
Document Update Notification

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DOCUMENT NO: OP-1903.011

TITLE: EMERGENCY RESPONSE/
NOTIFICATIONS

REVISION NO: 025-04-0

CHANGE NO: PC-04

SUBJECT: PERMANENT CHANGE (PC)

☒ *If this box is checked, please sign, date, and return transmittal
in envelope provided.*

☐ ANO-1 Docket 50-313

☐ ANO-2 Docket 50-368

Signature

Date

A045

ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

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TITLE: Emergency Response/Notifications

PROC/WORK PLAN NO.
1903.011

CHANGE NO.
025-04-0

SET # 103

WORK PLAN EXP. DATE
N/A

TC EXP. DATE
N/A

SAFETY-RELATED
☒ YES ☐ NO

IPTE
☐ YES ☒ NO

TEMP ALT
☐ YES ☒ NO

When you see these TRAPS

Get these TOOLS

Time Pressure
Distraction/Interruption
Multiple Tasks
Over Confidence
Vague or Interpretive Guidance
First Shift/Last Shift
Peer Pressure
Change/Off Normal
Physical Environment
Mental Stress (Home or Work)

Effective Communication
Questioning Attitude
Placekeeping
Self Check
Peer Check
Knowledge
Procedures
Job Briefing
Coaching
Turnover

VERIFIED BY

DATE

TIME

FORM TITLE:

VERIFICATION COVER SHEET

FORM NO.
1000.006A

CHANGE NO.
048-00-0

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TITLE: Emergency Response/Notifications

PROC/WORK PLAN NO.
1903.011

CHANGE NO.
025-04-0

☒ PROCEDURE

☐ WORK PLAN, EXP. DATE N/A

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TYPE OF CHANGE:

☐ NEW

☐ REVISION

☒ PC

☐ TC

☐ DELETION

Procedure or Work Plan

☐ EZ

EXP. DATE: N/A

AFFECTED SECTION:
(Include step # if applicable)

DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.)

TOC

Changed page numbers as appropriate.

Section 4.0 Definitions

Rearranged definitions to alphabetical order.

Step 4.9

Added complete definition for evacuation routes.

Step 4.12

Deleted "not covered by section 4.8" and replaced with "outside the Exclusion Area boundary.

Step 4.16

Added complete definition for REAM.

Section 5.0

Deleted step numbers 5.1.1, 5.2.1, 5.3.1, 5.4.1 and 5.5.1 under steps 5.1, 5.2, 5.3, 5.4 and 5.5 respectively. Did not delete text only step number.

Attachment 3 Page 1 of 2

Under Shift Superintendent line read "1903.011, Att. 5 ..." changed to read "Attachment 5, ..."

Form 1903.011P, Step 4

Deleted "If a plant evacuation has been performed, Then perform the following announcement" and replaced with "Has a plant evacuation been performed?"
No - Then proceed to step 5

Yes - Then perform the following announcement"

Form 1903.011P, Step 5

Deleted "based on symptoms and wind direction utilizing the chart below:" and added "5.1 DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?"
☐ YES - THEN determine the available routes from the chart below using wind direction.
☐ NO - THEN use any of the 3 routes that are not affected, as necessary."
Added step number "5.2".

Form 1903.011P, Step 7

Added "(ext. 3388, 3108 and 3109)" security telephone number.

Form 1903.011P, Step 7.2

Added "Perform"

Form 1903.011P, Step 8

Added "(CA1 - 5166 or CA2 - 3018)" Radiation Protection telephone numbers.

FORM TITLE:

DESCRIPTION OF CHANGE

FORM NO.
1000.006C

CHANGE NO.
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PROC/WORK PLAN NO.
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☒ PROCEDURE

☐ WORK PLAN, EXP. DATE N/A

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TYPE OF CHANGE:

☐ NEW

☐ REVISION

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☐ TC

☐ DELETION

Procedure or Work Plan

☐ EZ

EXP. DATE: N/A

AFFECTED SECTION:
(Include step # if applicable)

Form 1903.011Q, Step 4

DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.)

Deleted "If a plant evacuation has been performed, Then perform the following announcement" and replaced with

"Has a plant evacuation been performed?"

No - Then proceed to step 5

Yes - Then perform the following announcement"

Form 1903.011Q, Step 5

Deleted "based on symptoms and wind direction utilizing the chart below:" and added "5.1 DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?"

☐ YES - THEN determine the available routes from the chart below using wind direction.

☐ NO - THEN use any of the 3 routes that are not affected, as necessary."

Form 1903.011Q, Step 7

Added "(ext. 3388, 3108 and 3109)" security telephone number.

Form 1903.011Q, Step 7.2

Added "Perform"

Form 1903.011Q, Step 8

Added "(CA1 - 5166 or CA2 - 3018)" Radiation Protection telephone numbers.

Form 1903.011R, Step 4

Deleted "If a plant evacuation has not been performed, Then immediately request the TSCD to perform the plant evacuation section of form 1903.011Q. Go to Step 4" and replaced with

"Has a plant evacuation been performed?"

Yes - Go To step 3

No - Then immediately request the TSC Director to perform the Plant Evacuation section of Form 1903.011Q.

Go To step 5"

Form 1903.011Q, Step 4

Added complete step "Request the TSCD to evaluate the need for an Exclusion Area Evacuation."

Attachment 5 under
Shift Superintendent,
TSCD and EOFD

Deleted "1903.011, Att." and change to "Attachment" where appropriate.

FORM TITLE:

DESCRIPTION OF CHANGE

FORM NO.
1000.006C

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|---|--|--------------------------------|------------------------|
| TITLE: Emergency Response/Notifications | | PROC/WORK PLAN NO. 1903.011 | CHANGE NO. 025-04-0 |
| <input checked="" type="checkbox"/> PROCEDURE <input type="checkbox"/> WORK PLAN, EXP. DATE <u>N/A</u> | | PAGE <u>3</u> OF <u>4</u> | |
| TYPE OF CHANGE: <input type="checkbox"/> NEW <input type="checkbox"/> REVISION <input checked="" type="checkbox"/> PC <input type="checkbox"/> TC <input type="checkbox"/> DELETION Procedure or Work Plan <input type="checkbox"/> EZ EXP. DATE: <u>N/A</u> | | | |
| AFFECTED SECTION: (Include step # if applicable) | DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.) | | |
| Form 1903.011S, Step 4 | Deleted "If a plant evacuation has been performed, Then perform the following announcement" and replaced with "Has a plant evacuation been performed? No - Then proceed to step 5 Yes - Then perform the following announcement" | | |
| Form 1903.011S, Step 5 | Deleted "based on symptoms and wind direction utilizing the chart below:" and added "5.1 <u>DOES</u> a radiological or toxic gas release exist or is a release suspected, which is originating from the plant? <input type="checkbox"/> YES - <u>THEN</u> determine the available routes from the chart below using wind direction. <input type="checkbox"/> NO - <u>THEN</u> use any of the 3 routes that are not affected, as necessary." Added step number "5.2" to next instruction. | | |
| Form 1903.011S, Step 7 | Added "(ext. 3388, 3108 and 3109)" security telephone number. | | |
| Form 1903.011S, Step 7.2 | Added "Perform" | | |
| Form 1903.011S, Step 8 | Added "(CA1 - 5166 or CA2 - 3018)" Radiation Protection telephone numbers. | | |
| Form 1903.011S, Step 12 | Deleted "If the incident extends into the Exclusion Area, THEN perform the following:" and replaced it with "Has an exclusion area evacuation been performed? Yes - Go To Step 13 No - Then perform the following". | | |
| Form 1903.011T, Step 4 | Deleted "If a plant evacuation has been performed, Then perform the following announcement" and replaced with "Has a plant evacuation been performed? No - Then proceed to step 5 Yes - Then perform the following announcement" | | |
| FORM TITLE: DESCRIPTION OF CHANGE | | FORM NO. 1000.006C | CHANGE NO. 048-00-0 |

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|---|---|--------------------------------|------------------------|
| TITLE: Emergency Response/Notifications | | PROC/WORK PLAN NO. 1903.011 | CHANGE NO. 025-04-0 |
| <input checked="" type="checkbox"/> PROCEDURE <input type="checkbox"/> WORK PLAN, EXP. DATE <u>N/A</u> | | PAGE <u>4</u> OF <u>4</u> | |
| TYPE OF CHANGE: <input type="checkbox"/> NEW <input type="checkbox"/> REVISION <input checked="" type="checkbox"/> PC <input type="checkbox"/> TC <input type="checkbox"/> DELETION Procedure or Work Plan <input type="checkbox"/> EZ EXP. DATE: <u>n/a</u> | | | |
| AFFECTED SECTION: (Include step # if applicable) Form 1903.011T, Step 5 Form 1903.011T, Step 7 Form 1903.011T, Step 7.2 Form 1903.011T, Step 8 Form 1903.011T, Step 11 Form 1903.011U, Step 2 Form 1903.011U, Step 4 Form 1903.011P, S step 11 Form 1903.011Q, T, step 9 <i>Attachment 9 Page 4 of 5</i> | DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.) Deleted "based on symptoms and wind direction utilizing the chart below:" and added " DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant? <input type="checkbox"/> YES - THEN determine the available routes from the chart below using wind direction. <input type="checkbox"/> NO - THEN use any of the 3 routes that are not affected, as necessary." Added "(ext. 3388, 3108 and 3109)" security telephone number. Added "Perform" Added "(CA1 - 5166 or CA2 - 3018)" Radiation Protection telephone numbers. Deleted "If the incident extends into the Exclusion Area, THEN perform the following:" and replaced it with "Has an exclusion area evacuation been performed? Yes - Go To Step 12 No - Then perform the following". Deleted "If a plant evacuation has not been performed, Then immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011T of this procedure. Go to step 4." Replaced with "Has a plant evacuation been performed? Yes - Go to Step 3. No - The immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011T of this procedure" Added complete step "Request the TSC Director to perform an exclusion area evacuation." Added "(operators, chemist, RP, Etc.)" Added "11" to step to make the TSCD instruct the SS to perform step 9, 10 and 11 instead of 9 and 10 only. <i>Changed Note that had instruction in it to a - Step. step 1 under Section 4 and renumbered.</i> | | |
| FORM TITLE: DESCRIPTION OF CHANGE | | FORM NO. 1000.006C | CHANGE NO. 048-00-0 |

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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 ANO EAL Bases Document
- 3.1.3 NUREG-0654/FEMA-REP-1, Rev. 1
- 3.1.4 10 CFR 50
- 3.1.5 IE Information Notice No. 83-28: Criteria for Protective Action Recommendations for General Emergencies
- 3.1.6 U.S. NRC, Response Technical Manual (RTM-93) Volume 1 Revision 3.
- 3.1.7 Memorandum ANO-98-00352, Subject: ADH Courtesy Call Agreement.

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"

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- 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
- 3.2.14 1604.015, "Analysis of Unit Vents"
- 3.2.15 1604.017, "Analysis of Liquid Waste"
- 3.3 RELATED ANO PROCEDURES:
None
- 3.4 REGULATORY CORRESPONDENCE CONTAINING NRC COMMITMENTS WHICH ARE IMPLEMENTED IN THIS PROCEDURE INCLUDE: **[BOLD]** DENOTES COMMITMENTS
 - 3.4.1 0CAN039701 (P-15339) 1903.011BB steps 6 and 7, 1903.011CC steps 7 and 8.
 - 3.4.2 0CAN068104 (P-10936) 1903.011BB and 1903.011CC
 - 3.4.3 TELCONDWB91006 (P-1735) section 6.4, 1903.011BB step 6
 - 3.4.4 0CAN089209 (P-3335) 1903.011 Attachment 9
 - 3.4.5 0CAN068503 (P-4584) 1903.011BB note page 4, 1903.011CC note page 3
 - 3.4.6 1CAN047910 (P-7596) section 6.3.2
 - 3.4.7 2CAN047912 (P-7706) 1903.011BB step 6, 1903.011CC step 7
 - 3.4.8 0CAN058411 (P-9461) 1903.011Y step 3
 - 3.4.9 0CAN118307 (P-9875) section 6.2
 - 3.4.10 0CAN068320 (P-10766) section 6.2
 - 3.4.11 0CAN128012 (P-10455) 1903.011 Attachment 9
 - 3.4.12 0CNA108215 (P-10847) 1903.011 Attachment 9
 - 3.4.13 0CAN068320 (P-10758) 1903.011Z
 - 3.4.14 0CAN059701 (P-15456) 1903.011(J,M,P,S) step 5 and 1903.011Y step 3
 - 3.4.15 0CAN098206 (P-9466) 1903.011BB step 4, 1903.011CC steps 4 and 5
 - 3.4.16 1CAN088308 (P-9589) 1903.011 Attachment 1
 - 3.4.17 0CAN108213 (P-10823) 1903.011BB step 4, 1903.011CC steps 4 and 5

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4.0 DEFINITIONS

- 4.1 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.
- 4.2 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.
- 4.3 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
- 4.4 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.
- 4.5 Emergency Operations Facility (EOF) - A near-site emergency response facility located approximately 0.65 miles northeast of the reactor buildings (the ANO Training Center).
- 4.6 Emergency Planning Zone (EPZ) - The EPZ considered by this procedure is the inhalation zone, that area within approximately a 10-mile radius of ANO.
- 4.7 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 either Control Room or in the Technical Support Center and should be activated within one hour of an ALERT or higher emergency class declaration.
- 4.8 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.

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- 4.9 Evacuation Routes - Routes used by ANO personnel that may be used to exit the plant site in the event of a plant or exclusion area evacuation, defined as follows:
- 4.9.1 Evacuation Route 1 - From the main guard station, proceed East along the intake canal to May Road, then North to State Road 333.
- 4.9.2 Evacuation Route 2 - From the main guard station, proceed West, then North past the cooling tower and then sally port, using the North access road to State Road 333.
- 4.9.3 Evacuation Route 3 - From the main guard station, proceed West, then continue West along the West access road to Flatwood Road, and continue on Flatwood Road North to State Road 333.
- 4.10 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.
- 4.11 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.
- 4.12 Offsite - Those areas outside the Exclusion Area boundary.
- 4.13 Onsite - The area within the Exclusion Area Boundary.
- 4.14 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.
- 4.15 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.
- 4.16 REAM (Radiological/Environmental Assessment Manager) - Responsible for managing radiological dose assessment and field monitoring activities. Provides offsite Protective Action Recommendations (PAR) to the EOF Director. Coordinates the ANO offsite radiological monitoring effort with the Arkansas Department of Health (ADH) and the NRC. The EOF HP Supervisor and the Dose Assessment Supervisor report to the REAM.
- 4.17 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.

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- 4.18 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.

5.0 RESPONSIBILITY AND AUTHORITY

5.1 SHIFT SUPERINTENDENT

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)

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)

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

Communicators are responsible for performing emergency response notifications/communications.

5.5 EMERGENCY RESPONSE ORGANIZATION (ERO)

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".

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

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6.1.2 At the termination of the event, provide summaries to the Nuclear Regulatory Commission (NRC) and Arkansas Department of Health (ADH). Notify both parties of the event termination using Form 1903.011Y.

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.

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 NON-EMERGENCY/OFF-NORMAL EVENTS

IF the off-normal event does not require an emergency class declaration,

THEN "Information Only" notifications to designated Entergy management representatives, the NRC Resident Inspector and, in some cases, the Arkansas Department of Health (ADH) may be warranted.

To determine if a non-emergency notification should be performed, review the conditions described below:

6.3.1 Courtesy Calls - ANO has agreed to notify the STATE OF ARKANSAS for the following non-Emergency Class events:

NOTE

Potential Public Interest events, which will not require a news release, do not require a Courtesy Call (excluding Steps A and B below). The on-call EOF Director and Communications Manager should decide upon the initiation of a news release and inform the Shift Superintendent.

- A. An UNPLANNED release of radioactive material has occurred OR may occur. (Refer to procedures 1604.015 or 1604.017 for definition of "unplanned release".)
- B. An UNPLANNED reactor trip from power has occurred.
- C. An event has occurred for which a news release is planned (refer to Station Directive A6.202, "Public Communications", Attachment 1).

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- D. A notification has been made OR will be made to other government agencies for events that have impacted OR will impact the public health and safety.

A Courtesy Call should be made as soon as practicable following the event but no later than 4 hours following the event. Notification to the NRC Operations Center shall be performed no later than 4 hours following the event. These notifications should be made utilizing form 1903.011AA, "Courtesy Call Notification Message" and 1903.011DD, "Courtesy Call Notification Checklist".

6.3.2 [NRC Reportable/Non-Emergency Events

Events which are reportable in accordance with 10CFR50.72 but which do NOT meet the criteria for emergency class declaration as delineated in Procedure 1903.010, "Emergency Action Level Classification."

The "information only" notifications described in this procedure are supplemental to the immediate notifications required by regulation which are determined in accordance with Procedure 1000.104, "Condition Reporting." The Shift Engineer (from either unit) should notify the appropriate parties using Attachment 11.]

6.3.3 Shift Superintendent's Discretion

Any off-normal event for which the Shift Superintendent determines that notification to Entergy management representatives and the NRC Resident Inspector is prudent. The Shift Engineer (from either unit) should notify the appropriate parties using Attachment 11.

[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 either Control Room 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

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- 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 - Computerized Notification System (CNS) Instructions
- 7.10 Attachment 10 - Emergency Class Notification Instructions
- 7.11 Attachment 11 - Non-Emergency Notifications of Off-Normal Events
- 7.12 Form 1903.011J - NUE Emergency Direction and Control Checklist, Shift Superintendent
- 7.13 Form 1903.011K - NUE Emergency Direction and Control Checklist, TSC Director
- 7.14 Form 1903.011L - NUE Emergency Direction and Control Checklist, EOF Director
- 7.15 Form 1903.011M - Alert Emergency Direction and Control Checklist, Shift Superintendent
- 7.16 Form 1903.011N - Alert Emergency Direction and Control Checklist, TSC Director
- 7.17 Form 1903.011O - Alert Emergency Direction and Control Checklist, EOF Director
- 7.18 Form 1903.011P - SAE Emergency Direction and Control Checklist, Shift Superintendent
- 7.19 Form 1903.011Q - SAE Emergency Direction and Control Checklist, TSC Director
- 7.20 Form 1903.011R - SAE Emergency Direction and Control Checklist, EOF Director
- 7.21 Form 1903.011S - GE Emergency Direction and Control Checklist, Shift Superintendent
- 7.22 Form 1903.011T - GE Emergency Direction and Control Checklist, TSC Director
- 7.23 Form 1903.011U - GE Emergency Direction and Control Checklist, EOF Director
- 7.24 Form 1903.011Y - Emergency Class Initial Notification Message
- 7.25 Form 1903.011Z - Emergency Class Follow-up Notification Message
- 7.26 Form 1903.011AA - Courtesy Call Notification Message
- 7.27 Form 1903.011BB - Initial Notification Checklist

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- 7.28 Form 1903.011CC - Follow-up Notification Checklist
- 7.29 Form 1903.011DD - Courtesy Call Notification Checklist

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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' (N/A).
- 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 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

TSC Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

EOF Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

NUE

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:

Unit _____ Time _____ Date _____

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

NOTE

If a dual-unit emergency is occurring, the Shift Superintendents should quickly decide which Shift Engineer will perform offsite notifications. Immediately contact an additional notification communicator by pager [Pager No. 964-1643]. This does not relieve the Shift Engineer of the responsibility for performing STA functions, so it is imperative that additional communicator support is obtained as soon as possible.

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

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. A Notification of Unusual Event has been declared on Unit _____ (One/Two). All personnel continue normal activities unless instructed otherwise."

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

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

5.1 Refer to Form 1903.030C, "Localized Evaluation Checklist", to determine if a localized evacuation will be performed.]

6. IF an approach route to the plant site should be avoided,
THEN 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. IF a radiological release is involved,
THEN direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

Performed by : _____
Shift Superintendent

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | FORM NO. 1903.011J | REV. 025-04-0 |
|--|------------------------------|-------------------------|

NUE

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:

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 1903.011BB, "Initial Notification Checklist".

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. A Notification of Unusual Event has been declared on Unit _____ (One/Two). All personnel continue normal activities unless instructed otherwise."

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

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

5.1 Refer to Form 1903.030C, "Localized Evaluation Checklist", to determine if a localized evacuation will be performed.

6. IF a radiological release is involved,
THEN 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,
THEN instruct Security to direct incoming traffic.

Performed by : _____
Technical Support Center Director

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR | FORM NO. 1903.011K | REV. 025-04-0 |
|--|------------------------------|-------------------------|

NUE

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:

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 1903.011BB, "Initial Notification Checklist."

3.1 Assign additional personnel to assist as necessary.

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

"Attention all personnel. Attention all personnel. A Notification of Unusual Event has been declared on Unit _____ (One/Two). All personnel continue normal activities unless instructed otherwise."

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

5. Inform the TSC Director (or the Shift Superintendent if the TSC Director is not available) of the NUE declaration.

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

Performed by : _____
 Emergency Operations Facility Director

| | | |
|---|-----------------------|------------------|
| FORM TITLE: NUE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR | FORM NO. 1903.011L | REV. 025-04-0 |
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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' (N/A).
- 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 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

Attachment 5, Alternate ERO Notification Scheme

TSC Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

EOF Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

ALERT

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:

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Alert:

EAL No. _____ Description: _____

NOTE

If a dual-unit emergency is occurring, the Shift Superintendents should quickly decide which Shift Engineer will perform offsite notifications. Immediately contact an additional notification communicator by pager [Pager No. 964-1643]. This does not relieve the Shift Engineer of the responsibility for performing STA functions, so it is imperative that additional communicator support is obtained as soon as possible.

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

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,
THEN direct implementation of protective actions as necessary.

5.1 Refer to Form 1903.030C, "Localized Evacuation Checklist", to determine if a localized evacuation will be performed.]

6. IF an approach route to the plant site should be avoided,
THEN 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. IF a radiological release is involved,
THEN direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

Performed by : _____
 Shift Superintendent

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | FORM NO. 1903.011M | REV. 025-04-0 |
|--|------------------------------|-------------------------|

ALERT

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:

Unit _____ Time _____ Date _____

2. Conditions warranting declaration of an Alert:

EAL No. _____ Description: _____

3. Direct the communicator to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist".

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,
THEN direct implementation of protective actions as necessary.

5.1 Refer to Form 1903.030C, "Localized Evacuation Checklist", to determine if a localized evacuation will be performed.

6. IF a radiological release is involved,
THEN 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,
THEN 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 unit's Control Room.

Performed by : _____
 Technical Support Center Director

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR | FORM NO. 1903.011N | REV. 025-04-0 |
|--|------------------------------|-------------------------|

ALERT

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

3. Direct the Communicator to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist".

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,
THEN direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
6. 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: ALERT EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR | FORM NO. 1903.0110 | REV. 025-04-0 |
|--|------------------------------|-------------------------|

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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' (N/A).
- 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 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

Attachment 5, Alternate ERO Notification Scheme

TSC Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

| | | |
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ATTACHMENT 3

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SITE AREA EMERGENCY

EOF Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

SAE

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:

Unit _____ Time _____ Date _____

- ☐ 2. Conditions warranting declaration of a Site Area Emergency:

EAL No. _____ Description: _____

NOTE

If a dual-unit emergency is occurring, the Shift Superintendents should quickly decide which Shift Engineer will perform offsite notifications. Immediately contact an additional notification communicator by pager [Pager No. 964-1643]. This does not relieve the Shift Engineer of the responsibility for performing STA functions, so it is imperative that additional communicator support is obtained as soon as possible.

- ☐ 3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist".

3.1 Assign additional personnel to assist as necessary.

Plant Evacuation Section

- ☐ 4. Has a plant evacuation been performed?

☐ NO - THEN proceed to step 5.

☐ YES - THEN perform the following announcement:

A. Dial 197

B. Make the following announcement:

"Attention all personnel. Attention all personnel. A Site Area Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

C. Repeat the above announcement using the EOF public address system by dialing 199 and pausing approximately 15 seconds before making the announcement.

D. GO TO step 12.

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | FORM NO. 1903.011P | REV. 025-04-0 |
|--|------------------------------|-------------------------|

☐ 5. Determine the appropriate evacuation routes:

5.1 DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?

☐ YES - THEN determine the available routes from the chart below using wind direction.

IF wind direction is From: THEN use Evacuation Routes

| | |
|--------------------|-------------------------------------|
| 150 to 225 degrees | <input type="checkbox"/> 1 and 3 |
| 226 to 325 degrees | <input type="checkbox"/> 2 and 3 |
| 326 to 45 degrees | <input type="checkbox"/> 1, 2 and 3 |
| 46 to 149 degrees | <input type="checkbox"/> 1 |

☐ NO - THEN use any of the 3 routes that are not affected, as necessary.

☐ 5.2 Check the appropriate routes in the plant announcement, step 9 below.

☐ 6. Determine any areas of the plant to avoid during evacuation or special protective measures to be taken by plant evacuees.

☐ 7. Direct Security to perform the following (ext. 3388, 3108 or 3109):

☐ 7.1 If necessary, open and man the secondary guard station (if radiological conditions allow).

☐ 7.2 Perform initial accountability by _____ (Time)
(30 minutes from SAE declaration)

☐ 8. Contact Radiation Protection (CA1 - 5166 or CA2 - 3018):

☐ 8.1 Request Health Physics coverage at the plant exit portal monitors.

☐ 8.2 Instruct Health Physics personnel at the controlled access exit point to relax decontamination and radiation protection measures as necessary in order to expedite evacuation of the controlled access area.

☐ 9. Make the following announcement using the plant paging system (dial 197):

"Attention all personnel. Attention all personnel. A Site Area Emergency has been declared on Unit ____ (One/Two). Emergency response and emergency standby personnel report to your designated assembly areas and perform initial accountability. All other personnel evacuate the plant using evacuation route(s) ☐ 1 ☐ 2 ☐ 3 and proceed to the Atkins Emergency Worker Center."

☐ 9.1 Sound the evacuation alarm for approximately 10 seconds.

☐ 9.2 Repeat the announcement at least 2 times, alternating the announcement with the plant evacuation alarm.

| | | |
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| FORM TITLE: | FORM NO. | REV. |
| SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | 1903.011P | 025-04-0 |

- ☐ 10. Make the following announcement using the EOF public address system (dial 199 and pause approximately 15 seconds).

"Attention all personnel. Attention all personnel. A Site Area Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

- ☐ 11. Instruct the Control Room personnel (operators, chemists, RP, etc.) from both units to log into the designated security card reader using "0000".

- ☐ 12. IF the incident extends into the Exclusion Area,
THEN perform the following:

☐ 12.1 Request that the U.S. Army Corps of Engineers (telephone number located in Emergency Telephone Directory) control boat access to the portions of Lake Dardanelle within the exclusion area.

☐ 12.2 Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.

Plant Evacuation Section Ends

- ☐ 13. IF a radiological release is involved,
THEN direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

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

Performed by: _____
Shift Superintendent

| | | |
|---|-----------|----------|
| FORM TITLE: | FORM NO. | REV. |
| SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | 1903.011P | 025-04-0 |

SAE

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:

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 1903.011BB, "Initial Notification Checklist".

3.1 Assign additional personnel to assist as necessary.

Plant Evacuation Section

- ☐ 4. Has a plant evacuation been performed?

☐ NO - THEN proceed to step 5.

☐ YES - THEN perform the following announcement:

A. Dial 197

B. Make the following announcement:

"Attention all personnel. Attention all personnel. A Site Area Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

C. Repeat the above announcement using the EOF public address system by dialing 199 and pausing approximately 15 seconds before making the announcement.

D. GO TO step 11.

FORM TITLE:

SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011Q

REV.

025-04-0

- ☐ 5. Determine the appropriate evacuation routes:

DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?

- ☐ YES - THEN determine the available routes from the chart below using wind direction.

IF wind direction is From: THEN use Evacuation Routes

| | |
|--------------------|-------------------------------------|
| 150 to 225 degrees | <input type="checkbox"/> 1 and 3 |
| 226 to 325 degrees | <input type="checkbox"/> 2 and 3 |
| 326 to 45 degrees | <input type="checkbox"/> 1, 2 and 3 |
| 46 to 149 degrees | <input type="checkbox"/> 1 |

- ☐ NO - THEN use any of the 3 routes that are not affected, as necessary.

- ☐ 6. Determine any areas of the plant to avoid during evacuation or special protective measures to be taken by plant evacuees.
- ☐ 7. Direct Security to perform the following (ext. 3388, 3108 or 3109):
- ☐ 7.1 If necessary, open and man the secondary guard station (if radiological conditions allow).
- ☐ 7.2 Perform initial accountability by _____ (Time)
(30 minutes from SAE declaration)
- ☐ 8. Contact Radiation Protection (CA1 ext. 5166 or CA2 ext. 3018):
- ☐ 8.1 Request Health Physics coverage at the plant exit portal monitors.
- ☐ 8.2 Instruct Health Physics personnel at the controlled access exit point to relax decontamination and radiation protection measures as necessary in order to expedite evacuation of the controlled access area.
- ☐ 9. Direct the Shift Superintendent of the affected unit to perform the Emergency Class and plant evacuation announcement using Form 1903.011P steps 9, 10 and 11 of this procedure.
- ☐ 9.1 Inform the Shift Superintendent of the site evacuation routes determined in step 5.
- ☐ 9.2 Inform the Shift Superintendent of any plant areas to avoid during the plant evacuation and any special protective measures to be taken by plant evacuees.
- ☐ 10. Instruct the TSC personnel to log into the designated security card reader using "0000".

FORM TITLE:

SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011Q

REV.

025-04-0

- ☐ 11. IF the incident extends into the Exclusion Area,
THEN perform the following:
- ☐ 11.1 Request that the U.S. Army corps of Engineers (telephone number located in Emergency Telephone Directory) control boat access to the portions of Lake Dardanelle within the exclusion area.
- ☐ 11.2 Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.

Plant Evacuation Section Ends

- ☐ 12. IF a radiological release is involved,
THEN direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
- ☐ 13. IF an approach route to the plant site should be avoided,
THEN instruct Security to direct incoming traffic.
- ☐ 14. 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 : _____
Technical Support Center Director

| | | |
|--|------------------------------|-------------------------|
| FORM TITLE: SAE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR | FORM NO. 1903.011Q | REV. 025-04-0 |
|--|------------------------------|-------------------------|

SAE

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

- ☐ 1. Site Area Emergency declared: Unit _____ Time _____ Date _____
- ☐ 2. Has a plant evacuation been performed?
- ☐ YES - GO TO Step 3.
- ☐ NO - THEN immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011Q.
- GO TO Step 5.
- ☐ 3. Perform the following announcement:
- A. Dial 199
- B. Make the following announcement:
- "Attention all personnel. Attention all personnel. A Site Area Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."
- C. Repeat the above announcement using the plant public address system by dialing 197 and pausing approximately 15 seconds before making the announcement.
- ☐ 4. Request the TSCD to evaluate the need for an Exclusion Area Evacuation.
- ☐ 5. Conditions warranting declaration of a Site Area Emergency:
EAL NO. _____ Description: _____
- ☐ 6. Direct the Communicator to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist."
- ☐ 5.1 Assign additional personnel to assist as necessary.
- ☐ 7. Announce emergency class declaration to the EOF staff.
- ☐ 8. IF a radiological release is involved,
THEN direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
- ☐ 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. 025-04-0 |
|--|------------------------------|-------------------------|

| | | |
|--|---|--|
| PROC./WORK PLAN NO. 1903.011 | PROCEDURE/WORK PLAN TITLE: EMERGENCY RESPONSE/NOTIFICATIONS | PAGE: 29 of 69 CHANGE: 025-04-0 |
|--|---|--|

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' (N/A).
- 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 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

Attachment 5, Alternate ERO Notification Scheme

Attachment 6, Protective Action Recommendations (PAR) for General Emergency

Attachment 7, Core Fuel Damage Assessment, Unit 1

Attachment 8, Core Fuel Damage Assessment, Unit 2

TSC Director:

Form 1903.011T, "GE Emergency Direction and Control Checklist, TSC Director"

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

| | | |
|--|---|--|
| PROC./WORK PLAN NO. 1903.011 | PROCEDURE/WORK PLAN TITLE: EMERGENCY RESPONSE/NOTIFICATIONS | PAGE: 30 of 69 CHANGE: 025-04-0 |
|--|---|--|

ATTACHMENT 4

Page 2 of 2

GENERAL EMERGENCY

Form 1903.030B, "Plant Evacuation Checklist"

Attachment 6, Protective Action Recommendations (PAR) for General Emergency

Attachment 7, Core Fuel Damage Assessment, Unit 1

Attachment 8, Core Fuel Damage Assessment, Unit 2

EOF Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

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

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Follow-up Notification Checklist"

Attachment 6, Protective Action Recommendations (PAR) for General Emergency

Attachment 7, Core Fuel Damage Assessment, Unit 1

Attachment 8, Core Fuel Damage Assessment, Unit 2

GE

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

- ☐ 1. General Emergency declared:

Unit _____ Time _____ Date _____

- ☐ 2. Conditions warranting declaration of a General Emergency:

EAL No. _____ Description: _____

NOTE

If a dual-unit emergency is occurring, the Shift Superintendents should quickly decide which Shift Engineer will perform offsite notifications. Immediately contact an additional notification communicator by pager [Pager No. 964-1643]. This does not relieve the Shift Engineer of the responsibility for performing STA functions, so it is imperative that additional communicator support is obtained as soon as possible.

- ☐ 3. Direct the Communicator to the Control Room to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist".

☐ 3.1 Assign additional personnel to assist as necessary.

Plant Evacuation Section

- ☐ 4. Has a plant evacuation been performed,

☐ NO - GO TO Step 5

☐ YES - THEN perform the following:

A. Dial 197

B. Make the following announcement:

"Attention all personnel. Attention all personnel. A General Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

C. Repeat the above announcement using the EOF public address system by dialing 199 and pausing approximately 15 seconds before making the announcement.

D. GO TO step 12.

FORM TITLE:

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

FORM NO.

1903.011S

REV.

025-04-0

☐ 5. Determine the appropriate evacuation routes:

5.1 DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?

☐ YES - THEN determine the available routes from the chart below using wind direction.

IF wind direction is From: THEN use Evacuation Routes

| | |
|--------------------|-------------------------------------|
| 150 to 225 degrees | <input type="checkbox"/> 1 and 3 |
| 226 to 325 degrees | <input type="checkbox"/> 2 and 3 |
| 326 to 45 degrees | <input type="checkbox"/> 1, 2 and 3 |
| 46 to 149 degrees | <input type="checkbox"/> 1 |

☐ NO - THEN use any of the 3 routes that are not affected, as necessary.

☐ 5.2 Check the appropriate routes in the plant announcement, step 9 below.

☐ 6. Determine any areas of the plant to avoid during evacuation or special protective measures to be taken by plant evacuees.

☐ 7. Direct Security to perform the following (ext. 3388, 3108 or 3109):

☐ 7.1 If necessary, open and man the secondary guard station (if radiological conditions allow).

☐ 7.2 Perform initial accountability by _____ (Time)
(30 minutes from GE declaration)

☐ 8. Contact Radiation Protection (CA1 - 5166 or CA2 - 3018):

☐ 8.1 Request Health Physics coverage at the plant exit portal monitors.

☐ 8.2 Instruct Health Physics personnel at the controlled access exit point to relax decontamination and radiation protection measures as necessary in order to expedite evacuation of the controlled access area.

☐ 9. Make the following announcement using the plant paging system (dial 197):

"Attention all personnel. Attention all personnel. A General Emergency has been declared on Unit ____ (One/Two). Emergency response and emergency standby personnel report to your designated assembly areas and perform initial accountability. All other personnel evacuate the plant using evacuation route(s) ☐ 1 ☐ 2 ☐ 3 and proceed to the Atkins Emergency Worker Center."

☐ 9.1 Sound the evacuation alarm for approximately 10 seconds.

☐ 9.2 Repeat the announcement at least 2 times, alternating the announcement with the plant evacuation alarm.

☐ 10. Make the following announcement using the EOF public address system (dial 199 and pause approximately 15 seconds).

"Attention all personnel. Attention all personnel. A General Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

FORM TITLE:

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

FORM NO.

1903.011S

REV.

025-04-0

- ☐ 11. Instruct the Control Room personnel (operators, chemists, RP, etc.) from both units to log into the designated security card reader using "0000".
- ☐ 12. Has an exclusion area evacuation been performed?
- ☐ YES - GO TO Step 13
- ☐ NO - THEN perform the following:
- ☐ Request that the U.S. Army Corps of Engineers (telephone number located in Emergency Telephone Directory) control boat access to the portions of Lake Dardanelle within the exclusion area.
- ☐ Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.

Plant Evacuation Section Ends

- ☐ 13. Determine the appropriate Protective Action Recommendation using Attachment 6, "Protective Action Recommendations (PAR) for General Emergency".
- PAR No. _____
- ☐ 14. IF a radiological release is involved,
THEN direct Nuclear Chemistry personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".
- ☐ 15. IF an approach route to the plant site should be avoided,
THEN 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.)

Performed by : _____
Shift Superintendent

| | | |
|---|------------------------------|-------------------------|
| FORM TITLE: GE EMERGENCY DIRECTION AND CONTROL CHECKLIST SHIFT SUPERINTENDENT | FORM NO. 1903.011S | REV. 025-04-0 |
|---|------------------------------|-------------------------|

GE

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:

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 1903.011BB, "Initial Notification Checklist".

- ☐ 3.1 Assign additional personnel to assist as necessary.

Plant Evacuation Section

- ☐ 4. Has a plant evacuation been performed?

- ☐ NO - Go To step 5

- ☐ YES - perform the following:

A. Dial 197

B. Make the following announcement:

"Attention all personnel. Attention all personnel. A General Emergency has been declared on Unit ____ (One/Two). Emergency response personnel report to your designated assembly areas."

C. Repeat the above announcement using the EOF public address system by dialing 199 and pausing approximately 15 seconds before making the announcement.

D. GO TO step 11

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011T

REV.

025-04-0

- ☐ 5. Determine the appropriate evacuation routes:

DOES a radiological or toxic gas release exist or is a release suspected, which is originating from the plant?

- ☐ **YES** - **THEN** determine the available routes from the chart below using wind direction.

IF wind direction is From: **THEN** use Evacuation Routes

| | |
|--------------------|-------------------------------------|
| 150 to 225 degrees | <input type="checkbox"/> 1 and 3 |
| 226 to 325 degrees | <input type="checkbox"/> 2 and 3 |
| 326 to 45 degrees | <input type="checkbox"/> 1, 2 and 3 |
| 46 to 149 degrees | <input type="checkbox"/> 1 |

- ☐ **NO** - **THEN** use any of the 3 routes that are not affected, as necessary.

- ☐ 6. Determine any areas of the plant to avoid during evacuation or special protective measures to be taken by plant evacuees.
- ☐ 7. Direct Security to perform the following (ext. 3388, 3108 or 3109):
- ☐ 7.1 If necessary, open and man the secondary guard station (if radiological conditions allow).
- ☐ 7.2 Perform initial accountability by _____ (Time)
(30 minutes from GE declaration)
- ☐ 8. Contact Radiation Protection (CA1 - 5166 or CA2 - 3018):
- ☐ 8.1 Request Health Physics coverage at the plant exit portal monitors.
- ☐ 8.2 Instruct Health Physics personnel at the controlled access exit point to relax decontamination and radiation protection measures as necessary in order to expedite evacuation of the controlled access area.
- ☐ 9. Direct the Shift Superintendent of the affected unit to perform the Emergency Class and plant evacuation announcement using Form 1903.011S steps 9, 10 and 11 of this procedure.
- ☐ 9.1 Inform the Shift Superintendent of the site evacuation routes determined in step 5.
- ☐ 9.2 Inform the Shift Superintendent of any plant areas to avoid during the plant evacuation and any special protective measures to be taken by plant evacuees.
- ☐ 10. Instruct the TSC personnel to log into the designated security card reader using "0000".

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011T

REV.

025-04-0

☐ 11. Has an Exclusion Area evacuation been performed?

☐ YES - Go To Step 12

☐ NO - THEN perform the following:

☐ Request that the U.S. Army corps of Engineers (Emergency Telephone Directory, section 6) control boat access to the portions of Lake Dardanelle within the exclusion area.

☐ Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.

Plant Evacuation Section Ends

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

PAR No. _____

☐ 13. IF a radiological release is involved,
THEN direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

☐ 14. IF an approach route to the plant site should be avoided,
THEN instruct Security to direct incoming traffic.

☐ 15. 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 : _____
Technical Support Center Director

FORM TITLE:

GE EMERGENCY DIRECTION AND CONTROL CHECKLIST TSC DIRECTOR

FORM NO.

1903.011T

REV.

025-04-0

GE

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:

Unit _____ Time _____ Date _____

- ☐ 2. Has a plant evacuation been performed?

☐ **YES - GO TO** step 3

☐ **NO - THEN immediately** request the TSC Director to perform the Plant Evacuation Section of Form 1903.011T of this procedure.

GO TO step 5.

- ☐ 3. Perform the following:

A. Dial 199

B. Make the following announcement:

"Attention all personnel. Attention all personnel. A General Emergency has been declared on Unit _____ (One/Two). Emergency response personnel report to your designated assembly areas."

C. Repeat the above announcement using the plant public address system by dialing 197 and pausing approximately 15 seconds before making the announcement.

- ☐ 4. Request the TSC Director to perform an exclusion area evacuation.

- ☐ 5. Conditions warranting declaration of a General Emergency:

EAL No. _____ Description: _____

- ☐ 6. Direct the Communicator to initiate the notifications specified on Form 1903.011BB, "Initial Notification Checklist".

☐ 5.1 Assign additional personnel to assist as necessary.

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

PAR No. _____

REAM Review: _____

- ☐ 8. Announce emergency class declaration to the EOF staff.

- ☐ 9. **IF** a radiological release is involved,
THEN direct Dose Assessment personnel to implement procedure 1904.002, "Offsite Dose Projection - RDACS Computer Method".

- ☐ 10. 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: | FORM NO. | REV. |
| GE EMERGENCY DIRECTION AND CONTROL CHECKLIST EOF DIRECTOR | 1903.011U | 025-04-0 |

INITIAL NOTIFICATION MESSAGE

Use for **Emergency Class DECLARATION, CHANGE (Upgrade or Downgrade), or TERMINATION****NOTE**

State and local officials must be notified of the emergency class within
15 minutes of the emergency declaration time.

1. MESSAGE NUMBER: _____ Date: _____ Time: _____

2. MESSAGE: _____

This is _____ at Arkansas Nuclear One. My
(Communicator's name)
phone number is (501) 858-_____.

This is ☐ **AN ACTUAL EVENT** ☐ **A DRILL.**

- ☐ **A NOTIFICATION OF UNUSUAL EVENT was DECLARED**
☐ **An ALERT was DECLARED**
☐ **A SITE AREA EMERGENCY was DECLARED**
☐ **A GENERAL EMERGENCY was DECLARED**
☐ **The Emergency was TERMINATED**

on ☐ **UNIT 1** ☐ **UNIT 2** on _____ at _____ based on
(date) (time)

EAL No. _____

The wind is FROM _____ degrees at _____ miles per hour.

Recommended Protective Actions are:

- ☐ **NONE AT THIS TIME**
☐ **EVACUATE ZONES:** _____
☐ **SHELTER ZONES:** _____

Comments: _____

More information will follow shortly.

[3. APPROVED: _____
☐ Shift Superintendent ☐ TSC Director ☐ EOF Director]

FORM TITLE:

EMERGENCY CLASS INITIAL NOTIFICATION MESSAGE

FORM NO.

1903.011Y

REV.

025-04-0

FOLLOWUP NOTIFICATION MESSAGE

1. MESSAGE NO. _____ Date: _____ Time: _____
2. Reported By: _____ Tel. No. (501) 858- _____
3. This is ☐ AN ACTUAL EVENT ☐ A DRILL
4. EMERGENCY CLASSIFICATION:
☐ NOTIFICATION OF UNUSUAL EVENT ☐ SITE AREA EMERGENCY ☐ TERMINATION
☐ ALERT ☐ GENERAL EMERGENCY
5. DECLARED ON: ☐ Unit 1 ☐ Unit 2 Date: _____ Time: _____
6. PROGNOSIS: ☐ Degrading ☐ Stable ☐ Improving
7. RECOMMENDED PROTECTIVE ACTIONS:
☐ NONE AT THIS TIME
☐ EVACUATE ZONES: _____
☐ SHELTER ZONES: _____
8. INCIDENT DESCRIPTION/COMMENTS:
EAL NO. _____ EAL CONDITION: _____

COMMENTS: _____

9. REACTOR SHUTDOWN? ☐ NO ☐ YES Date: _____ Time: _____
10. OTHER UNIT STATUS: _____
11. MET DATA: Wind Direction FROM _____ Degrees at _____ MPH
Stability Class: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G
Precipitation: ☐ None ☐ Rain ☐ Sleet ☐ Snow
12. RADIOLOGICAL RELEASE:
☐ NONE ☐ RELEASE OCCURRED BUT STOPPED; Duration: _____ hrs
☐ RELEASE OCCURRING: Time Started _____ Expected Duration: _____ hrs
13. GASEOUS RELEASE? ☐ Yes ☐ No (GO TO Item 14)
RELEASE RATE: PARTICULATE: _____ Ci/sec IODINE: _____ Ci/sec
NOBLE GAS: _____ Ci/sec
- ESTIMATE OF PROJECTED OFF-SITE DOSE:
- | TEDE DOSE (mRem) | | CHILD THYROID DOSE (CDE) (mRem) | |
|------------------|-------------|---------------------------------|-------------|
| 0.62 miles: | 3.45 miles: | 0.62 miles: | 3.45 miles: |
| 1.45 miles: | 7.23 miles: | 1.45 miles: | 7.23 miles: |
14. LIQUID RELEASE? ☐ Yes ☐ No (GO TO Item 15)
☐ Greater than ODCM Limitations ☐ Greater than 10 X ODCM Limitations
15. APPROVED: _____
☐ Shift Superintendent ☐ TSC Director ☐ EOF Director

FORM TITLE:

EMERGENCY CLASS FOLLOWUP NOTIFICATION MESSAGE

FORM NO.

[1903.011Z]

REV.

025-04-0

COURTESY CALL NOTIFICATION MESSAGE

Use for COURTESY CALLS

MESSAGE:

This is _____ at Arkansas Nuclear One. My
(Communicator's name)
phone number is (501) 858-_____.

This COURTESY CALL is being made because:

- ☐ An UNPLANNED release of radioactive material has occurred OR may occur.
☐ An UNPLANNED reactor trip from power has occurred.
☐ An event has occurred for which a news release is planned.
☐ A notification has been made or will be made to other government agencies for events that have impacted or will impact the public health and safety.

At _____ on _____ the following event(s) occurred on
(time) (date)

- ☐ UNIT 1
☐ UNIT 2
☐ The ANO Site

(describe event): _____

APPROVED: _____
Shift Superintendent

FORM TITLE:

COURTESY CALL NOTIFICATION MESSAGE

FORM NO.

1903.011AA

REV.

025-04-0

ACTIONS FOR INITIAL NOTIFICATION

NOTE

The Emergency Telephone Directory contains emergency telephone numbers.

NOTE

The 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 #_____. Refer to Attachment 10 for instructions.
- 2. Place 1903.011Y face down in DEF/VS fax document tray and press **RED** fax button.

Time:_____ Date:_____

- 3. **IF** this is a termination message OR ERO has already been activated for an **ALERT or higher** emergency class **THEN GO TO** Step 5.

CONTINGENCY ACTIONS

- 1. None
- 2. Use non-dedicated fax to send 1903.011Y to ADH.
Fax number: *9-1-501-671-1406*

Time:_____ Date:_____

From the Control Room:
Use non-dedicated fax to send 1903.011Y to:

TSC: *858-6622*
EOF: *858-6957*

From the TSC:
Use non-dedicated fax to send 1903.011Y to:

EOF: *858-6957*

From the EOF:
Use non-dedicated fax to send 1903.011Y to:

TSC: *858-6622*

- 3. None

NOTE

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

FORM TITLE:

INITIAL NOTIFICATION CHECKLIST

FORM NO.

[1903.011BB]

REV.

025-04-0

INSTRUCTIONSCONTINGENCY ACTIONS

— 4. [Start CNS using Attachment 9.]

4. Page the ERO.

4.1 For **NUE**:

NOTE

The following steps notify these positions of an NUE:

EOF Director
TSC Director
Vice President, Operations
General Manager, Plant
Operations
Unit 1 and 2 Plant Managers
Unit 1 and 2 Operations
Managers
Communications Manager
NRC Resident Inspector
CEC Manager
Duty Emergency Planner

4.1.1 Dial *9-890-0841*

4.1.2 When asked for password, enter "1234".

4.1.3 When asked for the phone number, enter "0001" for a Unit 1 event

OR

"0002" for a Unit 2 event.

4.2 For **ALERT** or **higher**:

4.2.1 Dial *9-964-1645*

4.2.2 When asked for password, enter "1234".

4.2.3 When asked for the phone number, enter "1111" (for drills enter "333") for a Unit 1 event

OR

"2222" (for drills enter "444") for a Unit 2 event.

NOTE

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

FORM TITLE:

INITIAL NOTIFICATION CHECKLIST

FORM NO.

[1903.011BB]

REV.

025-04-0

INSTRUCTIONS

- 5. Confirm fax receipt.

NOTE

DEF/VS will send you a return fax of the message you sent.

Do NOT perform roll-call until you have received this fax.

- 5.1. Pick up DEF/VS phone handset.

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

Ask responding agencies to hold.

Read message to agencies:

"I am calling from Arkansas Nuclear One. Please confirm receipt of "Initial" fax, message # ____."

- 5.2 Perform roll-call:

- ☐ Conway County
☐ Johnson County
☐ Logan County
☐ Pope County
☐ Yell County
☐ Department of Emergency Management
☐ Arkansas Dept. of Health

Person Contacted Time

CONTINGENCY ACTIONS

5. None

NOTE

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

- 5.1 Call ADH at *9-1-501-661-2136* and confirm fax receipt. (Alternate number *9-1-800-633-1735*)

Person Contacted Time

Request ADH to notify other agencies.

IF ADH cannot be reached by phone, THEN contact DEM at *9-1-501-730-9750* or radio (Channel 6 unscrambled) and request them to relay notification.

- 5.2 IF any agencies do NOT confirm fax receipt, THEN request ADH to confirm receipt with those agencies.

IF ADH does not respond to roll-call,

THEN Call ADH at *9-1-501-661-2136* and confirm fax receipt. (Alternate number *9-1-800-633-1735*)

Person Contacted Time

IF ADH cannot be reached by phone, THEN contact DEM at *9-1-501-730-9750* or radio (Channel 6 unscrambled) and request them to relay notification.

NOTE

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

FORM TITLE:

INITIAL NOTIFICATION CHECKLIST

FORM NO.

[1903.011BB]

REV.

025-04-0

INSTRUCTIONSCONTINGENCY ACTIONSNOTE

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

- 6. [Using ENS telephone call the NRC, numbers located on telephone. Read message from 1903.011Y to NRC Communicator.]

Person Contacted _____ Time _____

- 7. [Use non-dedicated fax to send 1903.011Y to NRC Operations Center at *9-1-301-816-5151*.]

6. [Using commercial telephone, call the NRC, *9-1-301-816-5100*. Read message from 1903.011Y to NRC Communicator.]

Person Contacted _____ Time _____

7. None

NOTE

A followup notification using Form 1903.011CC is required within approximately 30 minutes after this notification.

Actions performed by: _____ (name) _____ (date) _____ (time)

NOTE

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

FORM TITLE:

INITIAL NOTIFICATION CHECKLIST

FORM NO.

[1903.011BB]

REV.

025-04-0

ACTIONS FOR FOLLOWUP NOTIFICATION**NOTE**

Followup Notifications are required:

- within **approximately 30 minutes** after an Initial Notification
- when a significant change occurs such as
 - prognosis changes
 - Protective Action Recommendations change
 - a radiological release begins or ends
 - the radiological release rate changes significantly
- within 1 hour after the last notification
- as directed by the person with Emergency Direction and Control

NOTE

The Emergency Telephone Directory contains emergency telephone numbers.

INSTRUCTIONS**CONTINGENCY ACTIONS**

- 1. Complete 1903.011Z for Message #_____. Refer to Attachment 10 for instructions.
- 2. Place 1903.011Z face down in DEF/VS document tray and press **RED** fax button.

Time: _____ Date: _____

- 1. None
- 2. Use non-dedicated fax to send 1903.011Z to ADH at *9-1-501-671-1406*.

Time: _____ Date: _____

From the Control Room:

Use non-dedicated fax to send 1903.011Z to:

TSC: *858-6622*

EOF: *858-6957*

From the TSC:

Use non-dedicated fax to send 1903.011Z to:

EOF: *858-6957*

From the EOF:

Use non-dedicated fax to send 1903.011Z to:

TSC: *858-6622*

NOTE

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

FORM TITLE:

FOLLOWUP NOTIFICATION CHECKLIST

FORM NO.

[1903.011CC]

REV.

025-04-0

INSTRUCTIONS

CONTINGENCY ACTIONS

— 3. Confirm fax receipt.

NOTE

DEF/VS will send you a return fax of the message you sent.

Do NOT perform roll-call until you have received this fax.

— 3.1 Pick up DEF/VS phone handset.

Press RED button on DEF/VS phone.

Ask responding agencies to "Hold".

Read message to agencies:

"I am calling from Arkansas Nuclear One. Please confirm receipt of "Follow-up" fax, message # ____."

— 3.2 Perform roll-call:

- ☐ Conway County
- ☐ Johnson County
- ☐ Logan County
- ☐ Pope County
- ☐ Yell County
- ☐ Department of Emergency Management
- ☐ Arkansas Dept. of Health

Person Contacted

Time

3. None

NOTE

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

3.1 Call ADH at *9-1-501-661-2136* and confirm fax receipt. (Alternate number *9-1-800-633-1735*)

Person Contacted

Time

Request ADH to notify other agencies.

IF ADH cannot be reached by phone, THEN contact DEM at *9-1-501-730-9750* or radio (Channel 6 unscrambled) and request them to relay notification.

3.2 IF any agencies do NOT confirm fax receipt, THEN request ADH to confirm receipt with those agencies.

IF ADH does not respond to roll-call,

THEN Call ADH at *9-1-501-661-2136* and confirm fax receipt. (Alternate number *9-1-800-633-1735*)

Person Contacted

Time

IF ADH cannot be reached by phone, THEN contact DEM at *9-1-501-730-9750* or radio (Channel 6 unscrambled) and request them to relay notification.

NOTE

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

FORM TITLE:

FOLLOWUP NOTIFICATION CHECKLIST

FORM NO.

[1903.011CC]

REV.

025-04-0

NOTE

[The Nuclear Regulatory Commission (NRC) **SHALL** be notified immediately following notification of the ADH and NOT later than 1 hour following the declaration of an emergency class.]

INSTRUCTIONS

- 4. [IF notifications are being performed in the TSC or EOF, **THEN** skip steps 5 and 6.]
- 5. [Verify CNS functioning by any of the methods in Attachment 9.]

NOTE

ERDS must be started within 1 hour of the declaration of an **ALERT** or higher emergency class.

- [6. **IF** an **ALERT** or higher emergency class has been declared, **THEN** start ERDS.
- 6.1 Exit the System Status screen on the RDACS terminal.
- 6.2 Select option 9 (ERDS Subsystem) on the Main Menu.
- 6.3 Start ERDS by selecting option 1 for Unit 1 **OR** option 3 for Unit 2.]

CONTINGENCY ACTIONS

- 4. None
- 5. None
- 6. None

NOTE

The NRC Event Notification Worksheet (NRC Form 361) may be used as an aid in providing information about the emergency to the NRC.

- 7. [Using ENS telephone, call the NRC, numbers listed on telephone. Transmit information from 1903.011Z and NRC Form 361 (if completed).]

Person Contacted _____ Time _____

- 8. [Using commercial facsimile, number *9-1-301-816-5151*, transmit information from 1903.011Z and NRC Form 361 (if completed) to the NRC Operations Center.]

- 7. [Using commercial telephone, call the NRC, *9-1-301-816-5100*, Transmit information from 1903.011Z and NRC Form 361 (if completed).]

Person Contacted _____ Time _____

- 8. None

Actions performed by: _____ (name) _____ (date) _____ (time)

NOTE

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

FORM TITLE:

FOLLOWUP NOTIFICATION CHECKLIST

FORM NO.

[1903.011CC]

REV.

025-04-0

Actions for Courtesy Calls

NOTE

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

- An UNPLANNED release of radioactive material has occurred OR may occur.
- An UNPLANNED reactor trip from power has occurred.
- An event has occurred for which a news release is planned.
- A notification has been made or will be made to other government agencies for events that have impacted or will impact the public health and safety.

NOTE

Notification to the ADH and the NRC **SHOULD** be made as soon as practical but **NOT** later than four hours following the event.

INSTRUCTIONS

- 1. Complete 1903.011AA.

CONTINGENCY ACTIONS

1. None

NOTE

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

- 2. Use non-dedicated fax to send 1903.011AA to ADH at *9-1-501-671-1406*.

Time: _____ Date: _____

2. Call ADH at *9-1-501-661-2136* and verbally provide the information from 1903.011AA.

Time: _____ Date: _____

IF ADH cannot be contacted by phone, **THEN** contact DEM by phone at *9-1-501-730-9750* or by radio (Channel 6 unscrambled) and request them to relay notification to ADH.

- 3. Confirm fax receipt by calling ADH at *9-1-501-661-2136*. (Alternate number *9-1-800-633-1735*)

Person Contacted _____ Time _____

3. **IF** ADH cannot be contacted by phone, **THEN** contact DEM by phone at *9-1-501-730-9750* or by radio (Channel 6 unscrambled) and request them to relay notification to ADH.

- 4. Start CNS using Att. 9, Section 3

4. Perform Att. 11, step 4

- 5. Complete the NRC Event Notification Worksheet (NRC Form 361).

5. None

- 6. Use ENS phone to transmit information from NRC Form 361 to NRC.

6. Use commercial phone at *9-1-301-816-5100* to transmit information from NRC Form 361 to NRC.

Person Contacted _____ Time _____

Person Contacted _____ Time _____

- 7. Fax NRC Form 361 to the NRC Operations Center at *9-1-301-816-5151*.

67. None

Actions performed by: _____ (name) _____ (date) _____ (time)

NOTE

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

FORM TITLE:

COURTESY CALL NOTIFICATION CHECKLIST

FORM NO.

1903.011DD

REV.

025-04-0

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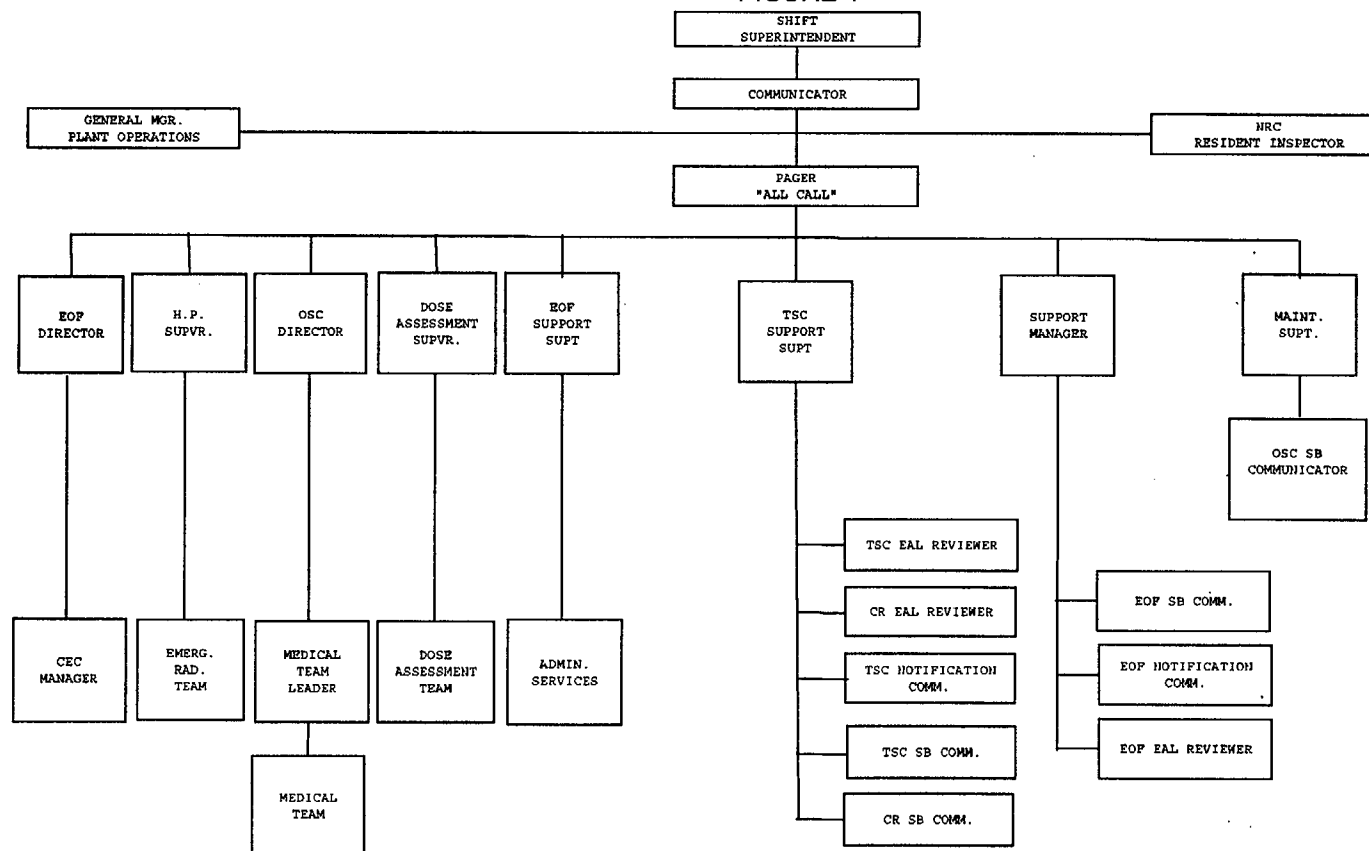
ATTACHMENT 5

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 ('333' for Unit 1 drill) or '2222' for Unit 2 ('444' for Unit 2 drill) by pressing the numbers on a touch-tone phone keypad.
 - 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

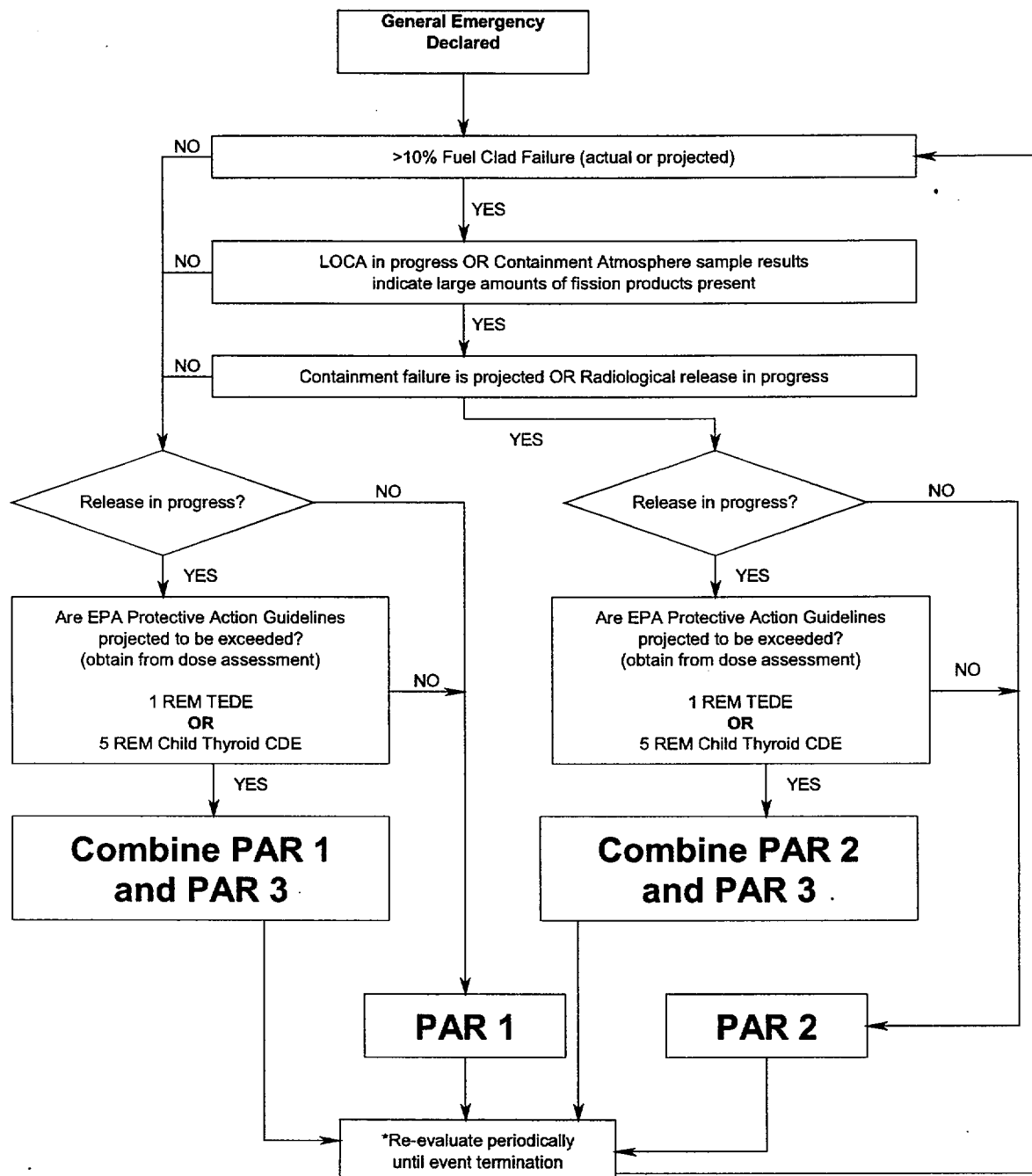


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ATTACHMENT 6

PROTECTIVE ACTION RECOMMENDATIONS (PAR) FOR GENERAL EMERGENCY

This flowchart is to be used as a guide for determining PAR's. Actual PAR's are listed on the following pages of Attachment 6.



* Re-evaluate PAR recommendations whenever plant conditions or radiological conditions change.

| | | |
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ATTACHMENT 6

PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR
GENERAL EMERGENCY

PAR No. 1

IF plant conditions meet the following criteria:

- General Emergency declared

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 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 |

IF there is a radiological release associated with this event,

THEN combine PAR 1 with PAR 3.

| | | |
|--|---|--|
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ATTACHMENT 6

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)*
AND
- LOCA in progress OR Containment Atmosphere sample results indicate large amounts of fission products present;
AND
- Containment failure is projected OR 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 (if known) 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 |

IF there is a radiological release associated with this event,
THEN combine PAR 2 with PAR 3.

NOTE

Data from Attachment 7 and Attachment 8 may be more current than information obtained from Reactor Engineering.

*Refer to Att. 7 (Unit 1) or Att. 8 (Unit 2) OR if available, obtain an assessment of cor damage from Reactor Engineering. Use available trend data when assessing the potential for >10% Fuel Clad Failure.

| | | |
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ATTACHMENT 6

PROTECTIVE ACTION RECOMMENDATIONS (PAR)
FOR
GENERAL EMERGENCY

PAR No. 3

IF plant conditions meet the following criteria:

- General Emergency declared
AND
- EPA Protective Action Guidelines are projected to be exceeded.
 - 1 Rem TEDE
OR
 - 5 Rem Child Thyroid CDE

THEN give the following Protective Action Recommendation.

EVACUATE: *Zones projected to exceed the EPA Protective Action Guidelines (obtain from dose assessment)
AND
Zones from **PAR 1** or **PAR 2** (dependent upon plant conditions).

SHELTER: Remainder of the 10 mile EPZ

*Dose assessment PAR's will be initially provided by the Initial Dose Assessor in the Control Room. When the Dose Assessment Team becomes operational in the EOF, the Dose Assessment team will provide this information.

| | | |
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ATTACHMENT 7

Page 1 of 4

CORE FUEL DAMAGE ASSESSMENT
UNIT 1

- 1.0 Determine the average power for the unit for the last 30 days.

Average Power = _____ %

- 2.0 Determine Fuel Factor

Fuel Factor = 100% ÷ Average Power

NOTE

Fuel damage determinations based on the containment radiation monitors assumes a minimum of 30 days at 100 percent power. The corrected R/hr will correct monitor readings in the event the unit has not run at 100 percent for the required time.

CAUTION

- * In the absence of a significant containment temperature transient, monitor readings should be considered valid.
- * In the event of a significant containment temperature transient, monitor readings may be erratic for a short duration (Ref.IN-97-45, Supplement 1)

- 3.0 Determine corrected containment radiation level from the following monitors:

3.1 RE-8060 R/hr × Fuel Factor (from step 2)

3.2 RE-8061 R/hr × Fuel Factor (from step 2)

- 4.0 Determine hours since shutdown.

NOTE

Graphs 1 and 2 are listed in tabular data form on page 4 of 4 as an aid in this attachment.

- 5.0 IF containment spray IS in operation,
THEN use graph, page 2 of 4, or Table 1, page 4 of 4, of this attachment to determine fuel damage.
- 6.0 IF containment spray IS NOT in operation,
THEN use graph, page 3 of 4, or Table 2, page 4 of 4, of this attachment to determine fuel damage.

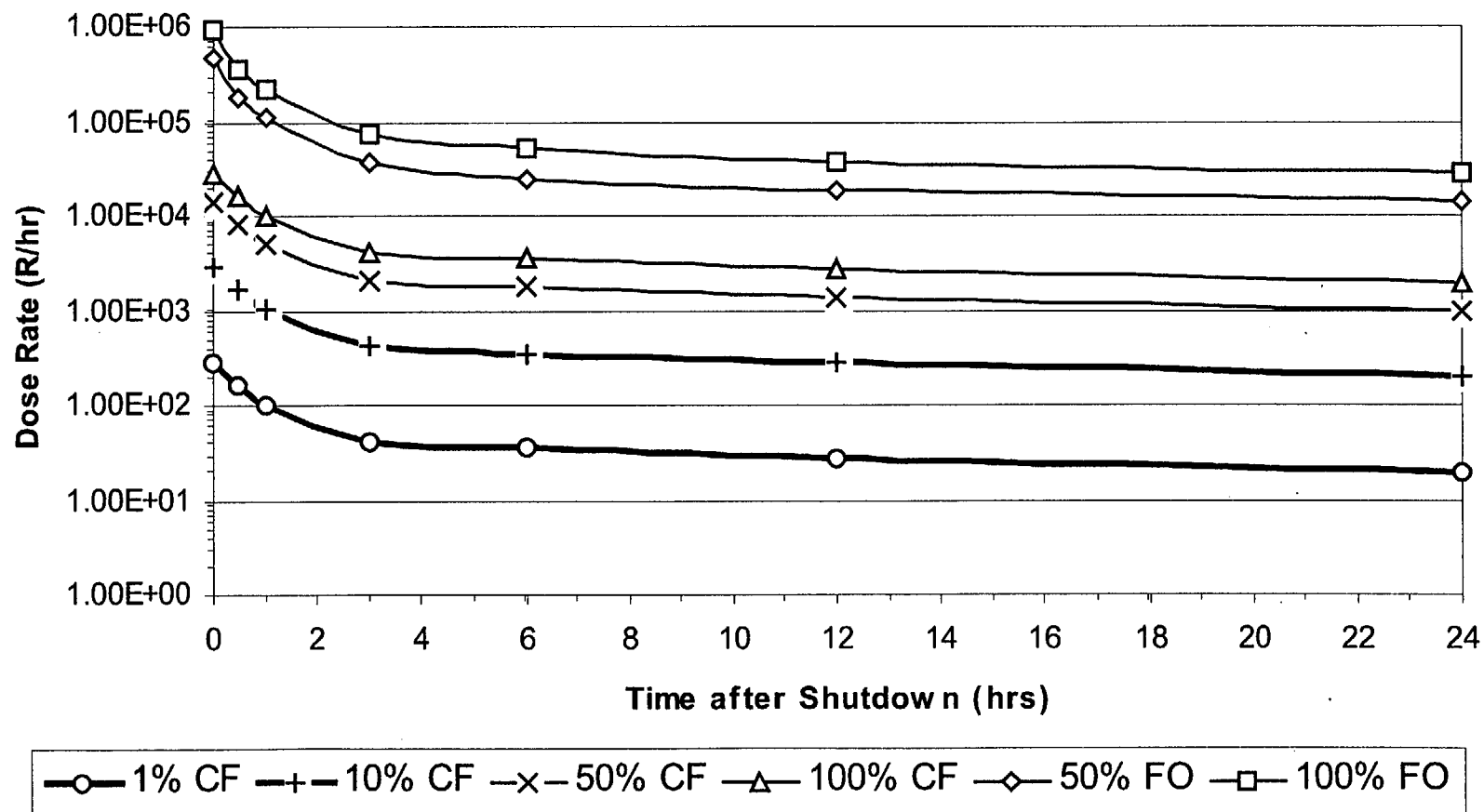
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ATTACHMENT 7

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ANO-1 Radiation Monitor (RE-8060, RE-8061) Readings WITH Containment Spray

CF = Clad Failure, FO = Fuel Overheat



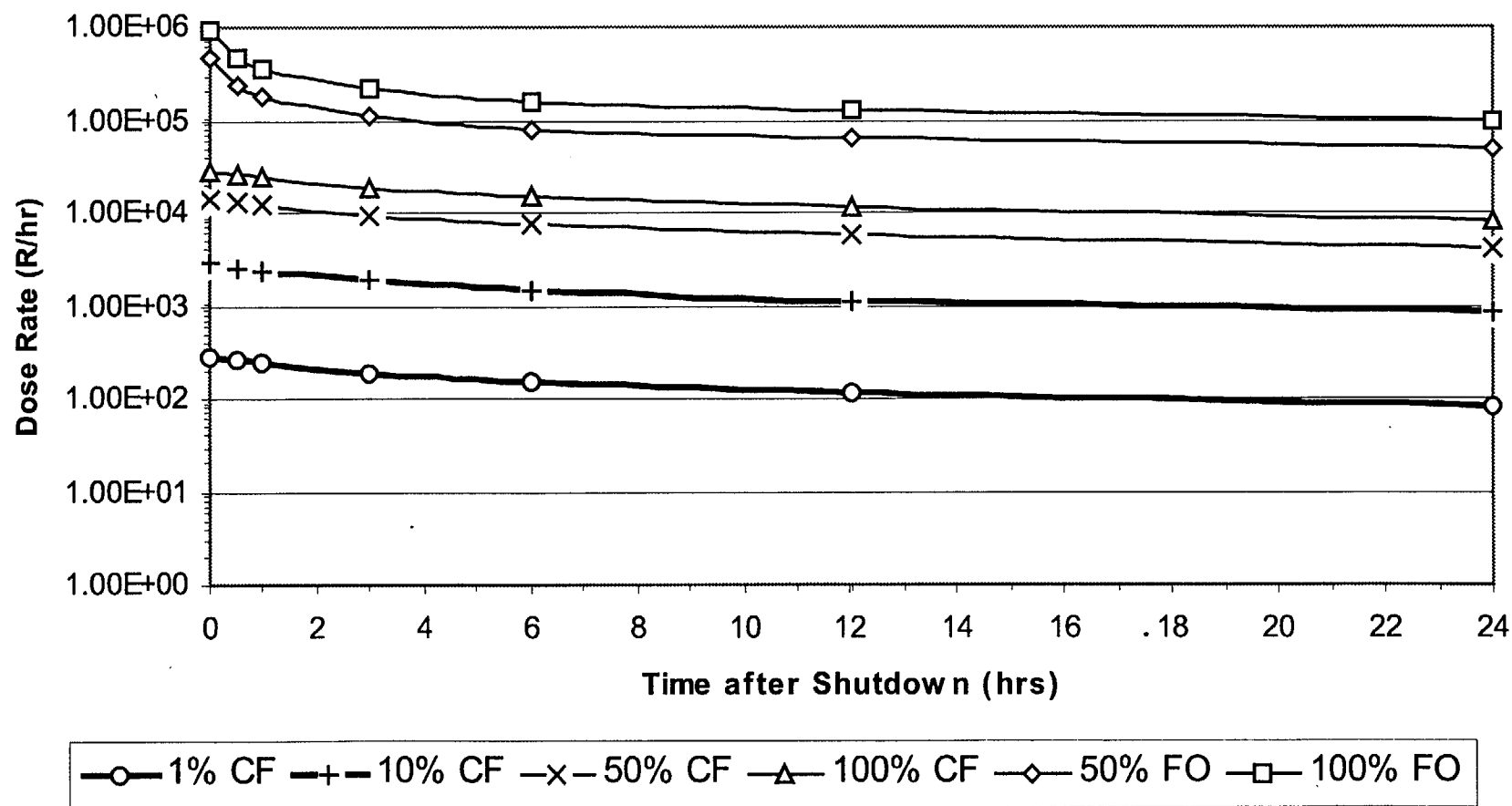
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ANO-1 Radiation Monitor (RE-8060, RE-8061) Readings WITHOUT Containment Spray

CF = Clad Failure, FO = Fuel Overheat



| | | |
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|--|---|--|

ATTACHMENT 7

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Table 1 ANO-1 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 | 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

| <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 | 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

- 1.0 Determine the average power for the unit for the last 30 days.

Average Power = _____ %

- 2.0 Determine Fuel Factor

Fuel = 100% + Average Power
Factor

NOTE

Fuel damage determinations based on the containment radiation monitors assumes a minimum of 30 days at 100 percent power. The corrected R/hr will correct monitor readings in the event the unit has not run at 100 percent for the required time.

CAUTION

- * In the absence of a significant containment temperature transient, monitor readings should be considered valid.
- * In the event of a significant containment temperature transient, monitor readings may be erratic for a short duration (Ref.IN-97-45, Supplement 1)

- 3.0 Determine corrected containment radiation level from the following monitors:

3.1 2RY-8925-1 R/hr x Fuel Factor (from step 2)

3.2 2RY-8925-2 R/hr x Fuel Factor (from step 2)

- 4.0 Determine hours since shutdown.

NOTE

Graphs 1 and 2 are listed in tabular data form on page 4 of 4 of this attachment.

- 5.0 IF containment spray IS in operation,
THEN use graph, page 2 of 4, or Table 1, page 4 of 4, of this attachment to determine fuel damage.
- 6.0 IF containment spray IS NOT in operation,
THEN use graph, page 3 of 4, or Table 2, page 4 of 4, of this attachment to determine fuel damage.

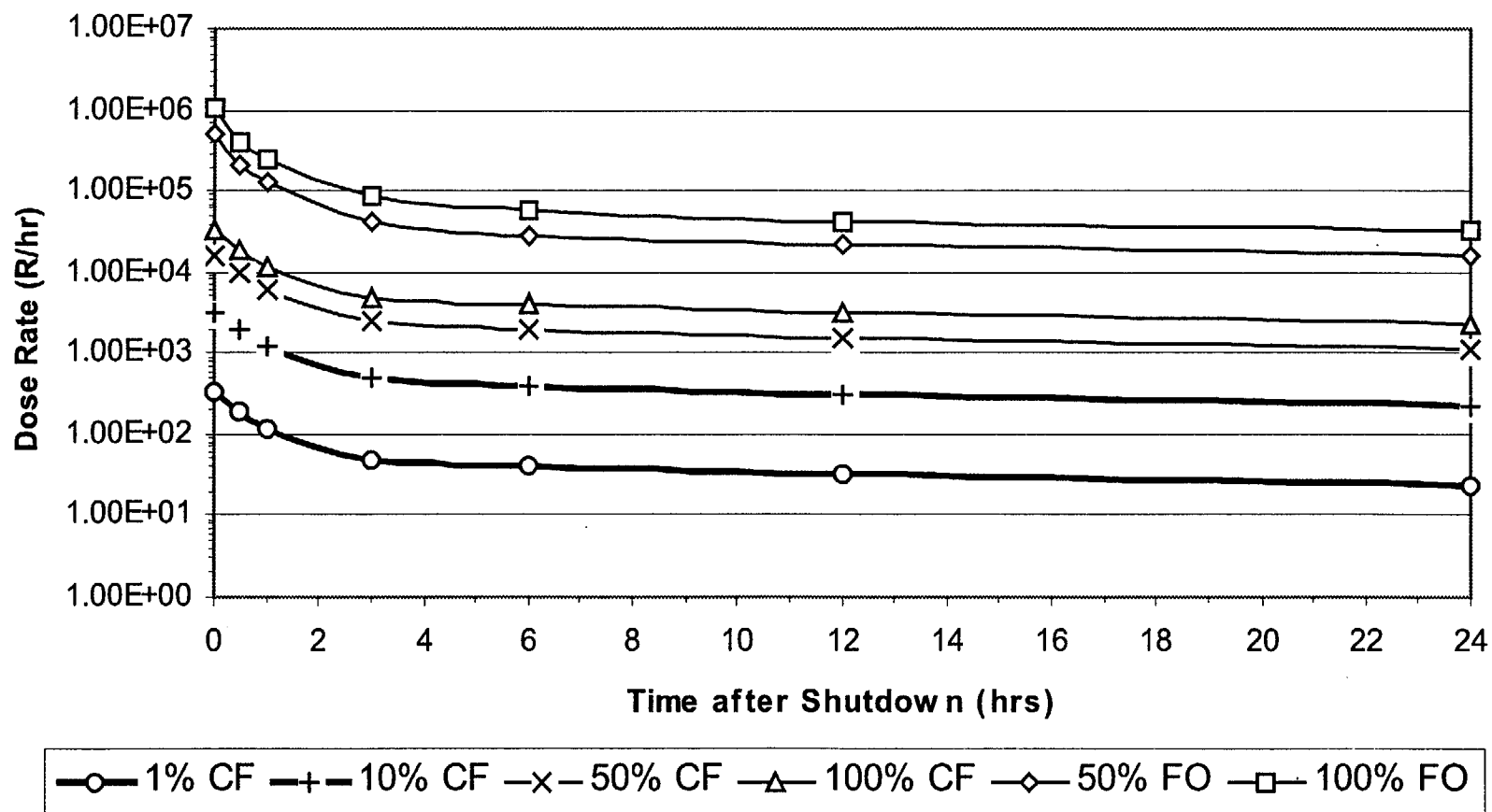
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ANO-2 Radiation Monitor (2RY-8925-1, 2RY-8925-2) Readings WITH
Containment Spray

CF = Clad Failure, FO = Fuel Overheat



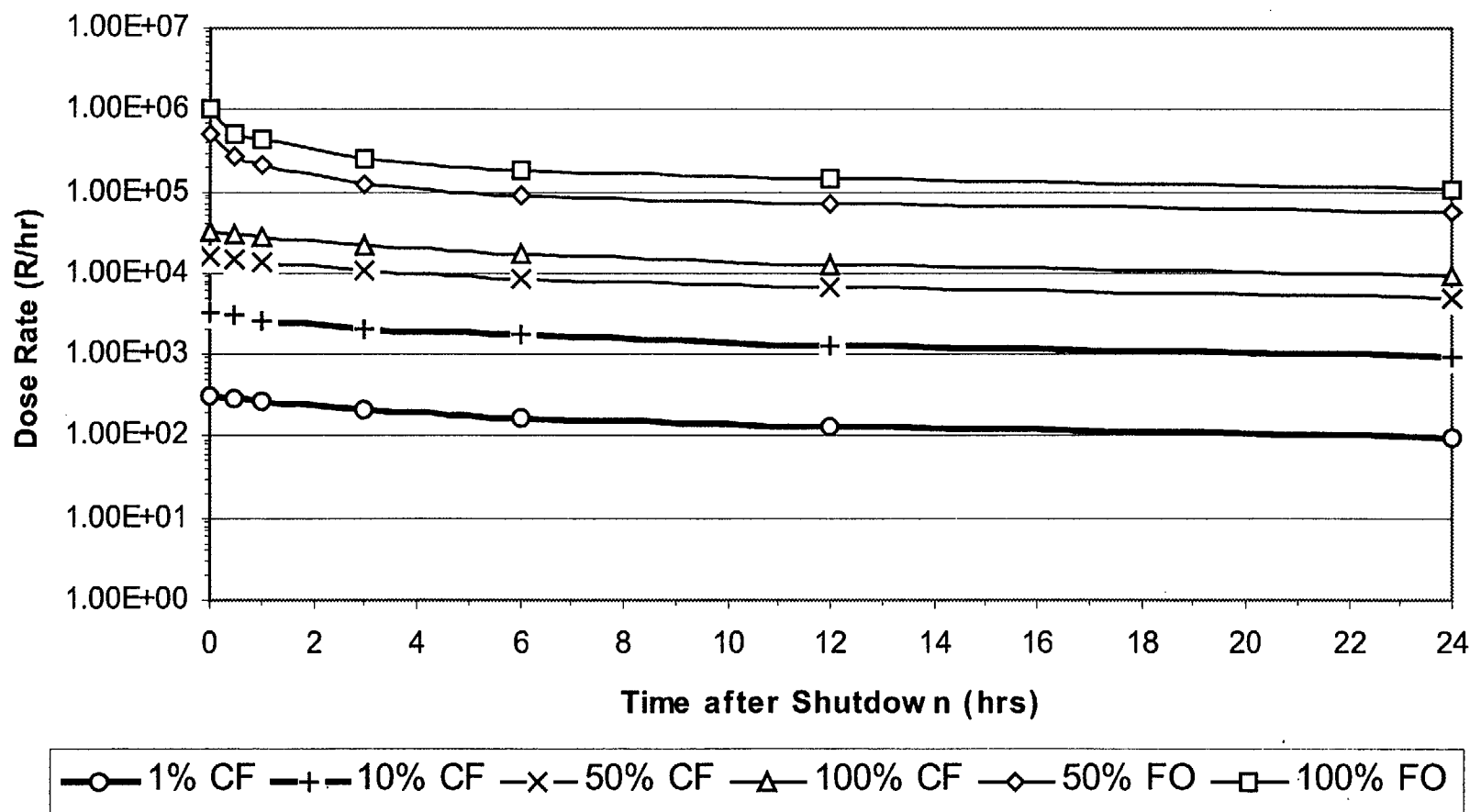
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ATTACHMENT 8

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ANO-2 Radiation Monitor (2RY-8925-1, 2RY-8925-2) Readings WITHOUT Containment Spray

CF = Clad Failure, FO = Fuel Overheat



| | | |
|--|---|--|
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ATTACHMENT 8

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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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[Computerized Notification System (CNS) Instructions]

- Section 1: Emergency Class Notification Using the CNS
- Section 2: Post-trip Notification Using the CNS
- Section 3: Non-Emergency/Off-Normal Notification Using the CNS
- Section 4: Confirming CNS Operation
- Section 5: Stopping a Scenario
- Section 6: Returning the CNS to Standby

NOTE

Upon loss of off-site power, Unit 2 would have to start CNS from the Unit 1 Terminal.

NOTE

The CNS terminal has an automatic screen-blanking feature. If the screen is blank, press any key to restore the screen.

Section 1: Emergency Class Notification Using the CNS

1. At the Application: Communicator: Password Entry screen, type "0002".
2. Press [Enter].
3. At the Application: Communicator: Main Menu screen, highlight "Execution" using the right or left arrow keys.
4. Press [Enter].
5. Using the up or down arrow keys, highlight "Scenario Control".
6. Press [Enter].
7. At the Application: Communicator: Scenario Activation Control screen, highlight the appropriate scenario using the up or down arrow keys.
8. Press [Enter].
9. A list of options will appear. Using the up or down arrow keys, highlight the option "Start this scenario".
10. Press [Enter].
11. At the prompt "Confirm Scenario start? (Y/N): N ", enter "Y".
12. Press [Enter] to start the scenario.

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Section 1: Emergency Class Notification Using the CNS (Continued)

13. Observe the Application: Communicator: Scenario Activation Control screen. Check that the scenario status changes to "Active".
14. The scenario will run until all positions are filled, the scenario duration elapses or it is stopped by the operator.
15. If you want to confirm CNS operation, go to Section 4 of this attachment.

Section 2: Post-Trip Notification Using the CNS

NOTE

The CNS terminal has an automatic screen-blanking feature. If the screen is blank, press any key to restore the screen.

1. At the Application: Communicator: Password Entry screen, type "0002".
2. Press [Enter].
3. At the Application: Communicator: Main Menu screen, highlight "Execution" using the right or left arrow keys.
4. Press [Enter].
5. Using the up or down arrow keys, highlight "Scenario Control".
6. Press [Enter].
7. At the Application: Communicator: Scenario Activation Control screen, highlight the appropriate scenario using the up or down arrow keys.
8. Press [Enter].
9. A list of options will appear. Using the up or down arrow keys, highlight the option "Start this scenario".
10. Press [Enter].
11. At the prompt "Confirm scenario start? (Y/N): N ," enter "Y".
12. Press [Enter] to start the scenario.
13. Observe the Application: Communicator: Scenario Activation Control Screen. Check that the scenario status changes to "Active."
14. The scenario will run until all positions are filled, the scenario duration elapses or it is stopped by the operator.
15. If you want to confirm CNS operation, go to Section 4 of this attachment.

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[ATTACHMENT 9]

Section 3: Non-Emergency/Off-Normal Notification Using the CNS

NOTE

The CNS terminal has an automatic screen-blanking feature. If the screen is blank press any key to restore the screen.

NOTE

You must use the phone to start the scenarios covered by this section.

1. Dial 3683 from any touch-tone phone. While the system is speaking the "Hello" segment, enter 0002 followed by the pound sign (#).
2. You will hear, "Enter your scenario number followed by the pound sign."
3. Enter the scenario number (100 for Unit 1 or 200 for Unit 2) followed by the pound sign (#).
4. You will hear, "You entered (scenario number). Is that correct? Press 9 for YES or 6 for NO."
5. Press 9 for YES or 6 for NO. If you press 9 the system will continue scenario activation. If you press 6 the system will repeat the prompt for the scenario number.
6. After pressing 9 for YES you will hear, "The scenario will be queued as a(n) (Emergency, Drill, or Test). When you are ready to record your message, please press the star and the pound keys on your phone."
7. When you are ready to record your message, press the star (*) and the pound (#) keys.
8. You will hear, "Record your message at the tone. Push the pound key when you are finished."
9. Record the message. Press [#] when you are done.
10. You will hear, "You said ... (the system will speak your recorded message). Is that correct? Press 9 for YES or 6 for NO."
11. If you press 9 for YES the system will continue scenario activation. If you press 6 for NO the system will repeat the prompt to record the message.
12. After pressing 9 for YES you will hear, "Your selected scenario, (scenario number) will now be sent. Are you sure this is what you want to do? Press 9 for YES or 6 for NO."
13. If you press 9 for YES the system will continue scenario activation. If you press 6 for NO you will hear, "Thank you. Goodbye." The system will end the call without starting the scenario.

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Section 3: Non-Emergency/Off-Normal Notification Using the CNS (Continued)

14. After pressing 9 for YES, you will hear, "Thank you. Goodbye." The system will end the call and start the scenario.
15. Any further scenario control functions must be performed at the keyboard.
16. If you want to confirm CNS operation, go to Section 4 of this attachment.

Section 4: Confirming CNS Operation

Using the Scenario Monitor:

1. **IF** you are at the Application: Communicator: Scenario Activation Control screen,
THEN perform the following
 - a. Press [Esc]
 - b. Go to step 6.
2. At the Application: Communicator: Password Entry screen enter '0002'.
3. Press [Enter].
4. At the Application: Communicator: Main Menu screen highlight "Execution" using the left or right arrow keys.
5. Press [Enter].
6. Highlight "Scenario Monitor" using the up or down arrow keys.
7. Press [Enter].
8. The Scenario Monitor will show the status of the scenario that is currently running or that has most recently been run.
9. Observe the Scenario Monitor screen. Check that the system is attempting to contact personnel.
10. Press [Esc] to exit the Scenario Monitor.

Using the Status Screen:

1. At any screen press [Ctrl 2]. You must use the number pad.
2. The Status Screen will show the phone lines.
3. Observe the Status screen. Check that the system is making and receiving calls.
4. Press [Ctrl 1] (using the number pad) to return to the system operation screens.

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Section 4: Confirming CNS Operation (Continued)

Using the Reports

1. The system will print a report every 5 minutes.
2. Check the reports to see that personnel are responding to the CNS..

Section 5: Stopping a Scenario

1. At the Application: Communicator: Main Menu screen, highlight "Scenario Control" (if not already highlighted) using the up or down arrows.
2. Press [Enter].
3. Using the up or down arrow keys, highlight the scenario to be stopped.
4. Press [Enter].
5. A list options will appear. Highlight the option "Stop this scenario."
6. Press [Enter].
7. At the prompt "Confirm scenario stop? (Y/N): N" enter "Y".
8. Press [Enter].
9. Observe the Application: Communicator: Scenario Activation Control screen. Check that the scenario status changes to "Completed".

Section 6: Returning the CNS to Standby

1. Press [Esc] as many times as necessary to return to the Application: Communicator: Main Menu.
2. At the Application: Communicator: Main Menu highlight "Exit" using the left or right arrow keys.
3. Press [Enter].
4. At the prompt "Exit to system" press [Enter].
5. The system should return to the Application: Communicator: Password Entry screen.

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Notification Instructions

AUTHENTICATION

If challenged by the Arkansas Department of Health (ADH) or the Department of Emergency Management (DEM) communicator to identify yourself, use the DEM Emergency Action Authenticator to provide the proper two-digit response.

TIME REQUIREMENTS

Emergency Class Declaration:

The ADH shall be notified within 15 minutes of an emergency class declaration, change (upgrade or downgrade), or termination.

A Followup Notification to the ADH is required within approximately 30 minutes after an Initial Notification.

A Followup Notification is required within one hour after the previous Followup Notification.

The Nuclear Regulatory Commission (NRC) shall be notified immediately after notification of the ADH and NOT later than one hour following the declaration of an emergency class.

Courtesy Calls:

The ADH shall be notified as soon as practical but no later than four hours following the event.

The NRC shall be notified immediately following the ADH but no later than four hours following the event.

INSTRUCTIONS

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

1. Number messages sequentially from the initial notification at the beginning of the event to the event termination message.
2. Wind speed and direction are obtained from the RDACS System Status screen (preferred), chart recorders in the Unit 1 Control Room, or the Dardanelle Dam Control Room.

Protective Action Recommendations (PARs) are obtained from

- Dose Assessment personnel
- the REAM in the EOF, or
- Attachment 6.

3. Self-explanatory.

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Form 1903.011Z, "Emergency Class Followup Notification Message"

1. Number messages sequentially from the initial notification at the beginning of the event to the event termination message.
2. Self-explanatory.
3. Self-explanatory.
4. Self-explanatory.
5. Self-explanatory.
6. Self-explanatory.
7. Protective Action Recommendations (PARs) are obtained from
 - Dose Assessment personnel
 - the REAM in the EOF, or
 - Attachment 6.
8. Self-explanatory.
9. Self-explanatory.
10. Enter a brief status of the other unit. This should include; but is not limited to; power level (if operating), shutdown status, emergency classes, etc.
11. Wind speed and direction are obtained from the RDACS System Status screen (preferred), chart recorders in the Unit 1 Control Room, or the Dardanelle Dam Control Room.

Stability Class is obtained from the RDACS System Status screen (preferred) or Dose Assessment personnel.
12. If a radiological release is occurring, the expected duration is obtained from the Shift Superintendent or the TSC Director.
13. The type of release is obtained from Dose Assessment personnel or the REAM.

The release rate is obtained from Dose Assessment personnel or the REAM.

The estimate of projected off-site dose is obtained from Dose Assessment personnel or the REAM.
14. The type of release is obtained from Dose Assessment personnel or the REAM.
15. Self-explanatory.

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ATTACHMENT 11

Non-Emergency Notifications of Off-Normal Events

When directed by the Shift Superintendent to complete this attachment, perform the following steps:

1. IF a Courtesy Call to the Arkansas Department of Health is required per section 6.3.1 of this procedure,
THEN perform that notification using Form 1903.011AA and 1903.011DD.
2. For Courtesy Calls and other Non-Emergency/Off-Normal Events, activate the appropriate "Non-Emergency/Off-Normal Event" scenario using the Computerized Notification System" (CNS). Refer to CNS instructions on Attachment 9, Section 3.
3. Monitor CNS to ensure it is functioning properly and review reports generated by CNS.
4. IF CNS fails,
THEN provide notification to the following Entergy and NRC representatives via telephone. You should attempt to notify all of the representatives listed below. Some individuals may be unavailable,; however, this is a courtesy notification for information only and not a requirement:

Operations Manager of the affected unit(s)
Plant Manager of the affected unit(s)
General Manager Plant Operations
Vice President, Operations
EOF Director
TSC Director
NRC Resident Inspector
Communications Manager
CEC Manager
Duty Emergency Planner

If this method is used, document successful contacts in the station log.

5. Report to the Shift Superintendent when the above actions have been completed.