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TITLE: **EMERGENCY RESPONSE/**
NOTIFICATIONS

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SUBJECT: **PERMANENT CHANGE (PC)**

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☐ *ANO-1 Docket 50-313*

☐ *ANO-2 Docket 50-368*

Signature Date

A045

ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

TITLE: Emergency Response/Notifications	PROC/WORK PLAN NO. 1903.011	CHANGE NO. 025-02-0
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 the *TRAP* use the *TOOLS!!*

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

VERIFIED BY	DATE	TIME

FORM TITLE:	FORM NO.	CHANGE NO.
VERIFICATION COVER SHEET	1000.006A	047-04-0

ENTERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

TITLE: Emergency Response/Notifications	PROC/WORK PLAN NO. 1903.011	CHANGE NO. 025-02-0
☒ PROCEDURE ☐ WORK PLAN, EXP. DATE n/a		PAGE 1 OF 1

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.)
Table of Contents	Updated page numbers due to additional pages.
Form 1903.011P	Deleted steps 4,5 and 6 and added instructions to perform a plant evacuation, steps 4 - 12. Changed steps 7 and 8 to steps 13 and 14. Added a checkbox to each step.
Form 1903.011Q	Deleted steps 4,5 and 6 and added instructions to perform a plant evacuation, steps 4 - 11. Changed steps 7, 8 and 9 to steps 12, 13 and 14. Added a checkbox to each step.
Form 1903.011R	Deleted steps 4 and 5. Added step 2 "IF a plant evacuation has not been performed, then immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011Q. Changed steps 2, 3, 6,7 and 8 to steps 3, 4, 5, 6 and 7 respectively. Added a checkbox to each step.
Form 1903.011S	Deleted steps 4,5 and 6 and added instructions to perform a plant evacuation, steps 4 - 12. Changed steps 7, 8 and 9 to steps 13, 14 and 15. Added a checkbox to each step.
Form 1903.011T	Deleted steps 4,5 and 6 and added instructions to perform a plant evacuation, steps 4 - 11. Changed steps 7, 8, 9 and 10 to steps 12, 13, 14 and 15. Added a checkbox to each step.
Form 1903.011U	Deleted steps 4 and 5. Added step 2 "IF a plant evacuation has not been performed, then immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011Q. Changed steps 2, 3, 6,7, 8 and 9 to steps 3, 4, 5, 6, 7 and 8 respectively. Added a checkbox to each step.
Attachment 5	Added "("333" for Unit 1 drill)" and "("444" for Unit 2 drill)" to step 1.2 of this attachment.

TABLE OF CONTENTS

SECTIONS — PAGE NO.

1.0 Purpose 3

2.0 Scope 3

3.0 References 3

4.0 Definitions 5

5.0 Responsibility And Authority 6

6.0 Instructions 7

6.1 Emergency Classification And Notifications 7

6.2 Protective Action Recommendations (PARs) 7

6.3 Non-Emergency/Off-Normal Events 8

6.4 Emergency Response Data System (ERDS) 9

7.0 Attachments And Forms 9

7.1 Attachment 1 - Notification of Unusual Event 11
7.2 Attachment 2 - Alert 15
7.3 Attachment 3 - Site Area Emergency 19
7.4 Attachment 4 - General Emergency 26
7.5 Attachment 5 - Alternate ERO Notification Scheme 45
7.6 Attachment 6 - Protective Action Recommendations (PAR) for General Emergency 46
7.7 Attachment 7 - Core Fuel Damage Assessment, Unit 1 50
7.8 Attachment 8 - Core Fuel Damage Assessment, Unit 2 54
7.9 Attachment 9 - Computerized Notification System (CNS) Instructions 58
7.10 Attachment 10 - Emergency Class Notification Instructions .. 63
7.11 Attachment 11 - Non-Emergency Notifications of Off-Normal Events 65
7.12 Form 1903.011J - NUE Emergency Direction and Control Checklist, Shift Superintendent 12
7.13 Form 1903.011K - NUE Emergency Direction and Control Checklist, TSC Director 13
7.14 Form 1903.011L - NUE Emergency Direction and Control Checklist, EOF Director 14
7.15 Form 1903.011M - Alert Emergency Direction and Control Checklist, Shift Superintendent 16
7.16 Form 1903.011N - Alert Emergency Direction and Control Checklist, TSC Director 17
7.17 Form 1903.011O - Alert Emergency Direction and Control Checklist, EOF Director 18
7.18 Form 1903.011P - SAE Emergency Direction and Control Checklist, Shift Superintendent 21
7.19 Form 1903.011Q - SAE Emergency Direction and Control Checklist, TSC Director 23

7.20 Form 1903.011R - SAE Emergency Direction and Control Checklist, EOF Director 25
7.21 Form 1903.011S - GE Emergency Direction and Control Checklist, Shift Superintendent 28
7.22 Form 1903.011T - GE Emergency Direction and Control Checklist, TSC Director 31
7.23 Form 1903.011U - GE Emergency Direction and Control Checklist, EOF Director 33
7.24 Form 1903.011Y - Emergency Class Initial Notification Message 34
7.25 Form 1903.011Z - Emergency Class Follow-up Notification Message 35
7.26 Form 1903.011AA - Courtesy Call Notification Message 36
7.27 Form 1903.011BB - Initial Notification Checklist 37
7.28 Form 1903.011CC - Follow-up Notification Checklist 41
7.29 Form 1903.011DD - Courtesy Call Notification Checklist 44

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"

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

4.0 DEFINITIONS

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

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

Notification of Unusual Event
Alert
Site Area Emergency
General Emergency

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

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

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

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

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

4.8 Onsite - The area within the Exclusion Area Boundary.

4.9 Offsite - Those areas not covered by Section 4.8.

4.10 Initial Response Staff (IRS) - The emergency organization primarily composed of plant personnel which must be able to augment the onsite plant personnel in accordance with Table B-1 of the Emergency Plan.

4.11 Emergency Response Organization (ERO) - The organization which is composed of the Initial Response Staff (IRS), the EOF staff, the TSC staff, the OSC staff, and the Emergency Team members. It has the capability to provide manpower and other resources necessary for immediate and long-term response to an emergency situation.

4.12 Technical Support Center - The location within the ANO Plant Administration Building equipped with instrumentation and

communication systems and facilities useful in monitoring the course of an accident.

4.13 Operational Support Center - Emergency response center within the ANO maintenance facility where support is coordinated for the following functions: Onsite Radiological Monitoring, Maintenance, Nuclear Chemistry, Emergency Medical Support and Fire Fighting Support. The OSC serves as the assembly point and briefing area for recovery/reentry teams and is located in the maintenance facility.

4.14 Emergency Operations Facility (EOF) - A near-site emergency response facility located approximately 0.65 miles northeast of the reactor buildings (the ANO Training Center).

4.15 Emergency Direction and Control - Overall direction of facility response which must include the non-delegable responsibilities for the decision to notify and to recommend protective actions to Arkansas Department of Health personnel and other authorities responsible for offsite emergency measures. With activation of the EOF, the EOF Director typically assumes the responsibility for Emergency Direction and Control. The management of on-site facility activities to mitigate accident consequences remains with the TSC Director in the Technical Support Center. The Shift Superintendent retains responsibility for the Control Room and plant systems operation.

4.16 Emergency Response Data System (ERDS) - A channel over which the raw reactor parametric data, i.e., SPDS information, is transmitted from the site to the NRC Operations Center (NRCOC). This system is activated from the RDACS terminal located in either Control Room or in the Technical Support Center and should be activated within one hour of an ALERT or higher emergency class declaration.

5.0 RESPONSIBILITY AND AUTHORITY

5.1 SHIFT SUPERINTENDENT

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

5.2 TECHNICAL SUPPORT CENTER DIRECTOR (TSC DIRECTOR)

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

5.3 EMERGENCY OPERATIONS FACILITY DIRECTOR (EOF DIRECTOR)

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

5.4 COMMUNICATORS

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

5.5 EMERGENCY RESPONSE ORGANIZATION (ERO)

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

6.0 INSTRUCTIONS

6.1 EMERGENCY CLASSIFICATION AND NOTIFICATIONS

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

A. For a Notification of Unusual Event, perform the actions as described in Attachment 1.

B. For an Alert, perform the actions as described in Attachment 2.

C. For a Site Area Emergency, perform the actions as described in Attachment 3.

D. For a General Emergency, perform the actions as described in Attachment 4.

6.1.2 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).

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

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

7.28 Form 1903.011CC - Follow-up Notification Checklist

7.29 Form 1903.011DD - Courtesy Call Notification Checklist

[ATTACHMENT 1

NOTIFICATION OF UNUSUAL EVENT]

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

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

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

Forms used for NUE notification and response are as follows:

Shift Superintendent:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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 Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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 Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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

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

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

ATTACHMENT 2

ALERT

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

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

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

Forms used for Alert notification and response are as follows:

Shift Superintendent:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

1903.011, Att. 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 Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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 Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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

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

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

ATTACHMENT 3

SITE AREA EMERGENCY

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

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

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

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

Shift Superintendent:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

1903.011, Att. 5, Alternate ERO Notification Scheme

TSC Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

ATTACHMENT 3

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 Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup 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. If a plant evacuation has been performed, then go to step 12.

☐5. Determine the appropriate evacuation routes based on symptoms and wind direction utilizing the chart below:

IF wind direction is From:	**THEN** use Evacuation Routes
1 to 45 degrees	☐ 1,2 and 3
46 to 90 degrees	☐ 1 and 2
91 to 225	☐ 1 and 3
226 to 360	☐ 2 and 3

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:

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

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

☐8. Contact Radiation Protection:

☐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."

☐8.1 Sound the evacuation alarm for approximately 10 seconds.

☐8.2 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 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 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

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. If a plant evacuation has been performed, then go to step 11.

☐5. Determine the appropriate evacuation routes based on symptoms and wind direction utilizing the chart below:

IF wind direction is From:	**THEN** use Evacuation Routes
1 to 45 degrees	☐ 1,2 and 3
46 to 90 degrees	☐ 1 and 2
91 to 225	☐ 1 and 3
226 to 360	☐ 2 and 3

☐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:

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

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

☐8. Contact Radiation Protection:

☐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 and 10 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".

☐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

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. **IF** a plant evacuation has **not** been performed,
THEN immediately request the TSC Director to perform the Plant Evacuation Section of Form 1903.011Q.

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

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

☐4.1 Assign additional personnel to assist as necessary.

☐5. Announce emergency class declaration to the EOF staff.

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

☐7. 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

ATTACHMENT 4

GENERAL EMERGENCY

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

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

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

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

Shift Superintendent:

Form 1903.011S, "GE Emergency Direction and Control Checklist, Shift Superintendent"

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

Form 1903.030B, "Plant Evacuation Checklist"

1903.011, Att. 5, Alternate ERO Notification Scheme

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

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

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

TSC Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

ATTACHMENT 4

GENERAL EMERGENCY

Form 1903.030B, "Plant Evacuation Checklist"

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

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

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

EOF Director:

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

Form 1903.011Y, "Emergency Class Initial Notification Message"

Form 1903.011Z, "Emergency Class Followup Notification Message"

Form 1903.011BB, "Initial Notification Checklist"

Form 1903.011CC, "Followup Notification Checklist"

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

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

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

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. If a plant evacuation has been performed, then go to step 12.

☐5. Determine the appropriate evacuation routes based on symptoms and wind direction utilizing the chart below:

IF wind direction is From:	**THEN** use Evacuation Routes
1 to 45 degrees	☐ 1,2 and 3
46 to 90 degrees	☐ 1 and 2
91 to 225	☐ 1 and 3
226 to 360	☐ 2 and 3

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:

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

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

☐8. Contact Radiation Protection:

☐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."

☐11. Instruct the Control room personnel 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. 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

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. If a plant evacuation has been performed, then go to step 11.

☐5. Determine the appropriate evacuation routes based on symptoms and wind direction utilizing the chart below:

IF wind direction is From:	**THEN** use Evacuation Routes
1 to 45 degrees	☐ 1,2 and 3
46 to 90 degrees	☐ 1 and 2
91 to 225	☐ 1 and 3
226 to 360	☐ 2 and 3

☐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:

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

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

☐8. Contact Radiation Protection:

☐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 and 10 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".

☐11. **IF** the incident extends into the Exclusion Area,
THEN perform the following:

☐11.1 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.

☐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. 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

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. **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.

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

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

☐4.1 Assign additional personnel to assist as necessary.

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

PAR No._____ REAM Review: _____

☐6. Announce emergency class declaration to the EOF staff.

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

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

Performed by :_____
Emergency Operations Facility Director

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:	FORM NO.	REV.
EMERGENCY CLASS INITIAL NOTIFICATION MESSAGE	**1903.011Y**	**025-02-0**

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

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:	FORM NO.	REV.
COURTESY CALL NOTIFICATION MESSAGE	**1903.011AA**	**025-02-0**

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	CONTINGENCY ACTIONS
__ 1. Complete 1903.011Y for Message #_____. Refer to Attachment 10 for instructions.	1. None
__ 2. Place 1903.011Y face down in DEF/VS fax document tray and press **RED** fax button. Time:_____ Date:_____	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. **IF** this is a termination message **OR** ERO has already been activated for an **ALERT or higher** emergency class **THEN GO TO** Step 5.	3. None

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

INSTRUCTIONS

__ 4. **[Start CNS using Attachment 9.]**

CONTINGENCY ACTIONS

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.

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.

INSTRUCTIONS	CONTINGENCY ACTIONS

NOTE

[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 _____	6. **[Using commerical telephone, call the NRC, *9-1-301-816-5100*. 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*.]**	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.

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

__ 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:_____

CONTINGENCY ACTIONS

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.

INSTRUCTIONS

__ 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

CONTINGENCY ACTIONS

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.

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	CONTINGENCY ACTIONS
__ 4. **[IF notifications are being performed in the TSC or EOF, THEN skip steps 5 and 6.]**	4. None
__ 5. **[Verify CNS functioning by any of the methods in Attachment 9.]**	5. None
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. None
__ **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.]**	

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).]**	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 _____	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.]**	8. None

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

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

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	CONTINGENCY ACTIONS
__	1. Complete 1903.011AA.	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. _____ _____ Person Contacted Time	6. Use commercial phone at *9-1-301-816-5100* to transmit information from NRC Form 361 to NRC. _____ _____ Person Contacted Time
__	7. Fax NRC Form 361 to the NRC Operations Center at *9-1-301-816-5151*.	7. None

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

NOTE

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

FORM TITLE:	FORM NO.	REV.
COURTESY CALL NOTIFICATION CHECKLIST	**1903.011DD**	**025-02-0**

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.

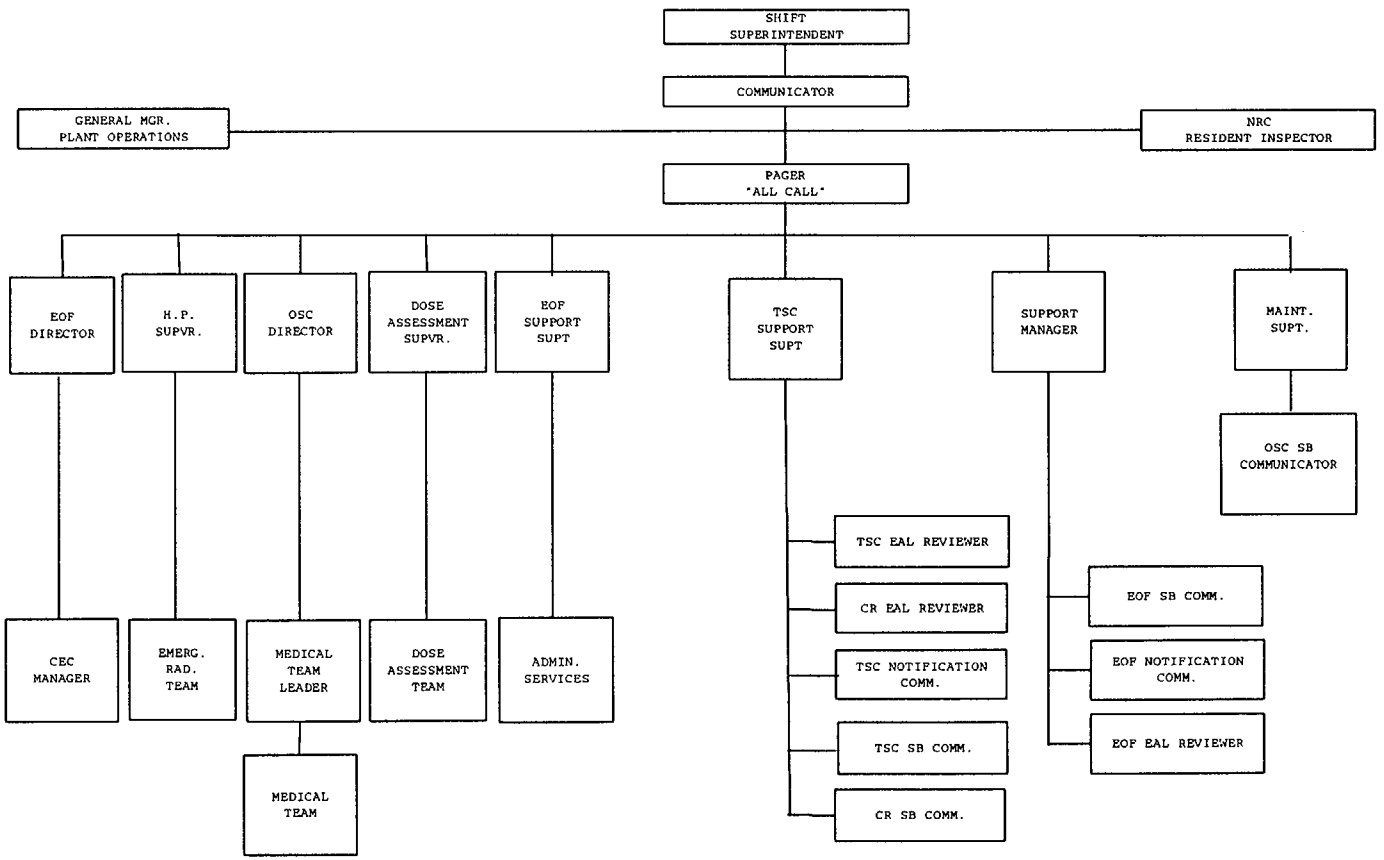
1.1 Use the 'All Call' pager number from the Emergency Telephone Directory or the Emergency Response Duty Roster to access all of the ERO pagers.

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.

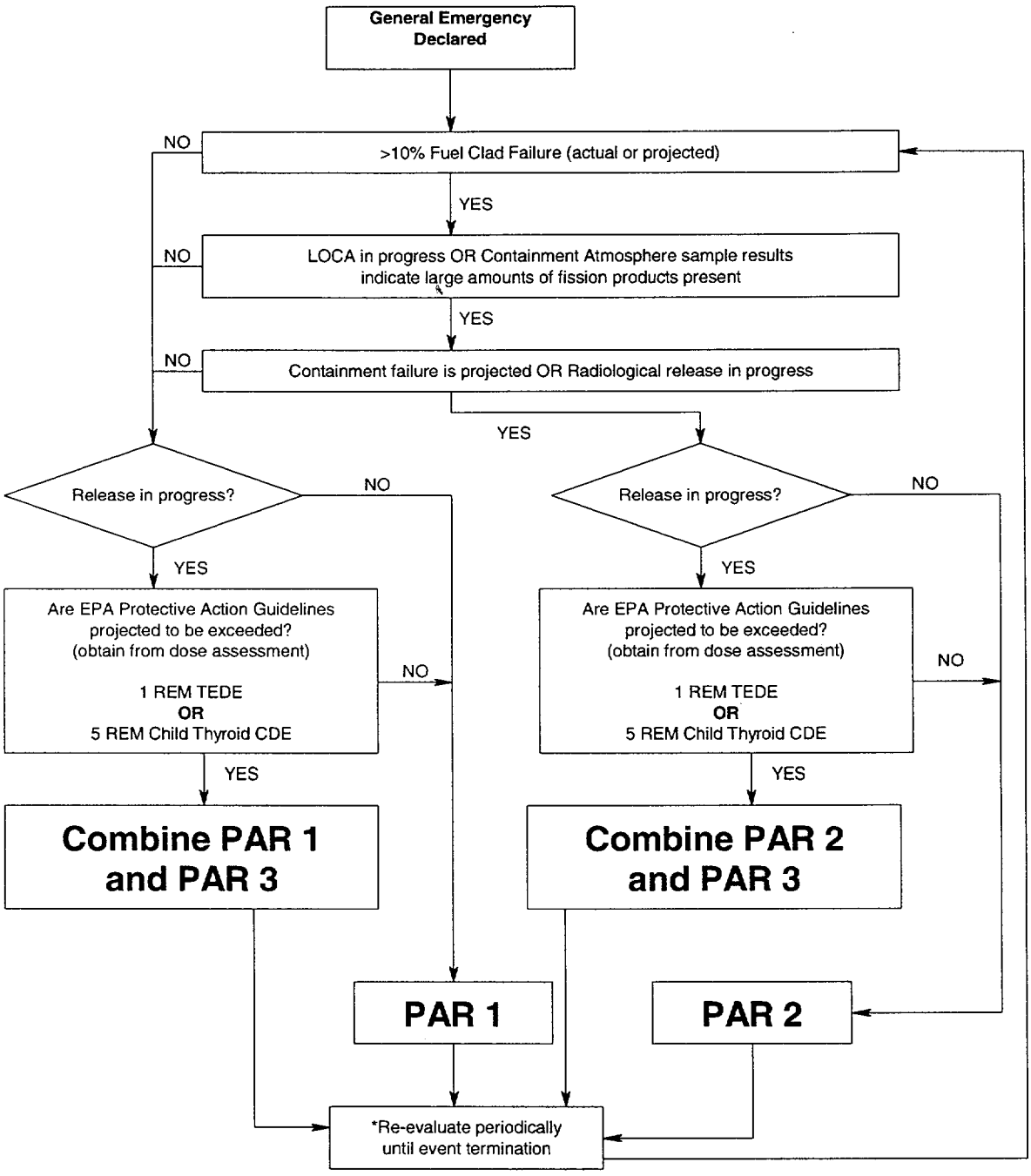
FIGURE 1



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.

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.

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.

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.

ATTACHMENT 7

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

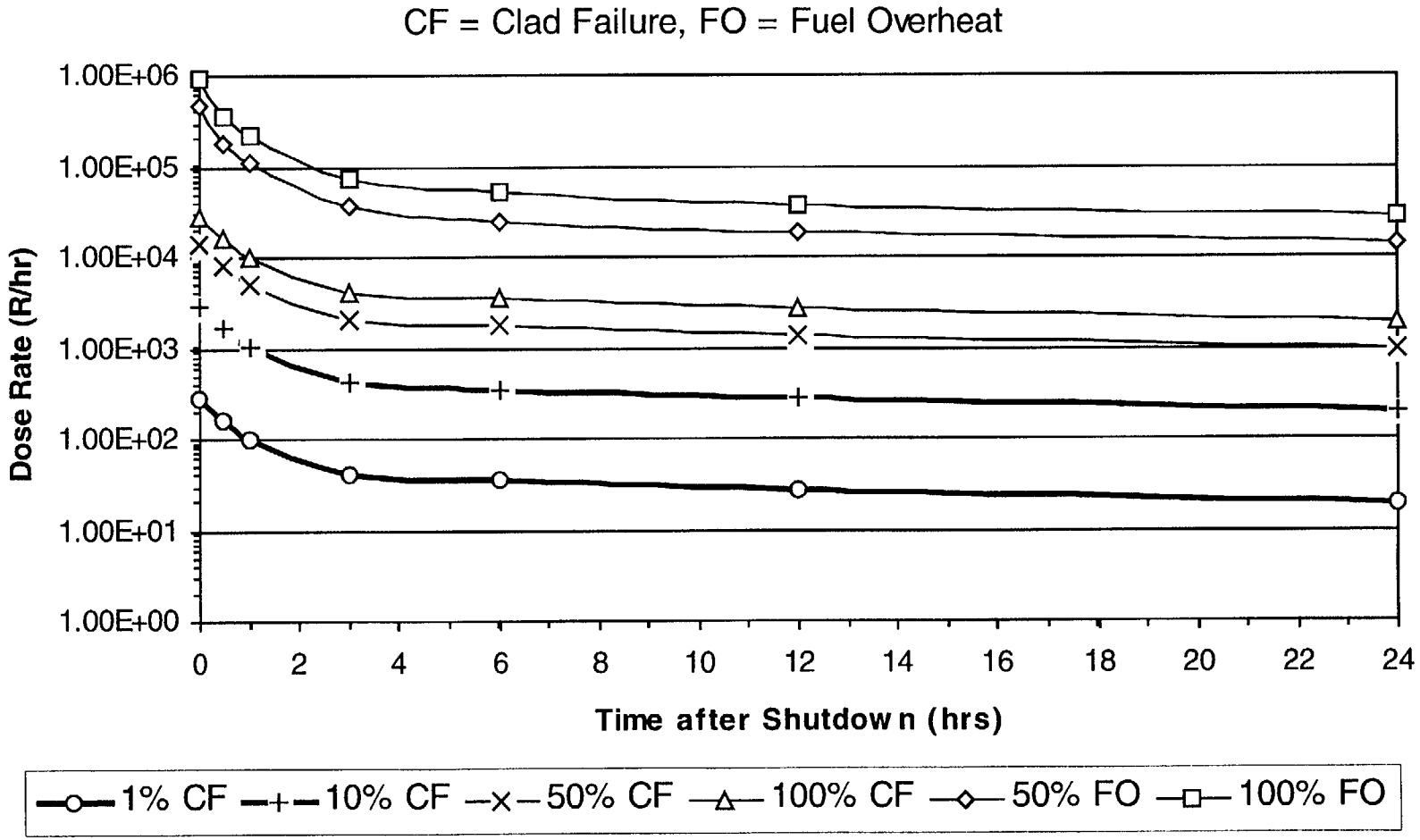
Graphs 1 and 2 are listed in tabular data form on page 4 of 4 as an aid in this attachment.

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.

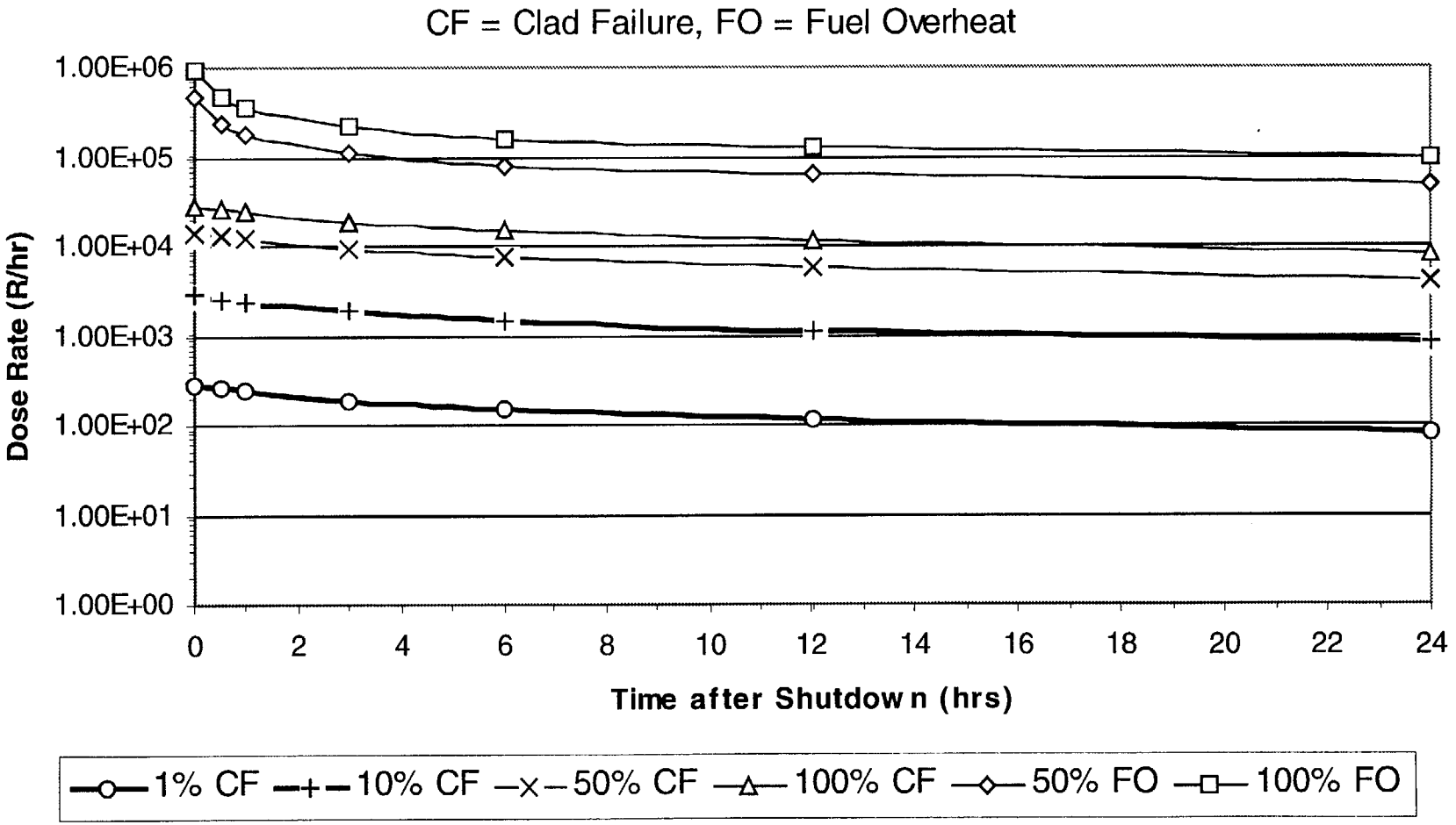
ATTACHMENT 7

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



ATTACHMENT 7

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



ATTACHMENT 7

Table 1 ANO-1 Dose Rates vs Time **WITH** Containment Spray

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

Table 2 ANO-1 Dose Rates vs Time **WITHOUT** Containment Spray

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

Time is in hours since shutdown

DOSE RATES are in R/hr

CF is Clad Failure Incident

FO is Fuel Overheat Incident

ATTACHMENT 8

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

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

4.0 Determine hours since shutdown.

NOTE

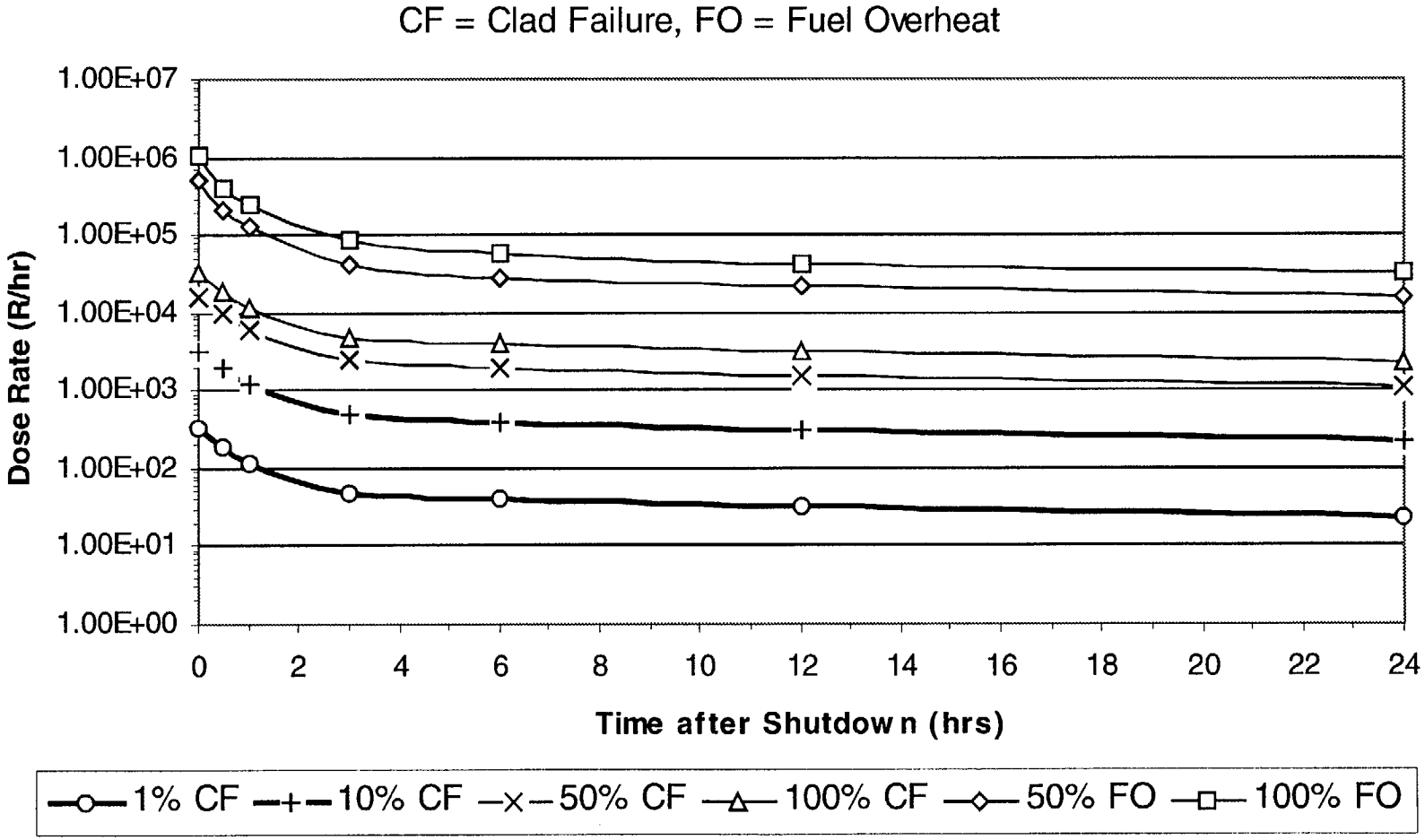
Graphs 1 and 2 are listed in tabular data form on page 4 of 4 of this attachment.

5.0 **IF** containment spray **IS** in operation,
THEN use graph, page 2 of 4, or Table 1, page 4of 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.

ATTACHMENT 8

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



ATTACHMENT 8

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

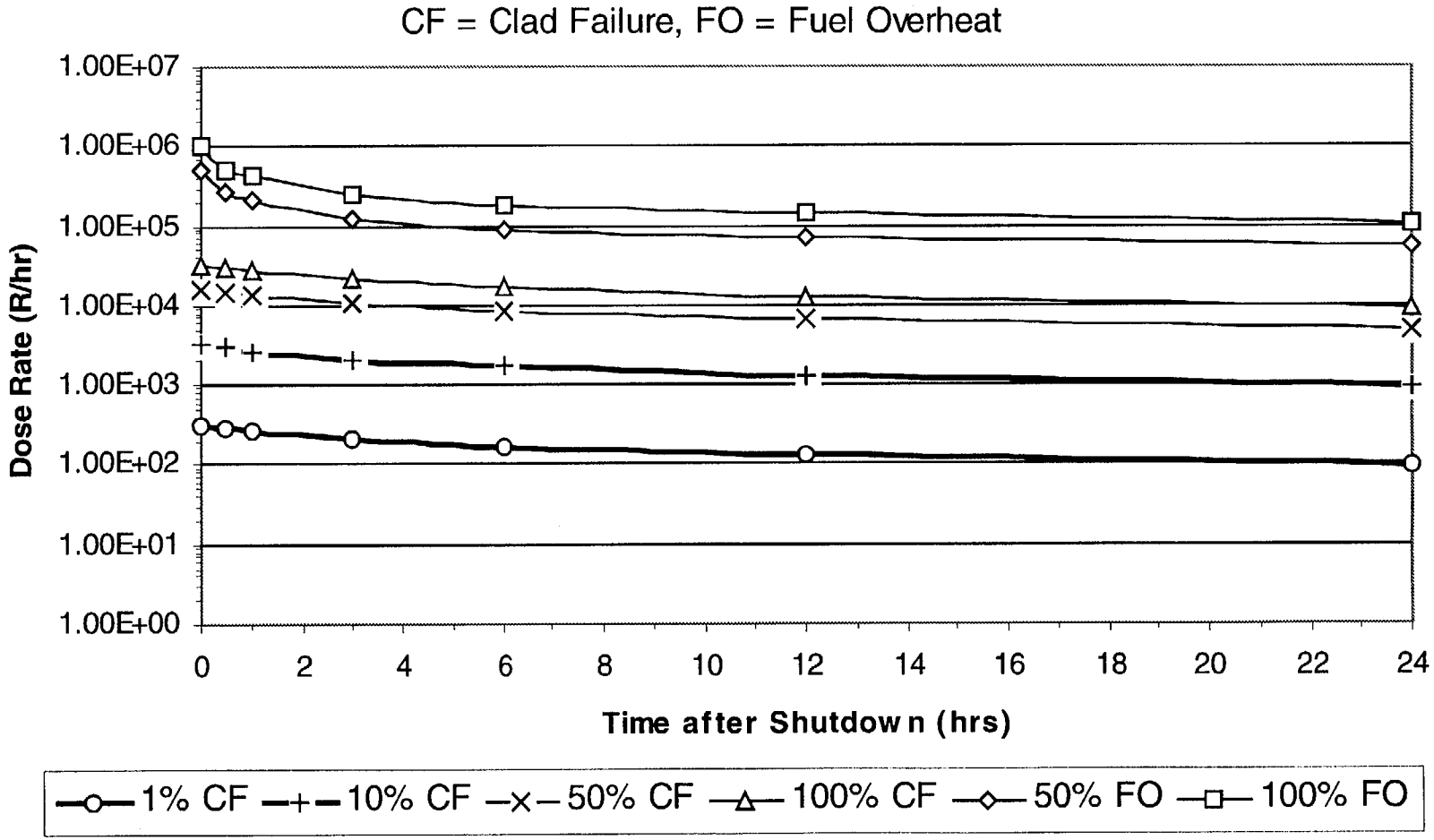


Table 1 ANO-2 Dose Rates vs Time **WITH** Containment Spray

TIME	1% CF	10% CF	50% CF	100% CF	50% FO	100% FO
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

TIME	1% CF	10% CF	50% CF	100% CF	50% FO	100% FO
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

[ATTACHMENT 9]

[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.

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.

[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.

[ATTACHMENT 9]

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:

> **NOTE**
> **IF** you are at the Application: Communicator: Scenario Activation Control screen, press [Esc].
> **THEN** go to step 5.

1. At the Application: Communicator: Password Entry screen enter '0002'.

2. Press [Enter].

3. At the Application: Communicator: Main Menu screen highlight "Execution" using the left or right arrow keys.

4. Press [Enter].

5. Highlight "Scenario Monitor" using the up or down arrow keys.

6. Press [Enter].

7. The Scenario Monitor will show the status of the scenario that is currently running or that has most recently been run.

8. Observe the Scenario Monitor screen. Check that the system is attempting to contact personnel.

9. 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.

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.

[ATTACHMENT 9]

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.

ATTACHMENT 10

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.

ATTACHMENT 10

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.

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.