

ENTERGY OPERATIONS INCORPORATED

ARKANSAS NUCLEAR ONE

Arkansas Nuclear One
Russellville, Arkansas
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SUBJECT: PLANT MANUAL UPDATE: NEW REVISION TO PROCEDURE

PROCEDURE/FORM NUMBER: OP-1903.011

REV. # 20 TC # 0 PC # 0

PROCEDURE/FORM TITLE: EMERGENCY RESPONSE/NOTIFICATION

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PROCEDURE(S)

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**ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE**

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TITLE: EMERGENCY RESPONSE/NOTIFICATIONS

PROC/WORK PLAN NO.

1903.011

REV.

20

EXP. DATE

N/A

SAFETY-RELATED

☒ YES ☐ NO

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IPTE ☐ YES

☒ NO

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VERIFIED BY

DATE

TIME

APPROVAL AUTHORITY:

Sherrill R. Cotton

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1.0 PURPOSE

This procedure establishes required emergency response actions for each of the four Emergency Classes. The required actions described in this procedure are for purposes of notification to offsite authorities and activation/response of appropriate portions of ANO's Emergency Response Organization.

2.0 SCOPE

This procedure is applicable to Units 1 and 2 in all modes: It does not include specific plant casualty procedures or systems operations requirements, but rather provides administrative processes only.

This procedure describes actions for events which meet the criteria for Emergency Classes and Courtesy Calls.

3.0 REFERENCES

3.1 REFERENCES USED IN PROCEDURE PREPARATION:

- 3.1.1 ANO Emergency Plan
- 3.1.2 AP&L EAL Bases Document
- 3.1.3 NUREG-0654/FEMA-REP-1, Rev. 1
- 3.1.4 10 CFR 50

3.2 REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE:

- 3.2.1 Station Directive A6.202, "Public Communications"
- 3.2.2 1000.104, "Condition Reporting and Corrective Actions"
- 3.2.3 1015.007, "Fire Brigade Organization and Responsibilities"
- 3.2.4 1043.006, "Bomb Threat"
- 3.2.5 1903.010, "Emergency Action Level Classifications"
- 3.2.6 1903.030, "Evacuation"
- 3.2.7 1903.042, "Duties of the Emergency Medical Team"
- 3.2.8 1903.043, "Duties of the Emergency Radiation Team"
- 3.2.9 1903.064, "Emergency Response Facility - Control Room"
- 3.2.10 1903.065, "Emergency Response Facility - Technical Support Center (TSC)"
- 3.2.11 1903.066, "Emergency Response Facility - Operational Support Center (OSC)"
- 3.2.12 1903.067, "Emergency Response Facility - Emergency Operations Facility"
- 3.2.13 ANO Security Plan/Security Procedures

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3.3 RELATED AND PROCEDURES:

None

3.4 REGULATORY CORRESPONDENCE CONTAINING NRC COMMITMENTS WHICH ARE IMPLEMENTED IN THIS PROCEDURE INCLUDE:

3.4.1 OCAN018306

A. Section 5.4.1

B. Section 5.5.1

3.4.2 OCAN068708

A. Attachment 6

3.4.3 OCAN068503

A. 1903.011V

B. 1903.011W

C. 1903.011X

3.4.4 1CAN047910

A. 1903.011X

3.4.5 OCAN029309 (ERDS Implementation Completion)

A. Section 6.4.1

3.4.6 OCAN089209

A. 1903.011Y

3.4.7 OCAN118307

A. Section 6.2

3.4.8 OCAN058411

A. 1903.011Y

3.4.9 OCAN128012

A. 1903.011V

3.4.10 OCAN068104

A. 1903.011V

3.4.11 OCNA108215

A. 1903.011M

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3.4.12 0CAN068320

A. Section 4.15

B. 1903.011Y

C. 1903.011Z

3.4.13 2CAN047912

A. 1903.011V

B. 1903.011W

C. 1903.011X

4.0 DEFINITIONS

4.1 Courtesy Call - A notification to the Arkansas Department of Health and follow-up notification to the NRC for conditions/events other than those constituting an Emergency Class as listed in procedure 1903.011, "Emergency Response/Notifications", Section 6.3.

4.2 Emergency Action Level - A plant or onsite condition which has exceeded pre-determined limits which would categorize the situation into one of the following four Emergency Classes:

Notification of Unusual Event

Alert

Site Area Emergency

General Emergency

4.3 Notification of Unusual Event - Unusual events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

4.4 Alert - Events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

4.5 Site Area Emergency - Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near the site boundary.

4.6 General Emergency - Events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with the potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off site for more than the immediate site area.

4.7 Emergency Planning Zone (EPZ) - The EPZ considered by this procedure is the inhalation zone - that area within approximately a 10 mile radius of ANO.

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- 4.8 Onsite - The area within the Exclusion Area Boundary.
- 4.9 Offsite - Those areas not covered by Section 4.8.
- 4.10 Initial Response Staff (IRS) - The emergency organization primarily composed of plant personnel which must be able to augment the onsite plant personnel in accordance with Table B-1 of the Emergency Plan.
- 4.11 Emergency Response Organization (ERO) - The organization which is composed of the Initial Response Staff (IRS), the EOF staff, the TSC staff, the OSC staff, and the Emergency Team members. It has the capability to provide manpower and other resources necessary for immediate and long-term response to an emergency situation.
- 4.12 Technical Support Center - The location within the ANO Plant Administration Building equipped with instrumentation and communication systems and facilities useful in monitoring the course of an accident.
- 4.13 Operational Support Center - Emergency response center within the ANO maintenance facility where support is coordinated for the following functions: Onsite Radiological Monitoring, Maintenance, Nuclear Chemistry, Emergency Medical Support and Fire Fighting Support. The OSC serves as the assembly point and briefing area for recovery/reentry teams and is located in the maintenance facility.
- 4.14 Emergency Operations Facility (EOF) - A near-site emergency response facility located approximately 0.65 miles northeast of the reactor buildings (the ANO Training Center).
- 4.15 Emergency Direction and Control - Overall direction of facility response which must include the non-delegable responsibilities for the decision to notify and to recommend protective actions to Arkansas Department of Health personnel and other authorities responsible for offsite emergency measures. With activation of the EOF, the EOF Director typically assumes the responsibility for Emergency Direction and Control. The management of on-site facility activities to mitigate accident consequences remains with the TSC Director in the Technical Support Center. The Shift Superintendent retains responsibility for the Control Room and plant systems operation.
- 4.16 Emergency Response Data System (ERDS) - A channel over which the raw reactor parametric data, i.e., SPDS information, is transmitted from the site to the NRC Operations Center, (NRCOC). This system is activated from the RDACS terminal located in the Control Room and in the Technical Support Center and should be activated within one hour of an ALERT or higher emergency class declaration.

5.0 RESPONSIBILITY AND AUTHORITY

5.1 SHIFT SUPERINTENDENT

- 5.1.1 Has responsibility for implementation of response actions described in this procedure until relieved by the Technical Support Center Director or Emergency Operations Facility Director.

5.2 Technical Support Center Director (TSC Director)

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5.2.1 Upon assumption of responsibility for Emergency Direction and Control the TSC Director is responsible for implementation of the response actions described in this procedure.

5.3 Emergency Operations Facility Director (EOF Director)

5.3.1 Upon assumption of responsibility for Emergency Direction and Control the Emergency Operations Facility Director is responsible for implementation of the response actions described in this procedure.

5.4 Communicators

5.4.1 Communicators are responsible for performing emergency response notifications/communications.

5.5 Emergency Response Organization (ERO)

5.5.1 Members of the ERO are responsible to ensure completion of notifications as denoted on Attachment 5, "Alternate ERO Notification Scheme" if the ERO cannot be activated by the Computerized Notification System.

6.0 INSTRUCTIONS

6.1 EMERGENCY CLASSIFICATION AND NOTIFICATIONS

6.1.1 Implement the appropriate sections of this procedure whenever an emergency classification has been declared, escalated, or de-escalated as per 1903.010, "Emergency Action Level Classifications".

NOTE

Upon loss of off-site power, Unit 2 would have to initialize its Notifications from the Unit 1 Terminal.

- A. For a Notification of Unusual Event, perform the actions as described in Attachment 1.
- B. For an Alert, perform the actions as described in Attachment 2.
- C. For a Site Area Emergency, perform the actions as described in Attachment 3.
- D. For a General Emergency, perform the actions as described in Attachment 4.

6.2. PROTECTIVE ACTION RECOMMENDATIONS (PARs)

6.2.1 The Shift Superintendent shall be responsible for issuing PARs to offsite authorities until relieved of Emergency Direction and Control by the TSC Director/EOF Director. The Shift Superintendent should rely on Nuclear Chemistry for the formulation of PARs based on radiological conditions and the Operations staff for the formulation of PARs based on plant conditions.

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6.2.2 The TSC Director, after assuming Emergency Direction and Control, is responsible for issuing PARs to offsite authorities until relieved by the EOF Director. The TSC Director should rely on the REAM for the formulation of PARs based on radiological conditions and the Operations/TSC staffs for the formulation of PARs based on plant conditions.

6.2.3 The EOF Director, after assuming Emergency Direction and Control, is responsible for issuing PARs to offsite authorities. The EOF Director should rely on the REAM for the formulation of PARs based on radiological conditions and the TSC Director for the formulation of PARs based on plant conditions.

6.3 COURTESY CALLS

6.3.1 Courtesy Calls - A Memorandum of Understanding exists between ANO and the STATE OF ARKANSAS whereby ANO has agreed to notify the STATE OF ARKANSAS for the following non-Emergency Class events.

- A. Any event or situation which involves or may involve the unplanned off site release of radioactive material.
- B. Any situation which involves a reactor trip from power (This does not include a pre-planned shutdown).
- C. Any event for which a news release is planned or notification to other government agencies has been or will be made.
 1. Notifications made to the Ark. Dept. of Health as a result of notifications to other government agencies, should be limited to those events or situations that potentially would, or may, be of interest to the media or have a public health impact. (Refer to Station Directive A6.202, "Public Communications", Attachment 1 for examples of events of potential public interest).

This notification should be made as soon as practicable following the event but no later than 4 hours following the event. A follow-up notification to the NRC is required immediately after notifying the Ark. Dept. of Health. These notifications should be made utilizing form 1903.011Y, "Emergency Class Notifications, Initial Message" and 1903.011V, Section 4, "Courtesy Calls".

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6.4 EMERGENCY RESPONSE DATA SYSTEM (ERDS)

6.4.1 The ERDS system is activated within one hour of an ALERT or higher emergency class classification. ERDS may be activated using the RDACS computer terminals located in both of the Control Rooms or in the Technical Support Center.

- A. On the RDACS terminal, exit System Status Screen (F10).
- B. Select option 9 - ERDS subsystem on the Main Menu.
- C. To start ERDS on Unit 1, select option 1.
- D. To start ERDS on Unit 2, select option 3.
- E. When emergency is over, select option 2 to stop ERDS on Unit 1, or select option 4 to stop ERDS on Unit 2.

7.0 ATTACHMENTS AND FORMS

- 7.1 Attachment 1 - Notification of Unusual Event
- 7.2 Attachment 2 - Alert
- 7.3 Attachment 3 - Site Area Emergency
- 7.4 Attachment 4 - General Emergency
- 7.5 Attachment 5 - Alternate ERO Notification Scheme
- 7.6 Attachment 6 - Protective Action Recommendations (PAR) for General Emergency
- 7.7 Attachment 7 - Core Fuel Damage Assessment, Unit 1
- 7.8 Attachment 8 - Core Fuel Damage Assessment, Unit 2
- 7.9 Attachment 9 - CNS Instructions
- 7.10 Attachment 10 - Emergency Class Notification Instructions
- 7.11 Form 1903.011A - NUE Emergency Direction and Control Checklist - Deleted
- 7.12 Form 1903.011B - NUE Notification Checklist Deleted
- 7.13 Form 1903.011C - Alert Emergency Direction and Control Checklist Deleted
- 7.14 Form 1903.011D - Alert Notification Checklist Deleted
- 7.15 Form 1903.011E - SAE Emergency Direction and Control Checklist - Deleted
- 7.16 Form 1903.011F - SAE Notification Checklist - Deleted
- 7.17 Form 1903.011G - GE Emergency Direction and Control Checklist - Deleted

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- 7.18 Form 1903.011H - GE Notification Checklist - Deleted
- 7.19 Form 1903.011I - Emergency Class Notification - Deleted
- 7.20 Form 1903.011J - NUE Emergency Direction and Control Checklist, Shift Superintendent
- 7.21 Form 1903.011K - NUE Direction and Control Checklist, TSC Director
- 7.22 Form 1903.011L - NUE Emergency Direction and Control Checklist, EOF Director
- 7.23 Form 1903.011M - Alert Emergency Direction and Control Checklist, Shift Superintendent
- 7.24 Form 1903.011N - Alert Emergency Direction and Control Checklist, TSC Director
- 7.25 Form 1903.011O - Alert Emergency Direction and Control Checklist, EOF Director
- 7.26 Form 1903.011P - SAE Emergency Direction and Control Checklist, Shift Superintendent
- 7.27 Form 1903.011Q - SAE Emergency Direction and Control Checklist, TSC Director
- 7.28 Form 1903.011R - SAE Emergency Direction and Control Checklist, EOF Director
- 7.29 Form 1903.011S - GE Emergency Direction and Control Checklist, Shift Superintendent
- 7.30 Form 1903.011T - GE Emergency Direction and Control Checklist, TSC Director
- 7.31 Form 1903.011U - GE Emergency Direction and Control Checklist, EOF Director
- 7.32 Form 1903.011V - Notification Checklist for the Control Room
- 7.33 Form 1903.011W - Notification Checklist for the TSC
- 7.34 Form 1903.011X - Notification Checklist for the EOF
- 7.35 Form 1903.011Y - Emergency Class Notification, Initial Message
- 7.36 Form 1903.011Z - Emergency Class Notification, Update\Follow-up Message

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ATTACHMENT 1

NOTIFICATION OF UNUSUAL EVENT

Upon declaration of a Notification of Unusual Event, the person with the responsibility for Emergency Direction and Control shall:

- complete the appropriate Emergency Direction and Control Checklist indicated below for your position (i.e. SS, TSC Director, or EOF Director). Any steps that are not appropriate for the event may be marked 'Not Applicable' (NA);
- issue appropriate offsite protective action recommendations;
- ensure that notifications are completed in accordance with the required time limits.

At the termination of the event, the Shift Superintendent/TSC Director/EOF Director should forward all forms and other pertinent documents to Emergency Planning.

Forms used for NUE notification and response are as follows:

Shift Superintendent:

Form 1903.011J, "NUE Emergency Direction and Control Checklist, Shift Superintendent"

Form 1903.011V, "Notification Checklist for the Control Room"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

TSC Director:

Form 1903.011K, "NUE Emergency Direction and Control Checklist, TSC Director"

Form 1903.011W, "Notification Checklist for the TSC"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

EOF Director:

Form 1903.011L, "NUE Emergency Direction and Control Checklist, EOF Director"

Form 1903.011X, "Notification Checklist for the EOF"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

This form is intended to be used by the Shift Superintendent when a Notification of Unusual Event has been declared and he has the responsibility for Emergency Direction and Control.

1. Notification of Unusual Event declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Notification of Unusual Event: EAL No. _____ Description: _____

3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011V, "Notification Checklist for the Control Room".

3.1 Assign additional personnel to assist as necessary.

4. If on-site personnel hazards exist, direct implementation of protective actions as necessary.

4.1 If a localized evacuation will be performed, refer to procedure 1903.030, "Evacuation".

5. If a radiological release is involved, direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

6. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic. (Examples of this include security situations in which onsite/offsite personnel are directed to the EOF, radiological releases which prohibit entry to the site via either guard station, etc.)

7. Refer to procedure 1903.064, "Emergency Response Facility - Control Room", Position Guide A, for additional responsibilities.

8. Direct the Shift Engineer\Shift Technical Advisor to Control Room (if necessary).

9. Determine which of the following Initial Response Staff groups are needed to respond immediately to this emergency.

FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011J	REV. 20
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9.1 Indicate which IRS groups should be contacted by the Communicator.

- _____ Operations Support
- _____ Notification Communicators
- _____ Onshift HP Techs
- _____ Offshift HP Techs
- _____ Nuclear Chem. (Dose Asmt.)
- _____ I&C Maint.
- _____ Electrical Maint.
- _____ Mechanical Maint.
- _____ Electrical Engineering
- _____ Mechanical Engineering
- _____ Core Thermal Engineering
- _____ Security
- _____ Fire Brigade
- _____ Medical Team

9.2 Direct the Communicator to contact the above indicated IRS groups. _____ /

10. At the termination of the event, provide verbal summaries to the following:

10.1 Nuclear Regulatory Commission (NRC) _____ /

10.2 Arkansas Department of Health (ADH) _____ /

10.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". _____ /

Performed by : _____
Shift Superintendent

FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011J	REV. 20
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This form is intended to be used by the TSC DIRECTOR when a Notification of Unusual Event has been declared and he has the responsibility for Emergency Direction and Control.

1. Notification of Unusual Event declared:

Initial/Time

2. Unit _____ Time _____ Date _____
 Conditions warranting declaration of an Notification of Unusual
 Event: EAL No. _____ Description: _____

3. Direct the communicator to initiate the notifications specified on
 Form 1903.011W, "Notification Checklist for the TSC".

3.1 Assign additional personnel to assist as necessary.

4. If onsite personnel hazards exist, direct implementation of
 protective actions as necessary.

4.1 If a localized evacuation will be performed, refer to
 procedure 1903.030, "Evacuation".

4.1.1 Direct the Shift Superintendent to assist, as
 necessary, (i.e. sounding the evacuation alarm and
 making the announcement).

5. If a radiological release is involved, direct Dose Assessment
 personnel to implement procedure 1904.002, "Offsite Dose Projection
 - RDACS Computer Method".

6. If an approach route to the plant site should be avoided, instruct
 Security to direct incoming traffic.

7. Refer to procedure 1903.065, "Emergency Response Facility -
 Technical Support Center", Position Guide E, for additional
 responsibilities.

8. At the termination of the event, provide verbal summaries to the
 following:

8.1 Nuclear Regulatory Commission (NRC)

8.2 Arkansas Department of Health (ADH)

8.2.1 Direct the Communicator to transmit the event
 termination information to ADH using Form 1903.011Z,
 "Emergency Class Notification - Update\Follow-up
 Message".

Performed by : _____
 Technical Support Center Director

FORM TITLE:

NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

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This form is intended to be used by the EOF DIRECTOR when a Notification of Unusual Event has been declared and he has the responsibility for Emergency Direction and Control.

1. Notification of Unusual Event declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Notification of Unusual Event: EAL No. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011X, "Notification Checklist for the EOF." _____
3.1 Assign additional personnel to assist as necessary.
4. Inform the TSC Director (or the Shift Superintendent if the TSC Director is not available) of the NUE declaration. _____
5. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method". _____
6. Refer to procedure 1903.067, "Emergency Response Facility - Emergency Operations Facility", Position Guide E, for additional responsibilities. _____
7. At the termination of the event, provide verbal summaries to the following:
- 7.1 Nuclear Regulatory Commission (NRC) _____
- 7.2 Arkansas Department of Health (ADH) _____
- 7.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". _____

Performed by : _____
Emergency Operations Facility Director

FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR	FORM NO. 1903.011L	REV. 20
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ATTACHMENT 2

ALERT

Upon declaration of an Alert, the person with the responsibility for Emergency Direction and Control shall:

- complete the appropriate Emergency Direction and Control Checklist indicated below for your position (i.e. SS, TSC Director, or EOF Director). Any steps that are not appropriate for the event may be marked 'Not Applicable' (NA);
- issue appropriate offsite protective action recommendations;
- ensure that notifications are completed in accordance with the required time limits.

At the termination of the event, the Shift Superintendent/TSC Director/EOF Director should forward all forms and other pertinent documents to Emergency Planning.

Forms used for Alert notification and response are as follows:

Shift Superintendent:

Form 1903.011M, "Alert Emergency Direction and Control Checklist, Shift Superintendent"

Form 1903.011V, "Notification Checklist for the Control Room"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

1903.011, Att. 5, Alternate ERO Notification Scheme

TSC Director:

Form 1903.011N, "Alert Emergency Direction and Control Checklist, TSC Director"

Form 1903.011W, "Notification Checklist for the TSC"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

EOF Director:

Form 1903.011O, "Alert Emergency Direction and Control Checklist, EOF Director"

Form 1903.011X, "Notification Checklist for the EOF"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

This form is intended to be used by the SHIFT SUPERINTENDENT when an Alert has been declared and he has the responsibility for Emergency Direction and Control.

1. Alert declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Alert:
CAL No. _____ Description: _____

3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011V, "Notification Checklist for the Control Room".

3.1 Assign additional personnel to assist as necessary.

4. Make the following announcement over the plant paging system (dial 197):

"Attention all personnel. Attention all personnel. An Alert Emergency Class has been declared on Unit _____ (One\Two). Emergency response personnel report to your designated assembly areas. All other personnel continue normal activities unless instructed otherwise."

4.1 Make the above announcement over the EOF Public Address System (dial 199 and pause approx. 15 sec.).

5. If on-site personnel hazards exits, direct implementation of protective actions as necessary.

5.1 If a localized evacuation will be performed, refer to procedure 1903.030, "Evacuation".

6. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic. (Examples of this include security situations in which onsite/offsite personnel are directed to the EOF, radiological releases which prohibit entry to the site via either guard station, etc.)

FORM TITLE:

**ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT
SUPERINTENDENT**

FORM NO.

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7. Determine which of the following Initial Response Staff groups are / needed to respond immediately to this emergency.
- 7.1 Indicate which IRS groups should be contacted by the Communicator.
- Operations Support
 - Notification Communicators
 - Onshift HP Techs
 - Offshift HP Techs
 - Nuclear Chem. (Dose Asmt.)
 - I&C Maint.
 - Electrical Maint.
 - Mechanical Maint.
 - Electrical Engineering
 - Mechanical Engineering
 - Core Thermal Engineering
 - Security
 - Fire Brigade
 - Medical Team
- 7.2 Direct the Communicator to contact the above indicated IRS groups. /
8. If a radiological release is involved, direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method". /
9. Direct the communicator to activate the Emergency Response Data System (ERDS) within one hour of an ALERT or higher emergency class declaration, in accordance with Section 6.4 of this procedure. /
10. Refer to procedure 1903.064, "Emergency Response Facility - Control Room", Position Guide A, for additional responsibilities. /

FORM TITLE: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011M	REV. 20
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11. At the termination of the event, provide verbal summaries to the following:

11.1 Nuclear Regulatory Commission (NRC) _____ /

11.2 Arkansas Department of Health (ADH) _____ /

11.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". _____ /

Performed by : _____
Shift Superintendent

FORM TITLE	FORM NO.	REV.
ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	1903.011M	20

This form is intended to be used by the TSC DIRECTOR when an Alert has been declared and he has the responsibility for Emergency Direction and Control

1. Alert declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Alert:

EAL No. _____ Description: _____

3. Direct the communicator to initiate the notifications specified on Form 1903.011W, "Notification Checklist for the TSC".

3.1 Assign additional personnel to assist as necessary.

4. Make the following announcement over the plant paging system (dial 197):

"Attention all personnel. Attention all personnel. An Alert Emergency Class has been declared on Unit _____ (One\Two). Emergency response personnel report to your designated assembly areas. All other personnel continue normal activities unless instructed otherwise."

4.1 Make the above announcement over the EOF Public Address System (dial 199 and pause approx. 15 sec.).

5. If onsite personnel hazards exist, direct implementation of protective actions as necessary.

5.1 If a localized evacuation will be performed, refer to procedure 1903.030, "Evacuation".

5.1.1 Direct the Shift Superintendent to assist, as necessary (i.e. sounding the evacuation alarm and making the announcement).

6. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

7. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic.

8. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected units Control Room.

FORM TITLE: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR	FORM NO. 1903.011N	REV. 20
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9. Refer to procedure 1903.065, "Emergency Response Facility - Technical Support Center", Position Guide E, for additional responsibilities.
10. At the termination of the event, provide verbal summaries to the following:
 - 10.1 Nuclear Regulatory Commission (NRC)
 - 10.2 Arkansas Department of Health (ADH)
 - 10.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message".

Performed by : Technical Support Center Director

FORM TITLE:	FORM NO.	REV.
ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR	1903.011N	20

This form is intended to be used by the EOF DIRECTOR when an Alert has been declared and he has the responsibility for Emergency Direction and Control

1. Alert declared: Unit _____ Time _____ Date _____

Initial/Time

2. Conditions warranting declaration of an Alert:

EAL No. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011X, "Notification Checklist for the EOF".

3.1 Assign additional personnel to assist as necessary.

4. Make the following announcement over the plant paging system (dial 197 and pause approx. 15 sec.):

"Attention all personnel. Attention all personnel. An Alert Emergency Class has been declared on Unit _____ (One/Two). Emergency response personnel report to your designated assembly areas. All other personnel continue normal activities unless instructed otherwise."

4.1 Make the above announcement over the EOF Public Address System (dial 199).

5. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

6. Refer to procedure 1903.067, "Emergency Response Facility - Emergency Operations Facility", Position Guide C, for additional responsibilities.

7. At the termination of the event, provide verbal summaries to the following:

7.1 Nuclear Regulatory Commission (NRC)

7.2 Arkansas Department of Health (ADH)

7.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update/Follow-up Message".

8. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected units Control Room.

Performed by : _____
Emergency Operations Facility Director

FORM TITLE: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR	FORM NO. 1903.0110	REV. 20
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PROC./WORK PLAN NO. 1903.011	PROCEDURE/WORK PLAN TITLE: EMERGENCY RESPONSE/NOTIFICATIONS	PAGE: 21 of 84 REV: 20 CHANGE:
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ATTACHMENT 3

Page 1 of 2

SITE AREA EMERGENCY

Upon declaration of a Site Area Emergency, the person with the responsibility for Emergency Direction and Control shall:

- complete the appropriate Emergency Direction and Control Checklist indicated below for your position (i.e. SS, TSC Director, or EOF Director). Any steps that are not appropriate for the event may be marked 'Not Applicable' (NA);
- issue appropriate offsite protective action recommendations;
- ensure that notifications are completed in accordance with the required time limits.

At the termination of the event, the Shift Superintendent/TSC Director/EOF Director should forward all forms and other pertinent documents to Emergency Planning.

Forms used for Site Area Emergency notification and response are as follows:

Shift Superintendent:

Form 1903.011P, "SAE Emergency Direction and Control Checklist, Shift Superintendent"

Form 1903.011V, "Notification Checklist for the Control Room"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

Form 1903.030B, "Plant Evacuation Checklist"

1903.011, Att. 5, Alternate ERO Notification Scheme

TSC Director:

Form 1903.011Q, "SAE Emergency Direction and Control Checklist, TSC Director"

Form 1903.011W, "Notification Checklist for the TSC"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

Form 1903.030B, "Plant Evacuation Checklist"

PROC./WORK PLAN NO. 1903.011	PROCEDURE/WORK PLAN TITLE: EMERGENCY RESPONSE/NOTIFICATIONS	PAGE: 22 of 84 REV: 20 CHANGE:
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ATTACHMENT 3

Page 2 of 2

SITE AREA EMERGENCY

EOF Director:

Form 1903.011R, "SAE Emergency Direction and Control Checklist, EOF Director"

Form 1903.011X, "Notification Checklist for the EOF"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

Page 1 of 2

This form is intended to be used by the SHIFT SUPERINTENDENT when a Site Area Emergency has been declared and he has the responsibility for Emergency Direction and Control.

1. Site Area Emergency declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of a Site Area Emergency:

EAL No. _____ Description: _____

3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011V, "Notification Checklist for the Control Room".

3.1 Assign additional personnel to assist as necessary.

4. Determine if a plant evacuation will be performed. Refer to Form 1903.030B, "Plant Evacuation Checklist".

5. If on-site personnel hazards exist, direct implementation of protective actions as necessary.

5.1 If a localized evacuation will be performed, refer to procedure 1903.030, "Evacuation".

6. If a radiological release is involved, direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

7. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic. (Examples of this include security situations in which onsite/offsite personnel are directed to the EOF, radiological releases which prohibit entry to the site via either guard station, etc.)

8. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, in accordance with Section 6.4 of this procedure.

9. Determine which of the following Initial Response Staff groups are needed to respond immediately to this emergency.

FORM TITLE: SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011P	REV. 20
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- 9.1 Indicate which IRS groups should be contacted by the Communicator. /

☐ Operations Support
☐ Notification Communicators
☐ Onshift HP Techs
☐ Offshift HP Techs
☐ Nuclear Chem. (Dose Asmt.)
☐ I&C Maint.
☐ Electrical Maint.
☐ Mechanical Maint.
☐ Electrical Engineering
☐ Mechanical Engineering
☐ Core Thermal Engineering
☐ Security
☐ Fire Brigade
☐ Medical Team

- 9.2 Direct the Communicator to contact the above indicated IRS groups. /

10. Refer to procedure 1903.064, "Emergency Response Facility - Control Room", Position Guide A, for additional responsibilities. /

11. At the termination of the event, provide verbal summaries to the following:

11.1 Nuclear Regulatory Commission (NRC) /

11.2 Arkansas Department of Health (ADH) /

11.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". /

Performed by : _____
Shift Superintendent

FORM TITLE: SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011P	REV. 20
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This form is intended to be used by the TSC DIRECTOR when a Site Area Emergency has been declared and he has the responsibility for Emergency Direction and Control.

1. Site Area Emergency declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of a Site Area Emergency:
EAL No. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011W, "Notification Checklist for the TSC".

3.1 Assign additional personnel to assist as necessary.

4. Determine if a plant evacuation will be performed. Refer to Form 1903.030B, "Plant Evacuation Checklist".

5. If on-site personnel hazards exist, direct implementation of protective actions as necessary.

5.1 If a localized evacuation will be performed, refer to procedure 1903.030, "Evacuation".

5.1.1 Direct the Shift Superintendent to assist, as necessary (i.e. sounding the evacuation alarm and making the announcement).

6. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

7. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic.

8. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected units Control Room.

9. Refer to procedure 1903.065, "Emergency Response Facility - Technical Support Center", Position Guide E, for additional responsibilities.

FORM TITLE: SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR	FORM NO. 1903.011Q	REV. 20
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10. At the termination of the event, provide verbal summaries to the following:

10.1 Nuclear Regulatory Commission (NRC) _____/

10.2 Arkansas Department of Health (ADH) _____/

10.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". _____/

Performed by : _____
Technical Support Center Director

FORM TITLE:

SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011Q

REV.

20

Page 1 of 1

This form is intended to be used by the EOF DIRECTOR when a Site Area Emergency has been declared and he has the responsibility for Emergency Direction and Control.

1. Site Area Emergency declared: Unit _____ Time _____ Date _____

Initial/Time

2. Conditions warranting declaration of a Site Area Emergency:
EAL NO. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011X, "Notification Checklist for the EOF."

3.1 Assign additional personnel to assist as necessary.

NOTE

If so directed by 1903.030, a plant evacuation will be initiated by the TSC Director (or the Shift Superintendent if the TSC Director is not available).

4. Direct the TSC Director (or the Shift Superintendent if the TSC Director is not available) to determine if an evacuation is advisable per Form 1903.030B, "Plant Evacuation Checklist", and perform an evacuation if it is advisable.
5. Announce emergency class declaration to the EOF staff.
6. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
7. Refer to procedure 1903.067, "Emergency Response Facility - Emergency Operations Facility", Position Guide E, for additional responsibilities.
8. At the termination of the event, provide verbal summaries to the following:
- 8.1 Nuclear Regulatory Commission (NRC)
- 8.2 Arkansas Department of Health (ADH)
- 8.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update/Follow-up Message".
9. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected unit's control room.

Performed by : _____
Emergency Operations Facility Director

FORM TITLE:

SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR

FORM NO.

1903.011R

REV.

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ATTACHMENT 4

Page 1 of 2

GENERAL EMERGENCY

Upon declaration of a General Emergency, the person with the responsibility for Emergency Direction and Control shall:

- complete the appropriate Emergency Direction and Control Checklist indicated below for your position (i.e. SS, TSC Director, or EOF Director). Any steps that are not appropriate for the event may be marked 'Not Applicable' (NA);
- issue appropriate offsite protective action recommendations;
- ensure that notifications are completed in accordance with the required time limits.

At the termination of the event, the Shift Superintendent/TSC Director/EOF Director should forward all forms and other pertinent documents to Emergency Planning.

Forms used for General Emergency notification and response are as follows:

Shift Superintendent:

- Form 1903.011S, "GE Emergency Direction and Control Checklist, Shift Superintendent"
- Form 1903.011V, "Notification Checklist for the Control Room"
- Form 1903.011Y, "Emergency Class Notification, Initial Message"
- Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"
- Form 1903.030B, "Plant Evacuation Checklist"
- 1903.011, Att. 5, "Alternate ERO Notification Scheme"
- 1903.011, Att. 6, "Protective Action Recommendations (PAR) for General Emergency"
- 1903.011, Att. 7, "Core Fuel Damage Assessment, Unit 1"
- 1903.011, Att. 8, "Core Fuel Damage Assessment, Unit 2"

TSC Director:

- Form 1903.011T, "GE Emergency Direction and Control Checklist, TSC Director"
- Form 1903.011W, "Notification Checklist for the TSC"
- Form 1903.011Y, "Emergency Class Notification, Initial Message"
- Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

PROC./WORK PLAN NO. 1903.011	PROCEDURE/WORK PLAN TITLE: EMERGENCY RESPONSE/NOTIFICATIONS	PAGE: 29 of 84 REV: 20 CHANGE:
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ATTACHMENT 4
GENERAL EMERGENCY

Page 2 of 2

Form 1903.030B, "Plant Evacuation Checklist"

1903.011, Att. 6, "Protective Action Recommendations (PAR)
for General Emergency"

1903.011, Att. 7, "Core Fuel Damage Assessment, Unit 1"

1903.011, Att. 8, "Core Fuel Damage Assessment, Unit 2"

EOF Director:

Form 1903.011U, "GE Emergency Direction and Control Checklist, EOF Director"

Form 1903.011X, "Notification Checklist for the EOF"

Form 1903.011Y, "Emergency Class Notification, Initial Message"

Form 1903.011Z, "Emergency Class Notification, Update\Follow-up Message"

1903.011, Att. 6, "Protective Action Recommendations (PAR) for General
Emergency"

1903.011, Att. 7, "Core Fuel Damage Assessment, Unit 1"

1903.011, Att. 8, "Core Fuel Damage Assessment, Unit 2"

This form is intended to be used by the SHIFT SUPERINTENDENT when a General Emergency has been declared and he has the responsibility for emergency Direction and Control.

1. General Emergency declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of a General Emergency:
EAL No. _____ Description: _____

_____/

3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011V, "Notification Checklist for the Control Room".

_____/

3.1 Assign additional personnel to assist as necessary.

4. Determine if a plant evacuation will be performed. Refer to Form 1903.030B, "Plant Evacuation Checklist".

_____/

5. If on-site personnel hazards exist, direct implementation of protective actions as necessary.

_____/

5.1 Refer to procedure 1903.030, "Evacuation", if a localized evacuation will be performed.

6. Determine the appropriate Protective Action Recommendation using Attachment 6 "Protective Action Recommendations (PAR) for General Emergency".

_____/

PAR No. _____

7. If a radiological release is involved, direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

_____/

8. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic. (Examples of this include security situations in which onsite/offsite personnel are directed to the EOF, radiological releases which prohibit entry to the site via either guard station, etc.)

_____/

9. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, in accordance with Section 6.4 of this procedure.

FORM TITLE: GE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011S	REV. 20
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10. Determine which of the following Initial Response Staff groups are _____/ needed to respond immediately to this emergency.

10.1 Indicate which IRS groups should be contacted by the Communicator.

- _____ Operations Support
- _____ Notification Communicators
- _____ Onshift HP Techs
- _____ Offshift HP Techs
- _____ Nuclear Chem. (Dose Asmt.)
- _____ I&C Maint.
- _____ Electrical Maint.
- _____ Mechanical Maint.
- _____ Electrical Engineering
- _____ Mechanical Engineering
- _____ Core Thermal Engineering
- _____ Security
- _____ Fire Brigade
- _____ Medical Team

10.2 Direct the Communicator to contact the above indicated IRS _____/ groups.

11. Refer to procedure 1903.064, "Emergency Response Facility - Control _____/ Room", Position Guide A, for additional responsibilities.

12. At the termination of the event, provide verbal summaries to the following:

12.1 Nuclear Regulatory Commission (NRC) _____/

12.2 Arkansas Department of Health (ADH) _____/

FORM TITLE: GE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011S	REV. 20
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12.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.011Z, "Emergency Class Notification - Update\Follow-up Message". /

Performed by : _____
Shift Superintendent

FORM TITLE: GE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT	FORM NO. 1903.011S	REV. 20
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This form is intended to be used by the TSC DIRECTOR when a General Emergency has been declared and he has the responsibility for Emergency Direction and Control.

1. General Emergency declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of a General Emergency:
EAL No. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011W, "Notification Checklist for the TSC".

3.1 Assign additional personnel to assist as necessary.

4. Determine if a plant evacuation will be performed. Refer to Form 1903.030B, "Plant Evacuation Checklist".

5. If on-site personnel hazards exist, direct implementation of protective actions as necessary.

5.1 Refer to procedure 1903.030, "Evacuation", if a localized evacuation will be performed.

5.1.1 Direct the Shift Superintendent to assist, as necessary (i.e. with sounding the evacuation alarm and making the announcement).

6. Determine the appropriate Protective Action Recommendation using Attachment 6 "Protective Action Recommendations (PAR) for General Emergency".

PAR No. _____

7. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

8. If an approach route to the plant site should be avoided, instruct Security to direct incoming traffic.

9. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected units Control Room.

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011T

REV.

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10. Refer to procedure 1903.065, " Emergency Response Facility - Technical Support Center", Position Guide E, for additional responsibilities.
11. At the termination of the event, provide verbal summaries to the following:
 - 11.1 Nuclear Regulatory Commission (NRC)
 - 11.2 Arkansas Department of Health (ADH)
 - 11.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.0112, "Emergency Class Notification - Update\Follow-up Message".

Performed by : Technical Support Center Director

FORM TITLE: GE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR	FORM NO. 1903.011T	REV. 20
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This form is intended to be used by the EOF DIRECTOR when a General Emergency has been declared and he has the responsibility for Emergency Direction and Control.

1. General Emergency declared:

Initial/Time

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of a General Emergency:

EAL No. _____ Description: _____

3. Direct the Communicator to initiate the notifications specified on Form 1903.011X, "Notification Checklist for the EOF".

3.1 Assign additional personnel to assist as necessary.

NOTE

If so directed by 1903.030, a plant evacuation will be initiated by the TSC Director (or the Shift Superintendent if the TSC Director is not available).

4. Direct the TSC Director (or the Shift Superintendent if the TSC Director is not available) to determine if an evacuation is advisable per Form 1903.030B, "Plant Evacuation Checklist", and perform an evacuation if it is advisable.
5. Determine the appropriate Protective Action Recommendation using Attachment 6 "Protective Action Recommendations (PAR) for General Emergency".
- PAR No. _____ REAM Review: _____
6. Announce emergency class declaration to the EOF staff.
7. If a radiological release is involved, direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
8. Refer to procedure 1903.067 "Emergency Response Facility - Emergency Operations Facility", Position Guide C, for additional responsibilities.
9. Ensure that the Emergency Response Data System (ERDS) was activated within one hour of an ALERT or higher emergency class declaration, by contacting the affected units Control Room.

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR

FORM NO.

1903.011U

REV.

20

10. At the termination of the event, provide verbal summaries to the following:

10.1 Nuclear Regulatory Commission (NRC)

_____ /

10.2 Arkansas Department of Health (ADH)

_____ /

10.2.1 Direct the Communicator to transmit the event termination information to ADH using Form 1903.0112, "Emergency Class Notification - Update\Follow-up Message".

_____ /

Performed by : _____
Emergency Operations Facility Director

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR

FORM NO.

1903.011U

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- Section 1: Initial Actions for Emergency Class Change (Steps 1 thru 8)
 Section 2: Follow-Up Actions (Steps 9 thru 14)
 Section 3: Update Notifications (Steps 15 thru 19)
 Section 4: Courtesy Calls (Steps 20 thru 23)

NOTE

Emergency Telephone Directory contains emergency telephone numbers.

Section 1: INITIAL ACTIONS FOR EMERGENCY CLASS CHANGE

NOTE

Arkansas Department of Health (ADH) **SHALL** be notified within 15 minutes of an Emergency Class

- Declaration
- Change (Upgrade or Downgrade)
- Termination

INSTRUCTIONS

1. Complete 1903.011Y for Message # ____
2. Place 1903.011Y face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date : ____/____

CONTINGENCY ACTIONS

1. None
2. Use non-dedicated fax to send 1903.011Y to ADH *671-1406*.

Log Time/Date: ____/____

NOTE

After Pressing the RED button, **do not** touch the DEF/VS Fax or Phone until the FAX submits a "Multi Transmission Report.

3. IF this is a termination message OR ERO has already been ACTIVATED THEN GO TO Step 5.

3. None

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE CONTROL ROOM

FORM NO.

1903.011V

REV.

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INSTRUCTIONS

4. Notify Emergency Response Organization.
- 4.1 Activate CNS as follows:
(Reference Att. 9)
- 4.1.1 Verify CNS in Start-Up mode.
- 4.1.2 Select correct scenario.
- 4.1.3 Press 'Q' to start scenario

5. Confirm fax receipt.

- 5.1 Use DEF/VS phone to perform roll-call.
- 5.1.1 Press **RED** button on the DEF/VS phone.
- 5.1.2 Ask responding agencies to 'Hold'.
- 5.1.3 Read message to agencies:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

- 5.1.4 Perform roll-call.
- ___ Conway County
- ___ Johnson County
- ___ Logan County
- ___ Pope County

CONTINGENCY ACTIONS

4. IF **Alert** or **Higher EC** declared
THEN set off pagers by calling *964-1645* and enter the following response:

*When asked for password, enter "1234".

*When asked for phone number, enter "1111" (for Unit 1 event)

OR

"2222" (for Unit 2 event)

IF **NUE** declared, **THEN** GO TO Step 5.

5.

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone
THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

- 5.1.4 IF any agencies do **NOT** confirm receipt of fax
THEN request ADH ensure message is received by agencies.

IF ADH does not respond to roll call
THEN perform Contingency Action 5.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE CONTROL ROOM

FORM NO.

1903.011V

REV.

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NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

INSTRUCTIONSCONTINGENCY ACTIONS

5.1.4 Continued

__ Yell County

__ Arkansas Dept. of Health

(Person Contacted / Time)

6. Use ENS phone to transmit
1903.011Y information to NRC.

(Person Contacted / Time)

7. Notify IRS groups as directed
by Shift Superintendent. Give
required response and
protective actions necessary.

__ Operations Support

__ Notification Communicators

__ Onshift HP Techs

__ Offshift HP Techs

__ Nuclear Chem. (Dose Asmt.)

__ I&C Maint.

__ Electrical Maint.

__ Mechanical Maint.

__ Electrical Engineering

__ Mechanical Engineering

__ Core Thermal Engineering

6. Use commercial phone to transmit
1903.011Y information to NRC.

Person Contacted / Time)

7. None

INSTRUCTIONS

7. (Continued)

 Security Fire Brigade Medical Team

8. Place 1903.011Y face down in DEF/VS fax document tray and press **BLUE** fax button.

NOTE:

After Pressing the BLUE button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

CONTINGENCY ACTIONS

7. (Continued)

None

8. Use non-dedicated fax to send 1903.011Y to:

ADH *671-1406*

TSC *858-6622*

EOF *858-6957*

Perform Contingency Action 5.

Initial Actions Performed By:

_____/_____
Name Time/Date

End of Initial Actions

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE CONTROL ROOM

FORM NO.

1903.011V

REV.

20

Section 2: FOLLOW-UP ACTIONS

NOTE

Follow-Up actions should be completed as soon as possible following an Initial Emergency Class Notification, but should not delay relating important **NEW** information to State and local agencies or the NRC in an Update Notification.

INSTRUCTIONS

9. Fill in available information 1903.011Z for Message # _____.
10. Place **PAGE 1** of 1903.011Z face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date: _____ / _____

NOTE

After Pressing the Red button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

11. Confirm fax receipt.
- 11.1 Use DEF/VS phone to perform roll-call.
- 11.1.1 Press **RED** button on the DEF/VS phone.
- 11.1.2 Ask responding agencies to 'Hold'.
- 11.1.3 Read message:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

CONTINGENCY ACTIONS

9. None
10. Use non-dedicated fax to send **PAGE 1** of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____ / _____

11. **NOTE**
Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

(Step 11 continued on next page)

FORM TITLE:	FORM NO.	REV.
NOTIFICATION CHECKLIST FOR THE CONTROL ROOM	1903.011V	20

INSTRUCTIONS

11.1 (continued)

- 11.1.4 Perform roll call to confirm of fax receipt.
- ___ Conway County
- ___ Johnson County
- ___ Logan County
- ___ Pope County
- ___ Yell County
- ___ Arkansas Dept. of Health
- _____/_____
(Person Contacted / Time)

CONTINGENCY ACTIONS

11.1 (continued)

- 11.1.4 IF any agencies do **NOT** confirm receipt of fax THEN request ADH ensure notification is received by agencies.
- IF ADH does not respond to roll call THEN perform Contingency Action 11.

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

12. Use ENS phone to transmit
PAGE 1 of 1903.011Z to NRC

_____/_____
(Person Contacted / Time)

13. Verify CNS functioning by any of the following methods:
(Reference Att. 9)
- 13.1 Monitor CNS display.
- 13.2 Review CNS print-outs.
- 13.3 Confirmation by responding ERO members.

12. Use commercial phone to transmit
PAGE 1 of 1903.011Z to NRC.

_____/_____
(Person Contacted / Time)

13. IF CNS unavailable
and
Alert or Higher EC declared
and
ERO NOT previously activated

THEN

Ensure Contingency Action 4 has been performed and notify the following:

- ___ General Mgr., Plant Ops
- ___ NRC Resident Inspector

INSTRUCTIONS

13. (continued)

14. Place **PAGE 1 AND 2** of 1903.011Z face down in fax document tray and press **BLUE** fax button.

NOTE:

After Pressing the **BLUE** button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

Follow-up Actions Performed By:

Name_____
Time / Date

Page 7 of 11

CONTINGENCY ACTIONS

13. (continued)

IF CNS unavailable
and
NUZ declared
and
ERO **NOT** previously activated

THEN

Notify the following:

- ___ EOF Director
- ___ TSC Director
- ___ Entergy Operations Corp.
CEC Manager (in Jackson)
- * ___ General Mgr., Plant Ops
- * ___ Operations Mgr.
(affected Unit)
- * ___ NRC Resident Insp.
- * ___ Communications Mgr.
- * ___ Emergency Planning
- *Not required notification.
Mark N/A if contact cannot
be made.

14. Use non-dedicated fax to send **PAGE 1 AND 2** of 1903.011Z to:

ADH *671-1406*
TSC *858-6622*
EOF *858-6957*

Perform Contingency Action 11.

FORM TITLE:	FORM NO.	REV.
NOTIFICATION CHECKLIST FOR THE CONTROL ROOM	1903.011V	20

Section 3: UPDATE NOTIFICATIONS

NOTE

Update messages are required:

- within one (1) hour of last notification.
- as directed by the person in Emergency Direction and Control
- when a significant change occurs, such as
 - prognosis changes
 - Protective Action Recommendations change
 - radiological release begins or ends
 - radiological release rate changes significantly

INSTRUCTIONS

15. Fill in available information on 1903.011Z for Message # _____.
16. Place **PAGE 1** of 1903.011Z face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date: _____ / _____

CONTINGENCY ACTIONS

15. None
16. Use non-dedicated fax to send **PAGE 1** of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____ / _____

NOTE

After Pressing the RED button, **do not** touch the DEF/VS Fax **or** Phone until the Fax submits a "Multi Transmission Report".

17. Confirm fax receipt.
- 17.1 Use DEF/VS phone to perform roll-call.
- 17.1.1 Press **RED** button on the DEF/VS phone.
- 17.1.2 Ask responding agencies to 'Hold'.
- 17.1.3 Read message:
- "I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

17. NOTE
- Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted / Time)

Request ADH ensure agencies receive notification.

OR

INSTRUCTIONS

17. (continued)

17.1.4 Perform roll call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept.
of Health

(Person Contacted / Time)

CONTINGENCY ACTIONS

17. (continued)

IF ADH cannot be reached by phone
 THEN contact OES by phone
 374-1201 or radio (Chan. 6
 unscrambled) and request they
 relay notification.

17.1.4 IF any agencies do NOT
 confirm receipt of fax
 THEN request ADH ensure
 notification is received
 by agencies.

IF ADH does not respond to
 roll call THEN perform
 Contingency Action 17.

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

18. Use ENS phone to transmit
 PAGE 1 of 1903.0112 to NRC

(Person Contacted / Time)

18. Use commercial phone to transmit
 PAGE 1 of 1903.0112 to NRC.

(Person Contacted / Time)

19. Place PAGE 1 AND 2 of 1903.0112
 face down in DEF/VS fax document
 tray and press BLUE fax button.

19. Use non-dedicated fax to send
 PAGE 1 AND 2 of 1903.0112 to:

ADH *671-1406*
 TSC *858-6622*
 EOF *858-6957*

Perform Contingency Action 17.

NOTE:

After Pressing the BLUE
 button, do not touch the
 DEF/VS Fax or Phone until
 the Fax submits a "Multi
 Transmission Report".

Update Notifications Performed By:

Name

Time / Date

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE CONTROL ROOM

FORM NO.

1903.011V

REV.

20

Section 4: COURTESY CALLS

NOTE

Courtesy Calls are required for the following non-Emergency Class events:

- Unplanned off-site release of radioactive material has occurred OR may occur.
- Reactor trip from power (not including a pre-planned shutdown)
- Events occur for which a news release is planned OR notification of other government agencies is made.

NOTE

Courtesy Calls SHOULD be made as soon as practicable but no later than (four) hours following the event.

INSTRUCTIONSCONTINGENCY ACTIONS

20. Complete 1903.011Y.

20. None

21. Use non-dedicated fax to send 1903.011Y to ADH *671-1406*.

21. None

Log Time/Date: _____ / _____

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

21.1 Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted / Time)

21.1 IF ADH cannot be reached by phone THEN contact OES by phone #374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

22. Notify the EOF Director

22. None

22.1 Refer to Emergency Response Duty Roster OR use pager number 964-1647.

22.2 Request the EOF Director ensure required notifications are made per Station Directive No. A6.202, "Public Communications".

INSTRUCTIONS

23. Mail this checklist and 1903.011Y to Emergency Planning Supervisor.

CONTINGENCY ACTIONS

23. None

Courtesy Call actions performed by:

Name	Time / Date
------	-------------

NOTE

The material contained within the symbols (*) is proprietary or private information.

FORM TITLE: NOTIFICATION CHECKLIST FOR THE CONTROL ROOM	FORM NO. 1903.011V	REV. 20
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- Section 1: Initial Actions for Emergency Class Change (Steps 1 thru 6)
 Section 2: Follow-Up Actions (Steps 7 thru 11)
 Section 3: Update Notifications (Steps 12 thru 16)

NOTE

Emergency Telephone Directory contains emergency telephone numbers.

Section 1: **INITIAL ACTIONS FOR EMERGENCY CLASS CHANGE****NOTE**

Arkansas Department of Health (ADH) **SHALL** be notified within 15 minutes of an Emergency Class:

- Declaration
- Change (Upgrade or Downgrade)
- Termination

INSTRUCTIONS

1. Complete 1903.011Y for Message # ____.
2. Place 1903.011Y face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date: ____ / ____

CONTINGENCY ACTIONS

1. None
2. Use non-dedicated fax to send 1903.011Y to ADH *671-1406*.

Log Time/Date: ____ / ____

NOTE

After Pressing the RED button, **do not** touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

20

INSTRUCTIONS

3. Confirm fax receipt.

3.1 Use DEF\VS phone to perform roll-call.

3.1.1 Press **RED** button on DEF/VS phone.

3.1.2 Ask responding agencies to 'Hold'.

3.1.3 Read message to agencies:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

3.1.4 Perform roll-call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept. of Health

(Person Contacted / Time)

CONTINGENCY ACTIONS

3.

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

3.1.4 If any agencies do **NOT** confirm receipt of fax THEN request ADH ensure message is received by agencies.

IF ADH does not respond to roll call THEN perform Contingency Action 3.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

20

INSTRUCTIONSCONTINGENCY ACTIONSNOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

5. Use ENS phone to transmit
1903.011Y information to NRC.

_____/_____
(Person Contacted / Time)

6. Place 1903.011Y face down in
DEF/VS fax document tray and
press **BLUE** fax button.

5. Use commercial phone to transmit
1903.011Y information to NRC.

_____/_____
(Person Contacted / Time)

6. Use non-dedicated fax to send
1903.011Y to:

ADH *671-1406*
EOF *858-6957*

NOTE:

After Pressing the BLUE
button, do not touch the
DEF/VS Fax or Phone
until the Fax submits a
"Multi Transmission
Report".

Perform Contingency Action 3.

Initial Notifications Performed By:

Name

_____/_____
Time/Date

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

20

Section 2: FOLLOW-UP ACTIONS

NOTE

Follow-Up actions should be completed as soon as possible following an Initial Emergency Class Notification, but should not delay relating important **NEW** information to State and local agencies or the NRC in an Update Notification.

INSTRUCTIONS

7. Fill in available information 1903.011Z for Message # _____.
8. Place **PAGE 1** of 1903.011Z face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date: _____/____

NOTE

After Pressing the **RED** button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

9. Confirm fax receipt.
- 9.1 Use DEF\VS phone to perform roll-call.
- 9.1.1 Press **RED** button on the DEF/VS phone.
- 9.1.2 Ask responding agencies to 'Hold'.
- 9.1.3 Read message:
- "I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

CONTINGENCY ACTIONS

7. None
8. Use non-dedicated fax to send **PAGE 1** of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____/____

9.

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

_____/____
(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request that they relay notification.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

20

INSTRUCTIONS

9.1 (continued)

9.1.4 Perform roll call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept. of Health

(Person Contacted / Time)CONTINGENCY ACTIONS

9.1 (continued)

9.1.4 IF any agencies do **NOT** confirm receipt of fax **THEN** request ADH ensure notification is received by agencies.

IF ADH does not respond to roll call **THEN** perform Contingency Action 9.

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

10. Use ENS phone to transmit
PAGE 1 of 1903.011Z to NRC

(Person Contacted / Time)

11. Place PAGE 1 AND 2 of
1903.011Z face down in
DEF/VS fax document tray
and press BLUE fax button.

NOTE:

After Pressing the BLUE button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

10. Use commercial phone to transmit
PAGE 1 of 1903.011Z to NRC.

(Person Contacted / Time)

11. Use non-dedicated fax to send
PAGE 1 AND 2 of 1903.011Z to:

ADH *671-1406*
EOF *858-6957*

Perform Contingency Action 3.

Follow-up Notifications Performed By:

Name_____
Time / Date

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

20

Section 3: UPDATE NOTIFICATIONS

NOTE

Update messages are required:

- within one (1) hour of last notification.
- as directed by the person in Emergency Direction and Control
- when a significant change occurs, such as
 - prognosis changes
 - Protective Action Recommendations change
 - radiological release begins or ends
 - radiological release rate changes significantly

INSTRUCTIONS

12. Fill in available information on 1903.011Z for Message # _____.

13. Place **PAGE 1** of 1903.011Z face down in DEF/VS fax document tray and press **RED** fax button.

Log Time/Date: _____ / _____

CONTINGENCY ACTIONS

12. None

13. Use non-dedicated fax to send **PAGE 1** of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____ / _____

NOTE

After Pressing the RED button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

14. Confirm fax receipt.

14.1 Use DEF/VS phone to perform roll-call.

14.1.1 Press **RED** button on the DEF/VS phone.

14.1.2 Ask responding agencies to 'Hold'.

14.1.3 Read message:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

14.

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted / Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone: *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

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INSTRUCTIONSCONTINGENCY ACTIONS

14.1 (continued)

- 14.1.4 Perform roll-call.
- ___ Conway County
- ___ Johnson County
- ___ Logan County
- ___ Pope County
- ___ Yell County
- ___ Arkansas Dept. of Health
- _____/_____
(Person Contacted / Time)

14.1 (continued)

- 14.1.4 IF any agencies do NOT confirm receipt of fax THEN request ADH ensure notification is received by agencies.
- IF ADH does not respond to roll call THEN perform Contingency Action 14.

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

15. Use ENS phone to transmit
PAGE 1 of 1903.011Z to NRC

_____/_____
(Person Contacted / Time)

15. Use commercial phone to transmit
PAGE 1 of 1903.011Z to NRC.

_____/_____
(Person Contacted / Time)

16. Place PAGE 1 AND 2 of
1903.011Z face down in
DEF/VS fax document tray and
press BLUE fax button.

16. Use non-dedicated fax to send
PAGE 1 AND 2 of 1903.011Z to:

ADH *671-1406*
EOF *858-6957*

NOTE:

After Pressing the BLUE button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

Perform Contingency Action 14.

Update Notifications Performed By:

Name

_____/_____
Time / Date

NOTE

The material contained within the symbols (*) is proprietary or private information.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE TSC

FORM NO.

1903.011W

REV.

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- Section 1: Initial Actions for Emergency Class Change (Steps 1 thru 6)
 Section 2: Follow-Up Actions (Steps 7 thru 12)
 Section 3: Update Notifications (Steps 13 thru 18)

NOTE

Emergency Telephone Directory contains emergency telephone numbers.

Section 1: **INITIAL NOTIFICATIONS FOR EMERGENCY CLASS CHANGE****NOTE**

Arkansas Department of Health (ADH) **SHALL** be notified within 15 minutes of an Emergency Class:

- Declaration
- Change (Upgrade or Downgrade)
- Termination

INSTRUCTIONS**CONTINGENCY ACTIONS**

1. Complete 1903.011Y for Message # _____. 1. None
 2. IF the TOCC staff is co-located 2. None
THEN:

- 2.1 Obtain TOC Director's initials and time on 1903.011Y.
 2.2 Make 2 copies of 1903.011Y.
 2.3 Give original and 1 copy of 1903.011Y to TOC Director.

GO TO step 5.

3. Place 1903.011Y face down in DEF/VS fax document tray and press **RED** fax button.

3. Use non-dedicated fax to send 1903.011Y to ADH *671-1406*.

Log Time/Date: ____ / ____

Log Time/Date: ____ / ____

NOTE

After Pressing the **RED** button, **do not** touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE EOF

FORM NO.

1903.011X

REV.

20

INSTRUCTIONS

4. Confirm fax receipt.

4.1 Use DEF/VS phone to perform roll-call.

4.1.1 Press RED button on the DEF/VS phone.

4.1.2 Ask responding agencies to 'Hold'.

4.1.3 Read message to agencies:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax."

4.1.4 Perform roll-call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept. of Health

(Person Contacted / Time)CONTINGENCY ACTIONSNOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

4.1.4 If any agencies do NOT confirm receipt of fax THEN request ADH ensure message is received by agencies.

IF ADH does not respond to roll call THEN perform Contingency Action 4.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE EOF

FORM NO.

1903.011X

REV.

20

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

INSTRUCTIONS

5. Use ENS phone to transmit 1903.011Y information to NRC.

_____/_____
(Person Contacted / Time)

6. IF the TOCC staff is NOT co-located THEN place 1903.011Y face down in DEF/VS fax document tray and press BLUE fax button.

NOTE:

After Pressing the RED button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

CONTINGENCY ACTIONS

5. Use commercial phone to transmit 1903.011Y information to NRC.

_____/_____
(Person Contacted / Time)

6. Use non-dedicated fax to send 1903.011Y to:

ADH *671-1406*
TSC *858-6622*

Perform Contingency Action 4.

Initial Notifications Performed By:

_____/_____
Name Time/Date

FORM TITLE

NOTIFICATION CHECKLIST FOR THE EOF

FORM NO.

1903.011X

REV.

20

Section 2: FOLLOW-UP ACTIONS

NOTE

Follow-Up actions should be completed as soon as possible following an Initial Emergency Class Notification, but should not delay relating important **NEW** information to State and local agencies or the NRC in an Update Notification.

INSTRUCTIONS

7. Fill in available information 1903.011Z for Message #_____.
8. IF the TOCC staff is co-located THEN:
 - 8.1 Obtain TOC Director's initials and time on 1903.011Z.
 - 8.2 Make 2 copies of 1903.011Z.
 - 8.3 Give original and 1 copy of 1903.011Z to TOC Director.

GO TO step 11.

9. Place PAGE 1 of 1903.011Z face down in DEF/VS fax document tray and press RED fax button.

Log Time/Date: _____ / _____

CONTINGENCY ACTIONS

7. None
8. None

9. Use non-dedicated fax to send PAGE 1 of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____ / _____

NOTE

After Pressing the RED button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

10. Confirm fax receipt.
 - 10.1 Use DEF/VS phone to perform roll-call.

10.1.1 Press RED button on the DEF/VS phone.

10.1.2 Ask responding agencies to 'Hold'.

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE EOF

FORM NO.

1903.011X

REV.

20

INSTRUCTIONS

10.1.3 Read message:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax".

CONTINGENCY ACTIONS

(Continued)

(Person Contacted/Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

10.1.4 Perform roll call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept. of Health

(Person Contacted / Time)

10.1.4 IF any agencies do NOT confirm receipt of fax THEN request ADH ensure notification is received by agencies.

IF ADH does not respond to roll call THEN perform Contingency Action 10.

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

11. Use ENS phone to transmit
PAGE 1 of 1903.011Z to NRC

(Person Contacted / Time)

11. Use commercial phone to transmit
PAGE 1 of 1903.011Z to NRC.

(Person Contacted / Time)

INSTRUCTIONS

12. IF the TOCC staff is NOT co-located THEN place PAGE 1 AND 2 of 1903.011Z face down in DEF/VS fax document tray and press BLUE fax button.

NOTE

After Pressing the BLUE button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

CONTINGENCY ACTIONS

12. Use non-dedicated fax to send PAGE 1 AND 2 of 1903.011Z to:

ADH *671-1406*

TSC *858-6622*

Perform Contingency Action 10.

Follow-up Notifications Performed By:

Name

Time / Date

FORM TITLE:

NOTIFICATION CHECKLIST FOR THE EOF

FORM NO.

1903.011X

REV.

20

Section 3: UPDATE NOTIFICATIONS

NOTE

Update messages are required:

- within one (1) hour of last notification.
- as directed by the person in Emergency Direction and Control
- when a significant change occurs, such as
 - prognosis changes
 - Protective Action Recommendations change
 - radiological release begins or ends
 - radiological release rate changes significantly

INSTRUCTIONSCONTINGENCY ACTIONS

13. Fill in available information on 1903.011Z for Message # _____.

13. None

14. IF the TOCC staff is co-located THEN:

14. None

14.1 Obtain TOC Director's initials and time on 1903.011Z.

14.2 Make 2 copies of 1903.011Z.

14.3 Give original and 1 copy of 1903.011Z to TOC Director.

GO TO step 17.

15. Place **PAGE 1** of 1903.011Z face down in DEF/VS fax document tray and press **RED** fax button.

15. Use non-dedicated fax to send **PAGE 1** of 1903.011Z to ADH *671-1406*.

Log Time/Date: _____ / _____

Log Time/Date: _____ / _____

NOTE

After Pressing the RED button, do not touch the DEF/VS Fax or Phone until the Fax submits a "Multi Transmission Report".

INSTRUCTIONS

16. Confirm fax receipt.

16.1 Use DEF/VS phone to perform roll-call.

16.1.1 Press RED button on DEF/VS phone.

16.1.2 Ask responding agencies to 'Hold'.

16.1.3 Read message:

"I am calling from Arkansas Nuclear One. Please confirm receipt of fax".

16.1.4 Perform roll-call.

___ Conway County

___ Johnson County

___ Logan County

___ Pope County

___ Yell County

___ Arkansas Dept. of Health

(Person Contacted / Time)

CONTINGENCY ACTIONS

NOTE

Use of OES Emergency Action Authenticator may be required when contacting agencies by non-dedicated phone.

Telephone ADH *661-2136* and confirm fax receipt.

(Person Contacted / Time)

Request ADH ensure agencies receive notification.

OR

IF ADH cannot be reached by phone THEN contact OES by phone *374-1201* or radio (Chan. 6 unscrambled) and request they relay notification.

16.1.4 IF any agencies do NOT confirm receipt of fax THEN request ADH ensure notification is received by agencies.

IF ADH does not respond to roll call THEN perform Contingency Action 16.

FORM TITLE:	FORM NO.	REV.
NOTIFICATION CHECKLIST FOR THE EOF	1903.011X	20

NOTE

Nuclear Regulatory Commission (NRC) SHALL be notified immediately following notification to ADH and SHALL NOT exceed one (1) hour following declaration of an emergency class.

INSTRUCTIONS

17. Use ENS phone to transmit
PAGE 1 of 1903.011Z to NRC

_____/_____
(Person Contacted / Time)

18. IF the TOCC staff is NOT
collocated THEN place
PAGE 1 AND 2 of 1903.011Z
face down in DEF/VS fax
document tray and press
BLUE fax button.

NOTE

After Pressing the BLUE
button, do not touch the
DEF/VS Fax or Phone
until the Fax submits
a "Multi Transmission
Report".

Update Notifications Performed By:

_____/_____
Name Time / Date

CONTINGENCY ACTIONS

17. Use commercial phone to transmit
PAGE 1 of 1903.011Z to NRC.

_____/_____
(Person Contacted / Time)

18. Use non-dedicated fax to send
PAGE 1 AND 2 of 1903.011Z to:

ADH *671-1406*

TSC *858-6622*

Perform Contingency Action 16.

NOTE

The material contained within the symbols (*) is proprietary or private information.

EMERGENCY CLASS NOTIFICATION
INITIAL MESSAGE**NOTE**

All the information on this form must be
transmitted to the ADH and to the NRC.

MESSAGE NUMBER: _____

THIS IS: _____ An Actual Event _____ Courtesy Call _____ A Drill

1. REPORTED BY: _____ TEL. NO. (858) _____

2. EMERGENCY CLASS DECLARED:

_____ Not applicable

_____ Alert

_____ General Emergency

_____ Notification of Unusual Event

_____ Site Area Emergency

3. EMERGENCY DECLARED: Unit _____ Time _____ Date _____

4. OTHER UNIT STATUS: (Emergency Class, Percent Power, etc.) _____

5. EVENT TERMINATED: _____ No _____ Yes Time _____ Date _____

6. WIND DIRECTION (From): _____ Deg. WIND SPEED _____ (MPH)

7. REACTOR SHUTDOWN:

_____ Reactor shutdown: Time _____ Date _____

_____ Reactor shutdown Not necessary.

_____ Reactor shutdown in progress.

8. RADIOACTIVE RELEASE:

_____ No Release

_____ Release occurring

_____ Possible Release

_____ Release occurred, but has stopped

9. PROGNOSIS:

_____ Improving

_____ Degrading

_____ Stable

_____ Not Available

10. PROTECTIVE ACTION RECOMMENDATIONS:

_____ No Protective Actions Recommended at this time.

_____ Shelter Affected Zones _____

_____ Evacuate Affected Zones _____

11. INCIDENT DESCRIPTION: _____

MESSAGE APPROVED BY: _____

ERO TITLE: _____ Shift Superintendent _____ TSC Director _____ EOF Director

FORM TITLE:

EMERGENCY CLASS NOTIFICATION INITIAL MESSAGE

FORM NO.

1903.011Y

REV.

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EMERGENCY CLASS NOTIFICATION
UPDATE/FOLLOW-UP MESSAGE

Page 1 of 2

MESSAGE NUMBER: _____

THIS IS: _____ An Actual Event _____ A Drill

THIS MESSAGE IS:

- _____ Follow-up to initial message (as soon as possible after Initial Notification).
_____ Significant change message (circle item that has changed significantly).
_____ Routine (hourly) update message (no significant change).
_____ Emergency Class termination message.
_____ Emergency Class terminated: Time _____ Date _____

1. CURRENT TIME/DATE: _____

REPORTED BY: _____ TEL. NO. (858) _____

2. CURRENT EMERGENCY CLASS:

- _____ Not applicable
_____ Notification of Unusual Event
_____ Alert
_____ Site Area Emergency
_____ General Emergency

3. EMERGENCY CLASS DECLARED: Unit _____ Time _____ Date _____

4. OTHER UNIT STATUS: (Emergency Class, Percent Power, etc.) _____

5. INCIDENT DESCRIPTION OR UPDATE: _____

6. SITE EVACUATION OF NON-ESSENTIAL PERSONNEL:

_____ Not necessary _____ In progress _____ Complete

7. REACTOR SHUTDOWN:

_____ Reactor shutdown: Time _____ Date _____
_____ Reactor shutdown Not necessary.
_____ Reactor shutdown in progress.

8. PROTECTIVE ACTION RECOMMENDATIONS:

_____ No Protective Actions Recommended at this time.
_____ Shelter Affected Zones _____
_____ Evacuate Affected Zones _____

9. PROGNOSIS:

_____ Stable _____ Improving _____ Degrading _____ Not Available

FORM TITLE:

EMERGENCY CLASS NOTIFICATION UPDATE/FOLLOW-UP MESSAGE

FORM NO.

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MESSAGE NUMBER: _____

Page 2 of 2

10. COMMENTS (License Action, Offsite Support) _____

11. METEOROLOGICAL DATA:

Wind Direction (From): _____ Deg. Wind Speed: _____ (MPH)
 Stability Class: _____
 Precipitation: _____ None _____ Rain _____ Sleet _____ Snow

12. RADIOLOGICAL CONDITIONS:

_____ No release is involved.
 _____ Possible or suspected release involved but not quantified.
 _____ Release is occurring:
 Start time: _____ Estimated duration: _____ hrs/mins
 _____ Release occurred previously:
 Start time: _____ Stop time: _____ Dates: _____
 _____ Release is imminent.

If a radiological release is involved (or is imminent), complete as much of the following as time and available information allows.

<u>TYPE OF RELEASE</u>	<u>Estimated Release Rate</u> (From page 1 of RDACS plume segment report)
GASEOUS	_____ Ci/sec
PARTICULATE	_____ Ci/sec
IODINE	_____ Ci/sec
NOBLE GAS	_____ Ci/sec
LIQUID	_____ Ci/sec

<u>DOSE RATES</u>	<u>Plume Centerline</u> <u>CHILD THYROID</u>	<u>(from RDACS centerline report)</u> <u>TEDE</u>
.62 miles	_____ mrem/hr	_____ mrem/hr
1.0 miles	_____ mrem/hr	_____ mrem/hr
2.0 miles	_____ mrem/hr	_____ mrem/hr
5.0 miles	_____ mrem/hr	_____ mrem/hr
10.0 miles	_____ mrem/hr	_____ mrem/hr

<u>CUMULATIVE DOSE</u>	<u>Dose Evaluation Points</u> (use HIGHEST VALUE in mrem from each distance not mrem/hr)	
	<u>TEDE</u>	<u>CHILD THYROID</u>
.62 miles	_____ mrem	_____ mrem
1.45 miles	_____ mrem	_____ mrem
3.45 miles	_____ mrem	_____ mrem
7.23 miles	_____ mrem	_____ mrem

APPROVED BY: _____

ERO TITLE: _____ SS _____ TSC Director _____ EOF Director

FORM TITLE:

EMERGENCY CLASS NOTIFICATION UPDATE/FOLLOW-UP MESSAGE

FORM NO.

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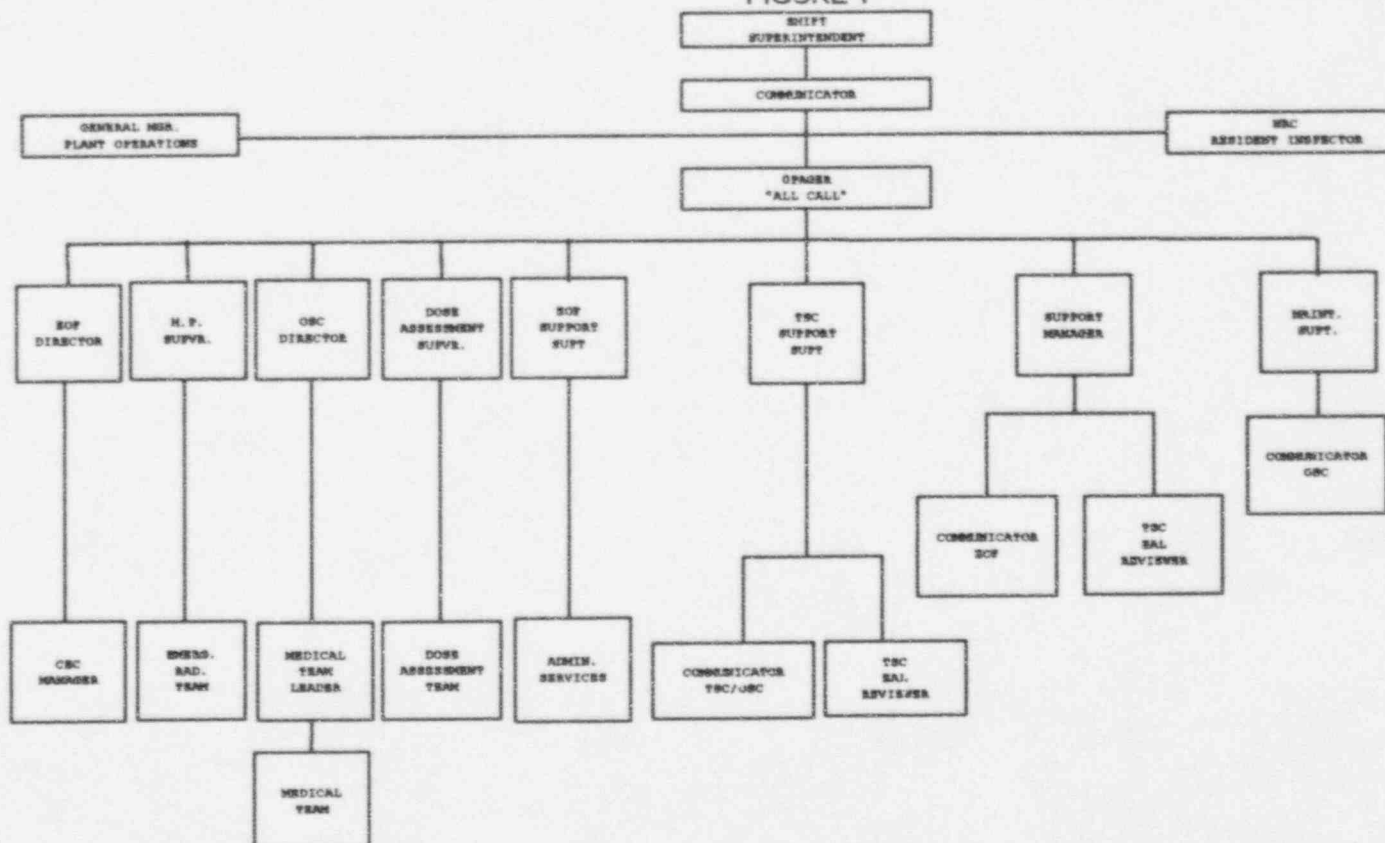
ATTACHMENT 5

ALTERNATE ERO NOTIFICATION SCHEME

This attachment is meant to provide guidance for notification to the Emergency Response Organization if:

- A. An Alert or higher emergency class is declared,
AND
 - B. The Computerized Notifications System is out-of-service.
- 1.0 As directed by the person in Emergency Direction and Control, the communicator will initiate notifications to the ERO.
 - 1.1 Use the 'All Call' pager number from the Emergency Telephone Directory or the Emergency Response Duty Roster to access all of the ERO pagers.
 - 1.2 Transmit the numeric message of '1111' (for Unit 1) or '2222' (for Unit 2) by pressing the numbers on a touch-tone phone key pad.
 - 2.0 Further notification responsibilities are denoted by Figure 1.
 - 3.0 Each person who staffs an ERO position shall implement tasks in accordance with applicable Emergency Response Facility Procedures 1903.064 - 1903.067.

FIGURE 1



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ATTACHMENT 6

Page 1 of 5

PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR
GENERAL EMERGENCY

Review the plant conditions listed in this attachment and select the PAR that corresponds to the current conditions.

PAR No. 1

If plant conditions meet the following criteria:

General Emergency declared

then, recommend sheltering a 2 mile radius and 5 miles downwind. Determine the affected zones for the PAR from the chart below:

Wind Direction (from)	Evacuate Zones	Shelter Zones
348.75 to 11.25	(none)	G U
11.25 to 33.75		G R U
33.75 to 56.25		G R U
56.25 to 78.75		G R U
78.75 to 101.25		G N O R
101.25 to 123.75		G N O R
123.75 to 146.25		G K N O
146.25 to 168.75		G K N O
168.75 to 191.25		G K N
191.25 to 213.75		G K
213.75 to 236.25		G K
236.25 to 258.75		G H K
258.75 to 281.25		G H K
281.25 to 303.75		G H K
303.75 to 326.25		G H U
326.25 to 348.75		G H U

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ATTACHMENT 6

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PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR
GENERAL EMERGENCY

PAR No. 2

If plant conditions meet the following criteria:

General Emergency declared

AND

> 10% Fuel Clad Failure (actual or projected)*

then, recommend evacuating a 2 mile radius and 5 miles downwind, and sheltering the remainder of the 10 mile EPZ. Determine the affected zones for the PAR from the chart given below.

Wind Direction (from)	Evacuate Zones	Shelter Zones
348.75 to 11.25	G U	Remainder of EPZ
11.25 to 33.75	G R U	Remainder of EPZ
33.75 to 56.25	G P U	Remainder of EPZ
56.25 to 78.75	G R U	Remainder of EPZ
78.75 to 101.25	G N O R	Remainder of EPZ
101.25 to 123.75	G N O R	Remainder of EPZ
123.75 to 146.25	G K N O	Remainder of EPZ
146.25 to 168.75	G K N O	Remainder of EPZ
168.75 to 191.25	G K N	Remainder of EPZ
191.25 to 213.75	G K	Remainder of EPZ
213.75 to 236.25	G K	Remainder of EPZ
236.25 to 258.75	G H K	Remainder of EPZ
258.75 to 281.25	G H K	Remainder of EPZ
281.25 to 303.75	G H K U	Remainder of EPZ
303.75 to 326.25	G H U	Remainder of EPZ
326.25 to 348.75	G H U	Remainder of EPZ

*Refer to Att. 7 (for Unit 1) and Att. 8 (for Unit 2) OR obtain an assessment of core damage from Reactor Engineering, if available.
(Data from Att. 7 and Att. 8 may be more current than information obtained from Reactor Engineering.) Note the observed trend when assessing the potential for >10% Fuel Clad Failure.

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ATTACHMENT 6

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PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR GENERAL EMERGENCY

PAR No. 3

If plant conditions meet the following criteria:

General Emergency declared

AND

> 10% Fuel Clad Failure (actual or projected)*

AND

(A) LOCA in progress

OR

(B) Containment atmosphere sample results indicate large amounts of fission products present

then, recommend evacuating a 2 mile radius and 5 miles downwind, and sheltering the remainder of the 10 mile EPZ. Determine the affected zones for the PAR from the chart given below.

Wind Direction (from)	Evacuate Zones	Shelter Zone*
348.75 to 11.25	G U	Remainder of EPZ
11.25 to 33.75	G R U	Remainder of EPZ
33.75 to 56.25	G R U	Remainder of EPZ
56.25 to 78.75	G R U	Remainder of EPZ
78.75 to 101.25	G N O R	Remainder of EPZ
101.25 to 123.75	G N O R	Remainder of EPZ
123.75 to 146.25	G K N O	Remainder of EPZ
146.25 to 168.75	G K N O	Remainder of EPZ
168.75 to 191.25	G K N	Remainder of EPZ
191.25 to 213.75	G K	Remainder of EPZ
213.75 to 236.25	G K	Remainder of EPZ
236.25 to 258.75	G H K	Remainder of EPZ
258.75 to 281.25	G H K	Remainder of EPZ
281.25 to 303.75	G H K U	Remainder of EPZ
303.75 to 326.25	G H U	Remainder of EPZ
326.25 to 348.75	G H U	Remainder of EPZ

*Refer to Att. 7 (for Unit 1) and Att. 8 (for Unit 2) OR obtain an assessment of core damage from Reactor Engineering, if available.

(Data from Att. 7 and Att. 8 may be more current than information obtained from Reactor Engineering.) Note the observed trend when assessing the potential for >10% Fuel Clad Failure.

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ATTACHMENT 6

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PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR GENERAL EMERGENCY

PAR No. 4

If plant conditions meet the following criteria:
General Emergency declared

AND

> 10% Fuel Clad Failure (actual or projected)*

AND

(A) LOCA in progress

OR

(B) Containment Atmosphere sample results indicate
large amounts of fission products present;

AND

(A) Containment failure is projected

OR

(B) Radiological release is in progress

then, recommend evacuating a 5 mile radius and 10 miles downwind. Recommend sheltering affected zones which cannot be evacuated prior to plume arrival and the remainder of the 10 mile EPZ. Determine the affected zones for the PAR from the chart given below.

Wind Direction (from)	Evacuate Zones	Shelter Zones
348.75 to 11.25	G H K N O R S T U	Remainder of EPZ
11.25 to 33.75	G H K N O Q R S U	Remainder of EPZ
33.75 to 56.25	G H K N O Q R S U	Remainder of EPZ
56.25 to 78.75	G H K N O Q R S U	Remainder of EPZ
78.75 to 101.25	G H K N O P Q R U	Remainder of EPZ
101.25 to 123.75	G H K N O P Q R U	Remainder of EPZ
123.75 to 146.25	G H K M N O P R U	Remainder of EPZ
146.25 to 168.75	G H K M N O P R U	Remainder of EPZ
168.75 to 191.25	G H K M N O P R U	Remainder of EPZ
191.25 to 213.75	G H K L M N O R U	Remainder of EPZ
213.75 to 236.25	G H J K L M N O R U	Remainder of EPZ
236.25 to 258.75	G H I J K L M N O R U	Remainder of EPZ
258.75 to 281.25	G H I J K L N O R U	Remainder of EPZ
281.25 to 303.75	G H I J K N O R U	Remainder of EPZ
303.75 to 326.25	G H I J K N O R S T U	Remainder of EPZ
326.25 to 348.75	G H I K N O R S T U	Remainder of EPZ

*Refer to Att. 7 (for Unit 1) and Att. 8 (for Unit 2) OR obtain an assessment of core damage from Reactor Engineering, if available.

(Data from Att. 7 and Att. 8 may be more current than information obtained from Reactor Engineering.) Note the observed trend when assessing the potential for >10% Fuel Clad Failure.

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PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR
GENERAL EMERGENCY

PAR No. 5

If plant conditions meet the following criteria:

General Emergency declared

AND

EPA Protective Action Guidelines are projected to be exceeded
(i.e., 1 Rem TEDE or 5 Rem Child Thyroid CDE)

give the following Protective Action Recommendation.

EVACUATE: Affected zones**

SHELTER: Remainder of the 10 mile EPZ

** The affected zones should be obtained from Dose Assessment personnel or from the REAM. Following transfer of the Dose Assessment function from the Control Room to the EOF, PAR's should be obtained from Dose Assessment personnel or the Radiological Environmental Assessment Manager (REAM).

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ATTACHMENT 7

Page 1 of 4

CORE FUEL DAMAGE ASSESSMENT
UNIT 1

Guide for Use of this Attachment

If the plant has been operating at 100% power for the past 30 days:

- A. Determine the Containment radiation level from RE-8060 or RE-8061.
- B. Determine the time after shutdown in hours.
- C. Find the point on the appropriate graph (page 2 or page 3) of this attachment where these two values intersect to determine % fuel damage.*

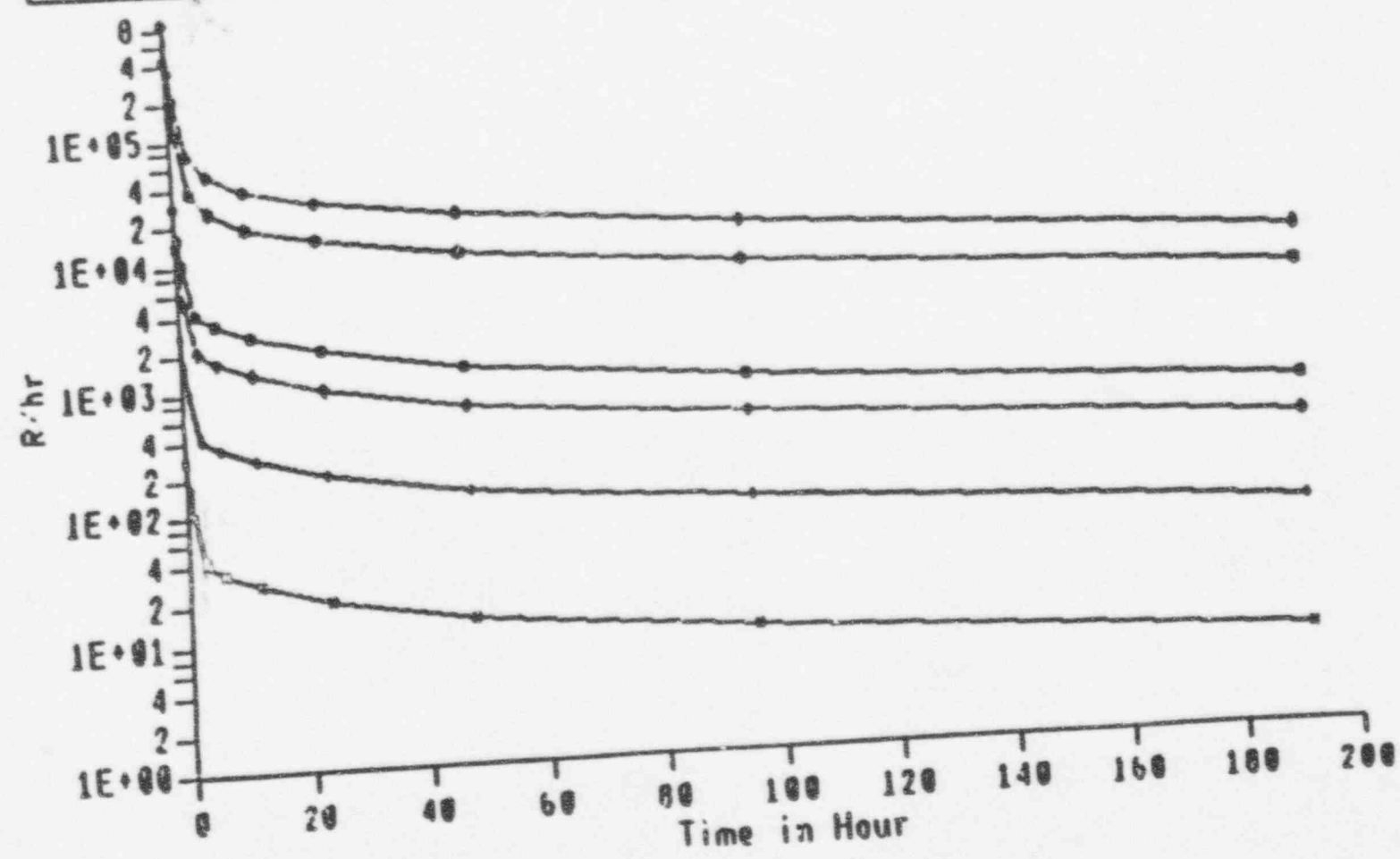
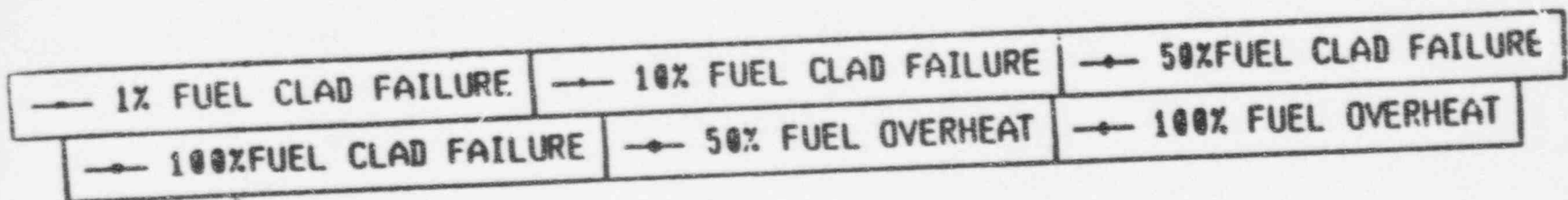
If the plant has NOT been operating at 100% power for the past 30 days:

- A. Divide 100 by the representative power for the past 30 days (For example, if the plant has been operating at 50% power for the past 30 days, divide 100 by 50).
- B. Determine the Containment radiation level from RE-8060 or RE-8061.
- C. Multiply the value found in B by that found in A.
- D. Determine the time after shutdown in hours.
- E. Find the point on the appropriate graph (page 2 or page 3 of this attachment) where the values found in C and D intersect to determine % fuel damage.*

* Tables are also provided on page 4 of 4 to aid in this determination

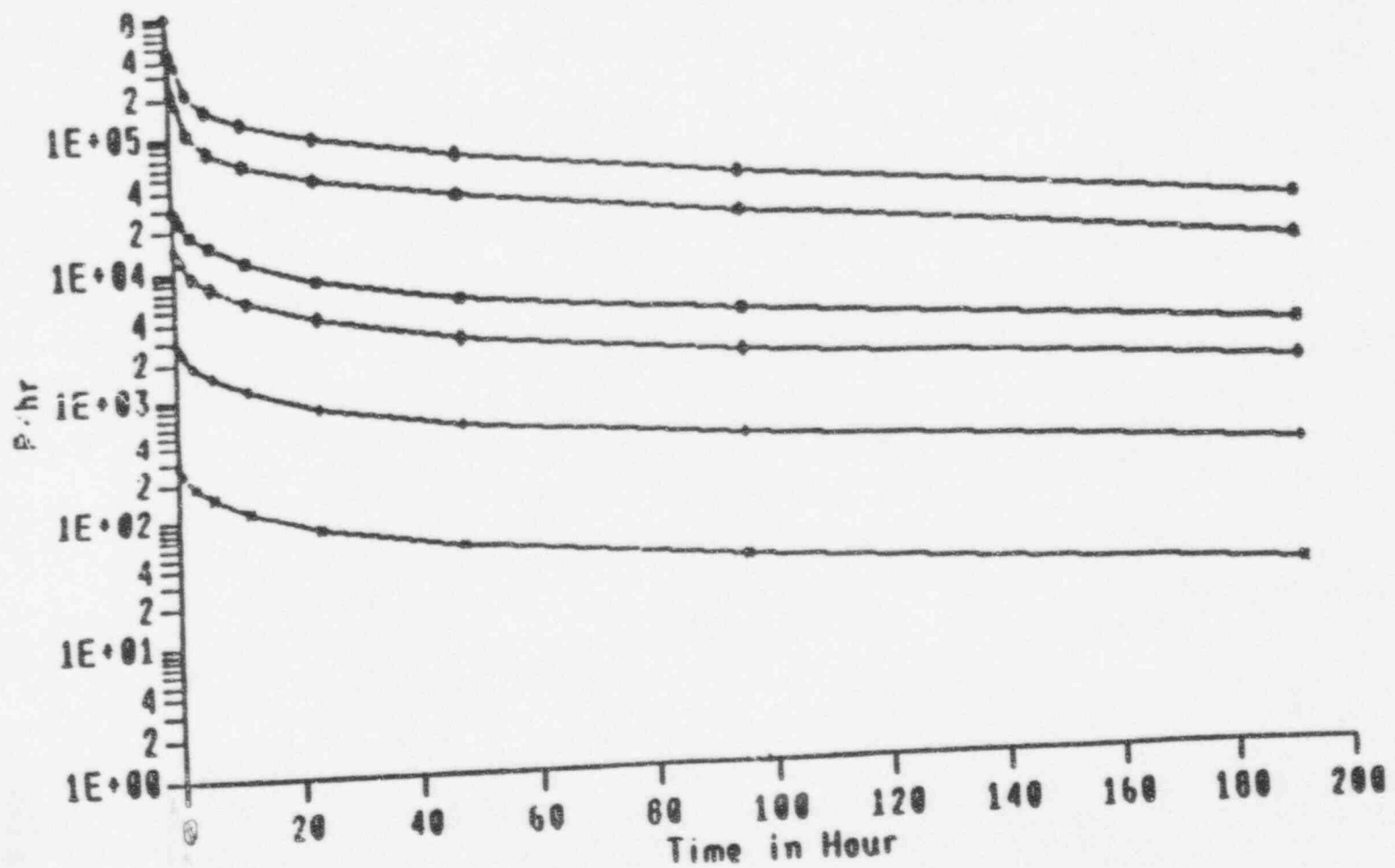
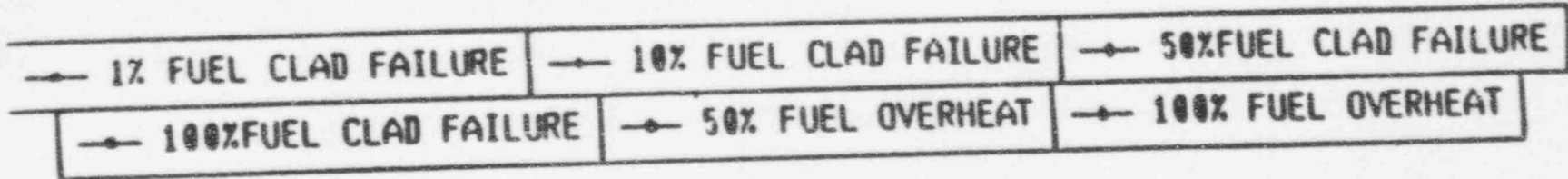
ATTACHMENT 7

AMO-1 Radiation Monitor Readings with Containment Spray



ATTACHMENT 7

ANO-1 Radiation Monitor Readings no Containment Spray



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Table 1 ANO-1 Dose Rates vs Time with Containment Spray

TIME	1% CF	10% CF	50% CF	100% CF	50% FO	100% FO
0.0	283.0	2829.8	14149.1	28298.2	456280.0	912560.0
0.5	166.5	1665.0	8325.2	16650.5	178433.2	356866.4
1.0	102.3	1023.3	5116.3	10232.6	109331.2	218662.4
3.0	42.3	423.0	2114.9	4229.9	37576.9	75153.8
6.0	34.7	347.3	1736.6	3473.2	25217.3	50434.6
12.0	27.2	272.3	1361.4	2722.8	18789.8	37579.5
24.0	19.8	198.4	992.2	1984.3	14380.5	28761.0
48.0	13.6	136.0	679.8	1359.6	10674.4	21348.8
96.0	9.6	95.6	477.8	955.7	7539.0	15077.9
192.0	6.0	60.2	301.2	602.5	4843.1	9686.2

Table 2 ANO-1 Dose Rates vs Time without Containment Spray

TIME	1% CF	10% CF	50% CF	100% CF	50% FO	100% FO
0.0	283.0	2829.8	14149.1	28298.2	456280.0	912560.0
0.5	258.7	2587.0	12935.1	25870.2	228527.2	457054.4
1.0	237.6	2376.3	11881.3	23762.6	182265.6	364531.2
3.0	185.9	1858.6	9293.2	18586.5	107276.4	214552.8
6.0	149.6	1496.0	7480.0	14960.0	78861.2	157722.4
12.0	114.4	1144.1	5720.4	11440.9	61978.4	123956.8
24.0	82.5	824.8	4123.9	8247.8	47418.8	94837.6
48.0	57.4	574.1	2870.3	5740.7	34471.4	68942.7
96.0	40.2	401.8	2009.1	4018.2	22469.0	44938.1
192.0	26.5	264.5	1322.7	2645.5	11713.7	23427.4

Time is in hours since shutdown

DOSE RATES are in R/hr

CF is Clad Failure Incident

FO is Fuel Overheat Incident

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ATTACHMENT 8

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CORE FUEL DAMAGE ASSESSMENT
UNIT-2

Guide for Use of this Attachment

If the plant has been operating at 100% power for the past 30 days:

- A. Determine the Containment radiation level from 2RY-8925-1 or 2RY-8925-2.
- B. Determine the time after shutdown in hours.
- C. Find the point on the appropriate graph (page 2 or page 3) of this attachment where these two values intersect to determine % fuel damage.*

If the plant has NOT been operating at 100% power for the past 30 days:

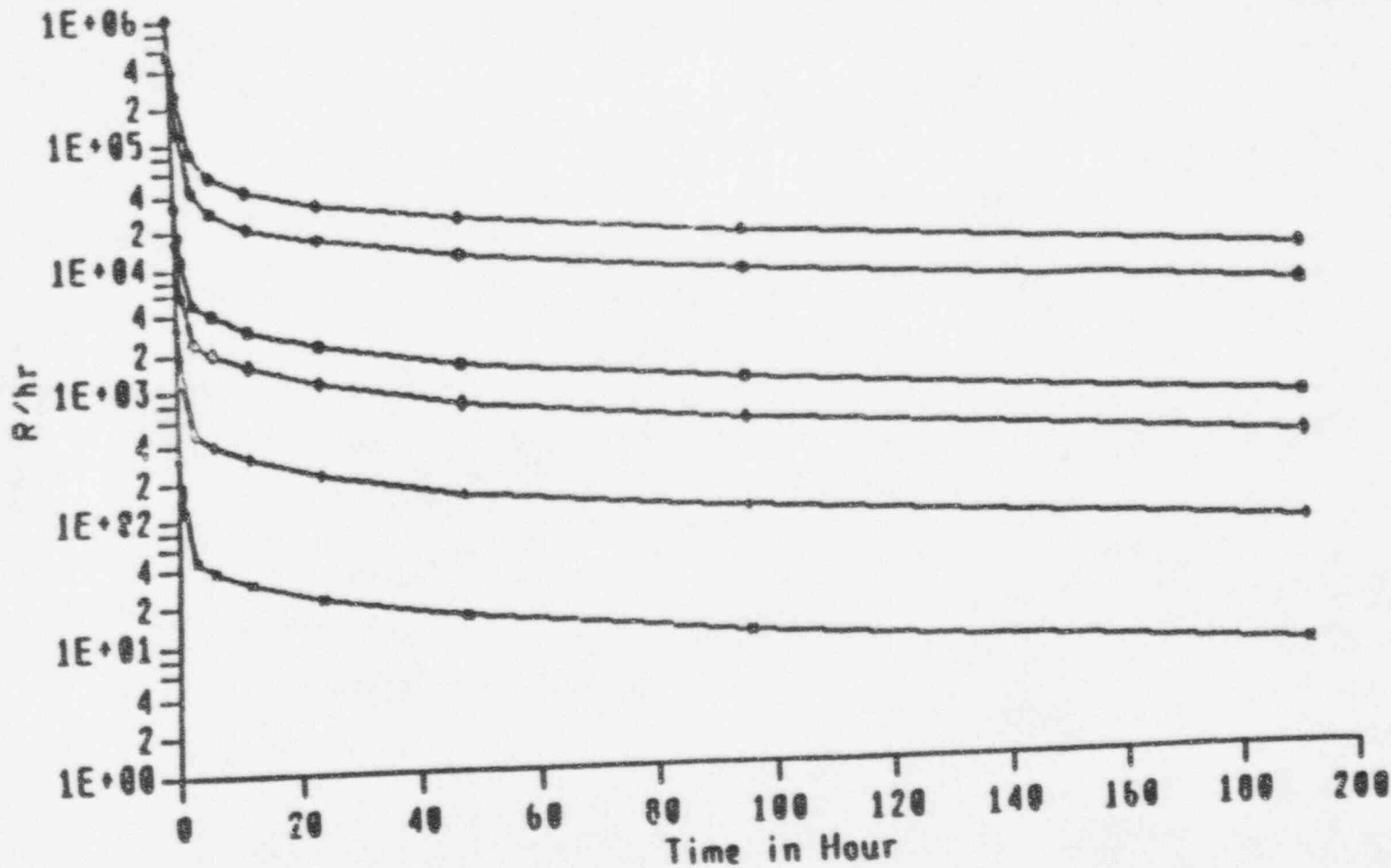
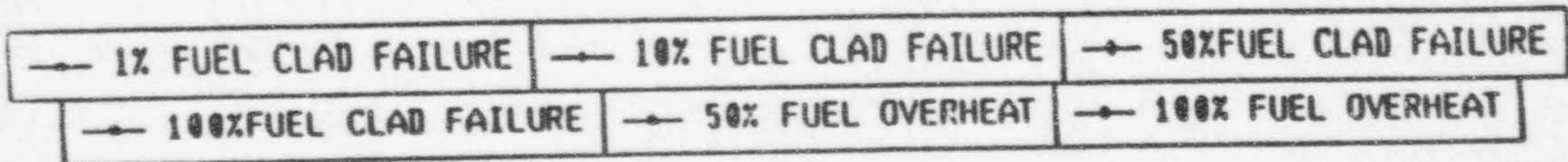
- A. Divide 100 by the representative power for the past 30 days (For example, if the plant has been operating at 50% power for the past 30 days, divide 100 by 50).
- B. Determine the Containment radiation level from 2RY-8925-1 or 2RY-8925-2.
- C. Multiply the value found in B by that found in A.
- D. Determine the time after shutdown in hours.
- E. Find the point on the appropriate graph (page 2 or page 3 of this attachment) where the values found in C and D intersect to determine % fuel damage.*

* Tables are also provided on page 4 of 4 to aid in this determination

ATTACHMENT 8

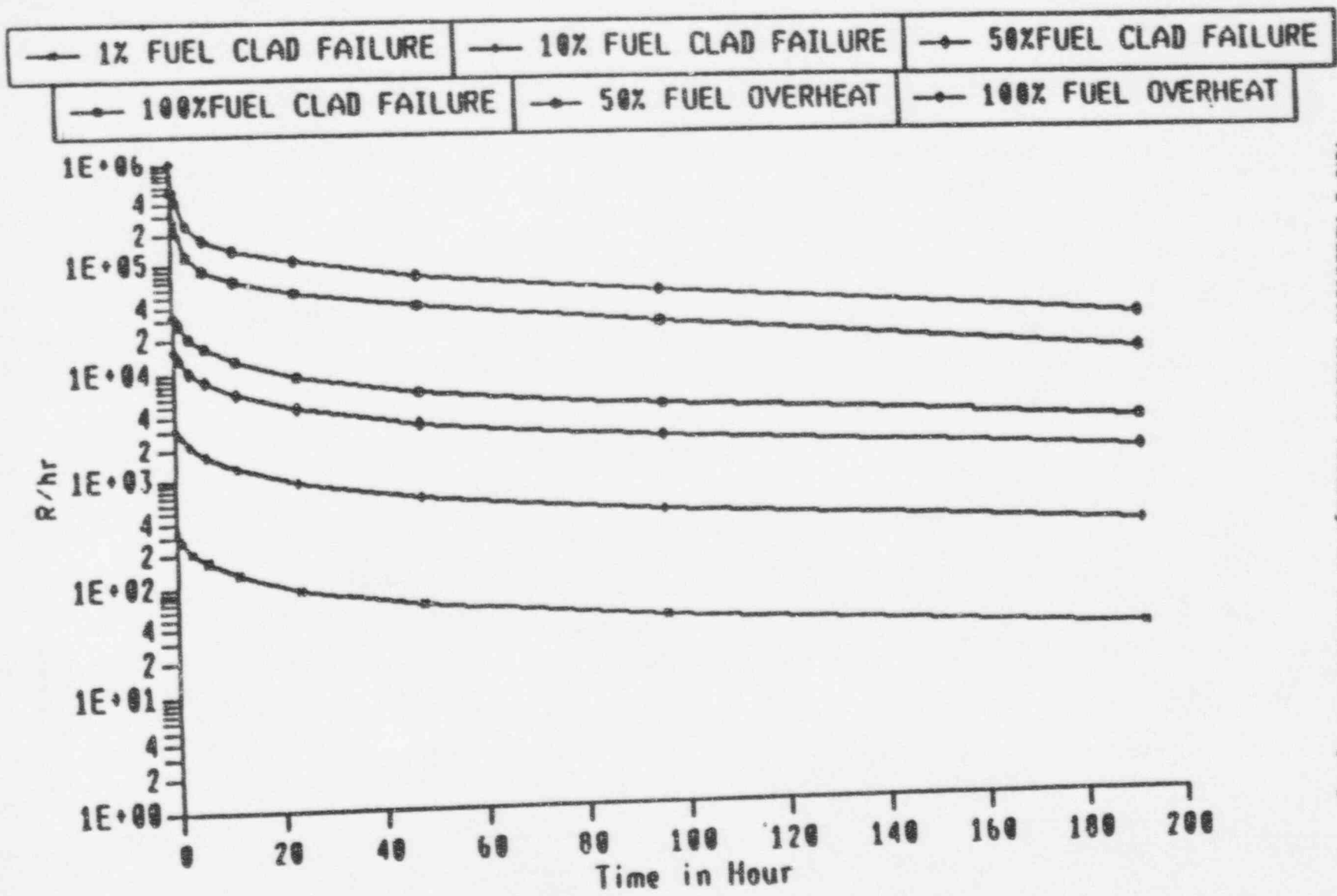
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ANO-2 Radiation Monitor Readings with Containment Spray



ATTACHMENT 8

ANO-2 Radiation Monitor Readings no Containment Spray



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Table 1 ANO-2 Dose Rates vs Time with Containment Spray

<u>TIME</u>	<u>1% CF</u>	<u>10% CF</u>	<u>50% CF</u>	<u>100% CF</u>	<u>50% FO</u>	<u>100% FO</u>
0.0	321.6	3215.7	16078.5	32157.0	518500.0	1037000.0
0.5	189.2	1892.1	9460.5	18921.0	202765.0	405530.0
1.0	116.3	1162.8	5814.0	11628.0	124240.0	248480.0
3.0	48.1	480.7	2403.4	4806.7	42701.0	85402.0
6.0	39.5	394.7	1973.4	3946.8	28656.0	57312.0
12.0	30.9	309.4	1547.1	3094.1	21352.0	42704.0
24.0	22.5	225.5	1127.5	2254.9	16341.5	32683.0
48.0	15.5	154.5	772.5	1545.0	12130.0	24260.0
96.0	10.9	108.6	543.0	1086.0	8567.0	17134.0
192.0	6.8	68.5	342.3	684.6	5503.5	11007.0

Table 2 ANO-2 Dose Rates vs Time without Containment Spray

<u>TIME</u>	<u>1% CF</u>	<u>10% CF</u>	<u>50% CF</u>	<u>100% CF</u>	<u>50% FO</u>	<u>100% FO</u>
0.0	321.6	3215.7	16078.5	32157.0	518500.0	1037000.0
0.5	294.0	2939.8	14699.0	29398.0	259690.0	519380.0
1.0	270.0	2700.3	13501.5	27003.0	207120.0	414240.0
3.0	211.2	2112.1	10560.5	21121.0	121905.0	243810.0
6.0	170.0	1700.0	8500.0	17000.0	89615.0	179230.0
12.0	130.0	1300.1	6500.5	13001.0	70430.0	140860.0
24.0	93.7	937.3	4686.3	9372.5	53885.0	107770.0
48.0	65.2	652.4	3261.8	6523.5	39172.0	78344.0
96.0	45.7	456.6	2283.1	4566.1	25533.0	51066.0
192.0	30.1	300.6	1503.1	3006.2	13311.0	26622.0

Time is in hours since shutdown

DOSE RATES are in R/hr

CF is Clad Failure Incident

FO is Fuel Overheat Incident

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ATTACHMENT 9

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CNS Instructions

SECTION 1: Actuation of the CNS

NOTE

Different screens may be displayed initially on the CNS if power was lost or if the system has been "booted" since the last use. Follow directions on the screen if you are asked to "login".

- 1.0 If the CNS display says to press "Return " twice for login, press [ENTER] twice.
 - A. For "User name" enter 'DCC'
 - B. For "Password" enter 'DCC' (the display will show ***).
2. Enter access password. Password will not be displayed on screen.
3. Use the arrow keys to highlight 'Applications' and press [ENTER].
4. Select 'Duty Roster' by pressing [ENTER].
5. Use the arrow keys to highlight 'Execution' and press [ENTER].
6. Use the arrow keys to highlight 'Application Startup' and press [ENTER].
7. Use the arrow keys to highlight 'Execution' and press [ENTER].
8. Use the arrow keys to highlight 'Scenario Control' and press [Enter].
9. Use the arrow keys to highlight the appropriate scenario for the Emergency Class and the Unit (i.e. for an Alert declared on Unit 2, 'ALERT U-2' should be selected).
10. Press [Q] to queue the scenario. The word EMERGENCY should begin flashing.
11. Press [ENTER] to select the default type 'EMERGENCY'.
12. Press [Y] to confirm that the correct scenario has been queued. The status of the queued scenario should change to 'Active' after a few seconds.
13. If the status of the queued scenario remains 'Idle' or 'Completed', press [Esc] to exit to "Duty Roster: Main Menu" and begin at Step 6 to retry activating the scenario.

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CNS Instructions

SECTION 2: Confirming the CNS is Notifying ERO Personnel

To ensure that the CNS is functioning, reports generated by CNS (preferred) or the CNS video display terminal may be checked for scenario activity.

1. If reports are being generated, inspect the report to ensure that persons are being contacted and are indicating that they can respond to fill an ERO position.
2. If the CNS video display terminal is being used to ensure CNS is notifying personnel,
 - 2.1 Monitor the screen that lists the scenarios available. (Top of the screen should display: Application: Duty Roster: Scenario Execution.)

NOTE

When "Run Time" is equal to 60 (minutes) the "Status" will change to 'Completed' and the total number of ERO positions that were contacted and indicated that they could respond will be displayed in the "Fill Pos." column.

- 2.1.1 For the selected scenario, ensure that the "Status" is 'Active'.
- 2.1.2 For the selected scenario, ensure that the number in the "Fill Pos." column is increasing indicating ERO positions are being filled.
3. If the CNS has been activated for less than 60 minutes (maximum run time) and is not placing and receiving calls to fill ERO positions, attempt to activate the scenario again or refer to Att. 5, "Alternate ERO Notification Scheme".

NOTE

If it is necessary to discontinue an active scenario, DO NOT use the "suspend" option from the Scenario Control screen. Instead, use the "complete" option by pressing "C" while at the Scenario Control screen.

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Emergency Class Notification Instructions

AUTHENTICATION:

If challenged by the Arkansas Department of Health (ADH) or the Office of Emergency Services (OES) to identify yourself, use the OES Emergency Action Authenticator to provide the appropriate two digit response.

TIME REQUIREMENTS:

Emergency Class Declaration:

Arkansas Department of Health--within 15 minutes of EACH emergency class declared.

Nuclear Regulatory Commission--immediately after the notification to ADH; SHALL NOT exceed one (1) hour following emergency class declaration.

Courtesy Calls:

Arkansas Department of Health--as soon as practicable but no later than four (4) hours following the event.

Nuclear Regulatory Commission--immediately following notification to the ADH.

INSTRUCTIONS

Instructions for steps which are not self-explanatory are provided below:

MESSAGE NUMBER: Number messages sequentially from the initial notification at the beginning of the event to the event termination message.

MESSAGE APPROVED BY: The person with the responsibility for Emergency Direction and Control MUST approve each message before transmittal to the Arkansas Department of Health.

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Initial Message or Courtesy Call Instructions

- Step 3: If the message is a Courtesy Call, write 'NA' for "Not Applicable" in the blanks.
- Step 6: Wind Direction and Wind Speed may be obtained from RDACS (preferred), chart recorders in Unit 1 Control Room, or Corps of Engineers, Dardanelle Lock and Dam.
- Step 9: Prognosis must be obtained from the person in Emergency Direction and Control.
- Step 10: Must be approved by the person in Emergency Direction and Control. May be obtained from Dose Assessment (Nuclear Chemistry), the REAM, or, if a General Emergency has been declared, from Attachment 6.
- Step 11: The incident description should focus on the EAL which required the emergency class declaration or the Courtesy Call.

Update\Follow-up Message Instructions

- Step 2: If a termination message is being given, indicate which emergency class is being terminated.
- Step 5: If the message is a follow-up to the initial message, the incident description should focus upon the EAL which required the emergency class declaration.

If the message is an update (or termination) message, the incident description should focus on the conditions requiring the update (i.e. the plant conditions that have changed or a routine hourly update).

- Step 8: Must be approved by the person with Emergency Direction and Control. May be obtained from Dose Assessment (Nuclear Chemistry), the REAM, or, if a General Emergency has been declared, from Attachment 6.
- Step 11: Wind Direction and Wind Speed may be obtained from RDACS (preferred), chart recorders in Unit 1 Control Room, or Corps of Engineers, Dardanelle Lock and Dam. Stability class may be obtained from RDACS (preferred) or from Dose Assessment (Nuclear Chemistry) personnel.
- Step 12: If a radioactive release is in progress, the estimated duration of the release may be obtained from the Shift Superintendent or the Technical Support Center Director.

Radiological release data may be obtained from Dose Assessment (Nuclear Chemistry) personnel or the REAM.