



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

EMERGENCY PLAN PROCEDURE

REV. #12 PC #

Safety Related YES ☒ NO ☐

PLANT EVACUATION
1903.30 REV. 6

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APPROVED BY:

APPROVAL DATE

James M. Levine
(General Manager)

3/8/83

REQUIRED EFFECTIVE DATE:



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1.0 PURPOSE

The purpose of this procedure is to provide the symptoms for which a Plant 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 Arkansas Nuclear One Emergency Plan

3.2 References Used in Conjunction with this Procedure:

3.2.1 1903.10, "Emergency Action Level Response"

3.3 Related ANO Procedures:

3.3.1 1903.23, "Personnel Emergency"

3.3.2 1903.40, "Duties of the Emergency Evacuation Team"

4.0 DEFINITIONS

4.1 A Plant Evacuation is the orderly withdrawal of all personnel from the protected area except those personnel required to respond to the situation.

4.2 The Protected Area is the area encompassed by physical barriers and to which access is controlled (i.e., the security fence).

4.3 Technical Support Center - The location within the ANO Administration Building equipped with instrumentation and communication systems and facilities useful in monitoring the course of an accident; this center is located in the 3rd Floor Conference Room.

4.4 Operational Support Center - The ANO Administrative Building; the normal work location for an individual is used as the initial reporting area in this center with the following exceptions:

4.4.1 Radwaste Coordinator - individual's supervisor's office in the Administrative Building.



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4.4.2 Site Engineering Supervisor - reports to ANO Plant Analysis Superintendent's office.

4.4.3 Emergency Team Personnel

A. Evacuation - Main Guard Station (Material Management Personnel); Emergency Control Center [Secondary Operational Support Center (Training Personnel)]

B. Fire - 2nd floor conference room

C. Medical - First Aid Room/2nd floor break room

D. Radiation - (onsite team) Maintenance Coordinator's Office Area (1st floor Administration Building)

E. Recovery - same as 4.4.3.D

4.4.4 Operations Personnel - Operations Manager's office (Operations Technical Engineers report to their normal work location)

5.0 RESPONSIBILITIES

5.1 The affected unit's Shift Operations Supervisor is responsible for declaring a Plant Evacuation when any of the symptoms contained in Section 6.0 occur.

5.2 The Duty Emergency Coordinator/Recovery Manager is responsible for coordinating activities associated with a Plant Evacuation including personnel accountability.

5.2.1 As appropriate to the incident, the DEC/Recovery Manager and/or HP Superintendent should ensure that evacuated personnel are monitored (i.e. via portal monitors or manual frisking).

5.2.2 Immediately following a plant evacuation, the DEC/Recovery Manager should provide further guidance and instructions via Security/Emergency Evacuation Team Leaders to evacuated personnel at the designated assembly area(s):

A. Inform those individuals who will be required to remain available; and

B. Dismiss unnecessary personnel after obtaining name, badge number, and telephone where the individual(s) can be reached later if needed for additional support.

5.3 Security Personnel are responsible for evacuation and personnel accountability following a Plant Evacuation.



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- 5.4 The Emergency Evacuation Team is responsible for assisting Security Personnel (as directed) in evacuation and personnel accountability; the Materials Management personnel may assist with assigned duties onsite, as necessary; the Training personnel may assist with assigned duties off-site, as necessary.
- 5.5 The Emergency Medical Team is responsible for aiding and assisting in decontaminating injured personnel identified during a Plant Evacuation.
- 5.6 Emergency Team Leaders are responsible for reporting accountability of team personnel to the Technical Support Center • (Ext. . . . •).
- 5.7 Each Operational Support Center staff person is responsible for accounting for himself to the Technical Support Center • (Ext. . . . •).
- 5.8 Each ERO staff person under the Recovery Manager (as shown in Fig. 13 of the ANO Emergency Plan) is responsible for notifying the Site Office Services Coordinator (Ext. 3152) of their location and of any changes in their location, including shift changes, for tracking purposes. If a TSC/OSC evacuation has occurred, the Site Office Services Coordinator may be reached at Ext. 6479.

6.0 SYMPTOMS

- 6.1 Unevaluated general area radiation levels exceeding 2.5 mRem/hr outside of the controlled access areas which are not attributed to any cause other than a possible radiological incident.
- 6.2 Unevaluated airborne radioactivity in excess of 1×10^{-9} $\mu\text{Ci/cc}$ measured outside of the controlled access areas.
- 6.3 An uncontrolled toxic gas leak where the hazard is not confined to a local area and the conditions continue to increase in severity.

7.0 IMMEDIATE ACTIONS

- 7.1 Any person who identifies any of the emergency conditions described in Section 6.0 should notify the affected unit's Shift Operations Supervisor immediately. If the potential for a plant evacuation exists and the Emergency Response Organization has been activated, the Shift Operations Supervisor and the Duty Emergency Coordinator/Recovery Manager should discuss whether or not conditions warrant a plant evacuation.

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- 7.2 Upon verification that conditions warrant a plant evacuation, the Shift Operations Supervisor should make the following announcement over the Public Address System:

"All Emergency Team personnel report to your respective assembly areas immediately".

NOTE: This announcement should be repeated several times and spoken in a slow, clear tone of voice.

- 7.3 Within 3 minutes, the Shift Operations Supervisor should perform the following tasks (based upon symptoms and prevailing wind direction):

- 7.3.1 Determine the appropriate designated assembly area(s) for plant evacuees (e.g. Emergency Control Center, South Parking Lot, West Parking Lot, etc.); and
- 7.3.2 Determine, if applicable, the appropriate evacuation route(s) (refer to Attachment 1); and
- 7.3.3 Determine, if necessary, any other special protective measures to be taken by plant evacuees; and
- 7.3.4 Contact, by the most expedient means, and provide the information in Sections 7.3.1, 7.3.2, 7.3.3 to the following groups:
 - A. Main Guard Station
 - B. Emergency Evacuation Team

- 7.4 The Shift Operations Supervisor should then perform the following tasks:

- 7.4.1 Sound plant evacuation alarm; and
- 7.4.2 Make the following announcement over the Public Address System:

"Attention all personnel! Attention all personnel! A plant evacuation has been declared. All personnel follow plant evacuation procedures and assemble at (designated assembly area). (If applicable, also state the evacuation route to be used and/or any other special protective measures.)

NOTE: This announcement should be repeated several times and spoken in a slow, clear tone of voice.

- 7.5 Shift Operations Personnel on duty should report to the Control Room.



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7.6 The following groups should immediately report to their designated emergency work location and notify the Technical Support Center for accountability purposes • •.

- 7.6.1 Technical Support Center Staff
- 7.6.2 Operational Support Center Staff
- 7.6.3 Operations Technical Engineers
- 7.6.4 Control Room/TSC Communicators

8.0 FOLLOW-UP ACTIONS

- 8.1 Determine if any Emergency Action Level criteria have been exceeded. (Refer to 1903.10, "Emergency Action Level Response").
- 8.2 Shift Operations Personnel which are onsite but not on duty should report to the Control Room from the appropriate response center.
- 8.3 Personnel other than Shift Operations Personnel in the Controlled Access Areas should proceed to the Controlled Access points and monitor themselves, if possible, prior to exiting.
- 8.4 Emergency response personnel should report to their pre-assigned assembly areas unless directed otherwise. Accountability of reporting individuals should be supplied to the Technical Support Center • (Ext. • as soon as practical following announcement of the evacuation (refer to 1903.10 Attachments 1-8 for the applicable roster). The Emergency Team Leaders and Shift Operations Supervisors are responsible for providing the accountability information for their personnel.
- 8.5 Personnel other than the emergency response personnel should proceed to their respective guard house, turn in their personnel I.D. badge only but retain their personnel dosimetry badge, exit the plant and proceed to the designated assembly area (i.e. the Emergency Control Center unless directed otherwise).
- 8.6 Security/Emergency Evacuation Team personnel should take the following actions:
 - 8.6.1 Assign personnel to perform the following tasks:
 - A. Direct Security personnel to remove the barrier from Evacuation Route One (i.e. unlock and remove chain if present) while enroute to unlock and man the Emergency Control Center.

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- B. Advise exiting personnel of the designated evacuation routes and assembly areas. Ensure that security badges are turned in and TLDs are retained by exiting personnel.
- C. Direct personnel to the designated assembly area.
- D. Advise (by the most expedient means) non-ANO personnel within the affected portions of the Exclusion Area to evacuate.
- E. Set up roads blocks to limit access to the plant site.
- F. Provide security, as necessary, at the designated assembly area.

8.6.2 Security officers should log badges out and place them in the badge holders as expeditiously as practical.

8.6.3 As soon as badges are logged out, Security should obtain a computer printout of personnel remaining on-site. If the Security computer is not operable, Security personnel should account for exiting personnel as stated in Paragraph 8.6.6.

8.6.4 Security should contact the Technical Support Center • , • and obtain the accountability results for emergency response personnel.

8.6.5 Security should then check the list of accounted for personnel on-site against the computer printout of personnel on-site. Results should be reported to the Duty Emergency Coordinator/Recovery Manager by Security personnel.

8.6.6 If the Security computer is not working, the list of accounted for one-site personnel obtained from the Technical Support Center • (Ext. •) should be checked against badges in the badge racks. Persons not accounted for in this manner should be reported to the Duty Emergency Coordinator/Recovery Manager.

8.6.7 If there is not time for Security to complete the accountability on-site, the badges and badge racks and a master computer printout of badged personnel should be taken to the west end of the Emergency Control Center, ground floor. Accountability should then be established as stated in Sections 8.6.3 through 8.6.6 above.

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8.6.8 •Security personnel shall, upon ANO personnel exiting each applicable area, lock their post, as necessary, and assemble at the Main Guard Station (or as directed) for further instructions. •

8.7 If there are person(s) unaccounted for, the Duty Emergency Coordinator/Recovery Manager shall direct personnel to search for the unaccounted for individual(s).

8.8 After initial accountability is established, security personnel issuing/receiving personnel badges are responsible for notifying the Technical Support Center of changes when personnel ingress/egress the protected area.

8.9 When the plant is determined to have returned to a condition when the plant evacuation is no longer required, the Duty Emergency Coordinator/Recovery Manager may terminate the plant evacuation.

9.0 EVACUATION OF THE TECHNICAL SUPPORT CENTER AND OPERATIONAL SUPPORT CENTER

The Technical Support Center and the Operational Support Center are not evacuated in the event of the Plant Evacuation. The Onsite Radiological Monitoring Section shall monitor radiation levels while the centers remain occupied. However, if the following symptoms are observed in the TSC/OSC, actions should be taken in accordance with Section 9.2 and 9.3.

9.1 Symptoms

9.1.1 Area radiation levels above 2.5 mR/hr.

9.1.2 Unevaluated airborne radioactivity in excess of 1×10^{-9} μ Ci/cc.

9.2 Immediate Action

9.2.1 Notify the Duty Emergency Coordinator/Recovery Manager of the above condition(s).

9.2.2 The Duty Emergency Coordinator/Recovery Manager should determine if the condition warrants further protective actions in accordance with Section 9.3. Attachment 2 is provided for action guidance.

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9.3 Follow-Up Actions

9.3.1 The Onsite Radiological Monitoring Section should increase surveillance of airborne radioactivity to once per hour.

9.3.2 The Onsite Radiological Monitoring Section should determine the dose rates in the area approximately every 15 minutes. Projected personnel accumulated doses should be evaluated and appropriate stay times should be established.

NOTE: Necessary respiratory protection equipment should be obtained from the Onsite Radiological Monitoring Section of the Emergency Radiation Team.

9.3.3 If the iodine concentration exceeds 5×10^{-10} $\mu\text{Ci/cc}$, an occupancy log must be kept to record MPC hours. If the iodine concentration exceeds 4 MPC (3.6×10^{-8} $\mu\text{Ci/cc}$), respiratory protection or evacuation is required.

9.3.4 If the radiation level is greater than 100 mR/hr but less than 1 R/hr:

- A. 30 minutes may be allowed to determine if it is a temporary condition or a long-term condition.
- B. If it is determined that a temporary condition exists, evaluate the projected personnel accumulated dose.
- C. If it is determined that a long-term condition exists, evacuation of the Technical Support Center and Operational Support Center will be required.

9.3.5 If radiation levels reach 1 R/hr, immediate evacuation of the Technical Support and Operational Support Center is required.

9.3.6 If the Technical/Operational Support Centers are evacuated, Technical/Operational Support Center personnel should relocate to the Emergency Control Center (use west end, ground floor entrance) per Section 9.4 or 9.5 as determined by the Duty Emergency Coordinator/Recovery Manager.

NOTE: After relocation to the Secondary TSC/OSC, Emergency Team Leaders are responsible for reporting accountability of team personnel to the DEC/Recovery Manager. Each TSC/OSC staff person is responsible for accounting himself to the DEC/Recovery Manager (•), and reporting their new work location to the Site Office Services Coordinator at Ext. 6479.

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9.3.7

If the Technical/Operational Support Centers are evacuated, Security personnel should take the following actions:

- A. As Technical/Operational Support Center personnel exit the plant, Security should collect I.D. badges only and account for personnel exiting. Personnel are to retain their TLD badges and/or other personnel dosimetry.
- B. Accountability results of emergency personnel should be reported to the Duty Emergency Coordinator/Recovery Manager at the Emergency Control Center, or to the Shift Operations Supervisor if the DEC/Recovery Manager cannot be readily contacted.
- C. Perimeter gates and doors shall be locked following the evacuation.
- D. •A minimum of four Security officers should report to the Control Room area to support plant access and egress. •
- E. Outside security posts should be established as close to the plant as practical to restrict access.
- F. •As Security Officers evacuate the Guard Houses, they should carry the badge boards and a master list computer printout of badged personnel, and if readily available a printout of remaining onsite personnel to the Emergency Control Center. It should not be necessary to evacuate Security until the Technical and Operational Support personnel are evacuated. Upon evacuation, the Security Office should be established at the west end, ground floor of the Emergency Control Center. Access approval and badging should be in this area. Security Officers should report to this area for assignments. •
- G. •The Recovery Manager and the Senior Security Supervisor on duty/Site Security Coordinator, 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 Operations Supervisor of the affected unit upon their exit of the plant. •

9.3.8

When a Technical/Operational Support Center evacuation is declared, the DEC/Recovery Manager should consider the need for an Exclusion Area evacuation per Procedure 1903.31 if not already declared.

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9.4 Immediate Evacuation of TSC/OSC

- 9.4.1 The Duty Emergency Coordinator/Recovery Manager should verify the need for and declare an immediate evacuation of the Technical/Operational Support Centers when symptoms occur which require such action per Section 9.3.5.
- 9.4.2 The Duty Emergency Coordinator/Recovery Manager should contact by most expedient means the Main Guard Station and the Shift Operations Supervisor to advise that an immediate evacuation has been declared.
- 9.4.3 The DEC/Recovery Manager should ensure that an evacuation announcement is made over the Public Address System, and the plant evacuation alarm is sounded. The DEC/Recovery Manager should determine, at his discretion, the affected personnel to whom the announcement applies.

NOTE: The evacuation announcement should state: "An immediate evacuation of Technical and Operational Support Center personnel has been declared. (Affected personnel) implement evacuation procedures. (Affected personnel) relocate to the Emergency Control Center via (designated evacuation route)."
(This announcement and the evacuation alarm should be repeated several times, if possible).

- 9.4.4 All Technical/Operational Support personnel should gather essential materials (e.g. log books, status sheets, drawings in-use, etc.) and equipment (e.g. GERMS terminal and modem, SCBA's, survey meters, protective clothing, etc.) and evacuate their respective areas without further delay.
- 9.4.5 Prior to his relocation to the Secondary Technical Support Center, the Duty Emergency Coordinator/Recovery Manager may, at his discretion, transfer his duties to the following individual who will function as interim DEC/RM:
- A. If the Emergency Control Center is not activated, the Shift Operations Supervisor of the affected unit may temporarily assume the DEC/Recovery Manager duties; or
 - B. If the Emergency Control Center is operational, the Incident Response Director may temporarily assume the DEC/Recovery Manager duties.
- 9.4.6 After transferring the duties to the appropriate individual, the Recovery Manager should evacuate in accordance with Section 9.3.7.G.



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- 9.4.7 Upon arrival at the Secondary Technical Support Center, the DEC/Recovery Manager should establish communications with the interim DEC/RM to receive a status update and to reassume Duty Emergency Coordinator/Recovery Manager duties.
- 9.4.8 Emergency response personnel should report to their preassigned work areas in the Emergency Control Center, unless directed otherwise, as indicated in Attachments 3, 4, 5, and 6.
- 9.4.9 The Duty Emergency Coordinator/Recovery Manager should ensure that the NRC and State Emergency Operation Centers, and the Little Rock Support Center Planning and Scheduling Coordinator are advised of the relocation to and operational status of the Secondary Technical/Operational Support Center.
- 9.4.10 As necessary, the Duty Emergency Coordinator/Recovery Manager should advise the Shift Operations Supervisor that the Secondary Technical Support Center is functional.
- 9.4.11 The DEC/Recovery Manager must approve re-entry into the plant until the evacuation is terminated.
- 9.4.12 When the plant is determined to have returned to a condition where the TSC/OSC evacuation is no longer required, the Duty Emergency Coordinator/Recovery Manager may terminate the TSC/OSC evacuation.

9.5 Precautionary Evacuation of TSC/OSC

- 9.5.1 The Duty Emergency Coordinator/Recovery Manager should verify the need for and declare a precautionary evacuation of the Technical/Operational Support Centers when symptoms occur which require such action per Section 9.3.3 and/or 9.3.4.
- 9.5.2 The Duty Emergency Coordinator/Recovery Manager should contact by most expedient means the Main Guard Station and Shift Operations Supervisor that a precautionary evacuation has been declared.
- 9.5.3 The DEC/Recovery Manager should ensure that an evacuation announcement is made over the Public Address System, and the plant evacuation alarm is sounded. The DEC/Recovery Manager should determine, at his discretion, the affected personnel to whom the announcement applies.

NOTE: The evacuation announcement should state: "A precautionary evacuation of Technical and Operational Support Center personnel has been declared. Affected personnel implement evacuation procedures. Affected personnel relocate to the Emergency Control Center via (designated evacuation route)." (This announcement and the evacuation alarm should be repeated several times, if possible.)



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- 9.5.4 All Technical/Operational Support personnel shall gather necessary materials (e.g. log books, status sheets, drawings in-use, etc.) and equipment (e.g. GERMS terminal and modem, SCBA's, survey meters, protective clothing, etc.) and evacuate their respective areas as instructed by the Duty Emergency Coordinator/Recovery Manager per Section 9.5.5.
- 9.5.5 A precautionary evacuation of the TSC/OSC should be accomplished by relocating a primary and a secondary group of emergency response personnel as identified in Attachment 7, or as otherwise designated by the DEC/Recovery Manager. The secondary TSC/OSC group should evacuate first; the primary group should evacuate upon the direction of the DEC/Recovery Manager, if practical after the secondary group is in place at the Emergency Control Center. •Security personnel will normally evacuate with the primary group. •
- 9.5.6 Prior to his relocation to the Secondary Technical Support Center, the Duty Emergency Coordinator/Recovery Manager may, at his discretion, transfer his duties to the following individual who will function as interim DEC/RM :
- A. Operations Manager, if he has relocated to the Secondary TSC and made it operational with the secondary TSC group; or
 - B. Shift Operations Supervisor, as deemed necessary if both the DEC/RM and Operations Manager are in a situation such that they could not perform DEC/RM duties during the TSC to Secondary TSC transition, and if ECC is not activated; or
 - C. Incident Response Director, if ECC is activated.
- 9.5.7 After transferring this duties to the appropriate individual, the DEC/Recovery Manager and the primary TSC group should evacuate in accordance with Section 9.3.7.G.
- 9.5.8 Upon arrival at the Secondary Technical Support Center, the DEC/Recovery Manager should establish communications with the interim DEC/RM to receive a status update and to reassume Duty Emergency Coordinator/Recovery Manager duties.
- 9.5.9 Emergency response personnel should report to their pre-assigned work areas in the Emergency Control Center, unless directed otherwise, as indicated in Attachments 2, 3, 4, and 5.

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- 9.5.10 The Duty Emergency Coordinator/Recovery Manager should ensure that the NRC and State Emergency Operation Centers, and the Little Rock Support Center Planning and Scheduling Coordinator are advised of the relocation to and operational status of the Secondary Technical/Operational Support Center.
- 9.5.11 When appropriate, the Duty Emergency Coordinator/Recovery Manager should advise the Shift Operations Supervisor that the Secondary Technical Support Center is functional.
- 9.5.12 The DEC/Recovery Manager must approve re-entry into the plant until the evacuation is terminated.
- 9.5.13 When the plant is determined to have returned to a condition where the plant evacuation is not longer required, the Duty Emergency Coordinator/Recovery Manager may terminate the plant evacuation.

10.0 ROAD BLOCKS

- 10.1 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 Duty Sergeant. The Security Duty Sergeant shall obtain verbal approval from the Duty Emergency Coordinator/Recovery Manager or the Incident Response Director before allowing passage of individual(s) who are not part of the response organization.

11.0 ATTACHMENTS AND FORMS

- 11.1 Attachment 1 - ANO Emergency Control Center Location and Site Evacuation Routes
- 11.2 Attachment 2 - Technical and Operational Support Center Evacuation Decision Flow Chart
- 11.3 Attachment 3 - Emergency Control Center Floor Plan; Second Floor, West End
- 11.4 Attachment 4 - Emergency Control Center Floor Plan; First Floor, West End
- 11.5 Attachment 5 - Emergency Control Center Floor Plan; Second Floor, East End (Media Center)
- 11.6 Attachment 6 - Emergency Control Center Floor Plan; First Floor, East End
- 11.7 Attachment 7 - TSC/OSC Precautionary Evacuation Primary/Secondary Group Assignments



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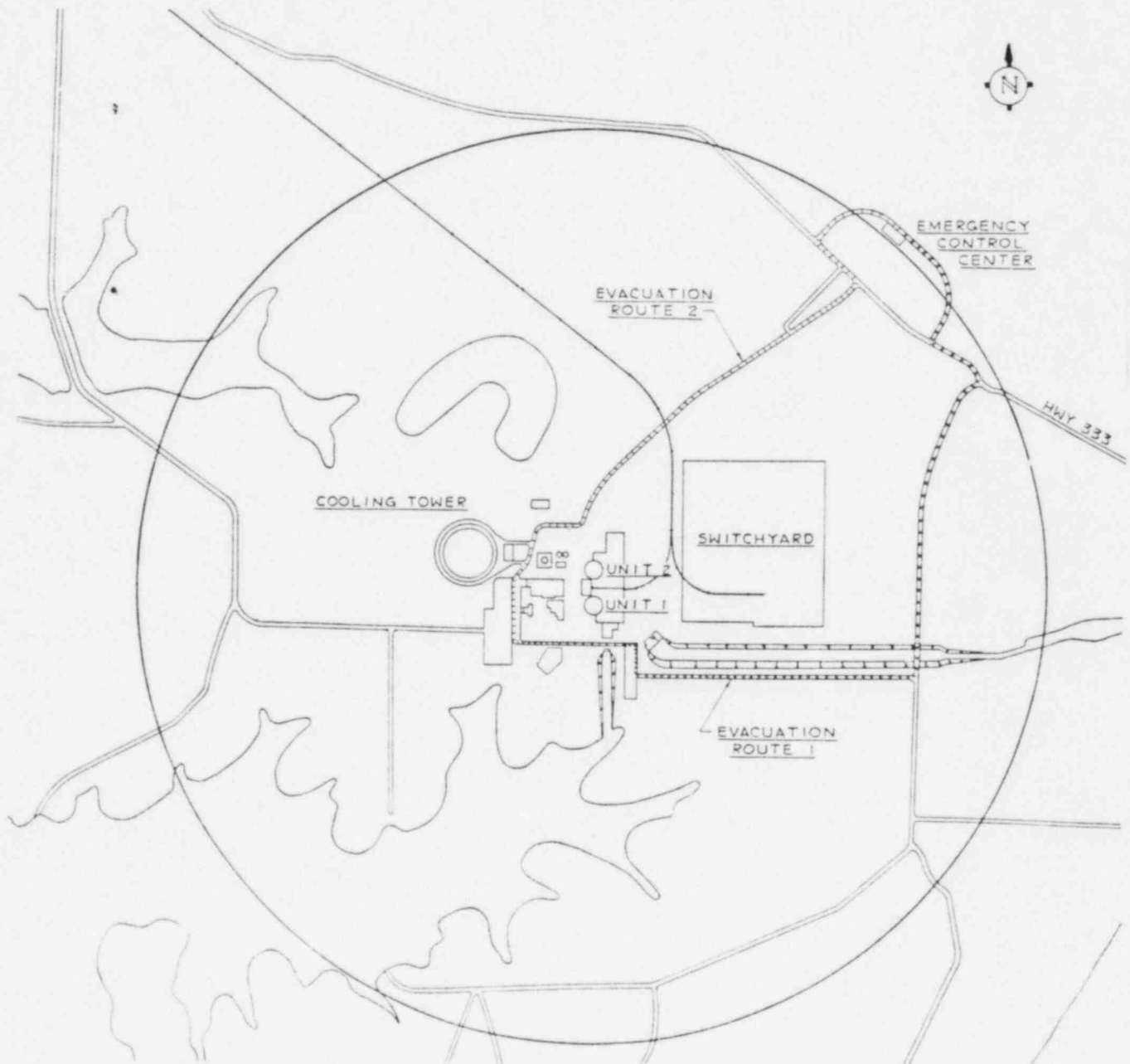
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ATTACHMENT 1

AND EMERGENCY CONTROL
CENTER LOCATION & SITE
EVACUATION ROUTES





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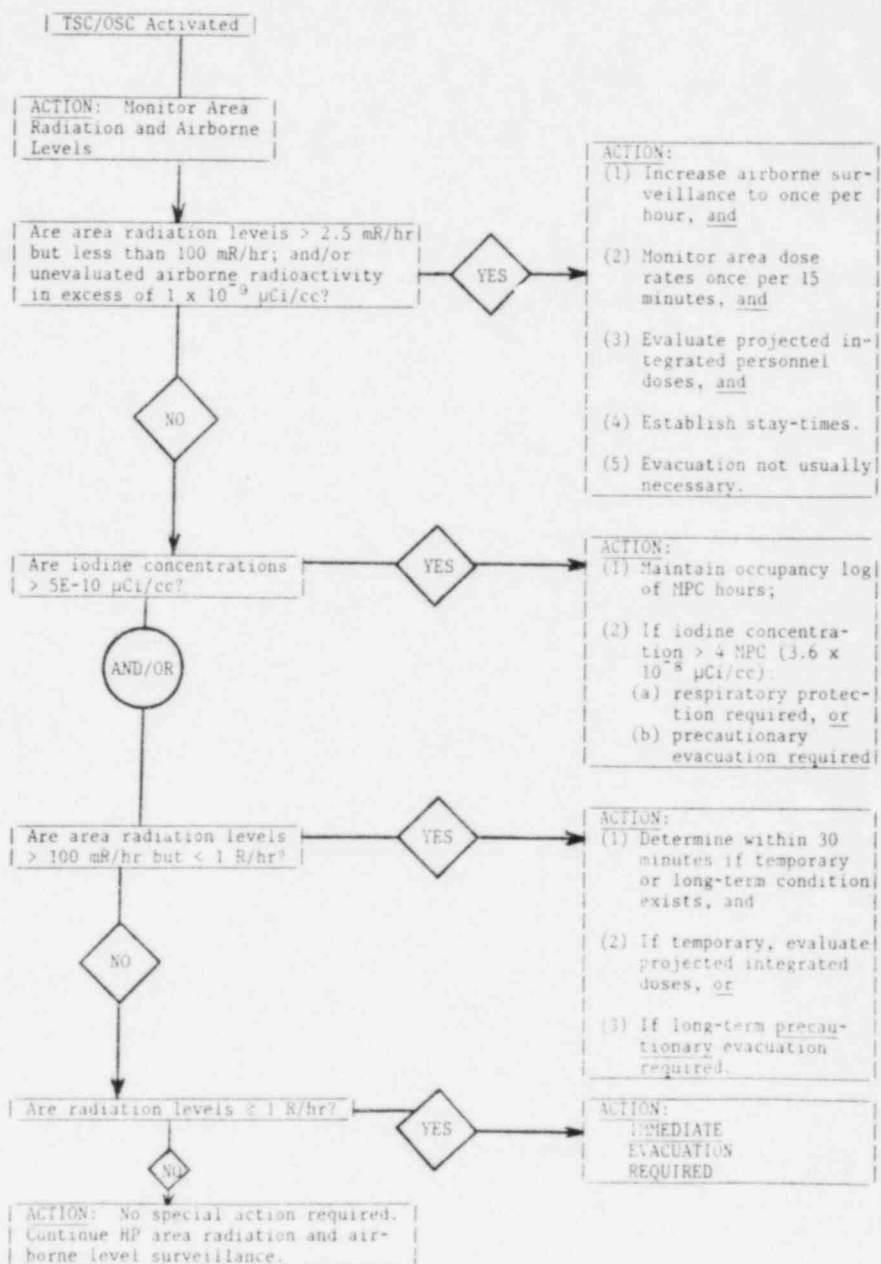
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ATTACHMENT 2

Technical and Operational Support Center

Evacuation Decision Flow Chart





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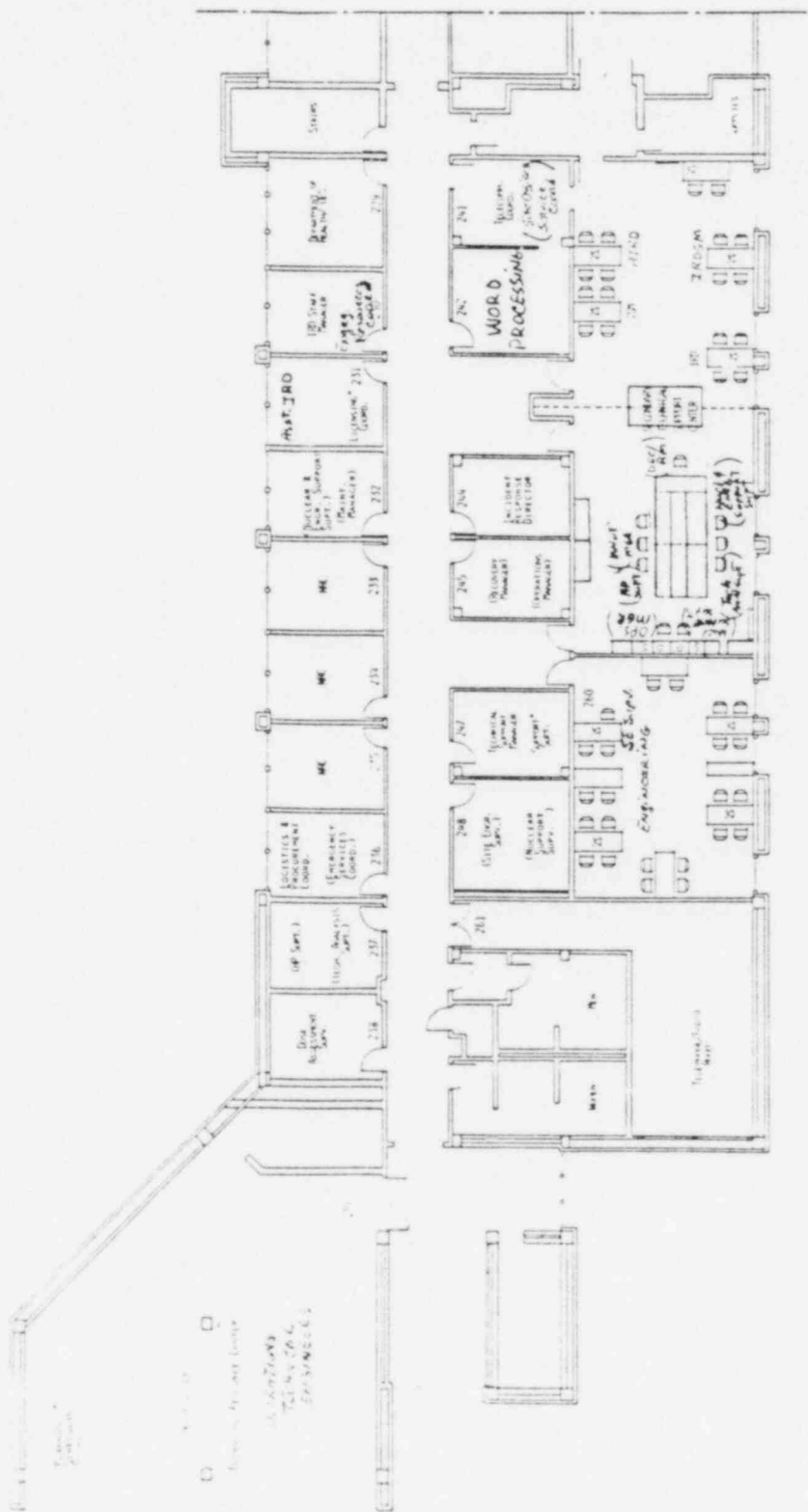
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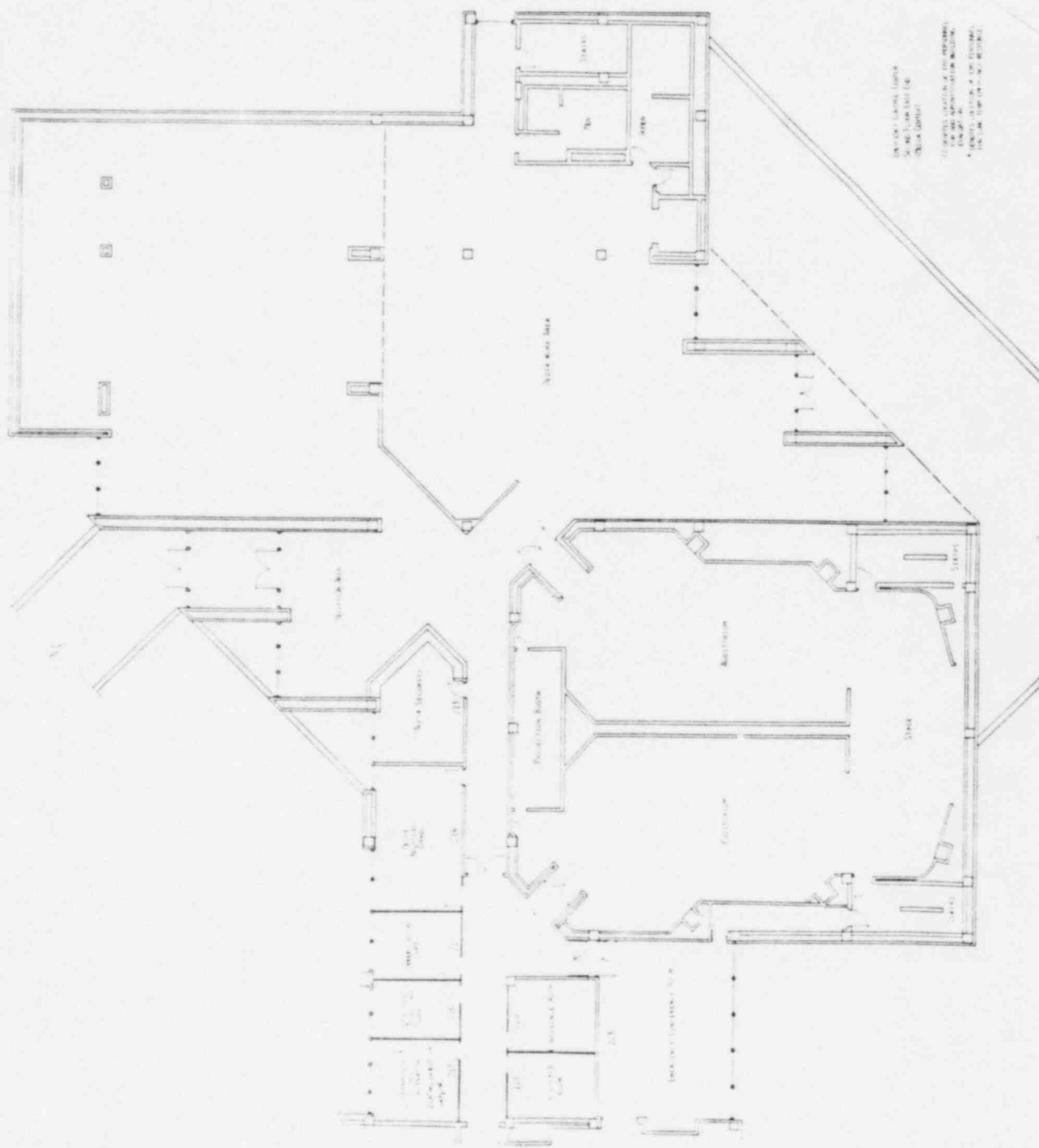
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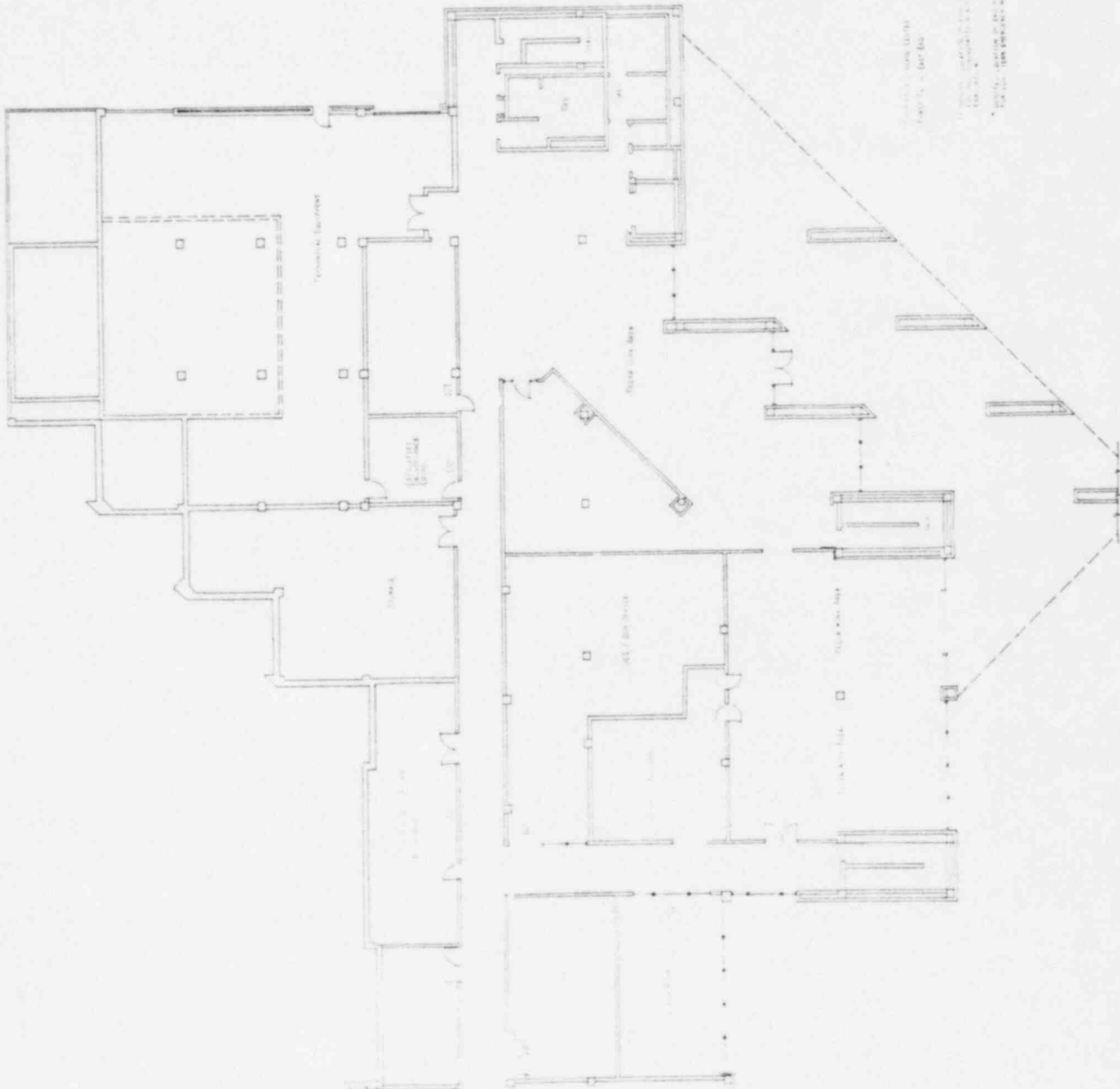
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ATTACHMENT 6





PLANT MANUAL SECTION:

EMERGENCY PLAN

PROCEDURE

PROCEDURE/WORK PLAN TITLE:

PLANT EVACUATION

NO:

1983.30

ARKANSAS NUCLEAR ONE

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ATTACHMENT 7

TSC/OSC Precautionary EvacuationPrimary/Secondary Group Assignments

(Note: DEC/Recovery Manager may alter assignments as he deems necessary)

Technical Support Center:Primary

DEC/Recovery Manager

Nuclear Support Supt.

Maintenance Manager

Secondary

Operations Manager

Technical Analysis Supt.

Nuclear Eng. & Support Supt.

Health Physics Supt.

Assistants/Communicators

USNRC Personnel

Operational Support Center:Primary

As determined by the DEC/Recovery Mgr. -

1. Minimal staffing for a recovery team, considering on-going 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 Senior Security Supervisor on duty/Site Security Coordinator.

Secondary

All OSC personnel not designated by the DEC/Recovery Manager to remain onsite.