

ENERGY OPERATIONS INCORPORATED

ARKANSAS NUCLEAR ONE

Arkansas Nuclear One
Russellville, Arkansas
Date: 920529

MEMORANDUM

TO: 103
NRC - WASHINGTON

FROM: DOCUMENT CONTROL
Ref Key: 5098

SUBJECT: PLANT MANUAL UPDATE: REVISION TO PROCEDURE

PROCEDURE/FORM NUMBER: OP-1903.061

REV. # 22 TC # 0 PC # 0

PROCEDURE/FORM TITLE: COMMUNICATION EQUIP TEST

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ENERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

TITLE: COMMUNICATIONS EQUIPMENT TESTS

PROC/WORK PLAN NO. 1903.061 REV. 22

EXP. DATE SAFETY-RELATED
YES NO

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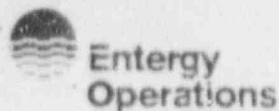
Approval Date: 5/29/92

Required Effective Date:

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ARKANSAS NUCLEAR ONE

PROC. WORK PLAN NO.

1903.061

SERIES TITLE:
EMERG PLAN
IMPLEM PROCPROCEDURE WORK PLAN TITLE:
COMMUNICATIONS EQUIPMENT TESTSPAGE: 1 of 19
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1.0 PURPOSE

The purpose of this procedure is to provide 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

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.

3.0 REFERENCES

3.1 References Used in Procedure Preparation

- 3.1.1 Emergency Plan
- 3.1.2 10CFR50, Appendix E IV.E.9.d
- 3.1.3 Memorandum ANO-87-11423, AFR 496

3.2 References Used in Conjunction with this Procedure:

- 3.2.1 None

3.3 Related ANO Procedures

- 3.3.1 1903.62, "Communications System Operating Procedure"

3.4 Regulatory correspondence containing NRC commitments which are implemented in this procedure include:

- 3.4.1 Section 7.1.4 (OCAN128010, Section III.A.2)
- 3.4.2 Section 7.1.4, OCNA118621 (1.N. 86-97)
- 3.4.3 NRC Generic Letter No. 91-14 (OCNA099120)
- 3.4.4 Test Plan for FTS-2000, Emergency Telecommunications System (ETS) Implementation

4.0 DEFINITIONS

None

5.0 RESPONSIBILITY AND AUTHORITY

- 5.1 The Emergency Planning Supervisor is responsible for reviewing applicable forms completed during communications equipment tests.



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

6.0 TEST EQUIPMENT, SPECIAL TOOLS AND SUPPLIES

6.1 The following communications equipment/systems are available for use during an emergency:

- 6.1.1 Continental Telephone system
- 6.1.2 ANO plant phone system
- 6.1.3 Gai-tronics paging system
- 6.1.4 ANO radio system
- 6.1.5 FTS-2000 (NRC Communication 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)
- 6.1.6 AP&L Microwave
- 6.1.7 Computerized Notification System

6.2 The following roster/call lists are maintained in each Control Room for use during an emergency:

- 6.2.1 Emergency Response Duty Roster
- 6.2.2 Plant Pager Assignment List (Emergency Telephone Directory)

7.0 INSTRUCTIONS

7.1 The following items shall be accomplished on a monthly basis by an Emergency Planning Coordinator or a designee and documented on Form 1903.061A, "ANO Monthly Communications Testing Record"

- 7.1.1 Verify the operability of the direct Continental Telephone lines to each Control Room.



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

- A. Unit One Control Room or Unit Two Control Room
- B. Technical Support Center
- C. Emergency Operations Facility
- D. Designated Site Vehicles for Offsite Monitoring
- E. Communications Equipment Locker
- F. Key Room
- G. Operational Support Center

NOTE

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

7.1.3 Verify the operability of the NRC-HPN phones in each one of the following locations:

- A. Technical Support Center
- B. Operational Support Center
- C. Emergency Operations Facility

7.1.4 Verify the operability of the NRC-ENS phones in the following locations:

- A. Unit One/Unit Two Control Rooms
- B. Technical Support Center
- C. Emergency Operations Facility

7.1.5 Verify the operability of the NRC-RSCPL phones in the following locations:

- A. Technical Support Center
- B. Emergency Operation Facility (Command Room)



- 7.1.6 Verify the operability of the NRC-PMCPL phones in the following locations:
- A. Technical Support Center
 - B. Emergency Operations Facility (Command Room)
- 7.1.7 Verify the operability of the NRC-MCPL phones in the following locations:
- A. Technical Support Center
 - B. Emergency Operation Facility (Command Room)
- 7.1.8 Verify the operability of the NRC-LAN circuit in the following locations:
- A. Technical Support Center (Blue phone-jack labeled "OCL")
 - B. Emergency Operations Facility (Room 234)
- 7.1.9 Verify the telephone numbers for the following groups:
- A. Arkansas Department of Health
 - B. County Warning Points

NOTE

Telephone numbers for additional offsite support groups are verified as part of the quarterly Emergency Telephone Directory Update.

- 7.1.10 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)
- 7.1.11 Verify minimum inventory of emergency communications equipment stored at the Emergency Operations Facility (EOF) by Telecommunications.
- 7.1.12 Verify the replacement of batteries in pagers used for emergency response notifications.



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COMMUNICATIONS EQUIPMENT TESTS

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7.1.13 The following communications equipment/systems do not require testing by the Emergency Planning Coordinators due to the indicated reasons:

- A. ANO plant phone system, AP&L microwave system and the Gai-tronics paging system (used daily as a part of normal plant operation).
- B. Early Warning System (tested by the State of Arkansas).

7.2 The following items shall be accomplished on a quarterly basis by an Emergency Planning Coordinator or a designee:

7.2.1 Verify the operability of assigned pagers.

NOTE

The operability of assigned pagers is demonstrated and documented routinely during performance of "Emergency Response Staffing Drill" form 1903.061E.

7.3 Communications links between the plant, federal, state and local emergency operation centers and field assessment teams shall be tested annually (this may be done as a part of the plant's annual exercise). Testing of these communications links is the responsibility of the Emergency Planning Coordinator(s). Form 1903.061B should be completed to document this test.

7.4 Form 1903.061E, "Emergency Response Staffing Drill", shall be completed at least quarterly to document that the capability exists to implement Table B-1, "Minimum Staffing Requirements", of the Emergency Plan.

8.0 ACCEPTANCE CRITERIA

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

8.2 Upon discovery of defective emergency communications equipment, a Job Request shall be initiated to document repair of the equipment. (This section does not apply to the NRC-FTS-2000 Systems. If any of these systems are inoperable, refer to Procedure 1903.62, "Communications System Operating Procedure," Attachment 3, for instructions.)



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NOTE:

Refer to Procedure 1903.10, "Emergency Action Level Classification" to determine if communications system failures require a Notification of Unusual Event.

8.2.1 The Job Request should:

- A. Provide notification of the problem to repair personnel
- B. Show the effort/material required for repair
- C. Show satisfactory performance following repair

8.3 The completed Job Request form shall be attached to the surveillance procedure and forwarded to records upon completion.

8.4 A copy of the completed Job Request shall be sent to the Work Control Center personnel for their records.

9.0 ATTACHMENTS AND FORMS

9.1 Form 1903.061A, "ANO Monthly Communications Testing Record"

9.2 Form 1903.061B, "Annual Communications Testing Record"

9.3 Form 1903.061C, "Duty Roster Notification Drill" - deleted

9.4 Form 1903.061D, "Corporate Quarterly Communications Testing Record" - deleted

9.5 Form 1903.061E, "Emergency Response Staffing Drill"

9.6 Form 1903.061F, "Emergency Response Staffing Drill Review"

1.0 COMMUNICATIONS EQUIPMENT OPERABILITY TEST

1.1 ANO Radios

1.1.1 Consoles

Location	Channels Tested	Results
ANO-1/ANO-2	1, 2, 3, 4, 5, 6, 7, 8	
OSC/EOF	1, 2, 3, 4, 5, 6	

1.1.2 Mobile

ANO Van	1, 2, 3	
ANO Pickup	1, 2, 3	
GM Car	1, 2, 3	
4WD Vehicle	1, 2, 3	

1.1.3 Portable Hand Held

EOF Emer Kit

UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	

Key Room

UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	

Communications
Equip. Locker

UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	
UNIT _____	1, 2, 3	

TSC

UNIT _____	1, 2, 3	
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1.2 Telephones

1.2.1 Unit 1 Control Room

Location	Lines Tested	Results
Key Button Phone Sta-		
NRC-ENS	NA	

1.2.2 Unit 2 Control Room

Key Button Phone Sta-		
NRC-ENS	NA	

1.2.3 Operational Support Center

Location	Lines Tested	Results
Key Button Phone Sta-		
NRC-HPN	NA	

1.2.4 Technical Support Center

20-Button Key Phone Sta-		
NRC-HPN Phone	NA	
NRC-ENS Phone	NA	
NRC-RSCPL Phone	NA	
NRC-PMCPL Phone	NA	
NRC-MCPL Phone	NA	
NRC-LAN Circuit	NA	

1.2.5 Emergency Operations Facility

20-Button Key Phone Sta-		
NRC-HPN Phone	NA	
NRC-ENS Phone	NA	
NRC-RSCPL Phone	NA	
NRC-PMCPL Phone	NA	
NRC-MCPL Phone	NA	
NRC-LAN Circuit	NA	

2.0 TELEPHONE NUMBER VERIFICATION

	Agency	Phone No.
2.1	Department of Health	
2.2	Pope County Sheriff	
2.3	Yell County Sheriff	
2.4	Johnson County Sheriff	
2.5	Logan County Sheriff	

3.0 EMERGENCY RESPONSE DUTY ROSTER/CALL LIST VERIFICATION

	List	ANO-1	ANO-2
3.1	Emergency Response Duty Roster		
3.2	Pager Assignment List		

4.0 Verify the replacement of ERO pager batteries by reviewing the Monthly ERO Pager Battery Replacement Log.

initials

5.0 Verify minimum inventory of emergency communications equipment stored at the EOF by Telecommunications.

initials



6.0 CORRECTIVE ACTION REQUIRED

PERFORMED BY _____ DATE _____

REVIEWED BY _____ DATE _____



MONTHLY ERO PAGER BATTERY REPLACEMENT LOG

Indicate battery replacement by filling in the date and your signature next to the ERO position to which the pager is assigned.

ERO Position	DATE	Replaced By
Accident Assmt. Mgr.		
Communications Liason		
Communications Mgr.		
Communicator Supv.		
Dose Assmt. Supv.		
EAL Reviewer		
Electrical Maint. Supv.		
Emergency Planning		
Engineering Mgr.		
EOF Director		
EOF Director		
EOF Director		
EOF Director		
EOF Director		
EOF HP Supv.		
EOF Maint. Coord.		
EOF Maint. Crew.		
EOF Support Supt.		
HP Supv.		
I&C Supv.		



MONTHLY ERO PAGER BATTERY REPLACEMENT LOG

Indicate battery replacement by filling in the date and your signature next to the ERO position to which the pager is assigned.

ERO Position	DATE	Replaced By
Maintenance Mgr.		
Maintenance Supt.		
Mechanical Maint. Supv.		
Nuclear Chem. Mgr.		
Offsite Mon. Supv.		
Operations Mgr.		
OSC Director		
REAM		
REAM Asst.		
RP & RW Mgr.		
Support Mgr.		
TSC Director		
TSC Director		
TSC Director		
TSC Director		
TSC Director		
TSC Support Supt.		



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

PERFORMED BY _____ DATE _____

REVIEWED BY _____ DATE _____

FORM TITLE:

ANNUAL COMMUNICATION TESTING RECORD

FORM NO.

1903.061B

REV.

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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/EOF within prescribed time frames.

2.0 SCOPE

This is a drill. Personnel are NOT required to actually respond to the site. Personnel are asked to give an estimate of the length of time that it would take for them to report onsite in the event of a actual emergency.

3.0 INSTRUCTIONS

3.1 At approximately _____ hours on _____ (date) the on-shift Communicator for Unit One/Two is instructed to initiate a staffing drill by selecting drill _____ (number and title) on the Computerized Notification System (CNS) and queuing the scenario.

3.2 Provide the information on Form 1903.061E, steps 1, 2, 6, 7A and C, to the Arkansas Department of Health. Begin and end each transmission with "This is a drill." Be prepared to authenticate.

3.2.1 Message received by: _____
Name Time

3.3 Contact the on-shift emergency response personnel listed below to verify their availability. Inform them that a drill is being conducted and no further response is necessary.

3.3.1 Health Physics Tech _____
Name Time

3.3.2 Health Physics Tech (EMT) _____
Name Time

3.3.3 Health Physics Tech (EMT) _____
Name Time

3.3.4 Nuclear Chemist (DAT) _____
Name Time

3.3.5 Nuclear Chemist _____
Name Time

3.3.6 Mech. Maint. Tech _____
Name Time

3.3.7 I&C/Elect. Maint. Tech _____
Name Time



3.4 After completion of the drill scenario, return the Computerized Notification System to standby status by exiting to the opening screen.

3.4.1 Performed by: _____
Name Time

3.5 Use reports generated by the Computerized Notification System to complete pages 3, 4, and 5.

3.6 Attach reports generated by the Computerized Notification System and forward completed forms to Emergency Planning.

PERFORMED BY: _____ DATE _____

4.0 Review by Emergency Planning.

4.1 Review the completed forms and/or the reports generated by the Computerized Notification System (CNS) to ensure that emergency response personnel can be notified of an emergency class declaration.

4.2 Review the reports generated by CNS to determine if the pagers assigned to ERO positions were utilized for notification. If an ERO position's pager was not the initial point of contact, verify that the pager is operational.

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

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

REVIEWED BY: _____ DATE _____
 (Emergency Planning Supervisor)

COMMENTS: _____



Refer to reports generated by the Computerized Notification System to obtain personnel response information.

DRILL SCENARIO START TIME: _____

Position	Individual Contacted	Time Contacted	Estimated Response Time
EOF Director			
Acc. Assmt. Mgr.			
Communications Liason			
Communicat. Mgr.			
Communicator (Not.)			
Communicator (St. Bd.)			
Dose Assmt. Supv.			
EAL Reviewer			
EOF HF Supv.			
EOF Maint. Coord.			
EOF Support Supt.			
Offsite Mon. Supv.			
REAM			
REAM Asst.			
Support Mgr.			
TSC Director			
Communicator (Not.)			
Communicator (St. Bd.)			
Communicator Supv.			
EAL Reviewer			
Engineering Mgr.			
Maintenance Mgr.			
Operations Mgr.			
RP & RW Mgr.			
TSC Support Supt.			



Postion	Individual Contacted	Time Contacted	Estimated Response Time
OSC Director			
Communicator (St. Bd.)			
Elect. Maint. Supv.			
* HP Supervisor			
I&C Supv.			
Mech. Maint. Supv.			
Maintenance Supt.			
Nuclear Chem. Mgr.			
* Emer. Rad Team			
* Emer. Rad Team			
* Emer. Rad Team			
* Emer. Rad Team			
* Emer. Rad Team			
* Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
Emer. Rad Team			
* Dose Asst. Team	On-Shift		N/A
Dose Asst. Team			
Dose Asst. Team			
Dose Asst. Team			
Dose Asst. Team			
Dose Asst. Team			
* Core Thermal Eng.			
Electrical Eng.			
Mechanical Eng.			

* This individual is required to be onsite within 30 minutes after declaration of an emergency if necessary.



Postion	Individual Contacted	Time Contacted	Estimated Response Time
* Communicator			
EAL Reviewer (Cont. Rm.)			
CEC Manager			
Emer. Med. Team Leader			
Emer. Med. Team			
Emer. Med. Team			
Emer. Med. Team			
Emer. Med. Team			
Emer. Med. Team			
Emer. Med. Team			
Emer. Med. Team			
Office Services			
EOF Maint. Crew			

* This individual is required to be onsite within 30 minutes after declaration of an emergency if necessary.



This form may be completed by Emergency Planning to be used as an aid for reviewing 1903.061E, Emergency Response Staffing Drill.

DRILL SCENARIO START TIME: _____

Position	Time Contacted	Estimated Response Time	Calculated Arrival Time
EOF Director			
Acc. Assmt. Mgr.			
Communications Mgr.			
EOF Maint. Coord.			
EOF Support Supt.			
REAM			
Support Manager			
Communicator			
=====			
TSC Director			
Engineering Mgr.			
Maintenance Mgr.			
Operations Mgr.			
RP & RW Mgr.			
=====			
OSC Director			
Elec. Maint. Supv.			
I&C Supv.			
Maint. Supt.			
Mech. Maint. Supv.			
Nuclear Chem. Mgr.			
HP Supv.			

ESTIMATED TIME OF ACTIVATION: EOF _____
 TSC _____
 OSC _____