

GRAND GULF NUCLEAR STATION EIE SUBMISSION

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| FROM | GRAND GULF NUCLEAR STATION |
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| TITLE | GRAND GULF NUCLEAR STATION EMERGENCY PREPAREDNESS PROCEDURE 10-S-01-11, REVISION 19, EVACUATION OF ONSITE PERSONNEL |
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PLANT OPERATIONS MANUAL

Volume 10
Section 01

10-S-01-11
Revision: 019


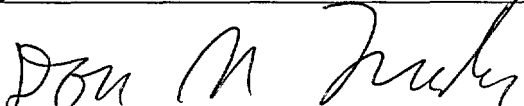
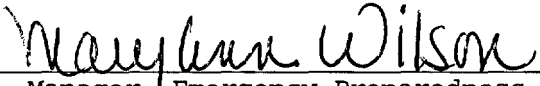
REFERENCE USE

Date: 10-9-08

EMERGENCY PLAN PROCEDURE

EVACUATION OF ONSITE PERSONNEL

SAFETY RELATED

Prepared: 
Reviewed: 
Technical
Approved: 
Manager, Emergency Preparedness

List of Effective Pages:

Pages 1-11

Attachments I, II

List of TCNs Incorporated:

| <u>Revision</u> | <u>TCN</u> |
|-----------------|------------|
| 001-019 | None |

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RPTS FORM

| | | |
|--|---|--|
| REQUIRED REVIEW PERFORMED (Check all that apply) | <input checked="" type="checkbox"/> PAD (EN-LI-100) | <input type="checkbox"/> 50.59 Evaluation (EN-LI-101) |
| Transmit applicable Review Form as a separate record along with procedure to Document Control. | <input type="checkbox"/> 72.48 Evaluation (EN-LI-112) | <input checked="" type="checkbox"/> 50.54 Evaluation (ENS-NS-210) |
| | <input type="checkbox"/> PAD Not Required(EN-LI-100 or 01-S-02-3) <input type="checkbox"/> Process Applicability Excluded <input type="checkbox"/> Editorial Change <input type="checkbox"/> ISI/IST Implementation <input type="checkbox"/> TCN Incorporation or Auto Rev. <input type="checkbox"/> Other Process-Number: _____ | |
| | PAD Reviewer: _____ / (for PAD Not Required) Signature/Date | |

| | | |
|-----------------------------------|---------|-----------------------------------|
| Cross-Discipline review required? | () Yes | (Note affected Departments Below) |
| | (X) No | |
| Preparer Initials>>> | | |

| Department Cross-Discipline Reviews Needed | Signoff (signed, electronic, telcon) |
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Does this directive contain Tech Spec Triggers? () YES (X) NO

REQUIREMENTS CROSS-REFERENCE LIST

| Requirement Implemented | by Directive | Directive Paragraph Number |
|-------------------------|---------------------|--|
| Name | Paragraph Number | That Implements Requirement |
| Reg. Guide 1.95 | C.6.S5 | * |
| GGNS Emer Plan | 6.7.2.S9 | 6.4.4 |
| GGNS Emer Plan | 6.6.S1 | 6.4.1 |
| GGNS Emer Plan | 6.7.2.S5 | 6.4.2 |
| GGNS Emer Plan | 6.5.1.a.1 | 6.1.2.b, 6.1.2.c |
| GGNS Emer Plan | 6.5.1.a.3 | 6.1.2.d(2) |
| GGNS Emer Plan | 6.5.1.a.4 | 6.1.2.d(3) |
| GGNS Emer Plan | 7.7.S5 | * |
| GGNS Emer Plan | 6.6.S3 | 6.4.1, 6.4 Note |
| GGNS Emer Plan | 6.6.S2,S4 | 6.4 |
| GGNS Emer Plan | 6.5.1.a.2 | 6.1.3.a(3), 6.1.3.b(1), 6.2.1, 6.2.2, 6.3.1 |
| GGNS Emer Plan | 6.5.1.a.5.S1 | 6.1.3.c |
| GGNS Emer Plan | 6.5.1.a.6 | 6.1.1.a, 6.1.1.a Warning |
| GNRO-97/00113 | 97-15-02.Item 1 & 3 | 6.1.5 |
| GGNS Emer Plan | 6.5.1.a.5.S2 | 6.1.2.b.3(a) |

* Covered by directive as a whole or by various paragraphs of the directive.

NOTE

The Equipment Database (EDB) Request statement is applicable only to Volume 06 and 07 maintenance directives.

EDB Change Request generated and the backup documentation available for setpoint and/or calibration data only ☐ Yes ☒ N/A EDBCR # _____

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Current Revision Statement

Revision 019:

Changed the CAA entry/exit point from the 93' elevation of the Control building to 133' elevation of the Unit II Turbine Building to reflect the changes made in the plant.

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1.0 PURPOSE

1.1 This procedure describes actions to take for two types of evacuations:

1.1.1 Site Evacuation

1.1.2 Limited Evacuation

1.2 This procedure also describes actions to be taken to ensure personnel accountability within the protected area.

2.0 RESPONSIBILITIES

2.1 Shift Manager/Emergency Director - Is responsible for:

2.1.1 Determining whether or not evacuation is necessary and the extent of the evacuation.

2.1.2 Implementation of this procedure when emergency conditions require protection for persons located in the Emergency Preparedness Owner Controlled Area (Attachment II) including the Protected Area.

2.1.3 Ensuring that periodic announcements are made over the Plant PA and the Site Paging System (#7929), until all evacuation actions are complete, concerning:

a. Nature and location of the event

b. Required personnel actions

c. Any other information pertinent to the event.

2.1.4 Ensuring that CAS and/or SAS is advised of an evacuation.

2.1.5 Providing instructions to Radiation Protection personnel concerning non-emergency personnel who have evacuated to the Radiation Protection area of the 93' level of the Control Building, during a Limited Evacuation or reported for accountability during personnel accountability without an evacuation.

2.1.6 Initiating actions to locate individuals not accounted for.

2.2 Security Coordinator - Is responsible for:

2.2.1 Personnel accountability in the Protected Area, personnel and traffic control once an evacuation has been initiated.

2.2.2 Performing checks of all buildings, outlying and laydown areas in the Emergency Preparedness Owner Controlled Area (Attachment II), to ensure evacuation, after a site evacuation has been ordered.

3.0 REFERENCES

3.1 GGNS Emergency Plan

3.2 Security Section Procedure 11-S-11-6, Security Response During Operating Emergencies

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4.0 ATTACHMENTS

- 4.1 Attachment I - GGNS Evacuation Map
- 4.2 Attachment II - Emergency Preparedness Owner Controlled Area

5.0 DEFINITIONS

- 5.1 CAA - Controlled Access Area
- 5.2 CAS - Central Alarm Station
- 5.3 Company Owned Property - All the land the company owns at the site.
- 5.4 EIC - Emergency Information Center
- 5.5 Emergency Preparedness Owner Controlled Area (EPOCA) - The area at the site, which is owned and controlled by the station, for which the station has the responsibility to evacuate, except for any areas covered by agreements with state or other governmental agencies.
- 5.6 Emergency Response Personnel - GGNS Entergy Operations and contractor personnel who are:
 - 5.6.1 ERO members standing call, as scheduled by Emergency Preparedness, during the emergency or occurrence OR
 - 5.6.2 Electrical, Instruments & Controls, Mechanical, Radiation Protection, Operations, Chemistry shift or Security personnel required to respond to an emergency.
- 5.7 ENMC - Emergency News Media Center
- 5.8 EOF - Emergency Operations Facility, located in the Energy Services Center.
- 5.9 ERO - Emergency Response Organization
- 5.10 ESC - Energy Services Center
- 5.11 Limited Evacuation - An evacuation of specific areas of the plant.
- 5.12 OSC - Operations Support Center
- 5.13 PA - Public Address
- 5.14 Protected Area - Area located within the Emergency Preparedness Owner Controlled Area and enclosed by physical barriers to which access is controlled for security purposes.
- 5.15 SAS - Secondary Alarm Station
- 5.16 Site Evacuation - An evacuation of the Emergency Preparedness Owner Controlled Area and Protected Area.
- 5.17 TSC - Technical Support Center

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6.0 DETAILS

6.1 Site Evacuation (Emergency Director/Shift Manager)

- 6.1.1 The Emergency Director/Shift Manager should use his best judgment to determine whether a Site or Limited Evacuation is necessary.

Warning

Before conducting an evacuation, considerations should be made for weather conditions, traffic or radiological impediments. If the evacuation has the potential to cause more harm, inform all persons to shelter in a safe location or perform a limited evacuation.

Warning

For security emergencies, inform all personnel to take shelter, to **NOT** move around in the plant, and to man only those emergency facilities which are necessary and that don't pose a risk to personnel.

- a. As a general guideline, Site Evacuation (rather than Limited Evacuation) is to be performed when:
 - (1) A Site Area Emergency is declared, or
 - (2) A General Emergency is declared, or
 - (3) Anytime hazardous conditions (radiological, environmental, chemical, fire, etc.) threaten the health or safety of personnel in a major portion of the site.
- b. The following areas are evacuated if a Site Evacuation has been declared.
 - (1) The protected area (except Control Room, CAS, SAS, and activated Emergency Response Facilities inside the Protected Area)
 - (2) Emergency Preparedness Owner Controlled Area - (except EOF, and Security Island)
- c. Determine if further evacuations are necessary (i.e., Control Room, EOF, TSC, OSC, CAS, SAS or Security Island). If one or more of these facilities are to be evacuated, alternate sites may be used to perform the functions of the evacuated facility.

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6.1.2 Immediate Actions (Control Room/TSC)

- a. Once an Evacuation has been determined to be necessary, ensure the following actions are performed:
- (1) Notify Security (CAS-2402 and/or SAS-2423) to begin the accountability process identified in Section 6.2.1 before announcing an evacuation (unless immediate personnel safety is at risk). If personnel safety is at risk, notify security as soon as possible after the evacuation is announced.
- (a) Inform Security of evacuation routes to be used, area to be evacuated and destination of evacuees.
- b. Protect Plant Personnel (Control Room/TSC)
- (1) Sound the Evacuation Alarm for five seconds.

NOTE

Activating the Evacuation Alarm also activates the flashing red evacuation lights in high noise areas of the plant.

- (2) If a release is in progress, designate appropriate evacuation routes (North or South Gate) and Evacuation Reception Centers; Warren Central High School (north), Hinds Community College - Utica Campus (northeast), Hazelhurst High School (east), Natchez High School (south).
- (3) The Emergency Director or designee should make an announcement similar to the following on the PA system (to the entire site):

NOTE

Bold italicized portions of the evacuation announcement are required if a radioactive release is in progress.

- (a) "ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL.

CONDITIONS IN THE PLANT WARRANT AN IMMEDIATE SITE EVACUATION. ALL NON-EMERGENCY PERSONNEL EVACUATE THE SITE. USE THE GATE AND REPORT TO THE EVACUATION RECEPTION CENTER. ALL EMERGENCY RESPONSE PERSONNEL REPORT TO YOUR EMERGENCY RESPONSE FACILITY.
- (b) All PA announcements should be repeated.

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6.1.2.b (Cont.)

- (4) Personnel in the Controlled Access Area (CAA) normally exit immediately at the 133' elevation of the Unit II Turbine Building, unless otherwise directed.
- c. Use the PA Systems to give frequent information updates on the status of the emergency.
- d. Notification Of Personnel Outside The Protected Area
 - (1) If a site evacuation is declared, supervisory personnel ensure that no one remains in his or her immediate work area.
 - (2) Company, contract personnel and visitors located outside the protected area but within the Emergency Preparedness Owner Controlled Area are notified by public address system (phone #7929) or security personnel equipped with a portable PA system.
 - (a) The Security Coordinator dispatches an officer, in accordance with Security Post Order, to assist in making checks of the Emergency Preparedness Owner Controlled Area to ensure that personnel have been notified and are evacuating as directed. These checks will be completed as soon as possible but no later than 2 hours under most conditions.
 - (b) Security reports the results of the Emergency Preparedness Owner Controlled Area evacuation to the Emergency Director.
 - (3) Other persons outside the Emergency Preparedness Owner Controlled Area, but in public access areas near-site or passing through the Company-owned property are notified by the Alert and Notification System activated by local authorities.

6.1.3 Personnel Response In The Protected Areaa. Emergency Response Personnel

- (1) If exiting the CAA, the normal exit is at the 133' elevation of the Unit II Turbine Building, unless otherwise directed.
 - (a) Personnel exiting the CAA may be requested to key card into an accountability reader.
- (2) Proceed to your Emergency Response Facility to support emergency response actions.
- (3) Emergency personnel assigned to the OSC should card into the Maintenance Shop accountability card reader and report to the OSC.

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6.1.3.a (Cont.)

- (4) The following Emergency Response Personnel need not log into an accountability card reader for accountability:
 - (a) Emergency Response Personnel assigned to the Control Room, TSC, CAS, SAS, or Security Island
 - (b) OSC teams that are currently in the field
 - (c) Operations personnel currently in the field
- (5) Emergency response personnel who respond to offsite Emergency Response Facilities (EOF, ENMC, and EIC) exit the protected area through Security Island, ensuring they use the exit turnstile card reader for accountability. These personnel then proceed to their assigned facilities unless directed otherwise.

b. Non-Emergency Personnel

- (1) Exit the protected area through Security Island, ensuring that you use the exit turnstile card reader for accountability.
- c. All personnel should be trained on evacuation routes or escorted by someone who is so trained.

6.1.4 Personnel Response Outside The Protected Area

- a. Company employees, contract personnel and visitors are to leave the Emergency Preparedness Owner Controlled Area upon notification of a Site Evacuation. The normal access routes are to be used unless otherwise directed.
- b. Emergency Response Personnel report to your Emergency Response Facility.

6.1.5 Security Personnel ResponseNOTE

During Drills/Exercises, Security Personnel do not evacuate their post.

- a. In the event that the Security Island, SAS, or other manned security areas become uninhabitable, security personnel will relocate in accordance with Security Section Procedure 11-S-11-6.
- b. If relocation to CAS is prevented for whatever reason, the Security Coordinator in conjunction with the Emergency Director will determine alternate relocation sites.
- c. All patrol personnel assigned duties in the power block will relocate in accordance with Security Section Procedure 11-S-11-6.

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6.1.5 (Cont.)

- d. Security Island personnel relocate to a safe distance until hazardous conditions no longer exist.

6.1.6 Follow-up Actions (Emergency Director)

- a. Ensure periodic announcements are made over the Plant PA and the Site Paging System (#7929) concerning the evacuation until Security reports that the evacuation is complete.

6.2 Accountability6.2.1 Personnel Accountability Within The Protected Area with a Site Evacuation

- a. Personnel respond as outlined in 6.1.3.
- b. The OSC Coordinator should provide CAS with the name and badge number of OSC team members in the field within 10 minutes of the declaration of the evacuation.
- c. The Shift Manager should provide CAS with the name and badge number of Operations personnel in the field within 10 minutes of the declaration of the evacuation.
- d. Security should perform accountability for their personnel in accordance with security procedures.
- e. The Security Coordinator determines the accountability and reports it to the Emergency Director (ED). This is accomplished by providing a printout of those individuals remaining within the protected area who have not key carded into an accountability card reader. The Security Coordinator ensures that TSC, Control Room, Security personnel and OSC team personnel currently in the field are accounted for by reviewing the accountability printout.
- f. The accountability process is considered complete when all personnel on the accountability printout are accounted for or identified as missing. It is anticipated that accountability and identification of missing persons can be accomplished in approximately 30 minutes from the declaration of the Site Area Emergency, General Emergency or the time it is determined that a site evacuation is required.
- g. Search and Rescue should begin at the completion of accountability and be done in accordance with 10-S-01-18.

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6.2.2 Personnel Accountability within the Protected Area without a Site Evacuation

- a. The Shift Manager/Emergency Director makes the decision that plant conditions exist that warrant personnel accountability without a site evacuation being declared.
- b. Notify the Security officer in CAS (phone # 2402) that personnel accountability will be performed and that a site evacuation will not be declared at this time.

NOTE

A list of all personnel currently logged into the protected area and their location can be obtained by contacting security (CAS or SAS).

- c. If it is desired that all personnel within the protected area log into an accountability card reader and assemble at designated areas, perform the following steps:
 - (1) Announce over the plant paging system that personnel accountability is required and that all personnel within the protected area should proceed immediately to the nearest accountability card reader, card in and await further instructions. Accountability card readers are located in the following areas:

Maintenance shop wall near break room door
HP Lab 133' elevation of the Unit II Turbine Building
Control Room Kitchen
Security Island Exit Turnstiles
 - (2) The Shift Manager, within 10 minutes of the declaration of accountability, should provide CAS with the name and badge number of Operations personnel in the field who can not immediately report to an accountability card reader.
 - (3) If the OSC is activated and OSC teams are in the field, the OSC coordinator, within 10 minutes of the declaration of accountability, should provide CAS with the name and badge number of each team member in the field.
 - (4) Personnel reporting to the maintenance shop should card into the maintenance shop accountability card reader and then assemble in the maintenance shop break room and await further instructions.
 - (5) Non-operations personnel reporting to the Control Room kitchen accountability card reader should card in and then assemble in the 177' viewing gallery area and await further instructions.
 - (6) Operations personnel reporting to the Control Room kitchen accountability card reader should card in and then assemble in the operations locker room.

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6.2.2.c (Cont.)

- (7) Personnel reporting to the HP lab accountability card reader should card in and then assemble in the HP break area or hallway on the 93' elevation of the Control Building and await further instructions.
- (8) Security should perform accountability for their personnel in accordance with security procedures.
- (9) Personnel using the Security Island Exit turnstiles for accountability purposes should swipe their key card in the card reader and EXIT the Protection area.
- d. The Security Coordinator determines the accountability and reports it to the Emergency Director (ED). This is accomplished by providing a printout of those individuals remaining within the protected area who have not key carded into an accountability card reader. The Security Coordinator ensures that TSC, Control Room, Security personnel and OSC team personnel currently in the field are accounted for by reviewing the accountability printout.
- e. The accountability process is considered complete when all personnel on the accountability printout are accounted for or identified as missing. It is anticipated that the personnel accountability and identification of missing persons can be accomplished in approximately 30 minutes from the time that it is determined that accountability is required or the declaration of a Site Area Emergency or General Emergency.
- f. Search and Rescue should begin at the completion of accountability and be done in accordance with 10-S-01-18.

6.3 Limited Evacuation

- 6.3.1 Generally, a limited evacuation may be required if the health and safety of personnel are threatened by radiological hazards, fire, smoke, heat or flooding in a localized area.
 - a. When the area to be evacuated is identified:
 - (1) Notify Security (CAS-2402 and/or SAS-2423) to begin the accountability process before announcing an evacuation (unless immediate personnel safety is at risk). If personnel safety is at risk, notify security as soon as possible after the evacuation is announced.
 - (2) Make an announcement on the PA system identifying the area to be evacuated with directions to evacuating personnel to report to the HP laboratory or the Maintenance Shop accountability card readers.

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6.3.1.a (Cont.)

- (3) Ensure periodic announcements are made over the Plant PA concerning the evacuation as long as the condition(s) is(are) present.

NOTE

It is not necessary to key card out of the affected area(s) or zone(s) during the evacuation, but personnel are required to card into an accountability card reader when directed.

- b. Request the Security Coordinator to determine accountability in the local evacuated area and report the results to the Shift Manager/Emergency Director. This is normally accomplished by obtaining a printout of those personnel currently key carded into the affected area.
- c. During a limited evacuation, Security may be unable to determine accountability in the localized area(s). If this is the case, a building accountability should be performed and the results reported to the Shift Manager/Emergency Director.

6.4 Evacuating Personnel Survey And DecontaminationNOTE

All personnel evacuating the site are routed, as necessary, to State/Local evacuation/decontamination centers.

- 6.4.1 In the event that a radiological release occurs before the evacuation is completed, personnel and vehicles may be surveyed and decontaminated as needed. A monitoring and decontamination station is established at the EOF when directed by the Emergency Director. If a delay due to decontamination poses an undue risk to evacuating personnel, then personnel, vehicles, and materials are directed to an offsite monitoring and decontamination facility.
- 6.4.2 All personnel exiting the CAA are monitored for contamination.
- 6.4.3 Personnel decontamination should be performed in accordance with 08-S-02-22, Personnel Decontamination.
- 6.4.4 All personnel decontamination done on site is to be performed by or supervised by qualified Senior Health Physicists.
- 6.4.5 Decontamination involving internal contamination (absorption through wounds, ingestion, etc.) should be performed under the supervision of qualified First Aid personnel.

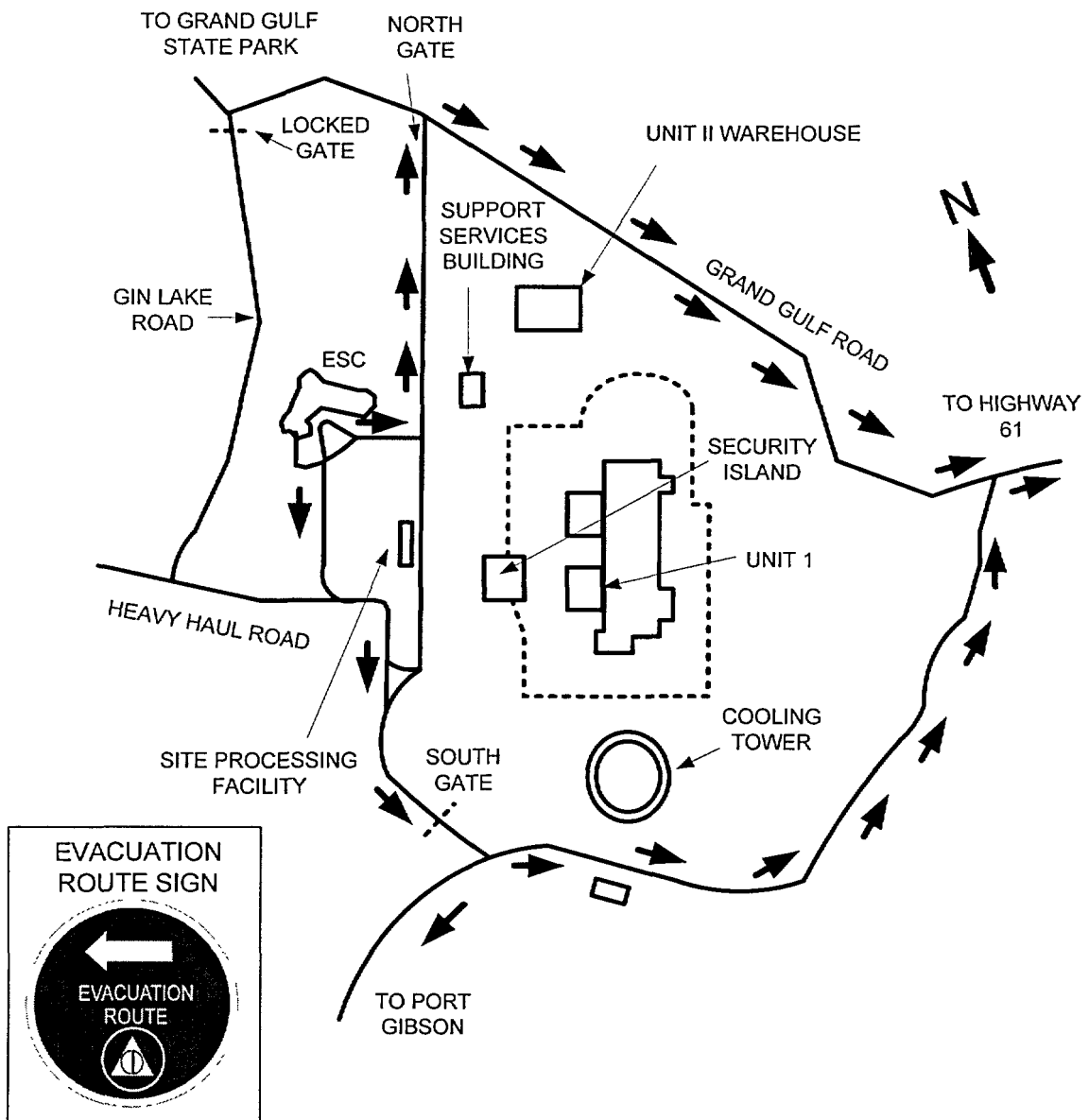
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GGNS EVACUATION MAP

ATTENTION TO VISITORS:

As a visitor to Grand Gulf Nuclear Station you are required to adhere to instructions announced over the P.A. System during any declared emergency. Announcement of a site evacuation will require an immediate and orderly exit from the site as directed.

(See map below for evacuation routes)



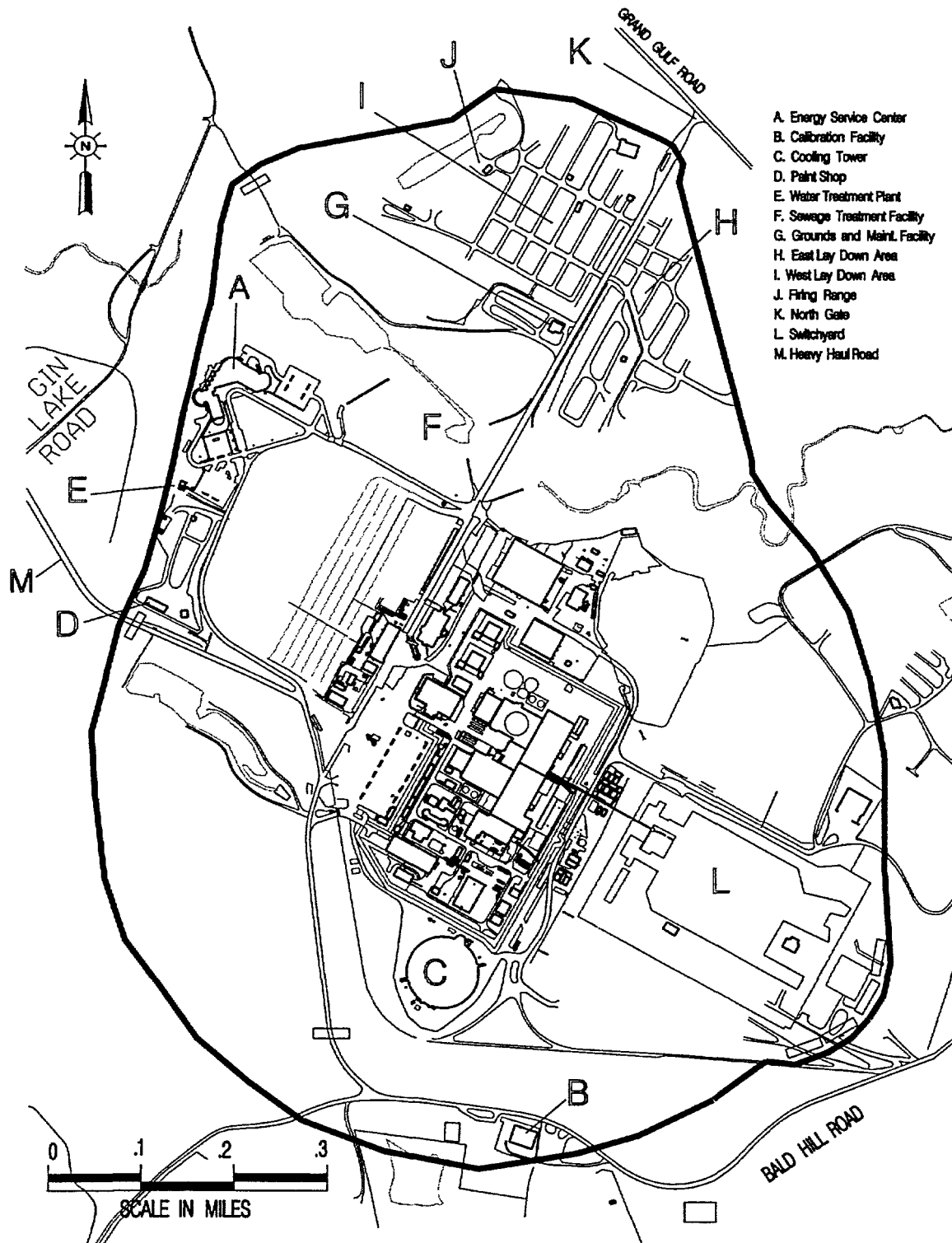
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Attachment II

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EP OWNER CONTROLLED AREA



NOTE

The EP Owner Controlled Area includes Heavy Hall Road from the plant to Radial Well #1, though not shown on drawing.