

Wednesday, January 26, 2000

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## Document Update Notification

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WASHINGTON DC 20555

*DOCUMENT NO:* OP-1903.062

*TITLE:* COMMUNICATIONS SYSTEM  
OPERATING PROCEDURE

*REVISION NO:* 016-00-0

*CHANGE NO:* AP-16

*SUBJECT:* NEW REVISION

*If this box is checked, please sign, date, and return transmittal  
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ANO-1 Docket 50-313

ANO-2 Docket 50-368

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Signature

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A001

**ENTERGY OPERATIONS INCORPORATED  
ARKANSAS NUCLEAR ONE**

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TITLE: COMMUNICATIONS SYSTEM OPERATING PROCEDURE  SET # 103	PROCWORK PLAN NO. 1903.062	CHANGE NO. 016-00-0
	WORK PLAN EXP. DATE N/A	TC EXP. DATE N/A
	SAFETY-RELATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	IPTE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	TEMP ALT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

When you see the **TRAP** use the **TOOLS!!**

Time Pressure	Self Check
Distraction/Interruption	Peer Check
Multiple Tasks	3-Part Communication
Over Confidence	Pre-Evolution Briefs
Vague or Interpretive Guidance	Knowledge
First Shift/Last Shift	Placekeeping
Peer Pressure	STAR
Change/Off Normal	Procedures
Physical Environment	
Mental Stress (Home or Work)	

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FORM TITLE: <b>VERIFICATION COVER SHEET</b>	FORM NO. 1000.006A	CHANGE NO. 047-04-0
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<input checked="" type="checkbox"/> <b>PROCEDURE</b>	<input type="checkbox"/> <b>WORK PLAN, EXP. DATE</b> <u>N/A</u>	<b>PAGE</b> <u>1</u> <b>OF</b> <u>1</u>
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**TYPE OF CHANGE:**  
 **NEW**                       **REVISION**                       **PC**                       **TC**                       **DELETION**  
 Procedure or Work Plan                       **EZ**                      **EXP. DATE:** N/A

<b>AFFECTED SECTION:</b> (Include step # if applicable)	<b>DESCRIPTION OF CHANGE:</b> (For each change made, include sufficient detail to describe reason for the change.)
	Added Table of Contents
3.4	Added commitment (P-2687)
7.1	Bold and bracket due to commitment
7.2	Bold and bracket due to commitment
7.3	Bold and bracket due to commitment
7.4	Bold and bracket due to commitment
7.5	Bold and bracket due to commitment
7.6	Bold and bracket due to commitment

<b>FORM TITLE:</b> <b>DESCRIPTION OF CHANGE</b>	<b>FORM NO.</b> 1000.006C	<b>CHANGE NO.</b> 047-04-0
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1.0 PURPOSE

To provide general information and instruction in the operation of the Arkansas Nuclear One Communication System.

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

3.2 REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE:

- 3.2.1 1000.104, "Condition Reporting and Corrective Actions"

3.3 RELATED ANO PROCEDURES:

- 3.3.1 1903.061, "Communication Equipment Test"

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

- 3.4.1 0CNA099120 (P-2687) Sections: 7.1, 7.2, 7.3, 7.4, 7.5, 7.6

4.0 RESPONSIBILITY AND AUTHORITY

None

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5.0 DEFINITIONS

- 5.1 CBX (Computerized Branch Exchange) - Automated computerized telephone system utilized by AP&L
- 5.2 CNS (Computerized Notification System) - Automated computerized call/message system activated from either Control Room. 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.

6.0 LIMITS AND PRECAUTIONS

- 6.1 Use of portable two-way radios is not permitted in the following areas:
  - 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)

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7.0 INSTRUCTIONS

7.1 **[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.

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.

7.1.1 Private Calls

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

7.1.2 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.

7.1.3 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 switchhook, 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.

7.2 **[PUBLIC TELEPHONE SYSTEM]**

7.2.1 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.

7.2.2 The public telephone system can be used to access ANO and Training Center numbers by dialing 858- and the desired ANO extension. All outside incoming calls must go through the EOF Switchboard (858-6800).

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

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7.3 [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 4 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
- (4) EOF Command Room

The CNS uses twelve 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.

7.3.1 CNS Operation

- A. Upon declaration of an Emergency Class, the CNS is activated from the affected Control Room by the opposite 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.



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- 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 7.1). The message "1111" (Unit 1) or "2222" (Unit 2) will be displayed on the pager. ERO members should report as quickly as possible to their assigned facilities. 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.

7.4 **[NRC EMERGENCY TELECOMMUNICATIONS SYSTEM (ETS) OR FTS-2000]**

The FTS-2000 network 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 10 digit dialing through the FTS-2000 Network to the NRC Operations Center (NRCOC). To place a call over the FTS-2000 Network, a user must do the following:

- A. Lift the receiver on the telephone and listen for a dial tone.
- B. After receiving a dial tone, dial the first number listed on the sticker located on the telephone instrument using all 10 digits. If the first number is busy, proceed on with the second, etc. (No access codes need to be dialed. Only dial the appropriate 10 digit telephone number.)

**NOTE**

Refer to Attachment 2 to initiate repairs involving the FTS-2000 system.

7.4.1 **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 phones are located in the Unit-1 and 2 Control Rooms, the TSC and the EOF.

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7.4.2 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 instrument is a distinct ash/almond color and is identified 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.

7.4.3 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.

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7.4.4 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.

7.4.5 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.

7.4.6 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.

7.5 **[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.

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

7.6 **[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 7.6.1.B. The ANO Radio System also provides for interconnections with the OES 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.

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7.6.1 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.

<u>FREQUENCIES</u>	<u>CALL SIGNS</u>
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	Office of Emergency Services WFR 476
Channel 7	Sheriff's Frequency 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.

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**NOTE**

If the encoder fails to operate using the "IC SEND" key, use the Keypad paging method described in 7.6.1.E.2 (below) 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.

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**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.

7.6.2 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.

7.6.3 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

<u>FREQUENCIES</u>	<u>CALL SIGNS</u>
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

7.6.4 Hand-Held Radios

- A. Maintenance Portables

Two-channel 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

Four 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:

<u>FREQUENCIES</u>	<u>CALL SIGNS</u>
Channel 1 Maintenance/In-Plant Emer Teams	KF-6068
Channel 2 Operations	KF-6068
Channel 3 Offsite Monitoring	KF-6068
Channel 4 Talk Around (for Channel 3)	KF-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**

<u>FREQUENCIES</u>	<u>CALL SIGNS</u>
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



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7.6.5 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 Bravo 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 Vibra-Page feature should be used.
  - 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 Bravo 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 "1111" or "2222" is displayed, ERO members should report to their assigned facilities.
  - 6. Periodic Drills - Periodic unannounced drills shall be conducted per procedure 1903.061 "Communications Equipment Tests".

8.0 ATTACHMENTS AND FORMS

- 8.1 Attachment 1 - 10 Signals
- 8.2 Attachment 2 - "FTS-2000 System Repairs"
- 8.3 Attachment 3 - "Paging Encoder Operation - Emergency Response Groups"
- 8.4 Attachment 4 - "Responding to the Computerized Notification System (CNS)"
- 8.5 Attachment 5 - "Flowcharts for CNS Calls"

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ATTACHMENT 1

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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.

CODES

Code designations are dependent upon the receiving party and, therefore, will not be listed in this procedure.

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ATTACHMENT 2

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FTS-2000 System Repairs

Any trouble with FTS-2000 provided services are to be reported to the NRC Operations Center (NRCOC) via normal telephone system by dialing (301)951-0550. The following series of events occur:

- A. The NRCOC reports troubles to the FTS-2000 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 AT&T FTS-2000 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 FTS-2000 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 FTS-2000 portion of the service, they will so notify the THIS.
- E. The THIS will notify the NRCOC that the problem is not within the FTS-2000 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.

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ATTACHMENT 3

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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.

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ATTACHMENT 4

**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.

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ATTACHMENT 4

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 **sixty 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 reponse 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 **not** 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 sixty 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.

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ATTACHMENT 4

**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.

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ATTACHMENT 4

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 **sixty 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 **not** 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.

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Attachment 5

Flow Charts for CNS Calls

Flow Charts for CNS Calls



