

ENTERGY OPERATIONS INCORPORATED

ARKANSAS NUCLEAR ONE

Arkansas Nuclear One
Russellville, Arkansas
Date: 941125

MEMORANDUM

TO: 103
CC - NRC - WASHINGTON

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FROM: DOCUMENT CONTROL
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SUBJECT: PLANT MANUAL UPDATE: NEW REVISION TO PROCEDURE

PROCEDURE/FORM NUMBER: OP-1903.062

REV. # 13 TC # 0 PC # 0

PROCEDURE/FORM TITLE: COMMUNICATION SYS OP PROCEDURE

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PROCEDURE(S)

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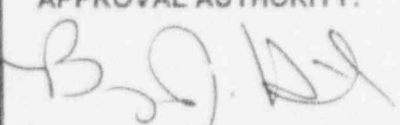
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1.0 PURPOSE

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 utilized during normal day-to-day operations and during emergencies. The Computerized Notification System (CNS) is a separate call/message 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 (OCNA118621)
- 3.1.4 IE Information Notice No. 89-19 (OCNA028926)
- 3.1.5 NRC Generic Letter No. 91-14 (OCNA099120)
- 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:

- 3.4.1 Section 11.0 (Letter OCAN098106, Item 2.C)
- 3.4.2 OCAN128211 response to IR 313/82-23; 368/82-20, Section 6.3

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 When transmitting information in the uncoded (unscrambled) mode via the radio system, the signals may be received by members of the general public. Whenever possible, especially during drills, exercises or actual emergencies, utilize the coded (scrambled) mode for all radio transmissions.
- 6.2 Use of portable two-way radios is not permitted in the following areas:
 - 6.2.1 Unit I and Unit II control rooms.
 - 6.2.2 Unit I and Unit II cable spreading rooms.
 - 6.2.3 Unit I and Unit II reactor building electrical penetration rooms.
 - 6.2.4 Unit I and Unit II computer rooms.
 - 6.2.5 Integrated Control System Room (ICS or Relay Room)
 - 6.2.6 Unit II CEDMCS Room.
 - 6.2.7 Unit II Core Protection Calculator room.
 - 6.2.8 CA-2 Hallway
 - 6.2.9 SPDS Room (Turbine Bldg. EL-386')
 - 6.2.10 CA2 (Behind door 282 & 287)
 - 6.2.11 2B63 Room (Behind door 276)
 - 6.2.12 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 simply dialing the four digit extension number of the desired AP&L telephone.

7.1.2 Paging

Dial 197 to access Gai-Tronics paging system in the plant or dial 199 to access the RERTC/EOF paging system, then initiate 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 seven digit 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. During drills, exercises, and emergencies, EOF emergency extensions CANNOT be dialed direct from outside the ANO System. All outside incoming calls must go through the EOF Switchboard (858-6800).

7.2.3 Public telephone numbers to the control rooms and technical support centers may be found 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 utilizes this system to activate the Emergency Response Organization (ERO) and other persons necessary for emergency response.

The main "Tower", or central control unit 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 1 and Unit 2 simulators
(may be interchanged for training/drills)

The CNS utilizes twelve active 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 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 Alert or higher Emergency Class, the CNS is activated from the affected Control Room by the opposite units Shift Engineer. Instructions for activation of the CNS are contained in Attachment 9 to procedure 1903.011, "Emergency Response/Notifications".
- B. Once the CNS program 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 persons badge number does not contain 4 digits, they should substitute zero's 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. In the event that the CNS is not functioning, the Shift Engineer will initiate the pager "All Call" via CBX telephone (section 6.1). The message "1111" (Unit 1) or "2222" (Unit 2) will be displayed on the pager. The ERO member should report as quickly as possible to their assigned facility. 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).

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

The FTS-2000 network is a multi-link telecommunications system utilized 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.

NOTE

NRC Red Phones and the current HPN network will be maintained for backup purposes until the FTS system at ANO is approved by the NRC.

All of the following systems will be 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.

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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.

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 in Bethesda, Maryland by dialing one of the telephone numbers already 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

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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.

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 AP&L Radio System for ANO is a secure UHF system which consists of five UHF repeaters, several multi-channel control consoles and numerous portable and vehicle radios. The radio system is usually operated in the coded (scrambled) mode, but can be operated in the uncoded mode. The ANO radio system has five sets of frequencies as described in section 6.6.1.B. The ANO Radio System also provides for interconnections with the OES and Sheriff's frequencies.

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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).

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 (Mt. Nebo)	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

*Transmission on these frequencies require "scrambler off".

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:

- a. Select correct channel on the radio console (channel 1 or 5 depending on the pager to be activated).
- b. Depress "scrambler off" switch.

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NOTE

If the paging encoder has been inactive for approximately 30 minutes, the display will go blank. To restore the display, depress "C".

- c. Enter three digit pager number into pager touch pad.
 - d. Depress "P" on the pager touch pad.
 - e. After the tone is transmitted (i.e., the "Vu" meter pegs and returns to normal), depress the transmit switch on the microphone and state the message. There is no time limit for the message. The message will be received by the pager holder until the reset bar (on the pager itself) is depressed. The person you call can hear you, but cannot talk back to you.
2. If you press the wrong code, press "C" (clear) button and start over. Do not use pencils or other sharp objects to press the buttons on the encoder.

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. Communications with Corps of Engineers personnel can be established on channel 3 in the uncoded (unscrambled) mode. 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.

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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

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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 Radios

FREQUENCIES

CALL SIGNS

Channel 1	Maint/In-Plant Emer Teams	KF-6068
Channel 2	Security	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

In addition to the Channel Selector Switch on the Operations Portables there is an additional Selector Switch marked "A" or "B". Channel A must be selected for transmissions utilizing the repeater while Channel B must be selected in order to utilize the Talk-Around channel. Channel B cannot communicate with consoles.

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 whenever 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.

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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"

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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 and completing form A2.601A, Rev 1. (Telecommunications Service Request).