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DOCUMENT NO: **OP-1903.062**

TITLE: **COMMUNICATIONS SYSTEM OPERATING PROCEDURE**

CHANGE NO: **018-03-0**

ADDITIONAL INFO:

☒ ← ***If this box is checked, please sign, date, and return within 5 days.***

☐ *ANO-1 Docket 50-313*

☐ *ANO-2 Docket 50-368*

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TITLE: COMMUNICATIONS SYSTEM OPERATING PROCEDURE SET # 103	DOCUMENT NO. 1903.062	CHANGE NO. 018-03-0
	WORK PLAN EXP. DATE N/A	TC EXP. DATE N/A
	SAFETY-RELATED ☒YES ☐NO	IPTE ☐YES ☒NO
	TEMP ALT ☐YES ☒NO	

When you see these ***TRAPS***	Get these ***TOOLS***
Time Pressure	Effective Communication
Distraction/Interruption	Questioning Attitude
Multiple Tasks	Placekeeping
Overconfidence	Self Check
Vague or Interpretive Guidance	Peer Check
First Shift/Last Shift	Knowledge
Peer Pressure	Procedures
Change/Off Normal	Job Briefing
Physical Environment	Coaching
Mental Stress (Home or Work)	Turnover

VERIFIED BY	DATE	TIME

FORM TITLE:	FORM NO.	CHANGE NO.
VERIFICATION COVER SHEET	1000.006A	050-00-0

ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

TITLE: COMMUNICATIONS SYSTEM OPERATING PROCEDURE	DOCUMENT NO. 1903.062	CHANGE NO. 018-03-0

AFFECTED UNIT: ☒ UNIT 1 ☒ UNIT 2

☒ PROCEDURE ☐ ELECTRONIC DOCUMENT
☐ WORK PLAN, EXP. DATE _____

SAFETY-RELATED ☒ YES ☐ NO

TYPE OF CHANGE:
☐ NEW ☒ PC ☐ TC ☐ DELETION
☐ REVISION ☒ EZ EXP. DATE: _____

DOES THIS DOCUMENT:

1. Supersede or replace another procedure? ☐ YES ☒ NO
   (If YES, complete 1000.006B for deleted procedure.) (0CAN058107)
2. Alter or delete an existing regulatory commitment? ☐ YES ☒ NO
   (If YES, coordinate with Licensing before implementing.) (0CNA128509)(0CAN049803)
3. Require a 50.59 review per LI-101? (See also 1000.006, Attachment 15) ☐ YES ☒ NO
   (If 50.59 evaluation, OSRC review required.)
4. Cause the MTCL to be untrue? (See Step 8.5 for details.) ☐ YES ☒ NO
   (If YES, complete 1000.009A) (1CAN108904, 0CAN099001, 0CNA128509, OCAN049803)
5. Create an Intent Change? ☐ YES ☒ NO
   (If YES, Standard Approval Process required.)
6. Implement or change IPTE requirements? ☐ YES ☒ NO
   (If YES, complete 1000.143A. OSRC review required.)
7. Implement or change a Temporary Alteration? ☐ YES ☒ NO
   (If YES, then OSRC review required.)

Was the Master Electronic File used as the source document? ☒ YES ☐ NO

INTERIM APPROVAL PROCESS

ORIGINATOR SIGNATURE: (Includes review of Att. 13) DATE:

Print and Sign name: PHONE #:

SUPERVISOR APPROVAL:* N/A DATE:

SRO UNIT ONE :** N/A DATE:

SRO UNIT TWO:** DATE:

Interim approval allowed for non-intent changes requiring no 50.59 evaluation that are stopping work in progress.

Standard Approval required for intent changes or changes requiring a 50.59 evaluation.

*If change not required to support work in progress, Department Head must sign.

**If both units are affected by change, both SRO signatures are required. (SRO signature required for safety related procedures only.)

OSRC CHAIRMAN/TECHNICAL REVIEWER: (0CNA049312) DATE:
C. Zimmerman 7/1/03

FINAL APPROVAL: Date:
Robert McCaffield for S. Cotton 6/24/03

REQUIRED EFFECTIVE DATE: 7-9-03

STANDARD APPROVAL PROCESS

ORIGINATOR SIGNATURE: (Includes review of Att. 13) DATE: 6-19-03
Roger Freeman

Print and Sign name: Roger Freeman PHONE #: 4994

INDEPENDENT REVIEWER: DATE:
R. R. Taylor 6/23/03

ENGINEERING: N/A DATE:

QUALITY: N/A DATE:

UNIT SURVEILLANCE COORDINATOR (0CNA049803): N/A DATE:

SECTION LEADER: Robert McCaffield DATE: 6/24/03

QUALITY ASSURANCE: N/A DATE:

OTHER SECTION LEADERS: N/A DATE:

OTHER SECTION LEADERS: DATE:

OTHER SECTION LEADERS: DATE:

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FORM TITLE: PROCEDURE/WORK PLAN APPROVAL REQUEST	FORM NO. 1000.006B	CHANGE NO. 051-00-0

ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

TITLE:COMMUNICATIONS SYSTEM OPERATING PROCEDURE	DOCUMENT NO. 1903.062	CHANGE NO. 018-03-0
☒PROCEDURE ☐WORK PLAN, EXP. DATE_____ ☐ ELECTRONIC DOCUMENT		PAGE 1 OF 1

TYPE OF CHANGE:
☐ NEW ☒ PC ☐ TC ☐ DELETION
☐ REVISION ☒ EZ EXP. DATE:_____

AFFECTED SECTION: (Include step # if applicable)	DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.)
Form 1903.062A Page 5 of 6	Changed "Grand Prix" and "ANO Aeostar Van" to "Extended cab truck" and "ANO mail van" to reflect current autos with mobile radios.

FORM TITLE:	FORM NO.	CHANGE NO.
DESCRIPTION OF CHANGE	1000.006C	050-00-0

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1.0 PURPOSE

To provide general information and instruction in the operation of the Arkansas Nuclear One Communication System. This procedure also provides the requirements for testing the emergency communications equipment, verification of the duty roster/call lists and the performance of periodic notification/augmentation drills.

2.0 SCOPE

The ANO Communication System consists of two interconnected telephone systems (the ANO telephone system and the public telephone system). These systems are used during normal day-to-day operations and during emergencies. The Computerized Notification System (CNS) is a separate system used as the primary means to contact the Emergency Response Organization (ERO) during an emergency at ANO. The ANO Communication System has been designed to ensure that the required notifications can be made to offsite authorities responsible for implementing offsite emergency measures and to serve as the backup method to ensure that notifications can be made to members of the ERO in the event that the CNS has failed. This procedure applies to communications systems and roster/call lists that would be used during an emergency situation at ANO. This procedure does not contain monitoring requirements for assessing conformance with limiting conditions for operations of Unit 1 or Unit 2 Technical Specifications.

This procedure does not describe channel selections and features of corporate mobile radios.

3.0 REFERENCES

3.1 REFERENCES USED IN PROCEDURE PREPARATION:

3.1.1 ROLM CBX User's Manual

3.1.2 1903.011, "Emergency Response/Notifications"

3.1.3 IE Information Notice No. 86-97 (0CNA118621)

3.1.4 IE Information Notice No. 89-19 (0CNA028926)

3.1.5 NRC Generic Letter No. 91-14 (0CNA099120)

3.1.6 Test Plan for FTS-2000, Emergency Telecommunications System (ETS) Implementation

3.1.7 NRC Regulatory Issue Summary (RIS) 2000-11, Supplement 1 (0CNA030105)

3.1.8 Dialogic Communications Corporation - Emergency Notification System User's Guide (Version 2.00)

3.1.9 Emergency Plan

3.1.10 10CFR50, Appendix E IV.E.9.d

3.1.11 Memorandum ANO-87-11423, AFR 496

3.2 REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE:

3.2.1 1000.104, "Condition Reporting Operability and Immediate Reportability Determinations"

3.2.2 LI-102, "Corrective Action Process"

3.3 RELATED ANO PROCEDURES:

NONE

3.4 REGULATORY CORRESPONDENCE CONTAINING NRC COMMITMENTS WHICH ARE IMPLEMENTED IN THIS PROCEDURE: [BOLD] DENOTES COMMITMENTS

3.4.1 0CNA099120 (P-2687) - Sections: 8.3, 8.4, 8.5, 8.6, 8.7 and 8.8

3.4.2 0CAN029309 (P-1734) - ERDS Quarterly Testing, step 8.10.3

3.4.3 0CNA099120 (P-2687) - Monthly Communications Testing, step 8.9

4.0 RESPONSIBILITY AND AUTHORITY

4.1 The Manager, Emergency Planning is responsible for reviewing applicable forms completed during communications equipment tests.

4.2 The Emergency Planner(s) is/are responsible for coordinating tests of emergency communications equipment at ANO and the Emergency Operations Facility.

5.0 DEFINITIONS

5.1 CBX (Computerized Branch Exchange) - Automated computerized telephone system utilized by ANO.

5.2 CNS (Computerized Notification System) - Automated computerized call/ message system activated from either Control Room or the TSC. This device is the primary method used to notify the Emergency Response Organization (ERO) of an emergency at ANO.

5.3 Repeater - A device that receives a radio signal and automatically amplifies and retransmits the signal simultaneously.

5.4 Talk-Around - A feature of the radio system which allows for a limited amount of radio-to-radio communication should the repeater fail. Coverage is limited to approximate line of sight since the repeater is not used. The control room cannot be contacted via the talk around channels.

5.5 ETS - (Emergency Telecommunications System) - A multi-link telecommunications system used by the Federal government to combine several distinct branches of voice and data communications through one system under its control.

6.0 LIMITS AND PRECAUTIONS

6.1 Use of portable two-way radios is not permitted in several areas of the plant. Obey posted areas. Some of the posted areas are:

6.1.1 Unit I and Unit II control rooms.

6.1.2 Unit I and Unit II cable spreading rooms.

6.1.3 Unit I and Unit II reactor building electrical penetration rooms.

6.1.4 Unit I and Unit II computer rooms.

6.1.5 Integrated Control System Room (ICS or Relay Room)

6.1.6 Unit II CEDMCS Room.

6.1.7 Unit II Core Protection Calculator room.

6.1.8 CA-2 Hallway

6.1.9 SPDS Room (Turbine Bldg. EL-386')

6.1.10 CA2 (Behind door 282 & 287)

6.1.11 2B63 Room (Behind door 276)

6.1.12 2C140 Area (Hydrogen Seal Oil/Stator Cooling Water Panel)

7.0 TEST EQUIPMENT, SPECIAL TOOLS AND SUPPLIES

7.1 Hand-held radio

7.2 Keys for Emergency vehicles

7.3 Test Fax for DEF/VS

8.0 INSTRUCTIONS

8.1 THE FOLLOWING COMMUNICATIONS EQUIPMENT/SYSTEMS ARE AVAILABLE FOR USE DURING AN EMERGENCY:

8.1.1 Commercial Telephone system

8.1.2 ANO plant phone system

8.1.3 Gaitronics paging system

8.1.4 ANO radio system

8.1.5 ETS (Emergency Telecommunications System)

A. Emergency Notification System (ENS)

B. Health Physics Network (HPN)

C. Reactor Safety Counterpart Link (RSCPL)

D. Protective Measures Counterpart Link (PMCPL)

E. Management Counterpart Link (MCL)

F. Local Area Network (LAN)

8.1.6 Entergy Telephone System

8.1.7 Computerized Notification System

8.2 THE FOLLOWING ROSTER/CALL LISTS ARE MAINTAINED IN EACH CONTROL ROOM FOR USE DURING AN EMERGENCY:

8.2.1 Emergency Response Duty Roster

8.2.2 Plant Pager Assignment List (Emergency Telephone Directory)

8.3 **[ANO Telephone System]**

The ANO CBX system consists of three independent nodes interconnected by fiber optics. Each node is powered by a 48 volt battery bank capable of operating the switch for up to 8 hours. Each battery bank is kept charged by dual parallel battery chargers powered by commercial mains, and is backed up by diesel generators.

The EOF CBX system is powered by a 48 volt battery bank capable of operating the switch for up to 8 hours. The battery bank is kept charged by a battery charger that is powered by commercial mains and is backed by the EOF diesel generator.

8.3.1 Private Calls

The ANO Telephone System is accessed by dialing the four digit extension number of the desired ANO telephone.

8.3.2 Paging

Dial 197 to access the Gai-Tronics paging system in the plant or dial 199 to access the RERTC/EOF paging system, then speak a message.

8.3.3 Conference Line

ROLM CBX Add-On Conference - This feature allows you to add up to eight (in some cases four) parties on one call, two of which may be external parties. Not all telephones have this feature.

A. To initiate conference while engaged in conversation: FLASH the switchook, then dial the desired number. To add on: FLASH * 4

B. If you call an extension which is busy, or you receive no answer or the wrong party, FLASH * 1 to connect back to the conference call.

8.4 [PUBLIC TELEPHONE SYSTEM]

8.4.1 From an ANO telephone, the public telephone system is accessed by dialing 9 followed by the desired telephone number. Not all extensions in the ANO Telephone System have dial 9 capability.

8.4.2 The public telephone system can be used to access ANO and Training Center numbers by dialing 858- and the desired ANO extension.

8.4.3 Public telephone numbers to the control rooms and Emergency Response Centers are in the Emergency Telephone Directory.

8.5 [COMPUTERIZED NOTIFICATION SYSTEM (CNS OR "AUTODIALER")]

The CNS is an automated computerized call/message system designed to contact a group of people, deliver a pre-recorded message to those people and record the contacts in a short amount of time. ANO uses this system to activate the Emergency Response Organization (ERO) and other persons necessary for emergency response.

The CNS computer is located in the communications room in the Technical Support Center (TSC, 3rd floor of the Administration Building). There are 3 remote terminals directly linked to the central computer in the TSC. These are located in the:

(1) Unit 1 Control Room
(2) Unit 2 Control Room
(3) Unit 2 Simulator

The CNS uses 24 phone lines which may be used simultaneously to send outbound messages to or receive inbound calls from the ERO. If any person in the ERO believes that CNS has tried to contact them, he or she may call the CNS for a status. The CNS phone number is:

858-3683

NOTE

Only those individuals who have been specifically trained to activate, operate or maintain the CNS may do so. Any use of the system for purposes other than its intended use as stated in this procedure is prohibited.

8.5.1 CNS Operation

A. Upon declaration of an Emergency Class, the CNS is activated from the affected Control Room by the unit's Shift Engineer. Instructions for activating the CNS are contained in Attachment 9 to procedure 1903.011, "Emergency Response/Notifications".

B. When the CNS is activated, it will initiate the "All Call" function for all ERO positions and other personnel necessary for emergency response who carry a pager. The pager will display the CNS phone number "858-3683".

C. The person carrying the pager will call this number as quickly as possible after receiving the page. When called, the CNS will ask for a four (4) digit badge number. If the badge number does not contain 4 digits, zero's should be entered before the badge numbers.

Example: Badge number 99.
The person should enter 0099 into their touch-tone telephone.

The CNS will then deliver the pre-recorded message, ask questions and record the person's responses for tracking.

D. Immediately after making the pager "All Call", the CNS will begin calling individual phone numbers, and will continue to do so until all positions are filled or the run-time for the scenario has expired.

E. For ERO personnel assigned to teams (i.e., Emergency Radiation Team, Dose Assessment Team) who don't carry pagers, the CNS will call them individually until the number of people required to respond for the team has been met.

F. If the CNS is not functioning, the Shift Engineer will initiate the pager "All Call" using the telephone (section 8.3). The message "0001" (NUE on Unit 1), "1111" (ALERT, SAE, or GE on Unit 1), "0002" (NUE on Unit 2), or "2222" (ALERT, SAE, or GE on Unit 2) will be displayed on the pager. ERO members should report as quickly as possible to their assigned facilities if "1111" or "2222" is displayed. Personnel in the ERO who have been instructed to call other ERO members and Team members will do so as required (see 1903.011, Attachment 5).

G. The sequences of steps to respond to the CNS are given in Attachment 4.

8.6 **[NRC EMERGENCY TELECOMMUNICATIONS SYSTEM (ETS)]**

The ETS is a multi-link telecommunications system used by the Federal government to combine several distinct branches of voice and data communication through one system under its control. The network provides a reliable, separate system for all of the essential communication functions that the NRC would require during an emergency.

All of the following systems are accessed by 11 digit dialing through the ETS Network to the NRC Operations Center (NRCOC). To place a call over the ETS Network, a user must do the following:

8.6.1 Lift the receiver on the telephone and listen for a dial tone.

8.6.2 After receiving a dial tone, dial the first number listed on the sticker located on the telephone using all 11 digits. If the first number is busy, proceed on with the second, etc. (No access codes need to be dialed. Only dial the appropriate 11 digit telephone number.)

8.6.3 Refer to Attachment 2 to initiate repairs involving the ETS system, if necessary.

A. NRC Emergency Notification System (ENS)

The Emergency Notification System consists of dedicated emergency telephones for use as the primary means for initial notifications from ANO to the NRC, as well as for ongoing information on plant systems, status and parameters. The ENS telephones are located in the Unit-1 and 2 Control Rooms, the TSC and the EOF.

B. NRC Health Physics Network (HPN)

The HPN system is established by the NRC during its standby or initial activation mode of operations after the licensee's TSC/OSC/EOF has been activated and is operational. Once established, it is the primary means of communicating radiological data (onsite and offsite measurements and dose assessment information) from the licensee to the NRC.

The HPN system consists of the NRC Headquarters Operations Center HPN telephone conference bridge and the HPN communicator telephone in the NRC regional office Incident Response Center. At ANO the HPN telephones are located in the Operational Support Center (OSC), the Technical Support Center (TSC) and the Emergency Operations Facility (EOF).

The HPN telephone is labeled as "HPN Telephone". Stickers are attached to each instrument providing the primary and backup telephone numbers of the NRC Operations Center.

As the NRC and licensee response facilities become staffed, either the NRC regional office or NRC Headquarters may decide that establishment of the HPN is warranted. An announcement of this fact will be made over the ENS telephone. It is important that the licensee staff the HPN as soon as possible after the announcement on the ENS.

To gain access to the HPN, the licensee's HPN communicator calls the NRC Operations Center by dialing one of the telephone numbers provided on the sticker affixed to each HPN telephone. The licensee's HPN communicator(s) should indicate that he/she is the HPN communicator(s) and that he/she would like to be connected to the HPN teleconference bridge. It is important that the communicator(s) have direct access to Health Physics and dose assessment information. There is one HPN phone located in the OSC, one in the TSC and two are located in the EOF.

Excluding the above, no other licensee use other than required testing is permitted.

C. Reactor Safety Counterpart Link (RSCPL)

Established initially with the base team, and then with the NRC site team representatives once they arrive at the site, to conduct internal NRC discussions on plant and equipment conditions separate from the licensee and without interfering with the exchange of information between the licensee and NRC. This is the channel by which the NRC Operations Center supports NRC reactor safety personnel at the site. In addition, this link may also be used for discussion between the Reactor Safety Team Director and the licensee plant management at the site. The location for the RSCPL at ANO is the TSC and the EOF.

D. Protective Measures Counterpart (PMCPL)

Established initially with the base team, and then with the NRC site team representatives once they arrive at the site, to conduct internal NRC discussions on radiological releases and meteorological conditions, and the need for protective actions separate from the licensee and without interfering with the exchange of information between the licensee and NRC. This is the channel by which the NRC Operations Center supports NRC protective measures personnel at the site. In addition, this link may also be used for discussion between the Protective Measures Team Director and the licensee plant management at the site. The PMCPL position is located in the command room at the EOF and the TSC.

E. Management Counterpart Link (MCL)

Established for any internal discussions between the Executive Team Director or Executive Team members and the NRC Director of Site Operations or top level licensee management at ANO. This link is located in the TSC and the EOF at ANO.

F. Local Area Network (LAN) Access

Established with the base team and the NRC site team for access to any of the products or services provided on the NRC Operations Center's local area network. This includes technical projections, press releases, status reports, E-Mail, and various computerized analytical tools. These links are located in the TSC and the EOF.

8.7 **[ANO PUBLIC ADDRESS SYSTEM (GAI-TRONICS)]**

The GAI-TRONICS System is an industrial communication system independent of offsite communications designed to provide voice communication between two or more locations.

8.7.1 To operate; select party line, depress paging push-button to page, then release for private conversation.

8.8 **[RADIO SYSTEMS]**

The Radio System for ANO consists of five UHF repeaters, several multi-channel control consoles and numerous portable and vehicle radios. The ANO radio system has five sets of frequencies as described in section 8.8.1.B. The ANO Radio System also provides for interconnections with the ADEM and Sheriff's frequencies.

The ANO Radio System includes several multi-channel control consoles, each of which has eight channels. They are located as follows: (1)Unit I Control Room, (2) Unit II Control Room, (3) Central Alarm Station, (4) Secondary Alarm Station, (5) Operational Support Center, (6) The Offsite Field Team Dispatch Area (EOF Room 264).

ANO emergency radios are operated in the unscrambled mode.

8.8.1 Console Operation

A. To use the radio, select the desired channel, press the transmit button on the microphone and give message.

B. To select a channel, depress the desired channel-select button.

FREQUENCIES		CALL SIGNS
Channel 1	Maintenance/ In-Plant Emer. Teams	KMF 327
Channel 2	Security	KMF 327
Channel 3	Offsite Monitoring/ Dardanelle Dam	WQQ 840
Channel 4	Operations, Unit 1	WQQ 839
Channel 5	Operations, Unit 2	WQQ 840
Channel 6	Arkansas Department of Emergency Management	WFR 476
Channel 7	Sheriff's Office	KNFL 479
Channel 8	Spare	KMF 327

C. Intercom

When the intercom button is depressed, direct console-to-console communication is established with any console selected to the same channel. The intercom does not key the transmitter, therefore, this mode of communication is not dependent on the radio repeater.

D. Mute

The Mute Button on the vertical (top) portion of the console is used to turn off the volume for a monitored channel(s) on the unselected audio panel (i.e., the vertical panel). Each channel may be muted individually.

The Mute Button on the horizontal (bottom) portion of the console mutes only the channel that is selected.

E. Paging Encoder (for MOTOROLA pagers only)

1. To Page Emergency Teams:

a. Select channel 1 on the radio console.

b. Select the response group needed from the Instant Call Keys on the encoder.

"FIRE"	=	Fire Brigade
"MEDICAL"	=	Emergency Medical Team
"HAZMAT"	=	Chemical Emergency Coordinator

c. VERIFY that the appropriate Instant Call Key is selected, and press the "IC SEND" key. Wait for tones to be transmitted.

NOTE

If the encoder fails to operate using the "IC SEND" key, use the Keypad paging method described in 8.8.1.E.2 to page emergency teams.

d. When the tone is transmitted, depress the "SIREN ALERT" key and hold down for two or three seconds to alert the team that an emergency message will follow.

e. Depress the microphone switch on the base radio console and give the appropriate message.

f. Examples of messages to give from base radio console when using paging encoder:

REPORTED FIRE:

ATTENTION FIRE BRIGADE MEMBERS.
There is a fire at (give location).
Fire Brigade Members please respond.

REPORTED PERSONNEL EMERGENCY:

ATTENTION EMERGENCY MEDICAL TEAM MEMBERS. A Personnel Emergency has occurred at (give location). Emergency Medical Team Members please respond.

REPORTED HAZARDOUS MATERIAL SPILL:

ATTENTION CHEMICAL EMERGENCY COORDINATORS A hazardous material spill has occurred at (give location). A Chemical Emergency Coordinator needs to call the (give Unit #) Control Room at extension (give telephone number).

MULTIPLE RESPONSE (EX. FIRE WITH INJURED PERSONNEL):

ATTENTION FIRE BRIGADE MEMBERS AND EMERGENCY MEDICAL TEAM MEMBERS.
A fire with personnel injuries has occurred at (give location). Fire Brigade and Emergency Medical Team Members please respond.

g. Follow the radio/pager message with the appropriate message using the Plant Paging System.

FIRE
ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. There is a FIRE at (give location).

The ANO FIRE BRIGADE is responding. All personnel should stay clear of the (give location).

PERSONNEL EMERGENCY
ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. There is a PERSONNEL EMERGENCY at (give location).

The EMERGENCY MEDICAL TEAM is responding. All personnel should stay clear of the (give location).

2. Keypad Paging Method (used for non-emergency paging and back-up for emergency paging).

   a. Select channel 1 on the radio console.

   b. Enter 4 digit pager number into encoder keypad

   c. Depress "KEYPAD SEND" button.

> **NOTE**
> If paging an emergency team to an emergency, depress and hold "SIREN ALERT" key for two to three seconds before giving voice message.

   d. After the tone is transmitted, depress the transmit switch on the microphone and state the message.

   e. If the wrong code is entered, push "CLEAR ENTRY" button.

8.8.2 Miscellaneous Consoles

The ANO Radio System also includes several miscellaneous single channel and multi-channel consoles in addition to those described earlier. They are described below.

A. Dardanelle Dam - single channel console located at the Dardanelle Dam Site for communications with Corps of Engineer personnel which may be established on channel 3. This console does not have the intercom feature.

B. Alternate EOF - four channel console located at the Russellville Business Office which includes the Maintenance/InPlant Emergency Teams frequency, the Offsite Monitoring frequency and a Talk-Around frequency. This console does not have the intercom feature.

8.8.3 Vehicle Radios

A. Multi-channel radios are provided in selected ANO vehicles. To operate vehicle radios:

   1. Turn "off/on" switch "on". Select desired channel.

   2. Remove microphone from hanger. Listen to avoid interfering with communications that are on frequency. Set volume to desired level.

   3. Depress pushbutton on microphone to transmit. Release pushbutton to receive.

B. Frequency Selection

FREQUENCIES		CALL SIGNS
Channel 1	Maintenance/In-Plant Emer Teams	KF-6068
Channel 2	Security	KF-6068
Channel 3	Offsite Monitoring	KF-6068
Channel 4	Talk Around (for Channel 3)	KF-6068
Channel 5	Operations	KF-6068
Channel 6	Talk Around (for channel 5)	KF-6068
Channel 7	Operations	KF-6068

8.8.4 Hand-Held Radios

A. Maintenance Portables

Portable radios are assigned to ANO Maintenance. They are kept and issued by the ANO Toolroom. Channel 1 on these radios selects the maintenance set of frequencies. This channel is repeated, so communication is possible throughout the coverage of the Maintenance repeater antenna. When using Channel 2 (Talk-Around) on these radios, coverage is limited to approximately line of sight, since the repeater is not used.
Transmission to a console is not possible on Channel 2, although transmissions from the console can continue to be received.

B. Security Portables

ANO Security Force Radios are kept and issued by the Main Guard Station. Channel 1 on these radios is repeated, Channel 2 is not. Thus, the portables may communicate freely with each other and with a console if Channel 1 is selected. When using Channel 2 (Talk-Around) on these radios, coverage is limited to approximately line of sight, since the repeater is not used.
Transmission to a console is not possible on Channel 2, although transmissions from the console can continue to be received.

C. Emergency Portables

Multi-channel portable radios are assigned to the Emergency Planners for use in the event of an emergency. They are stored in key locations at ANO and not used during normal operations. The following frequencies are available for use with these radios:

FREQUENCIES		CALL SIGNS
Channel 1	Maintenance/In-Plant Emer Teams	KF-6068
Channel 2	U2 Operations	KF-6068
Channel 3	Field Teams	KF-6068
Channel 4	U1 Operations	KF-6068
Channel 5	U2 Operations	KF-6068
Channel 6	Talk around for Channel 3	KD-6068

D. Operations Portables

Multi-channel portable radios are assigned to Operations, some of which are reserved for use during remote shutdown activities. The remaining radios are used during normal operations. The following frequencies are available for use with these radios:

NOTE

Only on Saber or VISAR Radios

FREQUENCIES		CALL SIGNS
Channel 1	Maint/In-Plant Emer Teams	KF-6068
Channel 2	Security (not on VISAR)	KF-6068
Channel 3	Offsite Monitoring	KF-6068
Channel 4	Operations, Unit 1	KF-6068
Channel 5	Operations, Unit 2	KF-6068
Channel 6	Unit 1 Ops. Talkaround	KF-6068
Channel 7	Unit 2 Ops. Talkaround	KF-6068

8.8.5 Pagers

Pagers are assigned to Emergency Response Organization (ERO) positions and other personnel who are necessary for emergency response. Pagers are the primary method for notifying the ERO, via the CNS.

A. Instructions for the pagers are provided by the Emergency Planning Department upon request.

B. Guidance for pager usage by emergency response personnel:

1. The pagers should be carried and maintained operable when you have emergency response duties.

2. In high noise areas, the vibration feature should be used, if available.

3. If the pager displays the message "Tone Only", the person trying to reach you has made an error or has hung up before completing the message.

4. Range of Pagers - The range of the dail-a-page pagers can be varied. Pagers used by the Emergency Response Organization have a limited range due to the time requirements for emergency response.

5. Pager Activation - When an emergency response pager is activated, the wearer should return a call to the designated number or location. If "0001" or "0002" is displayed, no response is required by ERO personnel. If "1111" or "2222" is displayed, ERO members should report to their assigned facilities.

6. Periodic Drills - Periodic unannounced drills are conducted per this procedure.

8.9 MONTHLY SURVEILLANCE

8.9.1 **[The following items shall be performed on a monthly basis by an Emergency Planner or a designee and documented on Form 1903.062A, "ANO Monthly Communications Testing Record"]**

8.9.2 Testing commercial and plant telephone lines consist of the following as a minimum:

A. Dial number from another telephone.

B. Ensure telephone "called" is ringing. **Do Not** listen for ring via "calling" telephone.

C. Telephones that are used on a daily basis need not be tested.

8.9.3 Verify the operability of the following telephones:

A. Direct commercial telephone lines to each Control Room, EOF, TSC and OSC.

B. Plant telephone lines to each Control Room, EOF, TSC and OSC.

C. Status Board Communicator lines in EOF, TSC, OSC, Unit 1 and Unit 2 Simulator, and Unit 1 and Unit 2 Control Rooms.

D. Team Tracking Board Communicator lines in TSC and OSC.

E. Telephone lines to be tested are listed on Form 1903.062A.

8.9.4 Verify the operability of the radios located in each of the following areas:

A. Unit One Control Room

B. Unit Two Control Room

C. Technical Support Center

D. Emergency Operations Facility

1. Handheld radios located on first floor in Room 110.

2. Console radio is located on second floor in Room 264.

E. Designated site vehicles for offsite Monitoring

F. Emergency Medical Lockers

G. Operational Support Center

H. The radios and channels on which each are to be tested are listed on Form 1903.062A.

8.9.5 Verify the operability of the NRC-ENS phones. Verification of the NRC-ENS phone as a minimum will consist of calling the NRC using the ENS phone and having the NRC return a call. Control Room ENS phones are checked daily by the NRC and need no return call.

NOTE

The NRC-ENS phone in both control rooms and the TSC have the same number. A return call at the TSC will ring in the control rooms.

8.9.6 WHEN verifying the TSC-ENS phone, THEN notify both control rooms that the ENS phone will be ringing and not to answer the phone.

8.9.7 WHEN testing of TSC NRC-ENS phone is complete, THEN notify both control rooms to REGARD all further calls.

8.9.8 Verification of remaining NRC phones consist of, as a minimum, calling each NRC phone in the facility from another NRC phone in that facility and listening for a ring. The ring is the physical ring of the phone being called.

NOTE

The TSC and OSC HPN telephones are extensions of each other.

8.9.9 Verify the operability of the (NRC-HPN), (NRC-RSCPL), (NRC-PMCPL), (NRC-MCPL), (NRC-LAN) phones.

8.9.10 Verification of (NRC-LAN) consist of plugging in a NRC phone into the LAN jack and listening for a dial tone. WHEN verification is complete, THEN remove NRC phone from jack.

8.9.11 Verify the operability and correct time of the DEF/VS in the following locations:

A. Unit 2 Control Room

B. Technical Support Center

C. Emergency Operations Facility

D. Unit 2 Simulator

8.9.12 Test DEF/VS system as follows:

A. Notify the Arkansas Department of Health Nuclear Planning and Response Program (NP&RP) division that DEF/VS testing will be commencing.

B. Verify the operability and correct time of the DEF/VS in the following locations:

1. Unit 2 Control Room

2. Technical Support Center

3. Emergency Operations Facility

4. Unit 2 Simulator

C. Insert test fax into DEF/VS system. Ensure that the test fax contains information to the recipient that this is a test and that a verification call will follow upon completion of testing.

D. Press the red button on the key pad labeled "Emergency Notification".

E. Perform steps C and D above on all DEF/VS machines to be tested.

F. WHEN all DEF/VS machines to be tested have been completed,
THEN perform verification call.

G. Using the DEF/VS phone, pick up receiver and press the red button located on the phone.

H. The DEF/VS phone will call the following:

1. Arkansas Department of Health (ADH)
2. Conway County Warning Point (Morrilton Police)
3. Johnson County Warning Point (Sheriff's Office)
4. Logan County Warning Point (Sheriff's Office)
5. Pope County Warning Point (911 Center)
6. Yell County Warning Point (Sheriff's Office)
7. Arkansas Department of Emergency Management (Conway ADEM)

I. As the parties answer ask them to "please hold".

J. WHEN all parties have answered,
THEN perform rollcall as follows:

1. State message **"I am calling from Arkansas Nuclear One. Please confirm receipt of test fax.**
2. Perform the rollcall by calling out each warning point, then the ADH and then DEM.

K. Notify NP&RP that DEF/VS testing is complete.

NOTE
Facsimiles that are used on a daily basis need not be tested.

8.9.13 Verify the operability and correct time of the FAX machines in the following locations. Operability is determined by sending and receiving a fax from another facility:

A. Unit 2 Control Room

B. Technical Support Center

C. Operational Support Center

D. Emergency Operations Facility

E. Unit 2 Simulator

NOTE

Telephone numbers for offsite support groups other than those below are verified as part of the quarterly Emergency Telephone Directory update.

8.9.14 Verify the telephone numbers for the following groups:

A. Arkansas Department of Health

B. County Warning Points

C. National Weather Service

8.9.15 Verify the placement and correct revision of the following items located in the Unit One/Unit Two Control Rooms:

A. Emergency Response Duty Roster

B. Emergency Telephone Directory (including Pager Assignment List)

8.9.16 Verify minimum inventory of emergency communications equipment stored at the Emergency Operations Facility (EOF) in the Command Room.

8.9.17 The following communications equipment/systems do not require testing by the Emergency Planners due to the indicated reasons:

A. ANO plant phone system (other than facilities), Entergy microwave system and the Gaitronics paging system (used daily as a part of normal plant operation).

B. Early Warning System (tested by the State of Arkansas).

8.10 QUARTERLY SURVEILLANCE

8.10.1 The following items shall be performed on a quarterly basis by an Emergency Planner or a designee:

NOTE

The operability of assigned pagers is demonstrated and documented routinely during performance of "Emergency Response Staffing Drill" form 1903.062E.

8.10.2 Verify the operability of assigned pagers.

[8.10.3 Test the operability of the Emergency Response Data System (ERDS) link to the NRC. Document this test on Form 1903.062E.

A. ERDS testing is scheduled by the NRC. Contact NRC in Rockville, Maryland for ERDS testing date.

Telephone Numbers
1-301-415-5015 (Main)
1-301-816-5140
1-301-816-5141

B. Prior to starting test, test operability of modems by using a FTS telephone and dial the ERDS modems and verify the modem does NOT answer. ERDS-1 Modem 1-700-681-6370 and ERDS-2 Modem 1-700-681-6368.

C. Prior to starting test, call NRC, same number as step A, to inform them of commencing testing and give a number that they may reach an Emergency Planner in case of problems.

D. Notify both control rooms that ERDS testing is commencing.

E. Start the ERDS in accordance with procedure 1903.011 section 6.5.

F. Allow ERDS to transfer data for 2 hours.

G. WHEN testing is completed,
THEN stop ERDS in accordance with procedure 1903.011 section 6.5.]

8.10.4 Form 1903.062C, "Emergency Response Staffing Drill", shall be completed at least once each calendar year to document that the capability exists to implement Table B-1, "Minimum Staffing Requirements", of the Emergency Plan.

8.11 ANNUAL SURVEILLANCE

NOTE
The following testing may be done as a part of the plant's bi-ennial exercise or drill.

8.11.1 Communications links between the plant, federal, state and local emergency operation centers and field assessment teams shall be tested annually

8.11.2 Testing of these communications links is the responsibility of the Emergency Planner(s).

8.11.3 Form 1903.062B should be completed to document this test.

9.0 ACCEPTANCE CRITERIA

9.1 Tests shall be carried to a conclusion such that the test is adequate to verify equipment operability.

9.2 Upon discovery of defective emergency communications equipment perform the following:

9.2.1 Refer to Procedure 1903.010, "Emergency Action Level Classification" to determine if communications system failures require a Notification of Unusual Event.

9.2.2 If NRC ETS system is inoperable, refer to Attachment 2, for instructions.

9.2.3 If any other emergency communication equipment is inoperable, initiate a telecommunications request for repairs and document all actions on Form 1903.062A.

9.2.4 The Telecommunications Request should:

A. Provide notification of the problem to repair personnel

B. Inform telecommunications that this is emergency response equipment.

9.2.5 Document satisfactory performance following repair on Form 1903.062A

9.2.6 Attach all repair documentation to the surveiveillance procedure and forward to records upon completion.

9.3 Contacts for the Emergency Response Staffing Drill are considered successful if personnel could respond no more than 15 minutes beyond the 30 minute or 60 minute goals.

10.0 ATTACHMENTS AND FORMS

10.1 Attachment 1 - 10 Signals

10.2 Attachment 2 - "Emergency Telecommunication System (ETS) Repairs"

10.3 Attachment 3 - "Paging Encoder Operation - Emergency Response Groups"

10.4 Attachment 4 - "Responding to the Computerized Notification System (CNS)"

10.5 Attachment 5 - "Flowcharts for CNS Calls"

10.6 Form 1903.062A - "ANO Monthly Communications Testing Record"

10.7 Form 1903.062B - "Annual Communications Testing Record"

10.8 Form 1903.062C - "Emergency Response Staffing Drill"

10.9 Form 1903.062E - "Quarterly ERDS Test"

ATTACHMENT 1

10 Signals

10 signals which may be used at ANO for radio communications:

10- 1	Receiving poorly.
10- 2	Receiving well.
10- 3	Stop transmitting.
10- 4	Message received ok.
10- 5	Relay.
10- 6	Busy.
10- 7	Out of service or off duty.
10- 8	In service or on duty.
10- 9	Repeat.
10- 10	Out of service--subject to call.
10- 12	Officials or visitors present.
10- 13	Advise road-weather conditions.
10- 14	Convoy or escort.
10- 15	Suspect in custody.
10- 17	Pick up papers or packages.
10- 18	Complete assignment A.S.A.P.
10- 19	In route to or go to.
10- 20	What is your location?
10- 21	Call_____by telephone.
10- 22	Disregard last information.
10- 23	Standby until no interference.
10- 24	Trouble at_____, all units report at once at_____.
10- 25	Do you have contact with_____?
10- 27	Any answer that number?
10- 28	Check with local Law Enforcement Agency for registration.
10- 30	Does not conform to rules and regulations.
10- 33	Emergency traffic.
10- 34	Clear all stations on this leg.
10- 35	Confidential information.
10- 36	Correct time.
10- 37	Operator on duty.
10- 42	_____now at his home.
10- 44	Station _____ has traffic for your station.
10- 49	Pick up party at _____.
10- 50	Traffic check or no traffic.
10- 51	Request approval for visitor.
10- 52	Request approval for vehicle.
10- 53	Is (vehicle) on LDV list?
10- 63	Net is directed.
10- 64	Net is free.
10- 77	No response.
10- 82	Reserve room at _____.
10- 88	Advise telephone number _____.
10- 97	Arrived at scene.
10- 98	Finished with last assignment.
10-100	Request restroom break.

ATTACHMENT 2

Emergency Telecommunication System (ETS) System Repairs

Any trouble with ETS are to be reported to the NRC Operations Center (NRCOC) via normal telephone system by dialing 1(301)951-0550. The following series of events occur:

A. The NRCOC reports troubles to the ETS Trouble Handling Information System (THIS), which is operated by U.S. West Communications.

B. The THIS gives the NRCOC a trouble ticket number and provides periodic status reports to the NRCOC. The THIS passes the problem on to the MCI-WorldCom Network Control Center (NCC).

C. The NCC analyzes the problem and attempts to isolate or determine where it is. If the problem is within the ETS system, the NCC will direct corrective action including dispatch of work crews and report restoral to the NRCOC.

D. If the NRC determines that there is no problem within the ETS portion of the service, they will so notify the THIS.

E. The THIS will notify the NRCOC that the problem is not within the ETS portion of the service.

F. The NRCOC must then notify ANO that the problem is with the ANO side of the system.

G. In this case, the licensee should initiate repairs by contacting ANO Telecommunications.

ATTACHMENT 3

PAGING ENCODER OPERATION
EMERGENCY RESPONSE GROUPS

Step 1: Select **Channel 1** on radio console.

Step 2: Select the response group needed (Fire, Medical, HazMat) from **Instant Call Keys**.

Step 3: **Verify** correct key is selected. Depress **"IC SEND"** key, and wait for tones to be transmitted.

Step 4: Depress and hold **"Siren Alert"** key for two to three seconds.

Step 5: Depress microphone switch on radio console and give appropriate message.

Step 6: Using plant paging system, give message as per procedure to alert plant personnel to remain clear of the emergency location.

EXAMPLES OF MESSAGES:

FIRE: Attention Fire Brigade members.
There is a fire at (give location).
Fire Brigade members please respond.

MEDICAL: Attention Emergency Medical Team members.
A personnel emergency has occurred at (give location).
Emergency Medical Team members please respond.

HAZMAT: Attention Chemical Emergency Coordinators.
A hazardous material spill has occurred at (give location).
A Chemical Emergency Coordinator needs to call the (give Unit #) Control Room at extension (give telephone number).

FOR MANUAL PAGING:

Use keypad to enter number of pager desired.
Fire = C100 Medical = C500 HazMat = C555
Depress "keypad send" button on encoder control panel.

ATTACHMENT 4

Responding to the Computerized Notification System (CNS)

This is the sequence of steps to respond to the Computerized Notification System (CNS) when you call *IN* to the system.

1. After dialing 858-3683 you will hear, "Hello, this is the Arkansas Nuclear One Computerized Notification System. This is a(n) (actual emergency, drill, or test). Please enter your Arkansas Nuclear One security badge number. The entry must contain four digits."

2. Enter your security badge number. If your badge number has less than four digits, enter zeroes as necessary (i.e., 0009, 0099, 0999).

3. You will then hear, "You entered (your badge number). Is that correct? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If your emergency response position is already filled, the system will say, "Your emergency response position has already been filled by another person. Thank you. Goodbye." and hang up.

   If you press 6 for NO, the system will repeat the request for your badge number. If your badge number is not entered correctly the second time, the system will say, "You have entered an invalid ID code. Thank you. Goodbye." and hang up.

4. After you have entered your badge number and the system recognizes it, you will hear, "This is a(n) (actual emergency, drill, or test). A(n) (Notification of Unusual Event, Alert, Site Area Emergency or General Emergency) has been declared on Unit (1 or 2) of Arkansas Nuclear One."

5. The system will then ask you, "Do you want to hear the message again? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will repeat the message.

   If you press 6 for NO, the system will continue with the call.

6. You will be asked, "Are you able to fill your assigned position in the Emergency Response Organization? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If you press 6 for NO, the system will say, "You do not qualify to fill a position at this time because you do not meet the response criteria for this incident. Thank you. Goodbye." and hang up. The system will not attempt to call you again, but you may call in and fill your position if your status changes.

ATTACHMENT 4

Responding to the Computerized Notification System (CNS)

7. The system will then ask you, "Are you fit for duty? **Press 9 for YES or 6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If you press 6 for NO, you will hear, "You do not qualify to fill a position at this time because you do not meet the response criteria for this incident. Thank you. Goodbye." and hang up. The system will not attempt to call you again, but you may call in and fill your position if your status changes.

8. The system will then say, "Please enter your estimated time of arrival in minutes."

9. Enter the estimated number of minutes that it would take you to reach the plant site.

   If you enter **forty minutes or less** and your position has not yet been filled, the system will say, "You are filling the position of (your position). Please report to your designated emergency response facility or assembly area as soon as possible. This is a(n) (actual emergency, drill, or test). Thank you. Goodbye."

   You should then report to your designated emergency response facility or assembly area as soon as possible. If you were called for a drill or event that did <u>not</u> require you to report to the plant site, you would have been told not to report to the plant.

   If your position was filled by someone else during your call, the system will say, "In an attempt to fill positions as rapidly as possible another person has filled the position for which you have been called. Thank you. Goodbye." and hang up.

   If you enter **greater than forty minutes**, the system will say, "You have entered a response time that is greater than sixty minutes. In an attempt to fill positions as quickly as possible, we will continue to call other personnel qualified for your position. However, you should report to your designated emergency response facility or assembly area as soon as possible. Thank you. Goodbye." and hang up. The system will continue to call you and all the other people in your position.

ATTACHMENT 4

Responding to the Computerized Notification System (CNS)

This is the sequence of steps to respond to the CNS if the system calls *OUT* to you.

1. The system will dial your phone number (home or work).

2. When you (or anyone at your phone) answers, the system will say, "I have a call for (your name). If this person is not available, enter **999** as the ID code. Please enter your Arkansas Nuclear One security badge number. The entry must have four digits."

   If you are the person who answers the phone, follow the steps starting at step 3 below.

   If you are not at your phone, the person who answers may enter **999** when asked for your badge number. The system will say, "You entered 999. Is that correct? Press **9 for YES** or **6 for NO.**"

   If the person presses 9 for YES, the system will say, "Your number has been discontinued. Thank you. Goodbye." and hang up. The system will not attempt to call the number that has been discontinued anymore during the scenario that is running. This feature is designed to prevent repeated phone calls if you are unavailable.

3. Enter your security badge number. If your badge number has less than four digits, enter zeroes as necessary (i.e., 0009, 0099, 0999).

4. You will then hear, "You entered (your badge number). Is that correct? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If your emergency response position is already filled, the system will say, "Your emergency response position has already been filled by another person. Thank you. Goodbye." and hang up.

   If you press 6 for NO, the system will repeat the request for your badge number. If your badge number is not entered correctly the second time, the system will say, "You have entered an invalid ID code. Thank you. Goodbye." and hang up.

5. After you have entered your badge number and the system recognizes it, you will hear, "This is a(n) (actual emergency, drill, or test). A(n) (Notification of Unusual Event, Alert, Site Area Emergency or General Emergency) has been declared on Unit (1 or 2) of Arkansas Nuclear One."

6. The system will then ask you, "Do you want to hear the message again? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will repeat the message.

   If you press 6 for NO, the system will continue with the call.

ATTACHMENT 4

Responding to the Computerized Notification System (CNS)

7. You will be asked, "Are you able to fill your assigned position in the Emergency Response Organization? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If you press 6 for NO, the system will say, "You do not qualify to fill a position at this time because you do not meet the response criteria for this incident. Thank you. Goodbye." and hang up. The system will not attempt to call you again, but you may call in and fill your position if your status changes.

8. The system will then ask you, "Are you fit for duty? Press **9 for YES** or **6 for NO.**"

   If you press 9 for YES, the system will continue with the call.

   If you press 6 for NO, you will hear, "You do not qualify to fill a position at this time because you do not meet the response criteria for this incident. Thank you. Goodbye." and hang up. The system will not attempt to call you again, but you may call in and fill your position if your status changes.

9. The system will then say, "Please enter your estimated time of arrival in minutes."

10. Enter the estimated number of minutes that it would take you to reach the plant site.

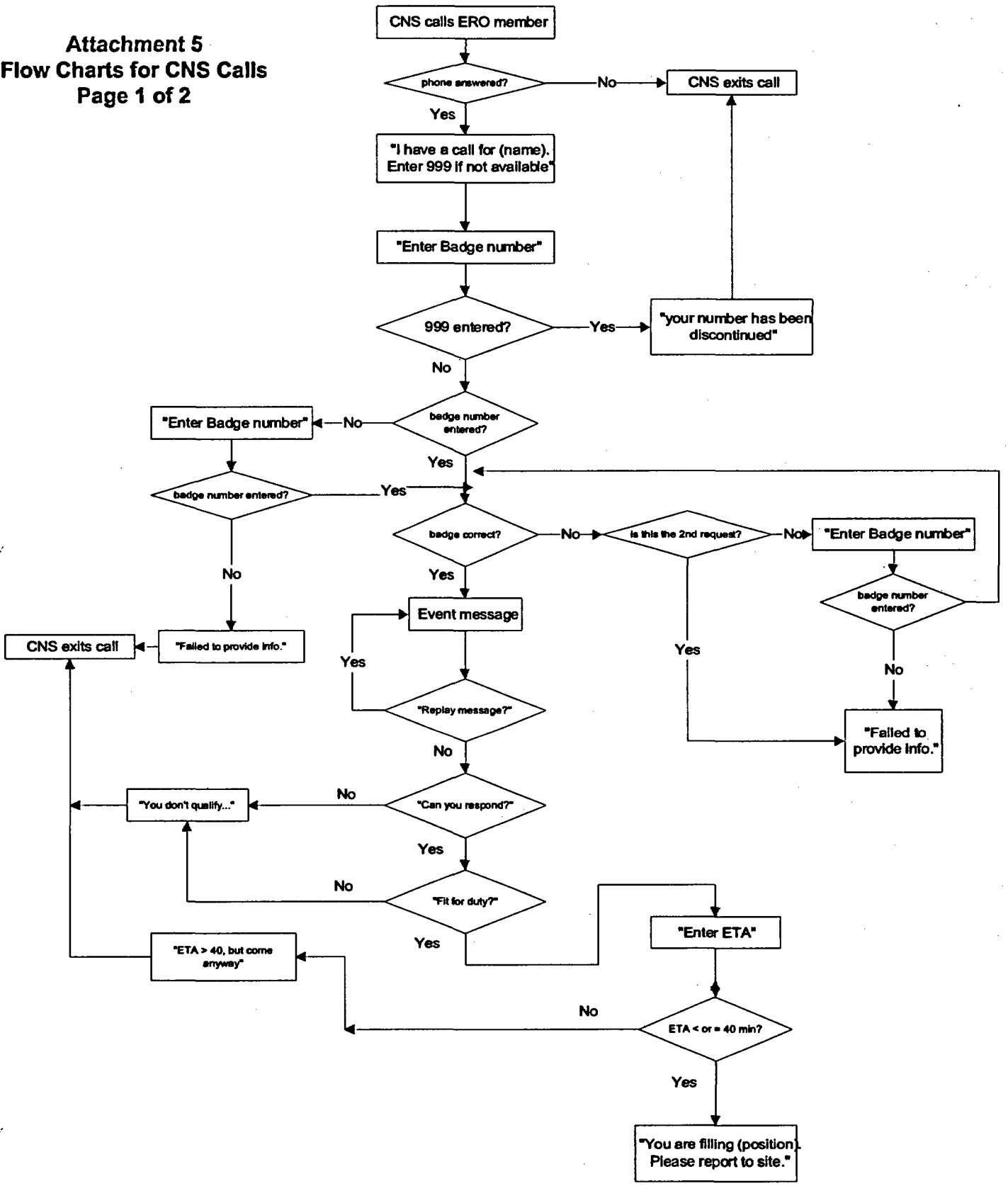
    If you enter **forty minutes or less** and your position has not yet been filled, the system will say, "You are filling the position of (your position). Please report to your designated emergency response facility or assembly area as soon as possible. This is a(n) (actual emergency, drill, or test). Thank you. Goodbye."

    You should then report to your designated emergency response facility or assembly area as soon as possible. If you were called for a drill or event that did <u>not</u> require you to report to the plant site, you would have been told not to report to the plant.

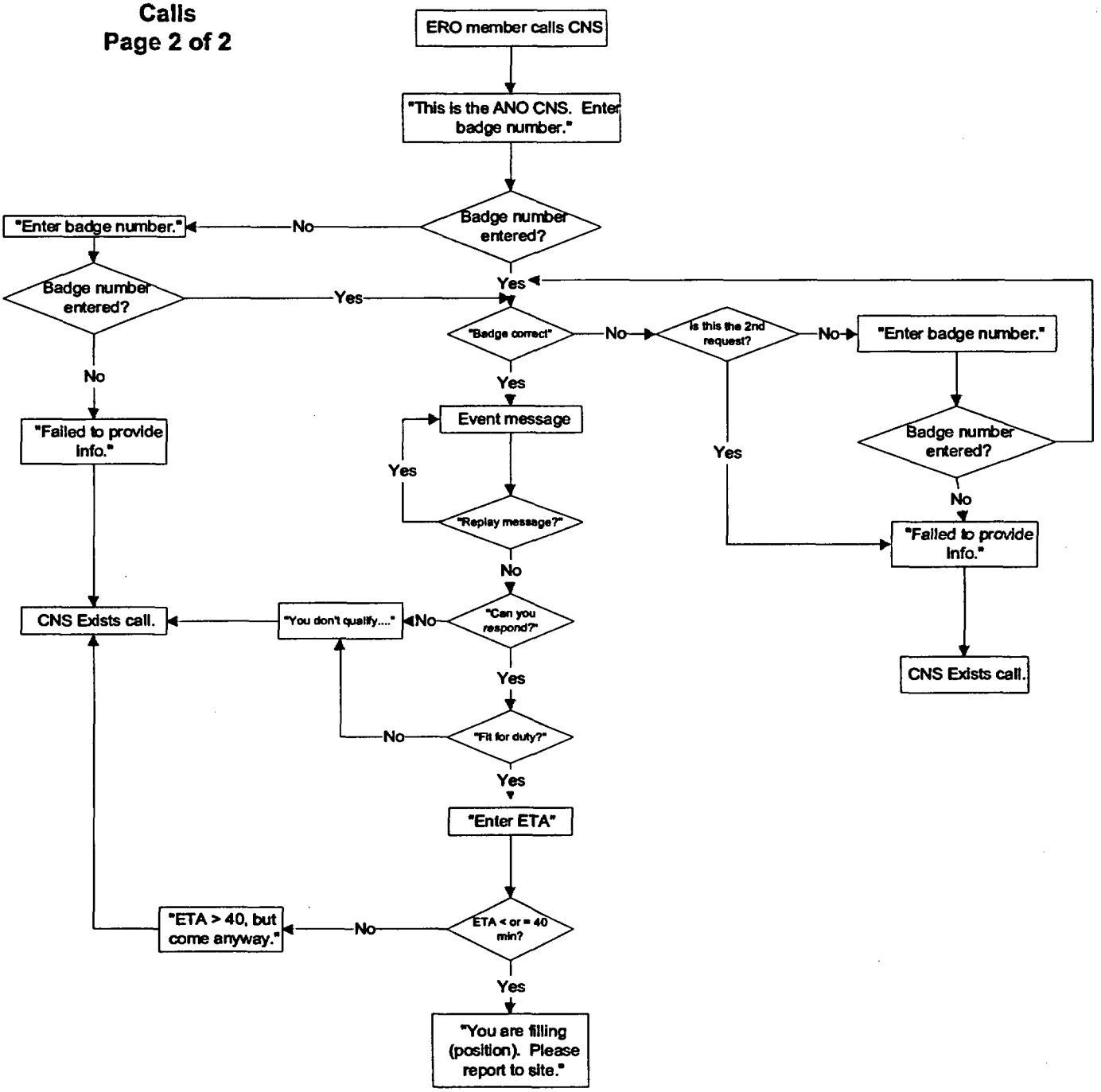
    If your position was filled by someone else during your call, the system will say, "In an attempt to fill positions as rapidly as possible another person has filled the position for which you have been called. Thank you. Goodbye." and hang up.

    If you enter **greater than forty minutes**, the system will say, "You have entered a response time that is greater than sixty minutes. In an attempt to fill positions as quickly as possible, we will continue to call other personnel qualified for your position. However, you should report to your designated emergency response facility or assembly area as soon as possible. Thank you. Goodbye." and hang up. The system will continue to call you and all the other people in your position.

Attachment 5
Flow Charts for CNS Calls
Page 1 of 2



Attachment 5
Flow Charts for CNS Calls
Page 2 of 2



Unit 1 and 2 Control Room

Unit 1 Control Room

Telephone	Line Number	Results SAT	Results UNSAT
Plant and Commercial Telephones	3101, 3102, 968-7410	☐	☐
NRC-ENS	700-681-6363	☐	☐
Status Board Communicator	N/A	☐	☐

Unit 2 Control Room

Telephones	Line Numbers	Results SAT	Results UNSAT
Plant and Commercial	3201, 3202, 3204, 3030, 3033, 968-6383	☐	☐
NRC-ENS	700-681-6383	☐	☐
DEF/VS	N/A	☐	☐
FAX	7414	☐	☐
Status Board Communicator	N/A	☐	☐

Consoles

Channel Tested	Receiver	Results SAT	Results UNSAT
1	Plant Radio	☐	☐
3	Plant Radio	☐	☐
6	Plant Radio	☐	☐

Emergency Response Duty Roster/Verification

Document	*Rev or Dates
Emergency Response Duty Roster	
Emergency Telephone Directory	

Emergency Response Duty Roaster/Verification

Document	*Rev or Dates
Emergency Response Duty Roster	
Emergency Telephone Directory	

Emergency Operational Facility

EOF Portable Hand Held

Radio #	Channel Tested	Receiver	Results SAT	Results UNSAT
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐
	3	Plant Radio	☐	☐

EOF

Telephone	Line Numbers	Results SAT	Results UNSAT
Plant and Commercial Telephones	7850 to7854, 7856 to 7858, 7491 to 7493, 968-8386, 6961 to 6963, 6981, 6982, 7875, 7876, U1, U2, TSC Ringdown	☐	☐
NRC-ENS	1-700-681-6440	☐	☐
NRC-HPN	1-700-681-5177	☐	☐
NRC-RSCPL	1-700-681-5426	☐	☐
NRC-PMCPL	1-700-681-4323	☐	☐
NRC-MCPL	1-700-681-4563	☐	☐
NRC-LAN	1-700-681-4936	☐	☐
FAX	6957	☐	☐
DEF/VS	N/A	☐	☐
Status Board Communicator	N/A	☐	☐
RDACS Modem Connection	(6842)	☐	☐

EOF Consoles

Channel Tested	Receiver	Results SAT	Results UNSAT
3	Plant Radio	☐	☐

Verify minimum inventory of emergency communications equipment stored at the EOF in the command room EOF Activation Kit Locker.

Type	Minimum	Results SAT	Results UNSAT
Commercial or Plant Telephones for Secondary OSC	8	☐	☐

Technical Support Center

Technical Support Center

Telephone	Line Numbers	Results SAT	Results UNSAT
Plant and Commercial Telephones	6601 to 6610, 7861 to 7863, 6626 to 6628, 968-7409, U1, U2, EOF Ringdown	☐	☐
NRC-ENS	1-700-681-6363	☐	☐
NRC-HPN	1-700-681-6366	☐	☐
NRC-RSCPL	1-700-681-6365	☐	☐
NRC-PMCPL	1-700-681-6369	☐	☐
NRC-MCPL	1-700-681-6364	☐	☐
NRC-LAN	1-700-681-4936	☐	☐
DEF/VS	N/A	☐	☐
FAX	6622	☐	☐
Status Board Communicator	N/A	☐	☐
Team Tracking Board Communicator	N/A	☐	☐

TSC Portable Hand Held

Radio Number	Channel Tested	Receiver	Results SAT	Results UNSAT
	1	Plant Radio	☐	☐

Operational Support Center

OSC Portable Hand Held

Radio Number	Channel Tested	Receiver	Results SAT	Results UNSAT
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐
	1	Plant Radio	☐	☐

OSC Consoles

Location	Channel Tested	Receiver	Results SAT	Results UNSAT
OSC	1	Plant Radio	☐	☐
OSC	3	Dardanelle	☐	☐

Operational Support Center

Telephone	Line Number	Results SAT	Results UNSAT
Plant and Commercial Telephones	6612 to 6621, 6624	☐	☐
NRC-ENS	1-700-681-6366	☐	☐
FAX	6623	☐	☐
Status Board Communicator	N/A	☐	☐
Team Tracking Board Communicator	N/A	☐	☐

Other

Mobile

Vehicle	Channel Tested	Receiver	Results SAT UNSAT
ANO Dodge Van	3	Plant Radio	☐ ☐
Extend Cab Truck	3	Plant Radio	☐ ☐
ANO mail Van	3	Plant Radio	☐ ☐
ANO 4WD Vehicle	3	Plant Radio	☐ ☐

Medical Lockers Portable Hand Helds

Radio Number	Channel Tested	Receiver	Results SAT UNSAT
	1	Plant Radio	☐ ☐
	1	Plant Radio	☐ ☐
	1	Plant Radio	☐ ☐

Telephone Number Verification

1.1	Telephone Number	Results SAT UNSAT
Department of Health	1-501-661-2136	☐ ☐
Pope County Sheriff	968-2558	☐ ☐
Russellville 911	890-6914	☐ ☐
Yell County Sheriff	1-501-229-4175	☐ ☐
Johnson County Sheriff	1-501-754-2200	☐ ☐
Logan County Sheriff	1-501-963-3271	☐ ☐
Corps of Eng. At Dardanelle Dam	968-5008	☐ ☐
National Weather Service	1-501-834-3955	☐ ☐

Remarks

PERFORMED BY_____ **DATE**_____

REVIEWED BY _____ _____ **DATE**_____

Annual Communication Testing Record

Location	Phone No.	Results
Pope County EOC		
Yell County EOC		
Logan County EOC		
Johnson County EOC		
Conway County EOC		
TOCC (Co-located in EOF)		

NOTE: State and Federal communications links are tested monthly.

PERFORMED BY:_____ DATE:_____

REVIEWED BY:_____ DATE:_____

1.0 PURPOSE

This drill is intended to serve as a notification drill and to demonstrate that emergency response personnel are available to augment the plant operating staff within the times specified in Table B-1 of the Emergency Plan and sufficient staff can respond to activate the TSC, OSC, and EOF within prescribed time frames.

2.0 SCOPE

This is a drill. Personnel are asked to either respond to the site or to give an estimate of the length of time that it would take for them to report onsite in the event of an actual emergency.

3.0 INSTRUCTIONS

3.1 Emergency Planning shall inform the Shift Manager of each unit that a staffing drill will be performed.

3.2 At approximately _____ (time) on _____ (date), instruct the Shift Manager for Unit ☐One ☐Two to initiate a staffing drill by performing step 3.1 of Form 1903.011M.

Time Shift Engineer instructed to start CNS: _____

3.3 Direct the Shift Engineer to use scenario number _____, entitled _____.

3.4 **WHEN** the scenario is completed,
THEN return the Computerized Notification System to standby.

Performed by: _____ _____
Name Time

3.5 Use reports generated by the Computerized Notification System, Security reports, or drill attendance sheets to complete pages 2, 3, 4, and 5.

3.6 Verify that personnel are available to augment the plant operating staff in accordance with Table B-1 of the Emergency Plan.

3.7 Review the estimated response time of personnel to determine if emergency response facilities could be activated in a timely manner.

Scenario start time: _____

Emergency Operations Facility

ERO Position	Person Contacted	Arrival Time*
Accident Assessment Manager		
Communications Liaison		
Communications Manager		
Status Board Communicator		
Dose Assessment Supervisor		
EAL Reviewer		
EOF Health Physics Supervisor		
EOF Maintenance Coordinator		
EOF Support Superintendent		
Offsite Monitoring Supervisor		
REAM		
Support Manager		
Dose Assessment Team		
Dose Assessment Team		
Dose Assessment Team		
Dose Assessment Team		
Dose Assessment Team		

Technical Support Center

ERO Position	Person Contacted	Arrival Time*
TSC Director		
Operations Manager		
Maintenance Manager		
RP & RW Manager		
Engineering Manager		
TSC Support Superintendent		
EAL Reviewer		
Status Board Communicator		
TSC Team Tracking Board Comm.		

Operational Support Center

ERO Position	Person Contacted	Arrival Time*
OSC Director		
Status Board Communicator		
Electrical Maintenance Supv.		
Mechanical Maintenance Supv.		
Maintenance Superintendent		
I&C Maintenance Supv.		
Nuclear Chemistry Manager		
OSC Team Tracking Board Comm.		

Control Room

ERO Position	Person Contacted	Arrival Time*
EAL Reviewer		
Status Board Communicator		

Miscellaneous

ERO Position	Person Contacted	Arrival Time*
CEC Manager		
Emergency Medical Team Leader		
Emergency Medical Team Member		
Emergency Medical Team Member		
Emergency Medical Team Member		
Emergency Medical Team Member		
Emergency Medical Team Member		
Emergency Medical Team Member		
Administrative Services Supv.		

Table B-1 Verification (30-minute Responders) **Response Time Goal:** _____

ERO Position	Person Contacted	Arrival Time*
Health Physics Supervisor		
TSC ENS Communicator		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Nuclear Chemist (IDA)		
Electrician[1]		
I&C Technician[2]		
Core/Thermal Hydraulic Eng.[3]		

[1]The Electrical Maintenance Supervisor may fill this position.
[2]The I&C Maintenance Supervisor may fill this position.
[3]The Shift Engineer of the affected unit may fill this position.

Table B-1 Verification (60-minute Responders) **Response Time Goal:** _____

ERO Position	Person Contacted	Arrival Time*
EOF Director		
EOF Notifications Comm.		
TSC Notifications Comm.		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Emergency Radiation Team		
Nuclear Chemist (Chemistry)		
Electrician		
Mechanic[4]		
Mechanic		
TSC Electrical Engineer		
TSC Mechanical Engineer		

[4]The Mechanical Maintenance Supervisor may fill this position.

Facility Activation Review

Goal for facilities to be operational: _____

Emergency Operations Facility

ERO Position	Arrival Time*
EOF Director	
REAM or Dose Assessment Supervisor	
Support Manager or EOF Support Superintendent	
Offsite Monitoring Supervisor	
EOF Notifications Communicator	

Technical Support Center

ERO Position	Arrival Time*
TSC Director	
Engineering Manager	
Maintenance Manager	
Operations Manager	
RP & RW Manager	
Notifications Communicator	

Operational Support Center

ERO Position	Arrival Time*
OSC Director	
Maintenance Superintendent	
Nuclear Chemistry Manager	
Health Physics Supervisor	
Health Physic Technician	
Health Physics Technician	
Mechanic	
Electrician	

COMMENTS: _____

_____

_____

_____

_____

_____

_____

_____

_____

Performed by: _____ Date: _____
Emergency Planner

Reviewed by: _____ Date: _____
Manager, Emergency Planning

* Arrival time may be actual arrival time at the site or calculated based on CNS response.

			Initials
1.	Verify ERDS will not answer.	Unit 1	_____
		Unit 2	_____
[2.	**Establish ERDS Link**		_____
3.	**Transmit data for 2 hours** **(Start Time)**	_____	_____
4.	**Terminate ERDS Link** **(Stop Time)]**	_____	_____

Performed by: _____ Date: _____

Reviewed by: _____ Date: _____