

Monday, June 17, 2002

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## Document Update Notification

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**COPYHOLDER NO:** 103

**TO:** ANO-NRC (EMERGENCY RESPONSE  
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**ADDRESS:** OS-DOC CNTRL DESK MAIL STOP OP1-  
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**DOCUMENT NO:** OP-1903.030

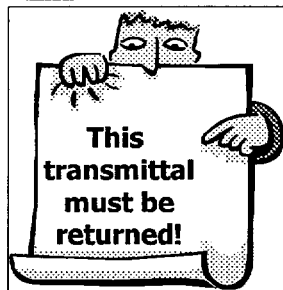
**TITLE:** EVACUATION

**REVISION NO:** 024-03-0

**CHANGE NO:** PC-03

**SUBJECT:** PERMANENT CHANGE (PC)

☒ ← If this box is checked, please sign, date, and return within 5 days.



☐ ANO-1 Docket 50-313

☐ ANO-2 Docket 50-368

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**SIGNATURE CONFIRMS UPDATE HAS BEEN MADE**

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**RETURN TO:**

**ATTN: DOCUMENT CONTROL  
ARKANSAS NUCLEAR ONE  
1448 SR 333  
RUSSELLVILLE, AR 72801**

A045

ENTERGY OPERATIONS INCORPORATED  
ARKANSAS NUCLEAR ONE

TITLE: Evacuation

SET # 103

DOCUMENT NO.  
1903.030

CHANGE NO.  
024-03-0

WORK PLAN EXP. DATE  
NA

TC EXP. DATE  
NA

SAFETY-RELATED  
☒ YES ☐ NO

IPTE  
☐ YES ☒ NO

TEMP ALT  
☐ YES ☒ NO

When you see these **TRAPS**

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

Get these **TOOLS**

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

VERIFIED BY

DATE

TIME

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FORM TITLE:

VERIFICATION COVER SHEET

FORM NO.  
1000.006A

CHANGE NO.  
050-00-0

**ENTERGY OPERATIONS INCORPORATED  
ARKANSAS NUCLEAR ONE**

Page 1

<b>TITLE:EVACUATION</b>	<b>DOCUMENT NO.</b> 1903.030	<b>CHANGE NO.</b> 024-03-0
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<b>AFFECTED UNIT:</b> <input checked="" type="checkbox"/> UNIT 1 <input checked="" type="checkbox"/> UNIT 2	<input checked="" type="checkbox"/> <b>PROCEDURE</b> <input type="checkbox"/> <b>ELECTRONIC DOCUMENT</b> <input type="checkbox"/> <b>WORK PLAN,</b> <b>EXP. DATE</b> _____	<b>SAFETY-RELATED</b> <input checked="" type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
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<b>TYPE OF CHANGE:</b>			
<input type="checkbox"/> <b>NEW</b>	<input checked="" type="checkbox"/> <b>PC</b>	<input type="checkbox"/> <b>TC</b>	<input type="checkbox"/> <b>DELETION</b>
<input type="checkbox"/> <b>REVISION</b>	<input type="checkbox"/> <b>EZ</b>	<b>EXP. DATE:</b> _____	

<b>DOES THIS DOCUMENT:</b>	
1. Supersede or replace another procedure? (If YES, complete 1000.006B for deleted procedure.) (OCAN058107)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Alter or delete an existing regulatory commitment? (If YES, coordinate with Licensing before implementing.) (OCNA128509)(OCAN049803)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. Require a 50.59 review per LI-101? (See also 1000.006, Attachment 15) (If 50.59 evaluation, OSRC review required.)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4. Cause the MTCL to be untrue? (See Step 8.5 for details.) (If YES, complete 1000.009A) (1CAN108904, 0CAN099001, 0CNA128509, 0CAN049803)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. Create an Intent Change? (If YES, Standard Approval Process required.)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6. Implement or change IPTE requirements? (If YES, complete 1000.143A. OSRC review required.)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7. Implement or change a Temporary Alteration? (If YES, then OSRC review required.)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

<b>Was the Master Electronic File used as the source document?</b>	<input checked="" type="checkbox"/> <b>YES</b> <input type="checkbox"/> <b>NO</b>
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<b>INTERIM APPROVAL PROCESS</b>	<b>STANDARD APPROVAL PROCESS</b>
<b>ORIGINATOR SIGNATURE:</b> (Includes review of Att. 13) <b>DATE:</b> _____	<b>ORIGINATOR SIGNATURE:</b> (Includes review of Att. 13) <b>DATE:</b> 6/4/02
<b>Print and Sign name:</b> _____ <b>PHONE #:</b> _____	<b>Print and Sign name:</b> H. David Young <b>PHONE #:</b> 4998
<b>SUPERVISOR APPROVAL: *</b> <b>DATE:</b> _____	<b>INDEPENDENT REVIEWER:</b> _____ <b>DATE:</b> 6/5/02
<b>SRO UNIT ONE : **</b> <b>DATE:</b> _____	<b>ENGINEERING:</b> N/A <b>DATE:</b> _____
<b>SRO UNIT TWO: **</b> N/A <b>DATE:</b> _____	<b>QUALITY:</b> N/A <b>DATE:</b> _____
Interim approval allowed for non-intent changes requiring no 50.59 evaluation that are stopping work in progress. Standard Approval required for intent changes or changes requiring a 50.59 evaluation. *If change not required to support work in progress, Department Head must sign. **If both units are affected by change, both SRO signatures are required. (SRO signature required for safety related procedures only.)	<b>UNIT SURVEILLANCE COORDINATOR (OCNA049803):</b> <b>DATE:</b> N/A
	<b>SECTION LEADER:</b> _____ <b>DATE:</b> 6/3/02
	<b>QUALITY ASSURANCE:</b> N/A <b>DATE:</b> _____
	<b>OTHER SECTION LEADERS:</b> _____ <b>DATE:</b> _____
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<b>OSRC CHAIRMAN/TECHNICAL REVIEWER:</b> (OCNA049312) <b>DATE:</b> 6-5-02	
<b>FINAL APPROVAL:</b> _____ <b>Date:</b> 6/12/02	
<b>REQUIRED EFFECTIVE DATE:</b> 6/17/02	

<b>FORM TITLE:</b> <b>PROCEDURE/WORK PLAN APPROVAL REQUEST</b>	<b>FORM NO.</b> 1000.006B	<b>CHANGE NO.</b> 051-00-0
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**ENTERGY OPERATIONS INCORPORATED  
ARKANSAS NUCLEAR ONE**

TITLE: Evacuation		DOCUMENT NO. 1903.030	CHANGE NO. 024-03-0
<input checked="" type="checkbox"/> PROCEDURE <input type="checkbox"/> WORK PLAN, EXP. DATE _____		PAGE <u>1</u> OF <u>2</u>	
<input type="checkbox"/> ELECTRONIC DOCUMENT			
TYPE OF CHANGE: <input type="checkbox"/> NEW <input checked="" type="checkbox"/> PC <input type="checkbox"/> TC <input type="checkbox"/> DELETION <input type="checkbox"/> REVISION <input type="checkbox"/> EZ                      EXP. DATE: _____			
AFFECTED SECTION: (Include step # if applicable)	DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.)		
Throughout procedure	Changed Shift Superintendent to Shift Manager		
Table of Contents	Re-numbered pages		
3.2.9	Deleted reference to 1903.077 (procedure has been deleted)		
3.4.1 and 3.4.2	Added descriptions of commitments		
4.5, 6.1.2.D, 6.1.3.C, 6.4.3, Form 1903.030B (sec. 8.2.2)	Added words to include... "general public"		
4.9	Added definition for "Non-essential Personnel", and renumbered.		
5.1	Deleted redundant statement for monitoring of personnel		
6.1.3	Added statement exclusion area evacuation shall be performed at GE and considered at SAE		
6.2.3.B	Added statement for security to evacuate exclusion area within 1 hour and patrolled once every 2 hours thereafter		
6.2.3.B.3	Added statement that security will make every effort to notify public on the lake until the Corps of Engineers arrive		
6.3.1.D & E	Replaced the word "missing" with "unaccounted for"		
6.5.3	Reworded and deleted portions of 6.5.3B through H because these instructions duplicate or conflict with the instructions in Attachment 1.		
6.5.4.A, 6.5.5.A	Replaced the word "per" with "in accordance with"		
6.5.4.D and F	Changed D to include instructions for announcement instead of in a NOTE box. Deleted paragraph F because of redundant instructions.		
FORM TITLE:  <b>DESCRIPTION OF CHANGE</b>		FORM NO. <b>1000.006C</b>	CHANGE NO. <b>050-00-0</b>

**ENTERGY OPERATIONS INCORPORATED  
ARKANSAS NUCLEAR ONE**

TITLE: Evacuation		DOCUMENT NO. 1903.030	CHANGE NO. 024-03-0
<input checked="" type="checkbox"/> PROCEDURE <input type="checkbox"/> WORK PLAN, EXP. DATE _____		PAGE <u>2</u> OF <u>2</u>	
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TYPE OF CHANGE: <input type="checkbox"/> NEW <input checked="" type="checkbox"/> PC <input type="checkbox"/> TC <input type="checkbox"/> DELETION <input type="checkbox"/> REVISION <input type="checkbox"/> EZ                      EXP. DATE: _____			
AFFECTED SECTION: (Include step # if applicable)	DESCRIPTION OF CHANGE: (For each change made, include sufficient detail to describe reason for the change.)		
6.5.5.C	Deleted plant evacuation alarm		
6.5.5.D	Added D to include instructions for announcement instead of in a NOTE box. Deleted evacuation alarm. Deleted paragraph G because of redundant instructions		
Attachment 1	Revised flow chart and added DAC requirements and deleted Respirator requirements		
Form 1903.030B	Deleted Implementation details at top of form (not necessary).		
Form 1903.030B (Section 2), 1	Re-worded and renumbered IF statements for clarity		
Form 1903.030B (Section 2), 3.2	Added time to perform initial accountability by (30 minutes after declaration).		
Form 1903.030B (Section 2), 6 Form 1903.030C (Section 1), 6	Deleted IF statements for TSC Director and added instructions for alarm and announcement		
Form 1903.030C (Section 1), 1	Deleted Implementation details at top of form (not necessary) and removed step 1		
Form 1903.030C (Section 2), 2	Replaced word "until" with "unless"		
FORM TITLE:		FORM NO. 1000.006C	CHANGE NO. 050-00-0
DESCRIPTION OF CHANGE			

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### 1.0 PURPOSE

The purpose of this procedure is to provide the symptoms for which a Localized Evacuation, Plant Evacuation, Exclusion Area Evacuation, or an Offsite Evacuation should be declared and the subsequent actions to be taken by plant personnel.

### 2.0 SCOPE

This procedure is applicable to emergency situations involving Unit One and/or Unit Two.

### 3.0 REFERENCES

#### 3.1 REFERENCES USED IN PROCEDURES PREPARATION:

- 3.1.1 Emergency Plan
- 3.1.2 ANO Security Plan and Procedures
- 3.1.3 E-27 Sheets 1-4, "Schematic Diagram for the Evacuation Warning System"
- 3.1.4 E-427, Sheets 1-7, "Schematic Diagram for the Evacuation Warning System"

#### 3.2 REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE:

- 3.2.1 1903.010, "Emergency Action Level Classification"
- 3.2.2 1903.011, "Emergency Response/Notifications"
- 3.2.3 1043.034, "Security at ANO and the EOF During an Emergency"
- 3.2.4 1904.002, "Offsite Dose Projections- RDACS Computer Method"
- 3.2.5 1903.064, "Emergency Response Facility - Control Room"
- 3.2.6 1903.065, "Emergency Response Facility - Technical Support Center (TSC)"
- 3.2.7 1903.066, "Emergency Response Facility - Operational Support Center (OSC)"
- 3.2.8 1903.067, "Emergency Response Facility - Emergency Operations Facility (EOF)"

#### 3.3 RELATED ANO PROCEDURES:

- 3.3.1 1903.023, "Personnel Emergency"
- 3.3.2 1903.034, "Emergency Operations Facility Evacuation"

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3.4 REGULATORY CORRESPONDENCE CONTAINING NRC COMMITMENTS WHICH ARE IMPLEMENTED IN THIS PROCEDURE, **[BOLD]** DENOTES COMMITMENTS:

3.4.1 0CAN078609, (P-4405)- Develop procedural guidance for continuous accountability in the OSC/TSC. Step 6.3.2.

3.4.2 0CAN128211, (P-10858)- Implement procedure changes for dose projection and decision making during evacuation of TSC personnel. Sections 6.5.4 A-L

#### 4.0 DEFINITIONS

4.1 Atkins Emergency Worker Center: Emergency Center located at the Atkins High School. The center will be activated at the declaration of an Alert by the Arkansas Department of Health (ADH). The center is for use by ANO and ADH emergency workers following an evacuation of the plant site.

4.2 Continuous Accountability: Measures to maintain accountability for all individuals remaining onsite following a plant evacuation.

4.3 Evacuation Routes: Routes used by ANO personnel that may be used to exit the plant site in the event of a plant or exclusion area evacuation, defined as follows:

4.3.1 Evacuation Route 1 - From the main guard station, proceed east along the intake canal to May Road, then north to State Road 333.

4.3.2 Evacuation Route 2 - From the main guard station, proceed west, then north past the cooling tower and sally port, using the north access road to State Road 333.

4.3.3 Evacuation Route 3 - From the main guard station, proceed west, then continue west along the west access road to Flatwood Road, and continue on Flatwood Road north to State Road 333.

4.4 Exclusion Area: That area surrounding ANO within a minimum radius of 0.65 miles of the reactor buildings, but outside the protected area and controlled to the extent necessary by ANO during periods of emergency.

4.5 Exclusion Area Evacuation: The orderly withdrawal of personnel and general public from that portion of the Exclusion Area which is affected by an emergency condition as described in Section 6.1.3

4.6 Immediate Evacuation: The immediate and orderly withdrawal of all personnel from the affected Emergency Response Facility.

4.7 Initial Accountability: Measures to account for all individuals remaining onsite after the declaration of a Site Area or General Emergency, or Plant Evacuation. The objective is to ascertain the names of missing individuals within 30 minutes following the declaration of a SAE or GE, or Plant Evacuation. If necessary, Initial Accountability may be performed at any time.

4.8 Localized Evacuation: The orderly withdrawal of all personnel from selected areas within the protected area. The area selected for a localized evacuation should have well defined boundaries and be easily



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controllable (e.g., Unit 1 and/or Unit 2 Auxiliary Buildings, Radwaste Building, Hydrogen Storage Area, etc.).

- 4.9 Non-essential Personnel: Includes employees not having emergency assignments, visitors, contractor/construction personnel, and members of the public who may be in public access areas within the exclusion zone or owner controlled area.
- 4.10 Offsite Evacuation: The orderly withdrawal of personnel from that portion of the area outside of the Arkansas Nuclear One Exclusion Area which is affected by an emergency condition as described in Section 6.1.4.
- 4.11 Operational Support Center (OSC): The 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  
Fire Fighting Support  
  
The OSC serves as the assembly point and briefing area for repair and damage control teams.
- 4.12 Plant Evacuation: The orderly withdrawal of all personnel from the protected area except for those personnel required to respond to the situation.
- 4.13 Precautionary Evacuation: A multi-stage evacuation of personnel located within an Emergency Response Facility.
- 4.14 Protected Area: The area encompassed by physical barriers (i.e., the security fence) and to which access is controlled.
- 4.15 Technical Support Center (TSC): The emergency response center located on the third floor of the ANO Administration Building which is equipped with instrumentation, communication systems, and facilities useful in monitoring the course of an accident.

## 5.0 RESPONSIBILITY AND AUTHORITY

- 5.1 The TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) is responsible for declaring a Localized, Plant, or Exclusion Area Evacuation when any of the symptoms contained in Sections 6.1.1, 6.1.2, or 6.1.3 are detected.
- 5.2 Arkansas Department of Health (ADH) personnel are responsible for implementing an Offsite Evacuation. This shall be accomplished in accordance with the Protective Action Guidelines contained in the State of Arkansas Emergency Operations Plan, Annex V, "Arkansas Nuclear One Radiological Incident Response Plan". The individual responsible for Emergency Direction and Control (i.e., the Shift Manager, TSC Director, or Emergency Operations Facility Director) is responsible for recommending an Offsite Evacuation in accordance with Procedure 1903.011, "Emergency Response/Notifications", Attachment 6.

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- 5.3 The Security Shift Commander is responsible to provide initial accountability information to the TSC Support Superintendent. This information should be available within 30 minutes following a declaration of a Site Area or General Emergency, or Plant Evacuation.
- 5.4 The TSC Support Superintendent is responsible to ensure that continuous accountability stations are established (control rooms, Maintenance Facility, and Admin. building) and results reported to the TSC Director.
- 5.5 Emergency Response Organization (ERO) Personnel who remain onsite following a plant evacuation are responsible to carry out instructions for initial and continuous accountability as described in section 6.3 of this procedure.

## 6.0 INSTRUCTIONS

### 6.1 INITIATING CONDITIONS

#### **NOTE**

If releases of radioactivity are in progress or suspected, the 1904.XXX, "Offsite Dose Projections Series" procedures should be utilized to assess the potential doses. Once the doses have been assessed, a determination can be made as to whether or not the conditions warrant the declaration of an emergency class and the subsequent recommendation of protective actions for onsite and offsite personnel.

#### 6.1.1 Localized Evacuation

- A. A localized evacuation will be initiated if any condition exists which in the opinion of the TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) may pose a threat to the health and safety of plant workers. The area selected for evacuation should have well defined boundaries and be easily controllable.
- B. If the threat extends beyond a localized area, then consideration should be given for a Plant, Exclusion Area and/or Offsite Evacuation.

#### 6.1.2 Plant Evacuation

**The principal consideration when contemplating a Plant Evacuation is the safety of plant personnel.**

A plant evacuation shall be considered in response to the following conditions:

- A. Declaration of a Site Area Emergency or General Emergency. Go to procedure 1903.011. Use Forms 1903.011 P, Q, R, S, T or U.
- B. HP survey results indicate that general area radiation levels outside of a Radiologically Controlled Area exceed 2.5 mRem/hr, which is attributed to a loss of control of radioactive material and the hazard is not confined to a well-defined area.

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- C. HP air sample results indicate that unevaluated airborne radioactivity exceeds  $9E-10$  uCi/cc, which is attributed to a loss of control of radioactive material and the hazard is not confined to a well-defined area.
- D. An uncontrolled toxic gas leak exists (originating either on-site or off-site) and the hazard is not confined to a well-defined area.

The decision to evacuate non-essential personnel (including the general public) or retain them on-site should be based on the course of action which presents the minimum risk to personnel (except for SAE or GE). Examples of extenuating conditions that may result in deciding against a plant evacuation are:

- An ongoing security threat within the protected area (consult with the Security Shift Commander to aid in determining the safest course of action).
- Inclement weather (e.g., Tornado, high winds, hazardous road conditions may preclude a safe evacuation of plant personnel).
- Radiological hazards exist. (Determine which action would result in lower dose to nonessential personnel).

#### 6.1.3 Exclusion Area Evacuation

- A. An exclusion area evacuation shall be initiated if a General Emergency is declared. If a Site Area Emergency is declared, an exclusion area evacuation should be considered (Use 1903.011).
- B. An exclusion area evacuation shall be initiated if HP survey results indicate that general area radiation levels exceed 2.5 mREM/hr within the Exclusion Area.
- C. An exclusion area evacuation shall be initiated if personnel (including the general public) within the Exclusion Area could receive an exposure to a toxic gas (e.g., transportation accident involving truck, rail, or barge).

#### 6.1.4 Offsite Evacuation

An Offsite Evacuation shall be recommended in accordance with Procedure 1903.011, "Emergency Response/Notifications", Attachment 6.

#### 6.1.5 EOF Evacuation

See Procedure 1903.034, "Emergency Operations Facility Evacuation".

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## 6.2 IMMEDIATE ACTIONS

### 6.2.1 Localized Evacuation

- A. If the conditions listed in section 6.1.1 are observed, then a localized evacuation of the affected area(s) should be considered.

Use Form 1903.030C, "Localized Evacuation Checklist", to perform a localized evaluation.

- B. A brief description of the control room handswitch settings for the Evacuation Alarm System is outlined below:

1. Unit 1 - Three (3) position handswitch
  - a. REAC. BLD. - Activates the Unit 1 Reactor Building Alarm System only
  - b. OFF - Deactivates the Evacuation Alarm System
  - c. PHY. PLT. - Activates the Evacuation Alarm System for the entire physical plant including surrounding buildings located within the protected area.
2. Unit 2 - Four (4) position handswitch
  - a. OFF - Deactivates the Evacuation Alarm System
  - b. CTMT - Activates the Unit 2 Reactor Building Alarm system only
  - c. CTMT AUX - Activates only the Unit 2 Reactor Building and Unit 2 portion of the Auxiliary Building Alarm System
  - d. PLANT - Activates the Evacuation Alarm System for the entire physical plant including surrounding buildings located within the protected area.

### 6.2.2 Plant Evacuation

- A. Use Form 1903.030B, "Plant Evacuation Checklist", to determine if a plant evacuation is advisable. For a plant evacuation based on a declaration of a SAE or GE, use forms 1903.011 P, Q, R, S, T, or U.
- B. Shift Operations personnel on duty should report to the Control Room. Shift Operations personnel not on duty (training/support) should report to the OSC Assembly Area (located in the Maintenance Facility) and report to the OSC Director.

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- C. The following groups should immediately report to their designated emergency work location and notify their immediate supervisor of their location for accountability purposes.
  - 1. Emergency Response Organization (ERO) personnel (EOF, TSC and OSC staff).
  - 2. All other shift personnel (affected unit Maintenance personnel, Nuclear Chemistry personnel, Health Physics personnel, etc.) should report to the OSC Assembly Area (located in the Maintenance Facility).
- D. Maintenance personnel from the unaffected unit who are neither a part of the OSC staff or are not assigned a position or task in the Emergency Response Organization, should report to the EOF and standby for instructions (See Procedure 1903.067, "Emergency Response Facility - Emergency Operation Facility (EOF)", for assembly location.)
- E. System Engineering should report to the EOF, first floor.
- F. **IF** the hazard extends beyond the protected area, **THEN** consider initiating an Exclusion Area Evacuation and/or recommending an evacuation (and/or sheltering) of offsite areas.

#### 6.2.3 Exclusion Area Evacuation

- A. **IF** either of the conditions listed in section 6.1.3 are detected, **THEN** an exclusion area evacuation should be initiated.
- B. Coordinate with Security Personnel for the evacuation and control of the affected area(s) within the exclusion area (including the Generation Support Building).

Under most conditions, the exclusion area should be evacuated within one hour, and the area should be patrolled at least once every 2 hours thereafter (if conditions allow).

- 1. Plant personnel and the general public located within the exclusion area that are not a part of the ERO shall be evacuated to the Atkins Emergency Workers Center during radiological events or as directed by Security for all other hazards (e.g., toxic gas event).
- 2. Engineering personnel located in the GSB should be directed by Security to report to the EOF.
- 3. ANO Security will make an effort to notify the general public within the exclusion zone, which

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encompasses portions of Lake Dardanelle, until the U.S. Army Corps of Engineers arrive. Security may utilize the ANO boat to perform these actions.

- C. Contact the U.S. Army Corps of Engineers to request that boat access to the portions of Lake Dardanelle within the exclusion area be controlled.
- D. **IF** the hazard extends beyond the exclusion area, **THEN** consideration should be given for recommending an evacuation (and/or sheltering) of offsite areas.

#### 6.2.4 Offsite Evacuation

Refer to Procedure 1903.011, "Emergency Response/ Notifications", Attachment 6, to determine the appropriate offsite Protective Action Recommendation (PAR).

### 6.3 ACCOUNTABILITY

#### 6.3.1 Initial Accountability

#### **NOTE**

**If necessary, Initial Accountability may be performed at any time.**

- A. The objective of Initial Accountability is to ascertain the names of missing individuals within 30 minutes following the declaration of a Site Area or General Emergency, or Plant Evacuation.
- B. Plant evacuees are accounted for as they exit the plant and are logged offsite by the security computer.
- C. Emergency response personnel who remain onsite are required to log in at the nearest security card reader using the special accountability code 0000.
- D. A list of unaccounted for individuals will be generated by the security computer based upon information acquired through steps 6.3.1.B and 6.3.1.C above. This list shall be available no later than 30 minutes following the declaration of a Site Area or General Emergency, or Plant Evacuation.
- E. The TSC Director shall initiate search and rescue efforts to locate unaccounted for personnel identified by the security computer.

#### [6.3.2] Continuous Accountability

- A. **Personnel who remain onsite following a plant evacuation are to be accounted for on a continuous basis throughout an emergency.**
- B. **Continuous Accountability control points shall be established at entry/exit points to the Administration Building, Maintenance Facility and Control Rooms.**

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- C. Personnel leaving the Administration Building, Maintenance Facility, or Control Rooms are responsible to record their relocation on Form 1903.030A, "Onsite Continuous Accountability Log" and notify the OSC for tracking purposes.
- D. Personnel leaving an ERO Facility must check in with Radiation Protection in the OSC for plant radiological conditions.
- E. Personnel returning to the ERO Facility should complete the log entry on Form 1903.030A for their return.
- F. Accountability information for onsite personnel who are not assembled in the Administration Building, Maintenance Facility or Control Rooms can be obtained from the ERO member responsible for that particular task as described in section B of the Emergency Plan and the Emergency Response Facility Procedures - 1903.064, 1903.065, 1903.066 and 1903.067 (e.g., information on Nuclear Chemistry personnel can be obtained from the Nuclear Chemistry Manager.)

Additional information for onsite personnel, including their department and the individual responsible for them while onsite, can be obtained through the Support Manager.]

#### 6.4 FOLLOW-UP ACTIONS

- 6.4.1 Determine if any Emergency Action Level criteria have been exceeded. (Refer to 1903.010, "Emergency Action Level Classification")
- 6.4.2 Personnel (other than emergency response personnel) in the Controlled Access Areas should proceed to the Controlled Access exit points and monitor themselves, if possible, or follow HP instructions at the Controlled Access exit points prior to exiting.
- 6.4.3 Personnel (including the general public) other than the on-site emergency response personnel should:
  - A. Proceed to the nearest guard station, or the guard station designated in the plant evacuation announcement,
  - B. Log out of the plant and retain both their security badge and TLD, and
  - C. Proceed to the Atkins Emergency Worker Center (see Attachment 3).
- 6.4.4 Security personnel should implement evacuation and personnel accountability measures per Procedure 1043.034, "Security at ANO and the EOF During an Emergency".

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- 6.4.5 If there are personnel unaccounted for following a plant evacuation, the Shift Manager/TSC Director shall initiate a search for personnel who are unaccounted for.
- 6.4.6 When conditions have been determined to no longer require evacuation, the TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) may terminate the localized, exclusion area and/or plant evacuation. Termination of evacuations involving offsite areas must be coordinated with ADH personnel.

#### 6.5 TSC/OSC EVACUATION

The Technical Support Center (TSC) and the Operational Support Center (OSC) are normally not evacuated in the event of a Plant Evacuation. The Onsite Radiological Monitoring Section of the Emergency Radiation Team shall monitor radiation levels while the centers remain occupied. However, if the following symptoms are observed in the TSC or OSC, actions should be taken in accordance with Sections 6.5.2 and 6.5.3.

##### 6.5.1 Symptoms

- A. Area radiation levels above 2.5 mRem/hr.
- B. Unevaluated airborne radioactivity  $>9\text{E}^{-10}$   $\mu\text{Ci/cc}$ .

##### 6.5.2 Immediate Action

- A. Notify the TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) of the above condition(s).
- B. The TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) should determine if the condition warrants further protective actions in accordance with Section 6.5.3. Attachment 1 is provided for action guidance.

##### 6.5.3 Follow-Up Actions

- A. The Onsite Radiological Monitoring Section of the Emergency Radiation Team should increase surveillance of airborne radioactivity to once per hour.
- B. The Onsite Radiological Monitoring Section of the Emergency Radiation Team should determine the dose rates in the area approximately every 15 minutes.
- C. Use Attachment 1 instructions to determine TSC/OSC actions.
- D. If the TSC and/or OSC is/are evacuated, personnel should relocate to the EOF (use west end, ground floor entrance).
- E. After relocation to the Secondary TSC or OSC, Emergency Team Leaders are responsible for reporting accountability of team personnel to their supervisors. Each TSC or OSC staff person is responsible for



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reporting to his or her supervisor. Each manager shall report accountability information to the TSC Support Superintendent.

- F. If the TSC or OSC is evacuated, security personnel should implement evacuation and personnel accountability measures per Procedure 1043.034. "Security at ANO and the EOF During an Emergency".
- G. Accountability results of emergency personnel should be reported to the TSC Director at the EOF, or to the Shift Manager if the TSC Director cannot be readily contacted.

**NOTE**

INFORMATION CONTAINED WITHIN THE SYMBOLS (\*) IS PROPRIETARY OR PRIVATE INFORMATION

- H. \*The Security Shift Commander, except for Control Room personnel, should be the last to exit the plant to assure security and accountability actions have been completed. They should advise the Shift Manager of the affected unit upon their exit of the plant.\*

#### [6.5.4] Immediate Evacuation of TSC/OSC

- A. The TSC Director should verify the need for and declare an immediate evacuation of the TSC and/or OSC when symptoms occur which require such action in accordance with Attachment 1.
- B. The TSC Director should contact the Main Guard Station and the Shift Manager to advise that an immediate evacuation has been declared.
- C. The TSC Director should ensure that an evacuation announcement is made over the Public Address System, and the plant evacuation alarm is sounded. The TSC Director should determine, at his discretion, the affected personnel to whom the announcement applies.
- D. The evacuation announcement should state: "An immediate evacuation of Technical Support Center (and/or Operational Support Center) personnel has been declared. (Affected personnel) implement evacuation procedures. (Affected personnel) relocate to the EOF via (designated evacuation route)." This announcement should be repeated at least two times.
- E. All TSC or OSC personnel should gather essential materials (e.g. log books, status sheets, drawings in-use, etc.) and equipment (e.g. SCBA's, survey meters, protective clothing, etc.) and evacuate their respective areas without delay.

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- F. Prior to relocation to the Secondary TSC, the TSC Director may transfer his/her duties to the following individual who will function as interim TSC Director:
  - 1. If the Emergency Operations Facility is not activated, the Shift Manager of the affected unit may temporarily assume the TSC Director duties; or
  - 2. If the Emergency Operations Facility is operational, then a turnover of emergency functions to the EOF Director shall be performed in accordance with procedure 1903.065.
- G. Upon arrival at the Secondary TSC, the TSC Director should establish communications with the interim TSC Director to receive a status update and to reassume TSC Director duties.
- H. Emergency response personnel should report to their preassigned work areas in the EOF, unless directed otherwise, (see Procedure 1903.067, "Emergency Response Facility - Emergency Operations Facility (EOF)", for room assignments).
- I. The TSC Director should ensure that the NRC and State authorities are advised of the relocation to and operational status of the Secondary TSC and/or OSC.
- J. The TSC Director should advise the Shift Manager when the Secondary TSC is operational.
- K. The TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) must approve reentry into the plant until the evacuation is terminated.
- L. When the plant is determined to have returned to a condition where the TSC or OSC evacuation is no longer required, the TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) may terminate the TSC or OSC evacuation.]

#### 6.5.5 Precautionary Evacuation of TSC/OSC

- A. The TSC Director should verify the need for and declare a precautionary evacuation of the TSC and/or OSC when symptoms occur which require such action in accordance with Attachment 1.
- B. The TSC Director should contact the Main Guard Station and Shift Manager and advise them that a precautionary evacuation has been declared.
- C. The TSC Director should ensure that an evacuation announcement is made over the Public Address System. The TSC Director should determine, at his discretion,

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the affected personnel to whom the announcement applies.

- D. The evacuation announcement should state: "A Precautionary Evacuation of Technical Support Center (and/or Operational Support Center) personnel has been declared. (Affected personnel) implement evacuation procedures. (Affected personnel) relocate to the EOF via (designated evacuation route)." (This announcement should be repeated at least two times.)
- E. All TSC and/or OSC personnel shall gather necessary materials (e.g. log books, status sheets, drawings in-use, etc.) and equipment (e.g. SCBA's, survey meters, protective clothing, etc.) and evacuate their respective areas as instructed by the TSC Director per Section 6.5.5.E.
- F. A precautionary evacuation of the TSC or OSC should be accomplished by relocating a primary and a secondary group of emergency response personnel as identified in Attachment 2, or as otherwise designated by the TSC Director. The secondary TSC and/or OSC group should evacuate first; the primary group should evacuate upon the direction of the TSC Director, if practical after the secondary group is in place at the EOF. \*Security personnel will normally evacuate with the primary group\*.
- G. Prior to relocation to the Secondary TSC, the TSC Director may, at his discretion, transfer his duties to the following individual who will function as interim TSC Director:
  - 1. Shift Manager, as deemed necessary if the TSC Director is in a situation such that he could not perform TSC Director duties during the TSC to Secondary TSC transition, and if the EOF is not activated; or
  - 2. EOF Director, if EOF is activated.
- H. Upon arrival at the Secondary TSC, the TSC Director should establish communications with the interim TSC Director to receive a status update and to reassume TSC Director duties.
- I. Emergency response personnel should report to their preassigned work areas in the EOF, unless directed otherwise. (See procedure 1903.067, "Emergency Response Facility - Emergency Operations Facility (EOF)" for room assignments.)
- J. The TSC Director should ensure that the NRC and State Emergency Operation Centers are advised of the

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relocation to and operational status of the Secondary Technical/Operational Support Center(s).

- K. The TSC Director should advise the Shift Manager when the Secondary TSC is operational.
- L. The TSC Director (or the affected unit's Shift Manager if the TSC Director is not available) must approve reentry into the plant until the evacuation is terminated.
- M. When the plant is determined to have returned to a condition where the plant evacuation is no longer required, the TSC Director may terminate the plant evacuation.

#### 6.6 EOF EVACUATION

See Procedure 1903.034, "Emergency Operations Facility Evacuation"

#### 6.7 ROAD BLOCKS

Road blocks restricting access to ANO should be manned by at least one ANO Security Officer. The ANO Security Officer should be capable of making radio contact with the Security Shift Commander. The Security Shift Commander shall obtain verbal approval from the Shift Manager/TSC Director or the EOF Director before allowing passage of individual(s) who are not part of the response organization.

### 7.0 ATTACHMENTS AND FORMS

#### 7.1 ATTACHMENTS

- 7.1.1 Attachment 1 - Technical and Operational Support Center Evacuation Decision Flow Chart
- 7.1.2 Attachment 2 - TSC-OSC Precautionary Evacuation Primary/Secondary Group Assignments
- 7.1.3 Attachment 3 - Directions to Atkins Emergency Worker Center

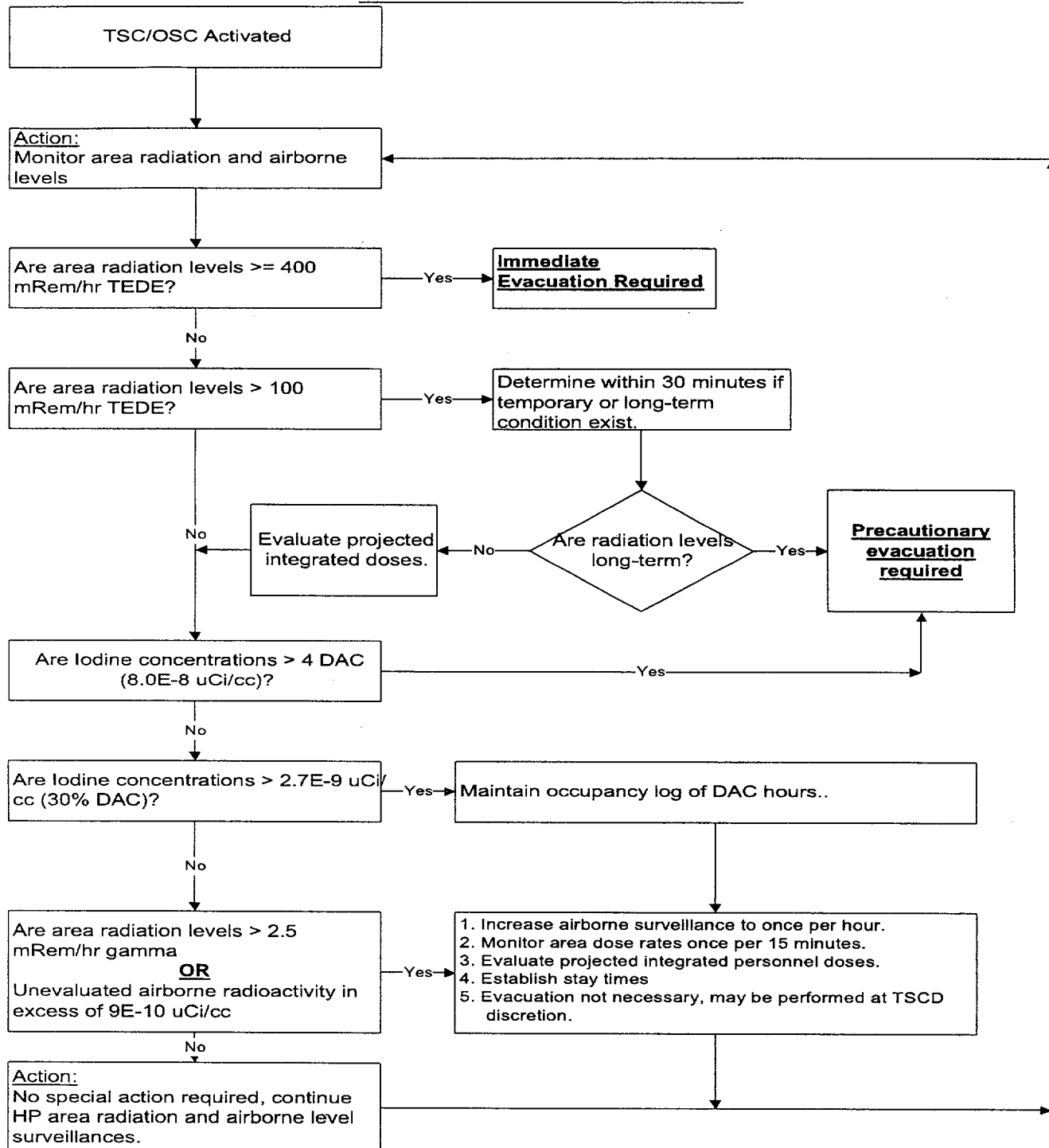
#### 7.2 FORMS

- 7.2.1 Form 1903.030A - Onsite Accountability
- 7.2.2 Form 1903.030B - Plant Evacuation Checklist
- 7.2.3 Form 1903.030C - Localized Evacuation Checklist

## ATTACHMENT 1

## Technical and Operational Support Center

## Evacuation Decision Flow Chart



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ATTACHMENT 2

TSC/OSC Precautionary Evacuation

Primary/Secondary Group Assignments

**NOTE**

TSC Directors may alter assignments as they deem necessary

Technical Support Center:

<u>Primary</u>	<u>Secondary</u>
TSC Director	Operations Manager
Engineering Manager	Maintenance Manager
	Radiation Protection and Radwaste Manager
	TSC Support Superintendent
	Assistants/Communicators
	USNRC Personnel

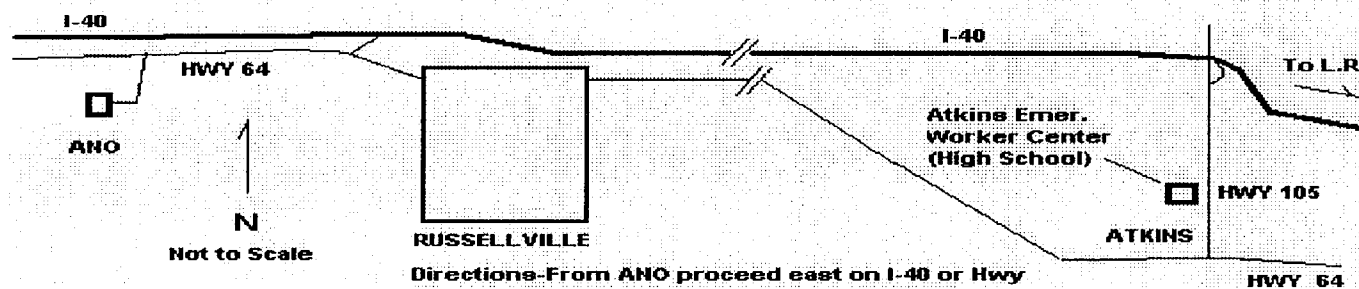
Operational Support Center:

<u>Primary</u>	<u>Secondary</u>
As determined by the TSC Director	All OSC personnel not designated by the TSC Director to remain onsite.
1. Minimal staffing for a recovery team, considering ongoing or short term repair requirements, and to include at least one HP and one medical team member.	
2. Minimal security personnel as recommended by the Security Shift Supervisor/Security Coordinator.	

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# ATTACHMENT 3

## Directions to Atkins Emergency Worker Center



**Directions-**From ANO proceed east on I-40 or Hwy 64. For I-40, take the Atkins exit and proceed South on Hwy 105 to the High School. For Hwy 64, turn north on Hwy 105 to the High School at Atkins. Distance from ANO is approx. 19 miles. The center is activated at an Alert Emer. Class.

Location:     ☐ Unit 1 Control Room  
                 ☐ Admin Building

- ☐ Unit 2 Control Room
- ☐ Maintenance Facility

[illegible]

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**NOTE**

This checklist contains three (3) sections.

**NOTE**

Plant Evacuation due to a declared SAE or GE is addressed in 1903.011, Forms 1903.011 P, Q, R, S, T, or U.

**SECTION 1 - EVACUATION DETERMINATION**

1. Determine if any Initiating Condition is present:
  - 1.1 Site Area Emergency or General Emergency declared (see note above).

☐ Yes (**GO TO** Procedure 1903.011)  
☐ No (**GO TO** step 1.2)
  - 1.2 HP survey results indicate that general area radiation levels outside of a Radiologically Controlled Area exceed 2.5 mRem/hr?

☐ Yes (**GO TO** step 2)  
☐ No (**GO TO** step 1.3)
  - 1.3 HP air sample results indicate unevaluated airborne radioactivity exceeds 9E-10  $\mu\text{Ci/cc}$ ?

☐ Yes (**GO TO** step 2)  
☐ No (**GO TO** step 1.4)
  - 1.4 An uncontrolled toxic gas leak (originating either on-site or off-site) exists?

☐ Yes (**GO TO** step 2)  
☐ No (**EXIT** this checklist)
2. Determine if any Extenuating Conditions exist which might subject evacuees to a higher risk to personnel safety:
  - 2.1 An ongoing security threat within the protected area?

☐ Yes  
☐ No
  - 2.2 Inclement weather exists?

☐ Yes  
☐ No
  - 2.3 Radiological or Hazardous Materials conditions exist?

☐ Yes  
☐ No
3. **IF** NONE of the extenuating conditions in Step 2 are present, **GO TO** Section 2.
4. **COMPARE** the risks involved from the initiating conditions in Step 1 and the extenuating conditions in Step 2.

Will a plant evacuation present a higher risk to personnel than having them remain onsite?

☐ Yes (**GO TO** step 5)  
☐ No (**GO TO** Section 2)
5. Periodically monitor and re-evaluate the conditions which prompted the potential evacuation.

**END OF SECTION 1**

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**PLANT EVACUATION CHECKLIST**

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## SECTION 2 - EVACUATION PREPARATION

1. **If** a radiological or toxic gas release exists or is suspected,  
**Then** determine the appropriate evacuation routes based on symptoms and wind direction utilizing the chart below:

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

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

- 1.1 **If** wind direction is not a factor,  
**Then** use any of the 3 routes that are not affected, as necessary.

- 1.2 **Write the appropriate routes in the plant announcement, step 1 of section 3.**

2. Determine any areas of the plant to avoid during evacuation. This may include either guard station, and/or any special protective measures to be taken by plant evacuees. Include this information in the evacuation announcement, section 3, step 1.

Plant areas to avoid/protective measures (or none): \_\_\_\_\_

3. Direct Security to perform the following:

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

3.2 Perform initial accountability by \_\_\_\_\_ (Time)  
(30 minutes from declaration)

4. Contact Health Physics:

4.1 Request HP coverage at the plant exit portal monitors.

4.2 Instruct HP 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.

5. **IF** you are the **SHIFT MANAGER**,  
**GO TO** Section 3.

6. Direct the Shift Manager of the affected control room to perform the plant evacuation announcement in accordance with Section 3 of this checklist to coordinate making the evacuation announcement and sounding the evacuation alarm.

Inform the Shift Manager of the evacuation route(s) and any special protective actions to be taken by plant evacuees.

7. Direct the ERO staff to log in at a security card reader using "0000".

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8. IF the incident extends into an Exclusion Area Evacuation,  
THEN perform the following:

- 8.1 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.
- 8.2 Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.
  - 8.2.2 Security shall direct personnel who are not a part of the ERO (including the general public) to evacuate to the Atkins Emergency Workers Center during radiological events or as directed by Security for all other hazards (e.g., toxic gas event).
  - 8.2.3 Engineering personnel located in the GSB should be directed by Security to report to the EOF.

Performed by: \_\_\_\_\_  
☐ Shift Manager      ☐ TSC Director

Date: \_\_\_\_\_

**END OF SECTION 2**

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### SECTION 3 - EVACUATION ANNOUNCEMENT

This section contains tasks that should be completed from the Control Room.

1. Make the following announcement using the plant paging system (dial 197):  
**"Attention all personnel. Attention all personnel. A plant evacuation has been declared. All emergency response and emergency standby personnel report to your assembly areas immediately. All other personnel evacuate the plant using evacuation route(s) \_\_\_\_\_ and proceed to Atkins Emergency Worker Center."**

If necessary, include in the announcement any plant areas to avoid, or special protective actions to be taken by plant evacuees:

\_\_\_\_\_

\_\_\_\_\_

3. Sound the plant evacuation alarm for approximately 10 seconds.
4. Repeat the announcement at least 2 times, alternating the announcement with the plant evacuation alarm.
5. Instruct control room personnel from both units to log in to the designated security card reader using "0000".
6. **IF** the TSC Director or EOF Director has Emergency Direction and Control, **THEN** do not perform steps 7 and 8.
7. Direct the ERO staff to log in at a security card reader using "0000".
8. **IF** the incident extends into an Exclusion Area Evacuation, **THEN** perform the following:
  - 8.1 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.
  - 8.2 Direct Security to evacuate the Generation Support Building (GSB) and all buildings outside the security fence but within the exclusion area.

Performed by: \_\_\_\_\_

Date: \_\_\_\_\_

### END OF SECTION 3

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**NOTE**

This checklist contains two (2) sections.

**SECTION 1 - EVACUATION DETERMINATION****NOTE**

The area selected for evacuation should have well-defined boundaries and be easily controllable.

1. Determine the area of the plant to be evacuated.  
Area to be evacuated: \_\_\_\_\_
2. Determine any area(s) of the plant to avoid during the localized evacuation.  
Area(s) to be avoided (or none): \_\_\_\_\_
3. Determine any special protective measures which should be taken by evacuees.  
Special protective measures (or none): \_\_\_\_\_
4. **IF** you are the **SHIFT MANAGER**,  
**GO TO** Section 2.
5. Direct the Shift Manager of the affected unit to perform a localized evacuation in accordance with Section 2 of this checklist to coordinate the evacuation announcement and alarm.  
  
Inform the Shift Manager of the area(s) to be evacuated and any special protective actions to be taken by evacuees.

Performed by: \_\_\_\_\_  
☐ Shift Supt.      ☐ TSC Director

Date: \_\_\_\_\_

**END OF SECTION 1**

FORM TITLE:

**LOCALIZED EVACUATION CHECKLIST**

FORM NO.

**1903.030C**

REV.

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## SECTION 2 - EVACUATION ANNOUNCEMENT

This section contains tasks that should be completed from the Control Room.

1. Determine which portion, if any, of the plant evacuation alarm system to activate:

UNIT 1: ☐ REAC. BLD. (Unit 1 Reactor Building only)  
☐ PHY. PLT. (Entire physical plant inside the protected area)

UNIT 2: ☐ CTMT (Unit 2 Containment Building only)  
☐ CTMT AUX (Unit 2 Containment and Unit 2 Auxiliary Buildings)  
☐ PLANT (Entire physical plant inside the protected area)

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

"Attention all personnel. Attention all personnel. Due to \_\_\_\_\_  
\_\_\_\_\_(state reason) all personnel evacuate \_\_\_\_\_  
\_\_\_\_\_(state area to evacuate). All  
other personnel continue normal activities unless instructed otherwise."

If necessary, include in the announcement any special protective actions to be taken by plant evacuees:

Special protective actions (or none): \_\_\_\_\_  
\_\_\_\_\_

3. Sound the selected portion, if any, of the plant evacuation alarm for approximately 10 seconds.
4. Repeat the announcement at least 2 times, alternating the announcement with the selected portion, if any, of the plant evacuation alarm.

Performed by: \_\_\_\_\_  
(signature)

Date: \_\_\_\_\_

**END OF SECTION 2**

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