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Charles A. Bottemiller
Manager
Plant Licensing

June 3, 2003

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: Changes to Emergency Plan Implementing Procedures – June 3, 2003

Grand Gulf Nuclear Station
Docket No. 50-416
License No. NPF-29

GNRO-2003/00034

Ladies & Gentlemen:

Entergy Operations, Inc. submits in accordance with 10CFR50 Appendix E, Section V changes to the following Emergency Plan Implementing Procedure:

10-S-01-11, Rev. 18
10-S-01-18, Rev. 7

This letter does not contain any commitments.

Yours truly,

A handwritten signature in black ink, appearing to be "CAB", written over a horizontal line.

Charles A. Bottemiller,
Licensing Manager

MJL

attachment: 1. Procedure 10-S-01-11
2. Procedure 10-S-01-18
cc: (See Next Page)

A045

cc:

Hoeg	T. L.	(GGNS Senior Resident)	(w/a)
Levanway	D. E.	(Wise Carter)	(w/a)
Reynolds	N. S.		(w/a)
Smith	L. J.	(Wise Carter)	(w/a)
Thomas	H. L.		(w/o)

U.S. Nuclear Regulatory Commission ATTN: Mr. E. W. Merschoff (w/2) 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011-4005	ALL LETTERS
U.S. Nuclear Regulatory Commission ATTN: Mr. Bhalchandra Vaidya, NRR/DLPM (w/2) ATTN: FOR ADDRESSEE ONLY ATTN: U.S. Postal Delivery Address Only Mail Stop OWFN/7D-1 Washington, D.C. 20555-0001	ALL LETTERS – U.S. POSTAL SERVICE MAIL DELIVERY ADDRESS ONLY

PLANT OPERATIONS MANUAL

Volume 10
Section 01

10-S-01-11
Revision: 18
Date: 5/27/03

EMERGENCY PLAN PROCEDURE
EVACUATION OF ONSITE PERSONNEL
SAFETY RELATED

Prepared: Richard Sumrell
Reviewed: [Signature]
 Technical
Concurred: [Signature]
 Manager, Operations
OSRC: [Signature]
Approved: [Signature] [Signature]
 Plant General Manager Manager, Emergency Preparedness

List of Effective Pages:

Pages 1-11

Attachments I, II

List of TCNs Incorporated:

Revision	TCN
1-18	None

Title: Evacuation of Onsite Personnel	No.: 10-S-01-11	Revision: 18	Safety Evaluation
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I. OVERVIEW / SIGNATURESFacility: GGNSDocument Reviewed: 10-S-01-11 Change/Rev. 18System Designator(s)/Description: N/A**Description of Proposed Change**

- Revision 18 is to clarify portions of the procedure. This is to address comments received in EPTS 6 training as identified in EPATS 1897.
- Grammatical changes.
- Revises 6.1.2.a.1 to clearly indicate that the ED notifies Security to begin the accountability process identified in Section 6.2.1.
- Revises 6.3.1.a.1 to clearly indicate that the ED notifies Security to begin the accountability process.
- Moves 6.1.2.b.4 concerning emergency response personnel actions to Section 6.1.3, Personnel Response In the Protected Area.
- Deletes exceptions from 6.1.3 title and incorporates them into 6.1.3.a.4.
- Moves 6.2.1.a.3 to 6.1.3.a.1.a for clarity
- Moves portions of 6.2.1.a to 6.1.3.a.3 for clarity
- Combines several sentences into 6.1.3.a.4 and 6.1.3.a.5 to clearly indicate expected actions for each group of personnel responding to a Site Evacuation
- Rewords 6.2.1.a to indicate that personnel follow the actions outlined in 6.1.3, Personnel Response In The Protected Area.
- To promote consistency between OSC field teams and Control Room field teams during Site Evacuation and Limited Evacuation, copies the Shift Manager's actions in 6.2.2.c to 6.2.1.c (provides CAS with the names and badge numbers of Control Room personnel in the field who cannot log into an accountability card reader).

If the proposed activity, in its entirety, involves any one of the criteria below, check the appropriate box, provide a justification/basis in the Description above, and forward to a Reviewer. No further 50.59 Review is required. If none of the criteria is applicable, continue with the 50.59 Review.

- ☐ The proposed activity is editorial/typographical as defined in Section 5.2.2.1.
- ☐ The proposed activity represents an "FSAR-only" change as allowed in Section 5.2.2.2_____. (Insert item # from Section 5.2.2.2).
- ☐ The proposed activity is controlled by another regulation per Section 5.2.2.3.

GRAND GULF NUCLEAR STATION

EMERGENCY PLAN PROCEDURE

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If further 50.59 Review is required, check the applicable review(s): (Only the sections indicated must be included in the Review.)

<input checked="" type="checkbox"/>	SCREENING	Sections I, II, and III required
<input type="checkbox"/>	50.59 EVALUATION EXEMPTION	Sections I, II, III, and IV required
<input type="checkbox"/>	50.59 EVALUATION (#: _____)	Sections I, II, III, and V required

Preparer: Richard Sumrall / *Richard Sumrall* / EOI / EP / 5-15-2003
Name (print) / Signature / Company / Department / Date

Reviewer: Richard Vanden Akker / *Richard Vanden Akker* / EOI / EP / 5-15-2003
Name (print) / Signature / Company / Department / Date

OSRC: *n/k*
Chairman's Name (print) / Signature / Date
[Required only for Programmatic Exclusion Screenings (see Section 5.8) and 50.59 Evaluations.]

List of Assisting/Contributing Personnel:

Name:

Scope of Assistance:

Larry DurdenReview of Security Plan

Title: Evacuation of Onsite Personnel	No.: 10-S-01-11	Revision: 18	Safety Evaluation
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II. SCREENING**A. Licensing Basis Document Review**

1. Does the proposed activity impact the facility or a procedure as described in any of the following Licensing Basis Documents? (Check "N/A" for those documents that are not applicable to the facility.)

<i>Operating License</i>	YES	NO	N/A	<i>CHANGE # and/or SECTIONS IMPACTED</i>
Operating License	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
TS	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
NRC Orders	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If "YES", obtain NRC approval prior to implementing the change. (See Section 5.1.13 for exceptions.)				

<i>LBDs controlled under 50.59</i>	YES	NO	N/A	<i>CHANGE # (if applicable) and/or SECTIONS IMPACTED</i>
FSAR	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
TS Bases	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Technical Requirements Manual	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Core Operating Limits Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Offsite Dose Calculations Manual	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
NRC Safety Evaluation Reports ¹	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
If "YES", perform an Exemption Review per Section IV <u>OR</u> perform a 50.59 Evaluation per Section V.				

<i>LBDs controlled under other regulations</i>	YES	NO	N/A	<i>CHANGE # (if applicable) and/or SECTIONS IMPACTED</i>
Quality Assurance Program Manual ²	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Emergency Plan ¹	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Security Plan ^{1, 3}	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Fire Protection Program ⁴ (includes the Fire Hazards Analysis)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If "YES", evaluate/process any changes in accordance with the appropriate regulation.				

2. Does the proposed activity involve a test or experiment not described in the FSAR? ☐ Yes
☒ No
If "yes," perform an Exemption Review per Section IV OR perform a 50.59 Evaluation per Section V.
3. Does the proposed activity potentially impact equipment, procedures, or facilities utilized for storing spent fuel at an Independent Spent Fuel Storage Installation? ☐ Yes
☐ No
☒ N/A
(Check "N/A" if dry fuel storage is not applicable to the facility.)
If "yes," perform a 72.48 Review in accordance with NMM Procedure LI-112.
(See Sections 1.5 and 5.3.1.5 of the EOI 10CFR50.59 Review Program Guidelines.)

¹ If "YES," see Section 5.1.5.

² If "YES," notify the responsible department and ensure a 50.54 Evaluation is performed.

³ The Security Plan is classified as safeguards and can only be reviewed by personnel with the appropriate security clearance. The Preparer should notify the security department of potential changes to the Security Plan.

⁴ If "YES," evaluate the change in accordance with the requirements of the facility's Operating License Condition.

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B. Basis

(Provide a clear, concise basis for the answers given in the applicable sections above. Adequate basis must be provided within the Screening such that a third-party reviewer can reach the same conclusions. Simply stating that the change does not affect TS or the FSAR is not an acceptable basis.)

Performed a keyword search of the on-line Emergency Plan, UFSAR, Tech Specs, TRM, Operating License, NRC Orders, COLR, ODCM, Fire Protection Program, and SERs for the keywords "accountability", "site evacuation", "evacuation". Reviewed all hits returned. Performed a manual search of the online OAPM. No changes in this procedure affect the documents above.

The GGNS Emergency Plan describes evacuation of the Site and areas offsite. This procedure does not address evacuation of offsite areas.

Emergency Plan section 6.5.1 describes general requirements for Site Evacuation and some specific detailed guidance. The changes in this procedure remain consistent with section 6.5.1 of the Emergency Plan, some requirements are relocated to other portions of the procedure to enhance clarity.

Section 7.7 of the Emergency Plan addresses some aspects of 'accountability'. The requirements in the procedure remain consistent with section 7.7 of the Emergency Plan.

This change does not represent a change to any of the LEDs listed above or any system, structure, or component described in the FSAR.

C. References

[Discuss the methodology for performing the LBD search. State the location of relevant licensing document information and explain the scope of the review such as electronic search criteria used (e.g., key words) or the general extent of manual searches per Section 5.3.6.4 of LI-101.]

LBDs/Documents Reviewed:

Keywords:

OAPM, Emergency Plan, UFSAR, Tech Specs, TRM, Operating License, NRC Orders, COLR, ODCM, Fire Protection Program, and SERs

"accountability", "site evacuation", "evacuation"

- D. Is the validity of this Review dependent on any other change? (See Section 5.3.4 of the EOI 10CRK50.59 Program Review Guidelines.) ☐ Yes ☒ No

If "Yes," list the required changes.

N/A

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III. ENVIRONMENTAL SCREENING

If any of the following questions is answered "yes," an Environmental Review must be performed in accordance with NMM Procedure EV-115, "Environmental Evaluations," and attached to this 50.59 Review.

Will the proposed Change being evaluated:

Yes No

- ☐ ☒ Involve a land disturbance of previously disturbed land areas in excess of one acre (i.e., grading activities, construction of buildings, excavations, reforestation, creation or removal of ponds)?
- ☐ ☒ Involve a land disturbance of undisturbed land areas (i.e., grading activities, construction, excavations, reforestation, creating, or removing ponds)?
- ☐ ☒ Involve dredging activities in a lake, river, pond, or stream?
- ☐ ☒ Increase the amount of thermal heat being discharged to the river or lake?
- ☐ ☒ Increase the concentration or quantity of chemicals being discharged to the river, lake, or air?
- ☐ ☒ Discharge any chemicals new or different from that previously discharged?
- ☐ ☒ Change the design or operation of the intake or discharge structures?
- ☐ ☒ Modify the design or operation of the cooling tower that will change water or air flow characteristics?
- ☐ ☒ Modify the design or operation of the plant that will change the path of an existing water discharge or that will result in a new water discharge?
- ☐ ☒ Modify existing stationary fuel burning equipment (i.e., diesel fuel oil, butane, gasoline, propane, and kerosene)?¹
- ☐ ☒ Involve the installation of stationary fuel burning equipment or use of portable fuel burning equipment (i.e., diesel fuel oil, butane, gasoline, propane, and kerosene)?¹
- ☐ ☒ Involve the installation or use of equipment that will result in an air emission discharge?
- ☐ ☒ Involve the installation or modification of a stationary or mobile tank?
- ☐ ☒ Involve the use or storage of oils or chemicals?
- ☐ ☒ Involve burial or placement of any solid wastes in the site area that may effect runoff, surface water, or groundwater?

¹ See NMM Procedure EV-117, "Air Emissions Management Program," for guidance in answering this question.

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10CFR50.54(q) Screening**1. DOCUMENT INFORMATION**

Procedure/Document Number: 10-S-01-11	Proc./Doc. Revision: 18
Document Title: Evacuation of Onsite Personnel	
Brief Description of Proposed Revision:	
<p>Revision 18 is to clarify portions of the procedure. This is to address comments received in EPTS 6 training as identified in EPATS 1897.</p> <ul style="list-style-type: none"> • Grammatical changes. • Revises 6.1.2.a.1 to clearly indicate that the ED notifies Security to begin the accountability process identified in Section 6.2.1. • Revises 6.3.1.a.1 to clearly indicate that the ED notifies Security to begin the accountability process. • Moves 6.1.2.b.4 concerning emergency response personnel actions to Section 6.1.3, Personnel Response In the Protected Area. • Deletes exceptions from 6.1.3 title and incorporates them into 6.1.3.a.4. • Moves 6.2.1.a.3 to 6.1.3.a.1.a for clarity • Moves portions of 6.2.1.a to 6.1.3.a.3 for clarity • Combines several sentences into 6.1.3.a.4 and 6.1.3.a.5 to clearly indicate expected actions for each group of personnel responding to a Site Evacuation • Rewords 6.2.1.a to indicate that personnel follow the actions outlined in 6.1.3, Personnel Response In The Protected Area. • To promote consistency between OSC field teams and Control Room field teams during Site Evacuation and Limited Evacuation, copies the Shift Manager's actions in 6.2.2.c to 6.2.1.c (provides CAS with the names and badge numbers of Control Room personnel in the field who cannot log into an accountability card reader). 	

2. SCREENING

<p>A.) Does the proposed revision require a change to the Emergency Plan? ___ Yes <u>X</u> No</p> <p><u>The GGNS Emergency Plan describes evacuation of the Site and areas offsite. This procedure does not address evacuation of offsite areas.</u></p> <p><u>Emergency Plan section 6.5.1 describes general requirements for Site Evacuation and some specific detailed guidance. The changes in this procedure remain consistent with section 6.5.1 of the Emergency Plan, some requirements are relocated to other portions of the procedure to enhance clarity.</u></p> <p><u>Section 7.7 of the Emergency Plan addresses some aspects of 'accountability'. The requirements in the procedure remain consistent with section 7.7 of the Emergency Plan.</u></p> <p>B.) Does the proposed revision change the site Emergency Action Levels (EALs)? ___ Yes <u>X</u> No</p> <p>If the answer to either question is YES, then a 50.54(q) evaluation must be performed. See attachment 9.2.</p>
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3. APPROVAL

Screening Completed By:	<u>Richard Lundell</u>	<u>3/26/2003</u>
	SIGNATURE	DATE
Screening Reviewed By:	<u>DKF for M.F. Gagnon</u>	<u>4/2/03</u>
	SIGNATURE	DATE

GRAND GULF NUCLEAR STATION

EMERGENCY PLAN PROCEDURE

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RPTS FORM

10CFR50.59 Review Required?	(X) Yes () No	If Yes, attach 50.59 Review Form Not required per LI-101
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Cross-Discipline review required?	(X) Yes () No	(Note affected Departments Below)
Preparer Initials>>> RS		

Department Cross-Discipline Reviews Needed	Signoff (signed Electronic, telcon)
Operations	<i>[Signature]</i>
Emergency Director Position Lead	<i>[Signature]</i>
TSC Coordinator Position Lead	<i>[Signature]</i>
SEC Position Lead (OSC)	<i>[Signature]</i>
Security	<i>[Signature]</i>

Does this directive contain Tech Spec Triggers? () YES (X) NO

REQUIREMENTS CROSS-REFERENCE LIST

Requirement Implemented Name	by Directive Paragraph Number	Directive 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 Component Database Change Request statement is applicable only to Volume 06 and 07 maintenance directives.

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

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Current Revision Statement

Revision 18:

- Revision 18 is to clarify portions of the procedure. This is to address comments received in EPTS 6 training as identified in EPATS 1897.
- Grammatical changes.
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- To promote consistency between OSC field teams and Control Room field teams during Site Evacuation and Limited Evacuation, copies the Shift Manager's actions in 6.2.2.c to 6.2.1.c (provides CAS with the names and badge numbers of Control Room personnel in the field who cannot log into an accountability card reader).

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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 Emergency 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 through the HP Lab (93' elevation of the Control 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 Area

- a. Emergency Response Personnel
 - (1) If exiting the CAA, the normal exit is through the Health Physics Lab on the 93' level of the Control Building, unless otherwise directed.
 - (a) Personnel exiting the CAA may be requested to key card into the HP 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 Response**NOTE**

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 93' elevation Control 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 turnstyles 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 Decontamination**NOTE**

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

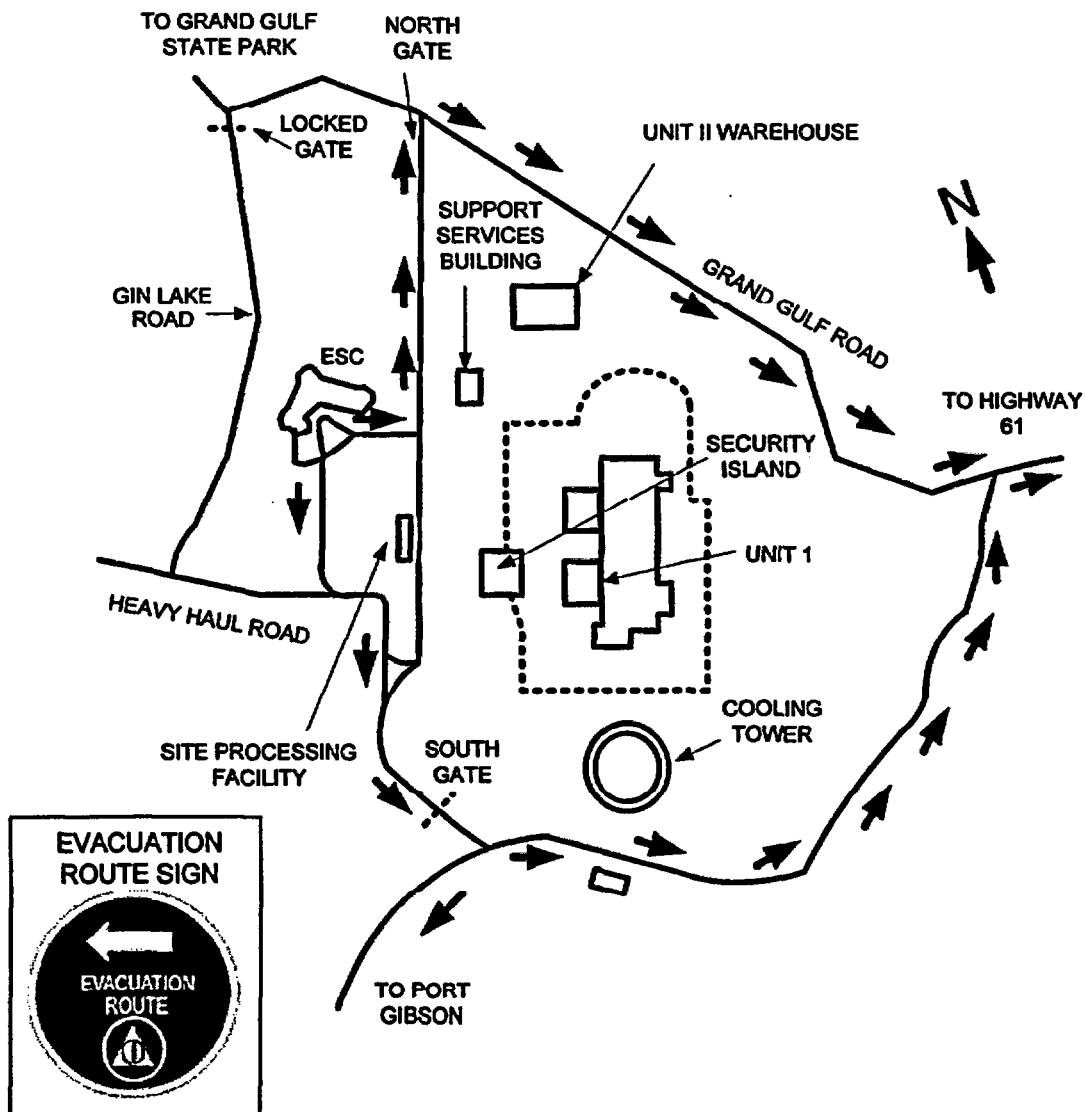
- 6.4.1 In the event that a radiological release occurs before the evacuation is completed, personnel and vehicles may be surveyed and decontaminated as needed. A monitoring and decontamination station is established at the EOF when directed by the Emergency Director. If a delay due to decontamination 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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Attachment I	Page 1 of 1

GGNS EVACUATION MAP**ATTENTION TO VISITORS:**

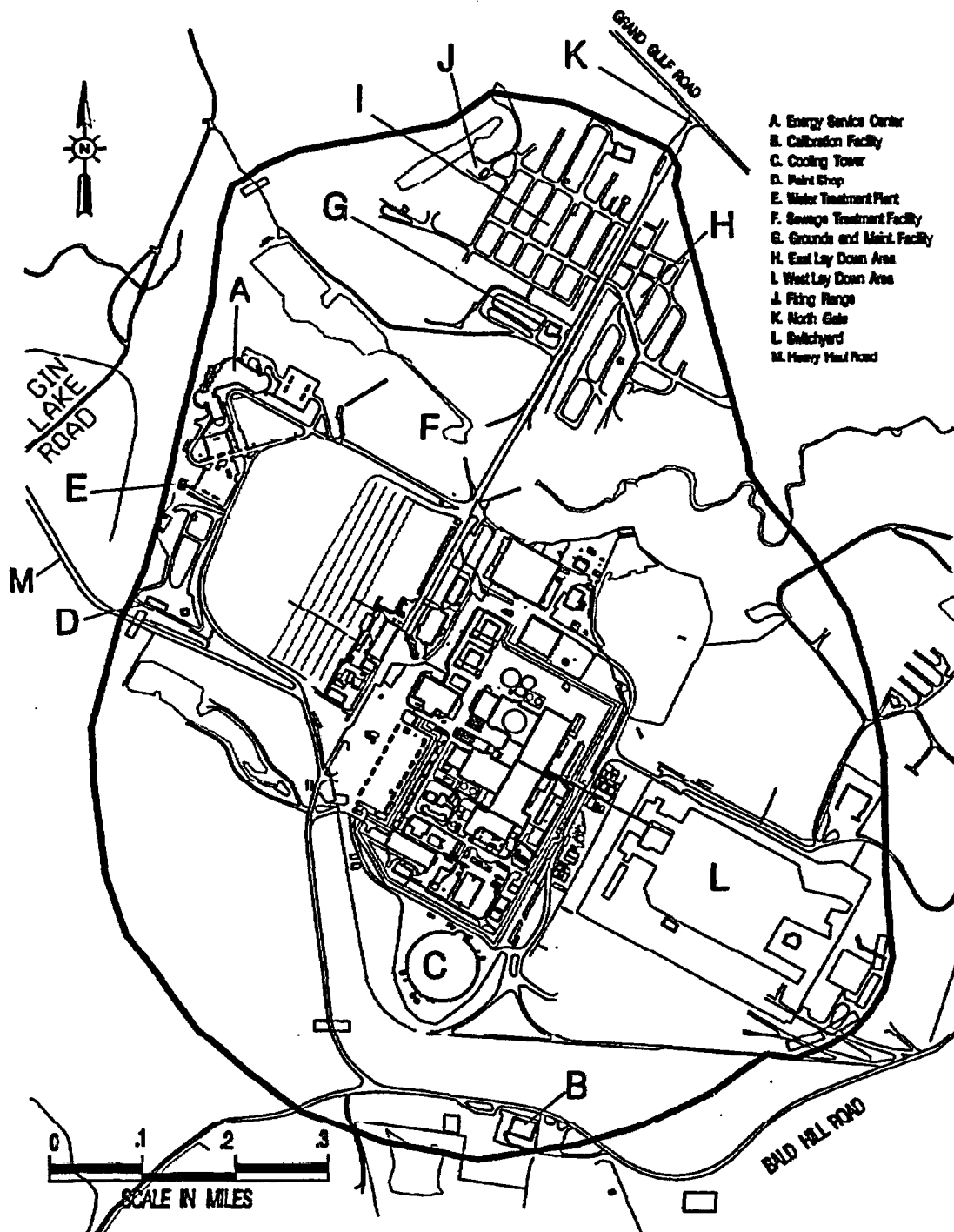
As a visitor to Grand Gulf Nuclear Station you are required to adhere to instructions announced over the P.A. System during any declared emergency. Announcement of a site evacuation will require an immediate and orderly exit from the site as directed.

(See map below for evacuation routes)



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Attachment II	Page 1 of 1

EP OWNER CONTROLLED AREA



NOTE

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

PLANT OPERATIONS MANUAL

Volume 10
Section 01

10-S-01-18
Revision: 7
Date: 5/27/03

EMERGENCY PLAN PROCEDURE
PERSONNEL SEARCH AND RESCUE
SAFETY RELATED

Prepared: *Technical*
Reviewed: *Technical*
Concurred: *Manager, Operations*
OSRC: *Manager, Operations*
Approved: *J. Brad Edwards* *M. H. H.*
Plant General Manager Manager, Emergency Preparedness

List of Effective Pages:

Pages 1-4

List of TCNs Incorporated:

<u>Revision</u>	<u>TCN</u>
0	None
1	None
2	None
3	None
4	None
5	1,2
6	None
7	None

GRAND GULF NUCLEAR STATION

EMERGENCY PLAN PROCEDURE

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Safety Evaluation
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I. OVERVIEW / SIGNATURES

Facility: GGNSDocument Reviewed: 10-S-01-18 Change/Rev. 7System Designator(s)/Description: NADescription of Proposed Change

Grammatical changes, corrects titles of HP to RP, adds several examples of methods that may used to attempt contacting missing personnel, transfers the responsibility for performing attempts to contact missing personnel from the Emergency Director to the OSC Coordinator

If the proposed activity, in its entirety, involves any one of the criteria below, check the appropriate box, provide a justification/basis in the Description above, and forward to a Reviewer. No further 50.59 Review is required. If none of the criteria is applicable, continue with the 50.59 Review.

- ☐ The proposed activity is editorial/typographical as defined in Section 5.2.2.1.
- ☐ The proposed activity represents an "FSAR-only" change as allowed in Section 5.2.2.2_____. (Insert item # from Section 5.2.2.2).
- ☐ The proposed activity is controlled by another regulation per Section 5.2.2.3.

If further 50.59 Review is required, check the applicable review(s): (Only the sections indicated must be included in the Review.)

<input checked="" type="checkbox"/>	SCREENING	Sections I, II, and III required
<input type="checkbox"/>	50.59 EVALUATION EXEMPTION	Sections I, II, III, and IV required
<input type="checkbox"/>	50.59 EVALUATION (#: _____)	Sections I, II, III, and V required

Preparer: Richard Sumrall / [Signature] / EOI / EP / 5-15-2003
Name (print) / Signature / Company / Department / Date

Reviewer: Richard VandenAkker / [Signature] / EOI / EP / 5-15-2003
Name (print) / Signature / Company / Department / Date

OSRC: N/A
Chairman's Name (print) / Signature / Date
[Required only for Programmatic Exclusion Screenings (see Section 5.8) and 50.59 Evaluations.]

**List of Assisting/Contributing
Personnel:**

Name:

Larry Durden

Scope of Assistance:

Review of Security Plan

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Safety Evaluation
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II. SCREENING

A. Licensing Basis Document Review

1. Does the proposed activity impact the facility or a procedure as described in any of the following Licensing Basis Documents? (Check "N/A" for those documents that are not applicable to the facility.)

<i>Operating License</i>	YES	NO	N/A	<i>CHANGE # and/or SECTIONS IMPACTED</i>
Operating License	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
TS	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
NRC Orders	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If "YES", obtain NRC approval prior to implementing the change. (See Section 5.1.13 for exceptions.)				

<i>LBDs controlled under 50.59</i>	YES	NO	N/A	<i>CHANGE # (if applicable) and/or SECTIONS IMPACTED</i>
FSAR	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
TS Bases	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Technical Requirements Manual	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Core Operating Limits Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Offsite Dose Calculations Manual	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
NRC Safety Evaluation Reports ¹	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
If "YES", perform an Exemption Review per Section IV <u>OR</u> perform a 50.59 Evaluation per Section V.				

<i>LBDs controlled under other regulations</i>	YES	NO	N/A	<i>CHANGE # (if applicable) and/or SECTIONS IMPACTED</i>
Quality Assurance Program Manual ²	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Emergency Plan ³	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Security Plan ³	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Fire Protection Program ⁴ (includes the Fire Hazards Analysis)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If "YES", evaluate/process any changes in accordance with the appropriate regulation.				

2. Does the proposed activity involve a test or experiment not described in the FSAR? ☐ Yes ☒ No
If "yes," perform an Exemption Review per Section IV OR perform a 50.59 Evaluation per Section V.
3. Does the proposed activity potentially impact equipment, procedures, or facilities utilized for storing spent fuel at an Independent Spent Fuel Storage Installation? ☐ Yes ☐ No ☒ N/A
(Check "N/A" if dry fuel storage is not applicable to the facility.)
If "yes," perform a 72.48 Review in accordance with NMM Procedure LI-112.
(See Sections 1.5 and 5.3.1.5 of the EOI 10CFR50.59 Review Program Guidelines.)

¹ If "YES," see Section 5.1.5.

² If "YES," notify the responsible department and ensure a 50.54 Evaluation is performed.

³ The Security Plan is classified as safeguards and can only be reviewed by personnel with the appropriate security clearance. The Preparer should notify the security department of potential changes to the Security Plan.

⁴ If "YES," evaluate the change in accordance with the requirements of the facility's Operating License Condition.

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Safety Evaluation
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B. Basis

(Provide a clear, concise basis for the answers given in the applicable sections above. Adequate basis must be provided within the Screening such that a third-party reviewer can reach the same conclusions. Simply stating that the change does not affect TS or the FSAR is not an acceptable basis.)

Performed a keyword search of the on-line Emergency Plan, UFSAR, Tech Specs, TRM, Operating License, NRC Orders, COLR, ODCM, Fire Protection Program, and SERs for the keywords "Search", "Search and Rescue", "flashlight", "first aid", "OSC Coordinator", and "missing personnel". Reviewed all hits returned. No changes in this procedure affect any of the documents above.

Emergency Plan Section 6.5.1 discusses accountability and missing personnel in generic terms, but does not provide specific guidance as discussed in this procedure.

Performed online search of the OSHA Regulations for the keywords "accountability", "search and rescue", "search", "buddy system" and "missing".

OSHA regulation 29CFR1910.38(c)(4) and 29CFR1926.35(b)(1) discusses having procedures for accountability of personnel and 29CFR1910.38(c)(5) and 29CFR1926.35(b)(4) discuss having procedures for personnel performing rescue and medical operations, but they do not specify specific requirements for these procedures.

This change does not represent a change to any systems, structures, or components described in the UFSAR.

C. References

[Discuss the methodology for performing the LBD search. State the location of relevant licensing document information and explain the scope of the review such as electronic search criteria used (e.g., key words) or the general extent of manual searches per Section 5.3.6.4 of LI-101.]

LBDs/Documents Reviewed:

Keywords:

Emergency Plan, UFSAR, Tech Specs, TRM, Operating License, NRC Orders, COLR, ODCM, Fire Protection Program, and SERs

"Search", "Search and Rescue", "flashlight", "first aid", "OSC Coordinator", and "missing personnel"

OSHA regulations 29CFR1910.38(c)(4), 29CFR1926.35(b)(1), 29CFR1910.38(c)(5) and 29CFR1926.35(b)(4)

"accountability", "search and rescue", "search", "buddy system" and "missing".

- D. Is the validity of this Review dependent on any other change?** (See Section 5.3.4 of the EOI 10CFR50.59 Program Review Guidelines.) ☐ Yes ☒ No

If "Yes," list the required changes.

N/A

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Safety Evaluation
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III. ENVIRONMENTAL SCREENING

If any of the following questions is answered "yes," an Environmental Review must be performed in accordance with NMM Procedure EV-115, "Environmental Evaluations," and attached to this 50.59 Review.

Will the proposed Change being evaluated:

Yes No

- ☐ ☒ Involve a land disturbance of previously disturbed land areas in excess of one acre (i.e., grading activities, construction of buildings, excavations, reforestation, creation or removal of ponds)?
- ☐ ☒ Involve a land disturbance of undisturbed land areas (i.e., grading activities, construction, excavations, reforestation, creating, or removing ponds)?
- ☐ ☒ Involve dredging activities in a lake, river, pond, or stream?
- ☐ ☒ Increase the amount of thermal heat being discharged to the river or lake?
- ☐ ☒ Increase the concentration or quantity of chemicals being discharged to the river, lake, or air?
- ☐ ☒ Discharge any chemicals new or different from that previously discharged?
- ☐ ☒ Change the design or operation of the intake or discharge structures?
- ☐ ☒ Modify the design or operation of the cooling tower that will change water or air flow characteristics?
- ☐ ☒ Modify the design or operation of the plant that will change the path of an existing water discharge or that will result in a new water discharge?
- ☐ ☒ Modify existing stationary fuel burning equipment (i.e., diesel fuel oil, butane, gasoline, propane, and kerosene)?¹
- ☐ ☒ Involve the installation of stationary fuel burning equipment or use of portable fuel burning equipment (i.e., diesel fuel oil, butane, gasoline, propane, and kerosene)?¹
- ☐ ☒ Involve the installation or use of equipment that will result in an air emission discharge?
- ☐ ☒ Involve the installation or modification of a stationary or mobile tank?
- ☐ ☒ Involve the use or storage of oils or chemicals?
- ☐ ☒ Involve burial or placement of any solid wastes in the site area that may effect runoff, surface water, or groundwater?

¹ See NMM Procedure EV-117, "Air Emissions Management Program," for guidance in answering this question.

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Emergency Plan Evaluation
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10CFR50.54(q) Screening**1. DOCUMENT INFORMATION**

Procedure/Document Number: 10-S-01-18	Proc./Doc. Revision: 7
Document Title: Personnel Search and Rescue	
Brief Description of Proposed Revision: Grammatical changes, corrects titles of HP to RP, adds several examples of methods that may used to attempt contacting missing personnel, transfers the responsibility for performing attempts to contact missing personnel from the Emergency Director to the OSC Coordinator	

2. SCREENING

A.) Does the proposed revision require a change to the Emergency Plan? ___ Yes <u>x</u> No <u>Emergency Plan Section 6.5.1 discusses accountability and missing personnel in generic terms, but does not provide specific guidance as discussed in this procedure.</u>
B.) Does the proposed revision change the site Emergency Action Levels (EALs)? ___ Yes <u>x</u> No
If the answer to either question is YES, then a 50.54(q) evaluation must be performed. See attachment 9.2.

3. APPROVAL

Screening Completed By:

Tim D. Smith
SIGNATURE4/1/03
DATE

Screening Reviewed By:

OK for M.F. Cuyun
SIGNATURE4/2/03
DATE

GRAND GULF NUCLEAR STATION

EMERGENCY PLAN PROCEDURE

Title: Personnel Search and Rescue	No.: 10-S-01-18	Revision: 7	Page: i
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RPTE FORM

10CFR50.59 Review Required?	(X) Yes	If Yes, attach 50.59 Review Form
	() No	Not required per LI-101

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

Department Cross-Discipline Reviews Needed	Signoff (signed, electronic, telcon)
Emergency Director Lead	<i>[Signature]</i>
OSC Coordinator Lead	Billy Parnen

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
None		

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

NOTE

The Component Database Change Request statement is applicable only to Volume 06 and 07 maintenance directives.

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

Current Revision Statement

Revision 7:

- Makes grammatical changes
- Corrects titles of HP to RP
- Adds several examples of methods that may used to attempt contacting missing personnel
- Transfers the responsibility for performing attempts to contact missing personnel from the Emergency Director to the OSC Coordinator

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1.0 PURPOSE AND DISCUSSION

1.1 Purpose

- 1.1.1 To provide guidance for the organization, coordination and control of Search and Rescue Teams.

1.2 Discussion

- 1.2.1 During an emergency at GGNS, Search and Rescue Teams may be dispatched to locate and provide assistance to missing and possibly injured personnel.
- 1.2.2 Team members may be subjected to hazardous radiological and environmental conditions; therefore, the personnel safety precautions and methods described in this procedure must be observed.
- 1.2.3 The team must be prepared to perform first aid duties as necessary.

2.0 RESPONSIBILITIES

- 2.1 Emergency Director - Notifies OSC Coordinator when personnel are determined to be missing and/or injured during an emergency.
- 2.2 OSC Coordinator - Is responsible for the assembly, dispatch and coordination of the Search and Rescue Teams.
- 2.3 RP Shift Supervision- Assumes the responsibilities of the OSC Coordinator for dispatching Search and Rescue Teams from the Health Physics Lab when the OSC has not been activated.
- 2.4 Search and Rescue Team Leader - Is responsible for the personal safety of team members.
- 2.5 Team Radiation Protection technician - Assists the team leader to ensure proper protection against radiological hazards for team members. This includes the proper use of protective clothing, respiratory protection and ensuring team members' radiation exposures remain ALARA and below authorized limits.

3.0 REFERENCES

- 3.1 None

4.0 ATTACHMENTS

- 4.1 None

5.0 DEFINITIONS

- 5.1 OSC - Operations Support Center
- 5.2 ALARA - As Low As Reasonably Achievable

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6.0 DETAILS

6.1 SEARCH AND RESCUE TEAM FORMATION

- 6.1.1 The Emergency Director advises the OSC Coordinator to assemble Search and Rescue Teams based on the personnel accountability listing.
- 6.1.2 The Emergency Director must provide the following information to the OSC Coordinator:
 - a. Number and identity of missing persons
 - b. Last known location
 - c. Plant conditions that may affect team operations
- 6.1.3 The OSC Coordinator should ensure that attempts are made to contact the missing persons before dispatching Search and Rescue Teams.
 - a. Attempts to contact missing personnel may include:
 - (1) pager announcements
 - (2) portable radio announcements
 - (3) telephone calls to the missing persons' office and pager
- 6.1.4 The OSC Coordinator assembles the required number of Search and Rescue Teams and designates a Team Leader for each team.
 - a. The minimum manning for a Search and Rescue Team is:
 - (1) a Radiation Protection technician
 - (2) a First Aid qualified individual
 - b. The OSC Coordinator may assign additional personnel to the team as necessary.
- 6.1.5 The Health Physics Coordinator ensures that team members have sufficient remaining radiation exposure margins per 10-S-01-17, Emergency Personnel Exposure Control.

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6.1.6 The Team Leader ensures the team is provided with the following equipment (as applicable) based on the reported radiological and environmental conditions which the team is expected to encounter:

- a. Portable radio
- b. Dosimetry devices per 10-S-01-17, Emergency Personnel Exposure Control
- c. Protective clothing
- d. Respiratory protective equipment
- e. First aid kit
- f. Flashlight
- g. Other equipment deemed necessary by the OSC Coordinator

6.1.7 The OSC Coordinator informs the TSC when the team is ready for dispatch.

6.2 DISPATCHING OF SEARCH AND RESCUE TEAMS

6.2.1 The Health Physics Coordinator ensures that each team receives a detailed briefing covering the following subjects:

- a. Number and identity of missing persons
- b. Last known location
- c. Expected radiological and environmental conditions to be encountered
- d. Frequency of status reports to the OSC
- e. Search pattern to be used

6.3 SEARCH AND RESCUE TEAM OPERATIONS

6.3.1 The Team Leader directs a pre-planned search pattern in the last known location of the missing individual and expands into the adjacent areas as necessary.

6.3.2 Use the "buddy system". Team members do not separate without direct permission from the Team Leader.

6.3.3 The Team Radiation Protection technician has the authority to stop and/or redirect Search and Rescue Team actions based upon an assessment of radiological conditions. If conditions are such that an unacceptable hazard is present, the Search and Rescue Team effort is to be terminated until those conditions are properly evaluated.

NOTE

- Frequent status reports must be relayed to the OSC.
- The OSC Coordinator briefs the Emergency Director on the search progress.

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- 6.3.4 Once the missing individual has been located, the Team Leader must:
- Notify the OSC - Give the individual's name, location and physical condition.
 - Direct the performance of first aid, if necessary, in accordance with 10-S-01-19, Personnel Injury. Injured personnel should be transported to a safe area or the First Aid Station. Stretchers are available throughout the plant, if needed.
 - Request assistance from the OSC, if needed. Assistance may be required to remove injured personnel trapped by falling equipment, to provide medical support, or to deal with adverse conditions such as fire, very high radiation levels, airborne activity, contamination, or steam.
- 6.3.5 The Team Leader should notify the OSC Coordinator when a team member is missing.