cellular phone).
- [] 5.6 Consider making a gaitronics announcement (typical example below):
"ATTENTION ALL STATION PERSONNEL, MEDICAL EMERGENCY, MEDICAL EMERGENCY, ALL PERSONNEL STAY OFF GAITRONICS UNLESS EMERGENCY RELATED". Repeat. This consideration should be based on the reported severity of the illness or injury, the number of patients involved, the need to transport, and the need to heighten the awareness of the medical emergency for general plant personnel.

- ☐ 5.7 Notify the Plant or Operations Manager of the situation. Their responsibility is to consider notifying the patient's family. This consideration should be based on the severity of the illness or injury, if patient is being transported, etc.
- ☐ 5.8 Establish communications with the Incident Commander. If radio communications are used, ensure Frequency 3 on portable radios (F2 on Consoles) are used, if possible.
- ☐ 5.9 Determine from the Incident Commander (FBL) if the patient will be transported and whether patient will be "non-contaminated" or "contaminated".
- ☐ 5.10 If patient will be transported, coordinate obtaining the appropriate ambulance to transport the patient to the Nemaha County Hospital.
 - ☐ 5.10.1 Non-contaminated transportation (order of preference, if available):
 - ☐ 5.10.1.1 CNS ambulance (must have EMT and driver available). Designate an ambulance driver if a third EMT is not standing by (EMTs are the preferred drivers).
 - ☐ 5.10.1.2 Off-site ambulance. Contact 911, request an ambulance.
 - ☐ 5.10.2 Contaminated transportation (order of preference, if available):
 - ☐ 5.10.2.1 CNS ambulance (must have EMT, Chem/RP, and driver available). Designate an ambulance driver if a third EMT is not standing by. EMTs are the preferred drivers.
 - ☐ 5.10.2.2 Off-site ambulance. Contact 911 and request an ambulance for a contaminated patient.
 - ☐ a. Auburn Rescue Squad.
 - ☐ b. Nemaha County Hospital Ambulance.
 - ☐ 5.10.3 Coordinate ambulance departure/arrival with Station Security.
- ☐ 5.11 If patient will be transported, contact the Nemaha County Hospital. Inform the Emergency Room Supervisor or Floor Supervisor a patient is coming from CNS by calling the dedicated Nurse's station telephone at 274-6123. Ensure they understand the patient's radiological condition (non-contaminated or contaminated) and the estimated time of arrival (ETA).

- [] 5.12 Once the ambulance leaves the site, make a gaitronics announcement similar to the example below if the decision to make a gaitronics announcement was made at the initiation of the event:

"ATTENTION ALL STATION PERSONNEL, THE MEDICAL EMERGENCY IS TERMINATED, RESUME NORMAL OPERATIONS."
Repeat.

- [] 5.13 Verify if contact has been made with the patient's immediate family by the Plant or Operations Manager if the decision to perform notification was made.

6. EMT PERSONNEL (OR FIRST-AID TRAINED STATION OPERATORS ON BACK SHIFT)

- [] **NOTE** - When performing this procedure, minimize the spread of contamination to the extent practical based on the nature of the emergency. Medical treatment takes precedence over radiological controls. Steps may be performed in any logical order at the discretion of the EMT.

- [] 6.1 Upon pager activation or gaitronics page, contact the Control Room.

- [] 6.2 Respond swiftly but safely to the emergency scene with emergency response equipment or ambulance, as directed.

- [] 6.3 Take immediate control of the patient and advise the Incident Commander upon arrival, of the medical needs, and additional actions or equipment required at the scene.

- [] 6.4 Provide care to the patient until the individual is transferred to the hospital, you are relieved by equivalent or more advanced trained medical personnel, or treatment is complete.

- [] 6.5 Coordinate with Radiological Protection personnel. Weigh injuries against decontamination. Tell the RP Technician and Incident Commander whether decontamination will be performed.

- [] 6.6 If transport to the hospital is needed, inform the Incident Commander.

- [] 6.7 If the station ambulance is the method of transport, accompany the patient to the hospital.

- [] 6.8 Turn over care to the hospital or equivalent/more advanced medical personnel.

- [] 6.9 If patient was transported contaminated, ensure you are surveyed by Radiological Protection personnel prior to return to the site unless another emergency dictates immediate EMT/ambulance need.

7. RADIOLOGICAL PROTECTION PERSONNEL

- [] 7.1 Respond swiftly to the scene with an E-140 or equivalent survey instrument and report to the Incident Commander.
- [] **NOTE** - Medical treatment takes precedence over radiological controls; however, minimize the radiological concerns whenever practical at the direction of the EMT or First-Aid provider in charge. Steps may be performed in any logical order at the discretion of the Chem/RP Technician.
- [] 7.2 Follow Radiological Protection practices, as much as possible, to prevent or minimize the spread of contamination.
- [] 7.3 Provide guidance to other team members with respect to Radiological Protection practices. Recommend possible methods of transporting the patient in a non-contaminated condition.
- [] 7.4 Notify the Incident Commander if additional Radiological Protection is required.
- [] 7.5 Coordinate radiological concerns with the Incident Commander (i.e., radiation levels, contamination levels, methods to minimize radiological concerns, etc.).
- [] 7.6 Survey the patient and surrounding area for radiological contamination. Inform the Incident Commander of survey results.
- [] 7.7 Particular attention should be given to the vicinity of the injury. Document the survey results. Attachment 1, or similar form, may be used for this purpose.
- [] 7.8 If the intent is to transport the patient in a non-contaminated state, survey all personnel not exiting through a portal monitor. This includes personnel leaving by ambulance.
- [] 7.9 Accompany any patient transported in a contaminated condition to the hospital.
- [] 7.10 Provide support to ambulance and hospital personnel to maintain control of radiological conditions. Request additional Radiological Protection personnel respond to the hospital with monitoring equipment if needed. Use Radiological Protection procedures to collect any contaminated material. Return all contaminated material to the station.
- [] 7.11 Survey all personnel treating or transporting a contaminated patient (doctors, nurses, EMTs, ambulance drivers, etc.).

8. INCIDENT COMMANDER

- [] **NOTE** - The Incident Commander shall be an individual designated by the Shift Supervisor. Normally, the Fire Brigade Leader will function as the Incident Commander.
- [] 8.1 Obtain a portable radio or cellular phone.
- [] 8.2 Establish and maintain communications with the Control Room. If a radio is used, use F3 for portables or F2 on base units.
- [] 8.3 Proceed to the emergency location. Establish a control point in a safe non-contaminated area; close to the scene.
- [] 8.4 Act as liaison between the EMT, Radiological Protection, and the Control Room. Relay information and requests for additional equipment, supplies, or manpower to the Shift Supervisor or TSC Director.
- [] 8.5 Confer with the EMTs, First-Aid Providers, and Radiological Protection personnel to determine:
 - [] 8.5.1 Nature and extent of the injuries.
 - [] 8.5.2 Patient's name.
 - [] 8.5.3 Radiological concerns.
 - [] 8.5.4 Whether the patient will be transported to the hospital AND whether they will be non-contaminated or contaminated.
 - [] 8.5.4.1 Station ambulance (non-contaminated or contaminated).
 - [] 8.5.4.2 Auburn Rescue Squad or Nemaha County Hospital Ambulance (non-contaminated or contaminated).
 - [] 8.5.4.3 Nemaha, Brownville, or other rescue squad (non-contaminated patients only).
- [] 8.6 Coordinate with the Shift Supervisor the time of departure/arrival and location for the ambulance.
- [] 8.7 Ensure EMTs accompany patient to the hospital if the station ambulance is used.
- [] 8.8 If the patient is contaminated, ensure Radiological Protection personnel accompany the patient to assist in radiological concerns during transport and at the hospital.

- [] 8.9 Inform the Shift Supervisor when the ambulance leaves the site.
- [] 8.10 Request assistance and coordinate returning the accident scene to a normal condition.

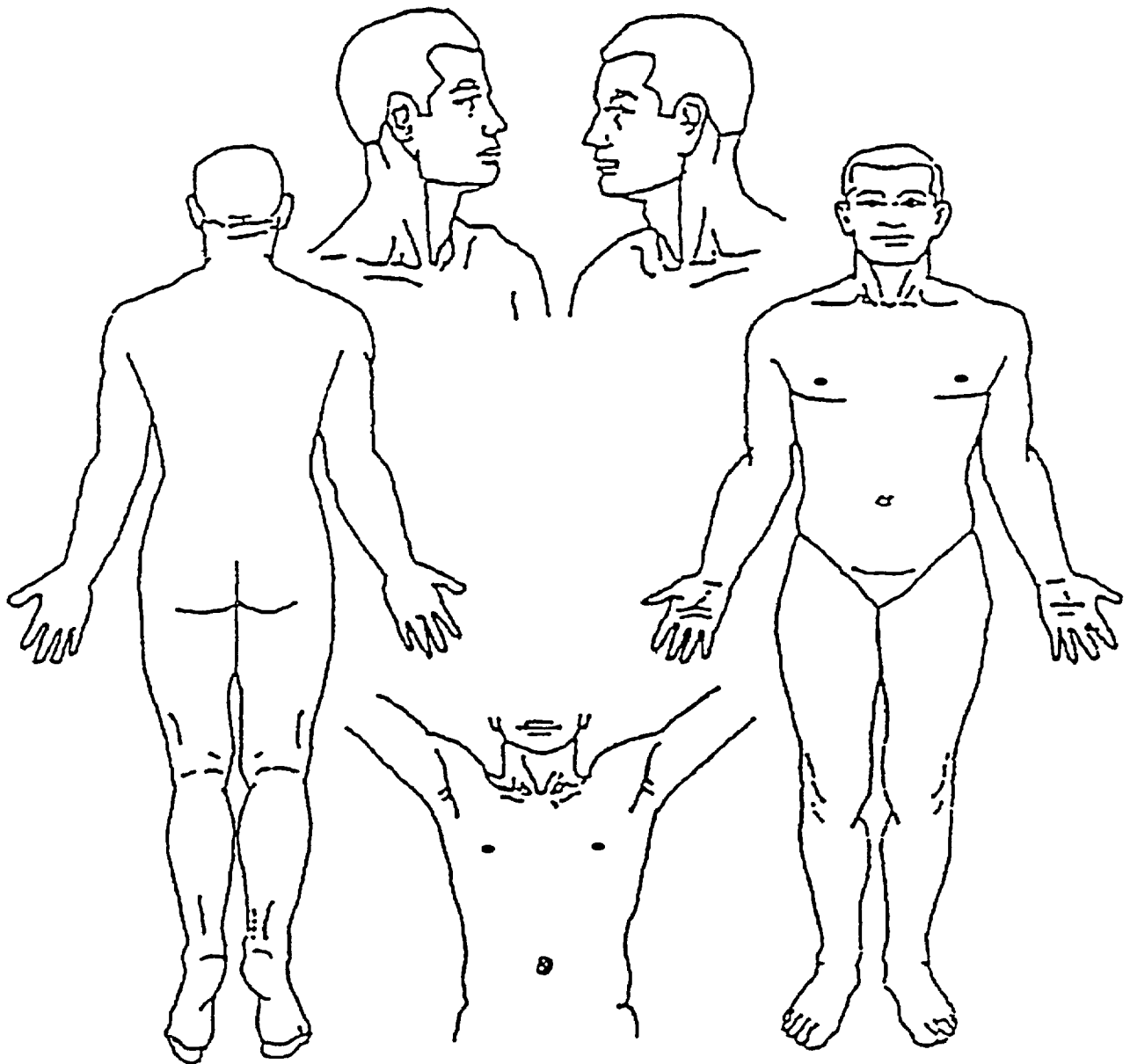
9. CNS AMBULANCE DRIVER

- [] 9.1 Obtain a key to the ambulance from Security Access Control.
- [] 9.2 Drive the ambulance to the plant location as directed by the Control Room or Incident Commander.
- [] 9.3 Be familiar with the route to the hospital per Attachment 2.
- [] 9.4 Drive the ambulance to the designated hospital in a safe manner.
- [] 9.5 Remain with the ambulance at the hospital until released by Radiological Protection personnel.

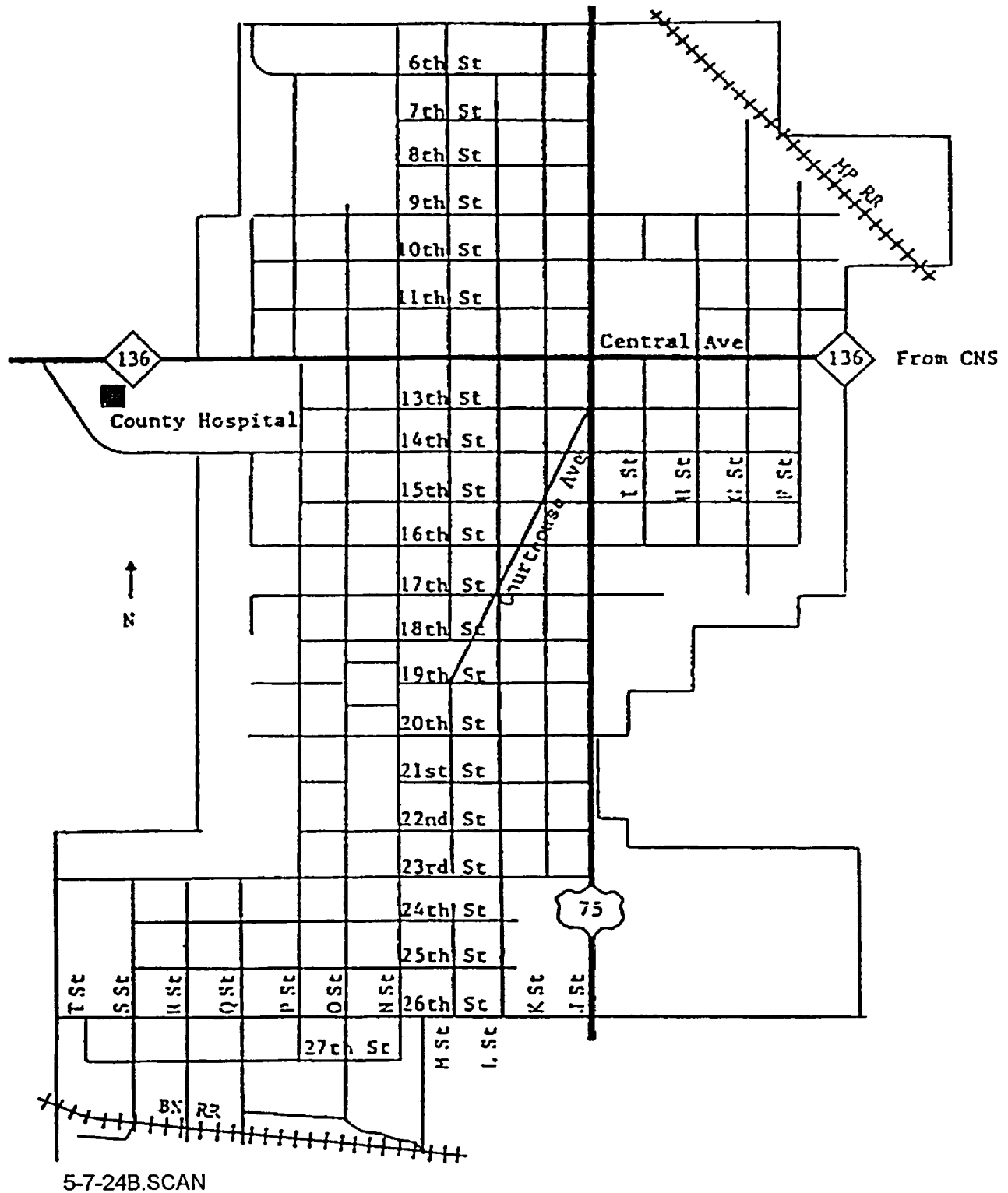
ATTACHMENT 1 BODY MAP

NAME: _____ TIME: _____ DATE: _____

Indicate Wounds and/or Contaminated Areas:



5-7-24A SCAN



ATTACHMENT 3 MEDICAL EMERGENCY CHECKLIST

To be completed by the Shift Supervisor or his designee.

1. MEDICAL EMERGENCY CHECKLIST

- ☐ 1.1 Alert the EMTs. EMT group pager number is (402) 633-0930 or use gaitronics.
- ☐ 1.2 Inform the EMTs of the emergency location and the number of EMTs already responding.
- ☐ 1.3 Instruct the third EMT calling in to obtain the ambulance keys from Security Access Control, report to the ambulance, prepare it for use, and monitor Frequency 3 for further instructions. If a third EMT does not call in, designate an ambulance driver.
- ☐ 1.4 If the patient is within a Radiologically Controlled Area or an emergency has been declared, dispatch the on-shift RP Technician to the scene with instrumentation suitable for frisking.
- ☐ 1.5 Dispatch the Fire Brigade Leader or (a designee and an Incident Commander) to the scene with a communications device (cell phone or portable radio).
- ☐ 1.6 Consider making a gaitronics announcement as follows: "ATTENTION ALL STATION PERSONNEL, MEDICAL EMERGENCY, MEDICAL EMERGENCY, ALL PERSONNEL STAY OFF GAITRONICS UNLESS EMERGENCY RELATED". Repeat. This consideration should be based on the reported severity of the illness or injury, the number of patients involved, the need to transport, and the need to heighten the awareness of the medical emergency for general plant personnel.
- ☐ **NOTE** - If the ERO has been activated, the remaining steps may be transferred to the TSC Director after adequate turnover has occurred.
- ☐ 1.7 Notify the Plant or Operations Manager of the situation.
- ☐ 1.8 Maintain communications with the Incident Commander (F3 on portable radios, F2 on base units).

<input type="checkbox"/> WARNING - If transport could result in personal injury to victim or care providers, do not transport until hazard has passed.

- ☐ 1.9 If the patient is to be transported off-site, coordinate the ambulance location with the Incident Commander and contact Security to coordinate egress from the Protected Area.

ATTACHMENT 3 MEDICAL EMERGENCY CHECKLIST

- ☐ 1.10 If the station ambulance or a driver is unavailable, contact the Auburn Sheriff/Dispatcher by dialing 911 from the Control Room, or 274-3298, 274-3139, or 274-4977. The preferred method of transport for contaminated patients is the Auburn Rescue Squad with the Nemaha County Hospital Rescue Squad as a backup.
- ☐ 1.11 Coordinate the ambulance departure/arrival with Station Security.
- ☐ 1.12 Notify the Nemaha County Hospital of a patient in transit by calling the dedicated Nurse's station telephone at 274-6123. Inform the Emergency Room Supervisor or Floor Supervisor of following:
- ☐ 1.12.1 Caller's name: _____ from Cooper Nuclear Station.
- ☐ 1.12.2 Telephone call-back number. The preferred number is (402) 825-4511 or (402) 825-5601 if control of the incident has been transferred to the TSC Director.
- ☐ 1.12.3 Whether the patient is radiologically contaminated: ☐ YES; ☐ NO
- ☐ 1.12.4 The nature of the injury or illness (if known): _____
- ☐ 1.12.5 Patient's name and age (if known): _____
- ☐ 1.12.6 Estimated time of ambulance arrival at the hospital: _____
- ☐ 1.13 Verify the Plant or Operations Manager made contact with the patient's immediate family if the decision to perform notification was made.
- ☐ 1.14 Make a gaitronics announcement terminating the medical emergency and returning the station to normal operations if the decision to make a gaitronics announcement was made at the initiation of the event.
- ☐ 1.15 An 8 hour report to the NRC is required by 10CFR50.72(b)(3)(xii) if a radioactively contaminated person is transported to an off-site medical facility for treatment.

EVENT NUMBER: _____

Route completed form to the Emergency Preparedness Department.

1. DISCUSSION

- 1.1 This procedure is a Reference Use procedure. The Shift Supervisor or TSC Director, as applicable, shall be responsible for ensuring that all applicable steps are performed. Checklists (attachments) are included to ensure that each activity is addressed. There may be instances where the Emergency Medical Team, using their best judgment, may deviate from the procedure to provide the best possible medical care.
- 1.2 During a medical emergency, the most important consideration is the health of the patient(s). Where practical, efforts to prevent or minimize the spread of contamination shall be practiced.
- 1.3 This procedure assumes that any patient within a Radiologically Controlled Area (RCA) is potentially contaminated. During a plant emergency, areas normally free of contamination, may be contaminated. Decontamination attempts per Procedure 9.RADOP.7 shall be consistent with the severity of the medical concerns and the medical care giver (EMT or First-Aid trained responder) is the final authority on whether decontamination will be attempted.
- 1.4 This procedure is applicable to CNS employees and contractor personnel.
- 1.5 Letters of agreement have been obtained from medical facilities and ambulance services to provide care and treatment to injured CNS personnel, including those who are potentially contaminated. Names and telephone numbers for these facilities can be found in the CNS Emergency Telephone Directory.
- 1.6 This procedure relies on the Incident Command structure. This structure is used by Control Room staff in response to station fires. Personnel other than Operations personnel may also be trained and used as Incident Commanders for medical emergencies.

2. REFERENCES

2.1 CODES AND STANDARDS

- 2.1.1 10CFR50.72(b)(3)(xii).
- 2.1.2 American National Red Cross, Multi-Media Standard First-Aid.
- 2.1.3 NPPD Emergency Plan for CNS.

- 2.1.4 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 Emergency Plan Implementing Procedure 5.7.15, OSC Team Dispatch.

- 2.2.2 Radiological Protection Procedure 9.RADOP.7, Contamination Control.

2.3 MISCELLANEOUS

- 2.3.1 CNS Emergency Telephone Directory.

- 2.3.2 © NLS2002030, Response to Order for Interim Safeguards and Security Compensatory Measures. Commitment Number NLS2002030-18. Affects Step 2.5.

CNS OPERATIONS MANUAL
EPIP PROCEDURE 5.7COMMUN

COMMUNICATIONS

USE: INFORMATION ⓘ
EFFECTIVE: 8/27/02
APPROVAL: SORC
OWNER: J. G. KELSAY
DEPARTMENT: EP

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1. PURPOSE

This procedure provides descriptions of the communications systems installed at CNS and basic instructions for their operation.

2. PRECAUTIONS AND LIMITATIONS

- [] 2.1 Use of cell phones is prohibited within 12" of unprotected sensitive instrumentation. Protection meaning shielded input wiring and/or shielding in the equipment covering.©

3. REQUIREMENTS

- ☐ 3.1 MCC-L is energized.
- ☐ 3.2 Lighting Panel LOPS-B is energized.
- ☐ 3.3 NBPP is energized.
- ☐ 3.4 EOF Panels CEOFA and CEOFB are energized.
- ☐ 3.5 Procedure 2.2.4A, Communications System Component Checklist, complete to support system operation.

4. CNS NORTHERN TELECOM SL1-MS PBX

- ☐ 4.1 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. Telephone numbers used during an emergency are contained in the Emergency Telephone Directory.
- ☐ 4.2 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.
- ☐ 4.3 In the event of a total loss of power to, or major failure of the PBX, the system is designed to connect several hard-wired extensions, designated as bypass telephones, directly to Central Office (C.O.) lines. When bypass telephones are connected to the Central Office, they function as C.O. lines (not like PBX telephones).
 - ☐ 4.3.1 Microwave will not be available.
 - ☐ 4.3.2 4 digit extensions (of the PBX) will not work.
 - ☐ 4.3.3 To make calls to Brownville and the local area (INCLUDING the other bypass telephones), you must dial the 7 digit number.

- [] 4.3.4 To make other (Long Distance) calls, dial 1 + 10 digit number.

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

- [] 4.4 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, NAWAS, or microwave.
- [] 4.5 By dialing the digits 9 + 1 on selected PBX stations (or 1 + 6 and an assigned PIN code on other extensions), the user is connected into the commercial telephone network.
- [] 4.6 The telephone numbers of Emergency Response Facilities and personnel are contained in the Emergency Telephone Directory.

5. MICROWAVE TELEPHONE NETWORK

- [] 5.1 The NPPD Private Switching Network (Microwave) is accessed by dialing the digit 6 on any CNS PBX extension. When the dial tone is heard, the desired telephone number may be dialed.

6. LOCAL TELEPHONES (CENTRAL OFFICE [C.O.] LINES - ALLTEL COMMUNICATIONS)

- [] 6.1 These are telephones connected directly to the ALLTEL Communications Brownville Central Office. These lines do not connect to, or process through, the CNS PBX. C.O. telephones are located in the Control Room, TSC, and EOF. These phones are plainly labeled with an 825 and the 4 digit individual extension number.
- [] 6.2 To make calls to Brownville and the local area, dial the 7 digit number.
- [] 6.3 To make other (Long Distance) calls, dial 1 + 10 digit number.
- [] 6.3.1 One C.O. line is located in the Control Room.

☐ 6.3.2 One C.O. line is located in the TSC.

☐ 6.3.3 Two C.O. lines are located in the EOF Dose Assessment Area.

7. SITE CELL PHONE OPERATION

☐ 7.1 To turn phone ON, press and hold NO/ON/OFF key until phone beeps. Display will change several times and eventually indicate READY. When READY and System Indicator (at lower left portion of this display) are ON, phone is ready to place and receive calls.

☐ 7.2 To place a call:

☐ 7.2.1 Verify phone is ON.

☐ 7.2.2 Verify that System Indicator at bottom left of display is displayed. If no indicator is displayed, cell phone is out of range.

☐ 7.2.3 Enter telephone number. If an incorrect entry is made, press CLR to erase entered number (a single digit will be erased for every time CLR key is pressed).

☐ 7.2.4 Press YES after number on display is correct. The call will be placed and display will change to In Use.

☐ 7.3 To end a call, press NO/ON/OFF key.

☐ 7.4 To answer a call, press YES key.

☐ 7.5 To change speaker volume during a call, press Menu/Down Arrow, press 2 key, then press RCL/Up Arrow or MENU/Down Arrow to adjust volume. Press NO/ON/OFF key twice to return to normal display (if NO/ON/OFF key is not pressed, phone will revert back to original volume and normal display).

☐ 7.6 To redial last number called, press RCL/Up arrow twice. Last number called will be displayed. Press YES to redial displayed number.

8. GAITRONICS INTERCOM SYSTEM

☐ 8.1 The Gaitronics system is a public address (P.A.) or Intercom system, installed in most areas of the plant. Some areas of the plant have five-channel stations and others have only single channel stations. Operation is the same.

☐ 8.2 PAGING and USE

- ☐ 8.2.1 Depress and hold the paging button while making an announcement (Page).
 - ☐ 8.2.1.1 Paging buttons are located on either the wall-mounted station, on the handset, or on the deskset, depending on the style of unit.
 - ☐ 8.2.1.2 When paging a person, it is *recommended* that you page them to LINE 1. This is because not all stations are five channel.
 - ☐ 8.2.1.3 Paging may be done while conversations are in progress without disruption.
- ☐ 8.2.2 Release the paging button to carry on a party line conversation.
- ☐ 8.2.3 Use common courtesy and do not attempt to talk while someone else is talking. If both parties have five channel stations, coordinate use of a free channel.

9. EMERGENCY SIGNALS (Alarms)

- ☐ 9.1 Emergency signals are generated onto the Gaitronics Intercom system only from the Control Room (BOP Operator's desk).
 - ☐ 9.1.1 If the Simulator is cross-tied into the plant Gaitronics system (for a drill), the emergency signals from the Simulator may also be generated onto the system.
 - ☐ 9.1.2 Emergency signals are selected simply by pressing the appropriate button on the tone generator.
 - ☐ 9.1.2.1 Fire alarm (— — — — —) - A distinct pulse tone.
 - ☐ 9.1.2.2 Emergency alarm (———) - A distinct steady tone.
 - ☐ 9.1.2.3 All clear (~~~) - An up and down tone.

10. SOUND POWER SYSTEM

- ☐ 10.1 The Sound-Power system is a communications system which requires no external power. Transmission of audio is performed solely by virtue of both sender and receiver being connected to the same circuit (via installed stations and patch panels) using specialized headset/handset microphone combinations.

- [] 10.2 Patch panels are located in the Main Control Room and in the Radwaste Control Room.
- [] 10.3 Single system (A or B) use:
 - [] 10.3.1 Select the sound power jacks to be used and plug in headsets or handsets.
 - [] 10.3.2 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.
 - [] 10.3.3 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.
- [] 10.4 Interconnecting Systems A and B:
 - [] 10.4.1 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.
 - [] 10.4.2 Repeat the above using the left-hand selector switch. Systems A and B can have two interconnections at one time.
- [] 10.5 Control Room sound power monitor:
 - [] 10.5.1 Select the in-plant sound power to be utilized to Channel 1.
 - [] 10.5.2 With both handsets in their cradles, the monitor will receive all communications from all in-plant sound powers on Channel 1.
 - [] 10.5.3 When either handset is lifted, the speaker is disabled and the handset operates as all other sound power handsets.

11. CNS SITE VHF RADIOS

- [] 11.1 CNS has two VHF repeaters designated Base 1 and Base 2.
 - [] NOTE 1 - Base 1 is the primary frequency used by CNS Security.
 - [] NOTE 2 - Base 2 is the primary frequency used by CNS Fire Brigade.
 - [] 11.1.1 Base 1 is physically located in the ERP shack.
 - [] 11.1.2 Base 2 is physically located in the MET tower shack.

- [] 11.1.3 Each base is equipped with battery backup power.
- [] 11.2 These base stations operate on different frequencies; however, all remote control points, and portable and mobile units are equipped to use either system.
- [] **NOTE** - If one of the base station repeaters should fail, personnel will be instructed to switch to the functional system.
- [] 11.3 Operation from remote control points (consoles):
 - [] 11.3.1 Remote control points (consoles) are located in the Control Room, CAS, SAS, Security, EOF, AEOF, OSC, and TSC.
 - [] 11.3.2 Turn power switch to "ON".
 - [] 11.3.3 Select desired base. F1 for Base 1 or F2 for Base 2.
 - [] 11.3.4 Press the "Transmit" button on the microphone and speak into the microphone. Release to receive.
 - [] 11.3.5 Adjust volume, as required.
- [] 11.4 OPERATION OF PORTABLE AND MOBILE UNITS
 - [] 11.4.1 All portable and mobile units are capable of communication either through the base repeaters or direct.
 - [] 11.4.1.1 Communication through the base repeaters takes advantage of the high output power and antenna height of the base repeaters.
 - [] 11.4.1.2 Communication direct (on the output frequencies of the base repeaters) allows continued, short-range communication, even if the base repeater(s) is (are) lost.
 - [] 11.4.2 Turn the portable or mobile unit "ON".
 - [] 11.4.3 Select the desired mode of communication:
 - [] 11.4.3.1 Channel 1 to transmit through Base 1 repeater.
 - [] 11.4.3.2 Channel 2 to transmit direct (on the output frequency of Base 1). Remote Control Points (Consoles) will NOT receive this transmission.
 - [] 11.4.3.3 Channel 3 to transmit through Base 2 repeater.

- ☐ 11.4.3.4 Channel 4 to transmit direct (on the output frequency of Base 2). Remote Control Points (Consoles) will NOT receive this transmission.
- ☐ 11.4.3.5 Channel 5 is the NPPD State-Wide Hazardous Materials Frequency.
- ☐ 11.4.4 Press the "Transmit" or "Push-To-Talk" (PTT) button on the unit and speak into the microphone. Release to receive.

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

- ☐ 12.1 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 frequencies (Base 1 and Base 2) and CNS has a monitor receiver on the Sheriff's frequency.
- ☐ 12.2 The Nemaha County Sheriff's Office is also 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 below, then request the Sheriff's Office to relay messages between you and the emergency vehicle.
- ☐ 12.3 The monitor speakers at the Nemaha County Sheriff's Office are normally muted until they receive a coded signal from CNS.
- ☐ 12.4 The CNS monitor receiver is normally turned off.
 - ☐ 12.4.1 Turn on the CNS monitor for the Sheriff's frequency and adjust the volume.
 - ☐ 12.4.2 Select which base station you wish to utilize. F1 for Base 1, F2 for Base 2.
 - ☐ 12.4.3 Send the codes to unmute the Sheriff's monitor speakers by:
 - ☐ 12.4.3.1 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.
 - ☐ 12.4.3.2 Depress and release the P button on the encoder. The coded signal will be transmitted.

- [] 12.4.3.3 When the red light on the remote control console goes out, the Sheriff's monitor (on CNS frequency) should be unmuted.
- [] 12.4.4 Call the Nemaha County Dispatcher using normal radio protocol.
- [] 12.4.5 Radio communications between the Nemaha County Sheriff's Office and CNS via cross-band) has been established and will remain available until either party turns off or mutes their monitor.

13. RADIO PAGING SYSTEM OPERATION

- [] **NOTE 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-site or off-site. Any call-back number may be displayed on the pager.
- [] **NOTE 2** - The CNS EP Department issues and maintains the list of pager carriers. Information and detailed instructions for use of pagers is provided to the pager carrier upon issue and copies are available in the EP Office area.
- [] 13.1 Replace the battery in the pager with a "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.
- [] 13.2 To send an individual page:
 - [] 13.2.1 Call the telephone number associated with the individual pager.
 - [] 13.2.1.1 A list of telephone numbers for individual pagers can be found in the TSC or EOF.
 - [] 13.2.2 A computer voice will ask you to enter your numeric message after the tone. If necessary, leave a 3 digit scenario code along with the call-back number.
 - [] 13.2.3 A table of 3 digit event codes can be found in EPIP 5.7.2.
- [] 13.3 To send a group page:
 - [] 13.3.1 An All-Call group page is usually activated by the CNS Automated Notification System (ANS). However, there is a "backup" method which allows the pagers to be activated by any touch-tone telephone. This backup method is password-protected.

- [] 13.3.2 Call the telephone number associated with the specific group of pagers.
- [] 13.3.2.1 A list of telephone numbers for specific groups of pagers can be found in the "Pager" section of the Emergency Telephone Directory.
- [] 13.3.3 A computer voice will ask you to enter your numeric message after the tone. If necessary, leave a 3 digit informational code along with the call-back number (in the place of the area code).
- [] 13.3.3.1 A table of 3 digit scenario (informational) codes can be found in Procedure 5.7.2. Reference also the laminated, wallet sized, Pager Information Card for current informational codes used.
- [] 13.4 Responding to a page:
 - [] 13.4.1 A pager will activate either audibly or by vibration, but only if it's turned on. It will also display the message "1 PAGE".
 - [] 13.4.2 Acknowledge the page and display the information.
 - [] 13.4.2.1 Normally, if an emergency has been declared, the display will be a 3 digit scenario (informational) code followed by a 7 digit telephone number.
 - [] a. Reference the laminated, wallet sized, Pager Information Card for current scenarion (informational) codes used.
 - [] b. FOR EXAMPLE: if 222-825-5560 were displayed, 222 would be the informational code.
 - [] 13.4.2.2 The pager may also display a Group 1, Group 2, Group 3, or Group 4. A group display indicates that the pager has been activated simultaneously with other pagers assigned to that particular group. The group display is informational only and has no bearing on response.
 - [] **NOTE** - All telephone calls to CNS from any telephone exchange other than Brownville will require dialing Area Code: "402"
 - [] 13.4.3 Call 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 Automated Notification System (ANS).

- ☐ 13.4.4 If no telephone number appears, contact the CNS Control Room by dialing (402) 825-5271.

14. DISTRICT STATE-WIDE RADIO SYSTEM

- ☐ 14.1 CNS has a base station which operates on the District's state-wide radio system frequencies, capable of communicating with other base stations, mobiles, or portable units on the state-wide system.
- ☐ 14.2 This station is controlled from remote control consoles located at the EOF, AEOF, OSC, and Control Room.
- ☐ **NOTE** - F2 is primary frequency used in the CNS area.
- ☐ 14.3 Operation is identical to that of the VHF radio consoles.

15. NATIONAL WARNING SYSTEM (NAWAS) OPERATION

- ☐ **NOTE** - Under no circumstances is NAWAS telephone to be turned down below an audible level.
- ☐ 15.1 Refer to NAWAS SOP in yellow binder located near NAWAS telephone in Control Room.

16. FEDERAL TELECOMMUNICATIONS SYSTEM (FTS 2001)

- ☐ 16.1 The FTS 2001 System is a standard commercial telephone service and requires no complicated operating instructions. However, 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 emergencies may exceed local telephone company switching capabilities. Some of the FTS 2001 emergency communications functions are:
 - ☐ 16.1.1 EMERGENCY NOTIFICATION SYSTEM (ENS)
 - ☐ 16.1.1.1 The primary number connects CNS to the NRC Operations Center. Designated numbers are listed on the ENS telephones located in the Control Room, TSC, and EOF.
 - ☐ 16.1.2 HEALTH PHYSICS NETWORK (HPN)
 - ☐ 16.1.2.1 The primary number, connects CNS to the NRC Operations Center. Designated numbers are listed on the HPN telephones located in the TSC and EOF.

☐ 16.1.3 EMERGENCY RESPONSE DATA SYSTEM (ERDS)

☐ 16.1.3.1 This is a designated line and auto-dial modem over which the raw reactor parametric data is transmitted from CNS to the NRC.

☐ 16.1.3.2 ERDS is activated in the Control Room using the PMIS START/STOP Menu.

☐ 16.1.4 Other FTS-2001 circuits which may be established between the NRC Site Team representatives and the NRC Base Team:

☐ 16.1.4.1 Reactor Safety Counterpart Link.

☐ 16.1.4.2 Protective Measures Counterpart Link.

☐ 16.1.4.3 Management Counterpart Link.

☐ 16.1.4.4 NRC Local Area Network Access.

17. CNS STATE NOTIFICATION TELEPHONE

☐ 17.1 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.

☐ 17.2 CNS State Notification Telephones are located in the Control Room, TSC, and EOF.

☐ 17.3 The CNS State Notification Telephones are programmed to provide automatic conference-calling. When the handset to this telephone is picked up and the "Group Call" button is pushed, dedicated telephones will be dialed and 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.

☐ 17.3.1 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.

☐ 17.3.2 Once the EOCs become operational, notifications may be made to the EOCs with concurrence between the respective EOC and law enforcement agency.

18. CNS AUTOMATED NOTIFICATION SYSTEM (CNS ANS)

- [] 18.1 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.
- [] 18.1.1 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 desired. Following declaration of Alert or higher the CNS ANS will activate all ERO pagers issued from CNS.
- [] 18.1.2 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 and ask yes or no questions. For the system to be able to interact with responders, the responder must have a touch-tone telephone. Some telephones are "pulse-tone switchable". They have a pulse/tone switch allowing their operating mode to be selected, depending upon the type of telephone service 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.
- [] 18.1.3 The system has been programmed to prompt the System Operator to record a "Current Scenario Message". A "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 relevant to the emergency. In most cases, it is at the discretion of the Emergency Director to determine if such a message is necessary.
- [] 18.1.4 The system may be programmed to print reports at the Emergency Response Facilities. These reports identify the personnel responding to the plant to fill identified positions, and their approximate times of arrival. These reports will be used by ERO Facility Management to ensure staffing requirements are met.

[] 18.2 Responding to the CNS ANS by telephone:

- [] 18.2.1 When the CNS ANS calls out to 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 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 will hang up and call other personnel.
- [] 18.2.2 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. If you keep getting a busy signal, wait a minute before calling again. For notification to be completely successful, you MUST make contact with the system. You may be placed on HOLD and hear music or speech telling you your call will be answered in the order it was received. Your call will ring through when a line is open.
- [] 18.2.3 Follow the instructions provided by the CNS ANS. The CNS ANS will ask for your 4 digit security badge number. Be sure to include any zeros (i.e., 0008, 0027, 0276, 2080, etc.). After you enter your badge number, press the # key.
- [] 18.2.4 All information requested by the system is verified after entry. This is done by a repeat back of the information and then a request to enter a 9 for YES or 6 for NO as to the correctness of the information.
- [] 18.2.5 Do not hang up until you hear the system say "Thank you, Goodbye". Only then will you know that you have provided all the necessary information.

19. ALTERNATE INTERCOM SYSTEM (Bone Phones)

- [] 19.1 The Alternate Intercom System provides an alternate in-plant communications network utilizing the station's backup tone commander telephone PBX System. This system is located in the ERP shack and has battery backup.
- [] 19.2 Terminal equipment (the phones themselves) are light grey in color.

- [] 19.3 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

20. GOVERNMENT EMERGENCY TELECOMMUNICATIONS SERVICE (GETS)
INSTRUCTIONS

- [] **NOTE** 1- GETS should be used during a National Security or emergency event that causes congestion or blockage of the public switched telephone network.
- [] **NOTE** 2 - The Control Room GETS card is located in the Shift Supervisor's cubicle.
- [] **NOTE** 3 - The EOF GETS card is located in the Emergency Preparedness Coordinator's Position Instruction Manual (PIM) binder.
- [] 20.1 To place a call utilizing GETS:
- [] 20.1.1 Dial 9-1-710-627-4387.
- [] 20.1.2 Alternate number (9-1-888-288-4387).
- [] 20.1.3 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.
- [] 20.1.4 When prompted, dial your destination number (Area Code + Telephone Number).

[] 20.2 GETS Assistance:

- [] 20.2.1 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.

21. TROUBLE REPORTING

- [] 21.1 If ENS telephone is found inoperable, notify Shift Supervisor (SS) immediately and NRC Operations (Main 301-816-5100/Backup 301-951-0550) within 1 hour, and write a Notification
- [] 21.2 If State Notification Telephone is found inoperable, notify SS and write a Notification. SS shall notify on-call Emergency Preparedness Coordinator.
- [] 21.3 If Gaitronics or sound power problems are found, notify SS and write a Notification.
- [] 21.4 If any other plant telephone system, FTS 2001 circuit, microwave, NAWAS, or Alternate Intercom problems, notify SS and write a Notification.
- [] 21.5 If radio system is found inoperable, notify SS and write a Notification.
- [] 21.6 If restoration is critical (in addition to steps above), contact Telecommunications Department directly during working hours. During non-working hours, notify Doniphan Energy Control Center who shall contact on-call Telecommunications Technician.

22. RECORDS

- [] 22.1 No quality records are generated by this procedure.

ATTACHMENT 1	EMERGENCY RESPONSE FACILITY COMMUNICATION EQUIPMENT
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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. Federal Telecommunications Systems (FTS 2001)		X	X	X				Dial telephone number listed on top of telephone
6. Microwave Telephone Network	X	X	X	X	X	X	X	District-wide
7. Local Telephones (C.O. Lines)		X	X	X	X	X		None
8. NAWAS				X				None
9. CNS State Notification Telephones		X	X	X				Hotline to states and counties
10. Site VHF Radio 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 Cell Phone System	X	X	X	X			X	Functional and available at various plant locations
15. CNS Automated Notification System	X	X	X	X	X	X	X	Used for call-in of ERO personnel

1. DISCUSSION

1.1 FUNCTION

- 1.1.1 The Communications System at CNS provides station personnel with redundant, reliable communications capabilities for both on-site and off-site communications.

1.2 OPERATING CHARACTERISTICS

- 1.2.1 The telephone system (PBX) provides voice communication between virtually all buildings, offices, and operation facilities within the station. The telephone system also provides communications between the plant and off-site facilities via the telephone switchboard network. The system allows operating crews to alert plant personnel in emergencies. The telephone company provides the normal and leased line services. NPPD owns all on-site telephone communications (PBX, telephones, bypass telephones, alternate intercom, and cell-phones), with the exception of the FTS 2001 network (7 circuits belonging to NRC), and NAWAS.
- 1.2.2 In the event of a loss of AC power to the telephone system, backup batteries are provided. In accordance with the Emergency Plan for Cooper Nuclear Station, these batteries can sustain continued operation for ~ 6 hours.
- 1.2.3 The gaitronics system permits communication between the different parts of the plant and it also incorporates a public address system for plant wide announcements. The plant system receives normal power from NBPP and alternate power from CPP. A selector switch located near NBPP is used to select normal or alternate power. The Simulator system receives its power from the Power Distribution Center (PDC) located in the Training Center. The plant and Simulator system page and party lines are normally isolated from each other but can be connected during emergency drills, etc. There are two types of gaitronics stations throughout the plant. The first type is a single channel unit. The single channel has a paging channel and a single party line. The second type is a five channel unit. The five channel units have a paging channel and five party lines. Channel 1 and the paging channels are common to both types of units. The emergency signals override other uses of the gaitronics. There are three emergency signals: fire alarm (pulse tone), emergency alarm (steady tone), and an all clear alarm (up and down tone).

- 1.2.4 The sound power system provides for direct, self-powered communication paths between various plant locations for the purpose of facilitating equipment maintenance/operation.
- 1.2.5 The site 450 MHz (VHF) radio system uses two repeaters, Base 1 and Base 2. These repeaters operate on different frequencies. All remote control, portable, and mobile units are capable of selecting either repeater.
 - 1.2.5.1 Security normally uses Base 1 exclusively with Operations monitoring in the Control Room. Fire Brigade normally uses Base 2. When Operations needs to communicate using a repeater system, Base 2 will normally be utilized.
 - 1.2.5.2 Paging service is leased from a service provider. Each pager has an individual activation number, but may also be programmed into 'groups'. An "All-Call" group is normally used when notifying the ERO. Instructions on the various types of pagers are provided to the users upon issue.
 - 1.2.5.3 Cross-band communication with local law enforcement can be accomplished on Base 1 or Base 2 by sending encoder tones. The Nemaha County Sheriff's Department has a monitor receiver for each CNS base. The Control Room and Security have monitor receivers on the Sheriff's radio frequency.
 - 1.2.5.4 The CNS ambulance is equipped with a radio on the state emergency medical frequency, and can communicate directly with the Sheriff's Office and/or hospitals monitoring the state emergency medical frequency. The CNS ambulance can also communicate with the site on the 450 MHz (VHF) radios.
- 1.2.6 The District's state-wide radio system allows for communication with other base stations and mobile or portable units on the state-wide system. This radio is controlled from remote control consoles located at the EOF, AEOF, TSC, Control Room, CNS 345 kV Substation Building, and the York Regional Dispatcher.
- 1.2.7 The NAWAS System provides communication with various state, national, and local early warning systems. Periodic tests are conducted on this system.

- 1.2.8 The Emergency Notification System (ENS) telephone is the primary means for the plant to report emergencies and other significant events to the NRC Headquarters. The Plant Manager, STE, SS, or Shift Communicator will establish this link by dialing the number(s) listed on the telephone. When NRC Operations Center is activated in response to a station emergency, ENS may become a dedicated open line to NRC for transmission of operational data. If an incident has little potential for impacting public health and safety, the NRC Duty Officer will only collect relevant information and then terminate the conversation.
- 1.2.9 CNS is required to assign an individual to maintain continuous communication with the NRC via ENS until the NRC decides that the event has been successfully terminated or additional communication is unnecessary. Each station of the ENS will be tested monthly as a preventive maintenance item.
- 1.2.10 The Health Physics Network (HPN) and Emergency Notification System (ENS) provides communications between NRC and CNS during an emergency. The HPN telephone is for use during plant emergencies and other significant events. The NRC will establish this link if necessary and will direct station personnel when to terminate the link. Each station of the HPN will be tested monthly as a preventive maintenance item.
- 1.2.11 The CNS State Notification Telephone System is the primary means for the plant to make emergency notifications to state and local authorities. This system provides direct communication with the Nebraska State Patrol, the Missouri State Patrol, the Atchison County Sheriff's Department, and the Nemaha County Sheriff's Department. The utilization of law enforcement agencies as an initial point 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 EOC with concurrence between the respective EOC and law enforcement agency.
- 1.2.12 The Alternate Intercom (bonephone) system provides an alternate telephone system for on-site communications utilizing the station tone commander microwave system. This system has a battery backup.

2. REFERENCES

2.1 UPDATED SAFETY ANALYSIS REPORT

2.1.1 Section X-16, Communications Systems.

2.2 DRAWINGS

2.2.1 B&R Drawing 3002, One Line Diagram.

2.2.2 B&R Drawing 3006, One Line Diagram.

2.2.3 B&R Drawing 3007, One Line Diagram.

2.2.4 B&R Drawing 3010, One Line Diagram.

2.2.5 B&R Drawing 3058, DC One Line Diagram.

2.2.6 B&R Drawings 3242 through 3247, Communication Systems Plan.

2.2.7 B&R Drawing 3126, Sheet 2, ERP Tower Power.

2.3 MISCELLANEOUS

2.3.1 © ERFOM 98-009, Cell Phone, EMI/RFI Interface with Sensitive Electronic Equipment. Affects Step 2.1.