

PLANT OPERATIONS MANUAL

Volume 10

10-S-01-19

Section 01

Revision: 021

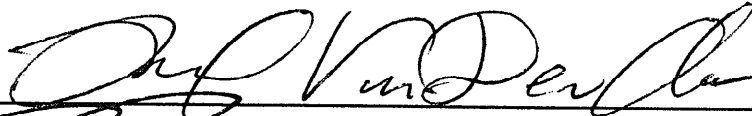
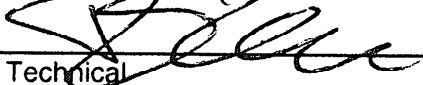

Date: 5-2-16

REFERENCE USE

EMERGENCY PLAN PROCEDURE

PERSONNEL INJURY

SAFETY RELATED

Prepared: 
Reviewed: 
Technical
Approved: 
Manager, Emergency Planning

List of Effective Pages:

Pages 1-9

Attachments I-II


List of TCNs Incorporated:

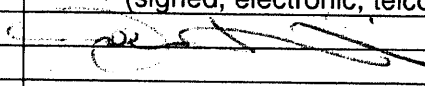
<u>Revision</u>	<u>TCN</u>
0	None
1	1
2-021	None

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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 Screen/Eval. (EN-LI-101)
Transmit applicable Review Form as a separate record along with procedure to Document Control.	<input type="checkbox"/> 72.48 Screen/Eval. (EN-LI-112)	<input type="checkbox"/> 50.54 Eval. (EN-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?	(X) Yes	(Note affected Departments Below)
	() No	
Preparer Initials>>> 		

Department Cross-Discipline Reviews Needed	Signoff (signed, electronic, telcon)
Industrial Safety	

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
GGNS Emergency Plan	6.7.3.S1, S2 & 6.7.4.S5	6.3 (Note) & 6.4.1
10 CFR 50	72.B.3.XII	6.3 (Caution)

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

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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 # _____

Current Revision Statement

Revision 021:

- Add reference to Management Standard #20 – Operating Hard-Card, Control Room Actions for Medical Emergency. (Reference CR-GGN-2016-2247 CA #2)
- Changes to reporting emergencies and Control Room actions to be consistent with Management Standard #20.

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1.0 PURPOSE AND DISCUSSION

1.1 Purpose

1.1.1 To provide guidance on response to, reporting of, and transfer of injured personnel under the following conditions:

- a. Injured person requiring transport to an offsite medical care facility
- b. Any injuries discovered during an emergency classification

1.2 Discussion

1.2.1 By agreement between Entergy Operations, Inc. and the primary and backup medical care facilities, personnel at the Grand Gulf Nuclear Station sustaining injuries from ionizing radiation or injuries complicated by radiation exposure or radioactive contamination are to be provided care and treatment at those facilities. Procedures and equipment for this care and treatment are maintained at these facilities.

An individual whose clothing, skin and/or wounds are **contaminated** with radioactive material may present a radiation hazard to attending personnel in the absence of adequate procedures to prevent the spread of the contaminant, or control the radiation exposure in the event of radioactive shrapnel wound.

Since radiation injuries are not immediately life-threatening, primary attention should always be directed to traumatic life-threatening injuries. After such treatment is rendered, the patient should be decontaminated.

2.0 RESPONSIBILITIES

2.1 The Manager, Radiation Protection - Is responsible for the implementation of the First Aid Program at GGNS.

2.2 The Radiation Protection Supervisor - Is responsible for the administration and management of the First Aid Program including:

- 2.2.1 The assignment of a First Aid qualified individual to each Radiation Protection shift.
- 2.2.2 Maintenance of first aid supplies and medical emergency response equipment.
- 2.2.3 Transportation of injured personnel to the hospital and contamination control measures as necessary.

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- 2.3 All GGNS personnel - Are to immediately report observed serious injuries to the **Control Room**. Personnel within the Protected Area requiring minor first aid are to report to **Radiation Protection** for medical treatment.
- 2.4 The OSC Manager - Is responsible for organizing and dispatching of First Aid Teams per EN-EP-611 when the OSC is operational.
- 2.5 The EOF Public Information Liaison - Is responsible for notifying the **Company Spokesperson** regarding worker injuries during a declared emergency.

3.0 REFERENCES

- 3.1 Corporate Procedure EN-IS-113, Reporting & Investigating Occupational Injuries/Illnesses And Near Misses
- 3.2 Grand Gulf Nuclear Station emergency Phone Book Section E, Fire and Medical Support.
- 3.3 Management Standard #20, Operating Hard Card - Control Room Actions for Medical Emergency

4.0 ATTACHMENTS

- 4.1 Attachment I - Directions to Claiborne County Hospital
- 4.2 Attachment II - Directions to River Region Medical Center

5.0 DEFINITIONS

- 5.1 OSC - Operations Support Center
- 5.2 TSC - Technical Support Center
- 5.3 RPS – Radiation Protection Supervisor
- 5.4 REA - Radiation Emergency Area

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6.0 DETAILS

6.1 Reporting of Injuries

NOTE

Maintain communications with the Control Room until all reported information is properly acknowledged.

- 6.1.1 Any individual finding an injured person who requires major medical assistance is to **immediately NOTIFY the Control Room** by the quickest available means.

- a. The following information should be provided to the Control Room:

- (1) **Name** and **location** of the injured person
- (2) **Nature** of the emergency, if known.
- (3) Is Medical Help/Ambulance needed?
- (4) **Name** of the caller

- 6.1.2 The **Control Room** is to perform the following actions. If available use Management Standard #20 – Operating Hard Card for Medical Emergency:

- a. Immediately **NOTIFY the Radiation Protection (RP) Lab or Site Medical Personnel** to dispatch First Responders to the scene.
- b. If required, Contact Ambulance for response to Grand Gulf Nuclear Station. Give them the location of the emergency. Provide a Call Back Number and site address; 7003 Bald Hill Road, Port Gibson, Mississippi
TIME: _____
- c. Contact Security Island of Ambulance response and authorize entry, as needed.
- d. Have Security dispatched to scene, as necessary.
Name _____ Time _____
- e. **SOUND Site Fire Alarm; MAKE PA ANNOUNCEMENT:**
“MEDICAL EMERGENCY AT _____ unnecessary
personnel stay clear of the area.”

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- f. **REPEAT** notification every 5 minutes until the Control Room has confirmation that the first aid team has been assembled at the scene.
- g. **Dispatch** operator to scene with First Aid Trauma Kit and AED. First Aid Trauma Kit and AED locations are listed on Management Standard #20.
- h. **Contact** Industrial Safety.
Name _____ Time _____
- i. **Contact** Duty Manager.
Name _____ Time _____
- j. Shift Manager **determine** reportability, as needed.

6.1.3 If during declared emergency and emergency response facilities are operational:

- a. **NOTIFY** the **OSC** and provide the applicable information about the location of the worker and extent of injuries, if known.
- b. **NOTIFY** the **TSC** Emergency Plant Manager.

6.2 Immediate Actions

- 6.2.1 Upon receiving notification of a medical emergency: the RP Lab should **PERFORM** the following

NOTE:

The First Aid Team may be notified by Gaitronics, plant radio or pager using Alpha Paging on the GGNS Home Page under Processes/Programs (page First Aid Team)

- a. Notify the Control Room if not already notified.
- b. **DISPATCH** a First Aid Team to the scene of the medical emergency. The First Aid personnel should be equipped with the following:
 - (1) **First Aid trauma kit**
 - (2) **Portable radio**
 - (3) **Radiological survey instruments and personnel protective equipment** (i.e., respiratory protection devices, PCs) suitable for the hazards at the location and the nature of the event which caused the injury (i.e., fire, explosion).

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6.2.1 (continued)

- c. The First Aid Team should establish and maintain communications with the RP Lab, Control Room, or OSC and provide periodic updates.

6.2.2 First Aid personnel are to **PERFORM** the following actions at the scene of the medical emergency:

- a. **DETERMINE** the injured person's physical condition and extent of injuries.
- b. **ADMINISTER** first aid necessary to sustain life and to stabilize the injured worker.
- c. **MOVE** the injured person to a safe location if life-threatening radiological or physical hazards are present.
- d. IF the injury occurred in a radiologically posted area, THEN perform a contamination survey of the injured worker and **READ** the worker's dosimetry.
- e. **PROVIDE** the following information to the RP Lab or OSC Rad Chem Coordinator:

NOTE

Radiation Protection (OSC Rad Chem Coordinator) must Notify the Control Room and provide the following information

- (1) **Name** and **location** of the injured person.
- (2) **Extent** of injuries and treatment being administered.
- (3) Personnel **contamination survey** and **dosimeter** results for the injured worker.
- (4) The need for an ambulance or other assistance.
- f. **PREPARE** the injured worker for transfer to the hospital.
- g. Radiation Protection personnel at the scene of the medical emergency must **PERFORM** radiological surveys as necessary to protect team members and support personnel.

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6.3 Ambulance Transport

NOTE

The transport of injured persons is normally provided by the regional ambulance service. If the regional ambulance service is unavailable, the injured person should be transported in company owned or private vehicle.

CAUTION

If a contaminated injured person is transported to an offsite medical facility, the NRC shall be notified within eight hours, in accordance with 01-S-06-5.

- 6.3.1 If ambulance transport is necessary the **Control Room** should use the phone numbers listed in Reference 3.2 to request an ambulance.
- a. Inform the ambulance of the location of the injured, access point or any other information necessary.
- 6.3.2 The **Control Room** must **NOTIFY Security** if an Onsite or Offsite ambulance is required to enter the protected area and must **SPECIFY** the patient pickup point.
- a. The **Security Coordinator** must **ENSURE** that Offsite ambulance crews are issued dosimetry at the entrance to the Protected Area.
- b. Radiation Protection personnel at the scene of the medical emergency must **ENSURE** that Offsite ambulance crew members are properly wearing the appropriate dosimetry and protective clothing for entry into radiologically controlled areas.
- 6.3.3 The **Shift Manager** should **NOTIFY** the **EOF Emergency Director** and **INFORM** him of the transportation of an injured contaminated worker to the hospital.

NOTE

The hospital must receive this information as soon as possible in order to make the necessary preparations for the emergency treatment of the worker. The hospital phone numbers are listed in the Emergency Telephone Book.

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6.3.4 **The RP Supervisor/Shift Lead HP (OSC Rad Chem Coordinator) receiving the initial information must notify the hospital and provide the following information as soon as possible.**

- a. **Name** of injured worker(s)
- b. **Extent** of injuries
- c. **Contamination** levels on injured worker(s), if applicable
- d. Expected **arrival time** at hospital, if known.

6.3.5 **GGNS personnel** should **PERFORM** the following enroute to the hospital:

NOTE

- A frisker is normally maintained in the Onsite Ambulance
- Surveys may be limited or impractical due to the extent of injuries received by the worker.

- a. **PERFORM a detailed contamination survey** of the injured worker if the injury occurred in a Radiologically Controlled Area.

6.4 **Offsite Medical Facilities**

6.4.1 The Radiation Protection Supervisor/Shift Lead HP (OSC Rad Chem Coordinator) is responsible for determining which medical facility to use. Facilities available for use include:

- a. Claiborne County Hospital
- b. River Region Medical Center

6.4.2 Attachment I and II are used to determine transportation routes to the medical facilities.

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6.4.3 Process for selecting hospital facilities during non-radiological emergencies is:

a. Non-contaminated, non-life threatening:

River Region Medical Center, or Claiborne County Hospital. Street Clinic in Vicksburg is recommended where applicable.

b. Non-contaminated, life threatening - transport to Claiborne County Hospital.

c. Plant Safety and EMT personnel may also authorize hospital locations during non-radiological emergencies using the guidelines above.

6.4.4 Contaminated personnel with minor or major injuries should be transported to one of the medical facilities identified in 6.4.1.

6.4.5 Patients must be delivered to hospital facilities as follows:

a. All injured workers who are not contaminated should be transported directly to the hospital Emergency Room.

b. Contaminated personnel should be transported to the hospital **Radiation Emergency Area**.

6.4.6 When a contaminated injured worker is transported to the hospital, GGNS personnel at the hospital should provide the following support, if available:

a. **PROVIDE** the physician with all available information concerning the accident and the contamination hazards present, upon request.

b. **ASSIST** the hospital staff, if possible.

c. **COORDINATE** the collection and disposal of contaminated waste materials.

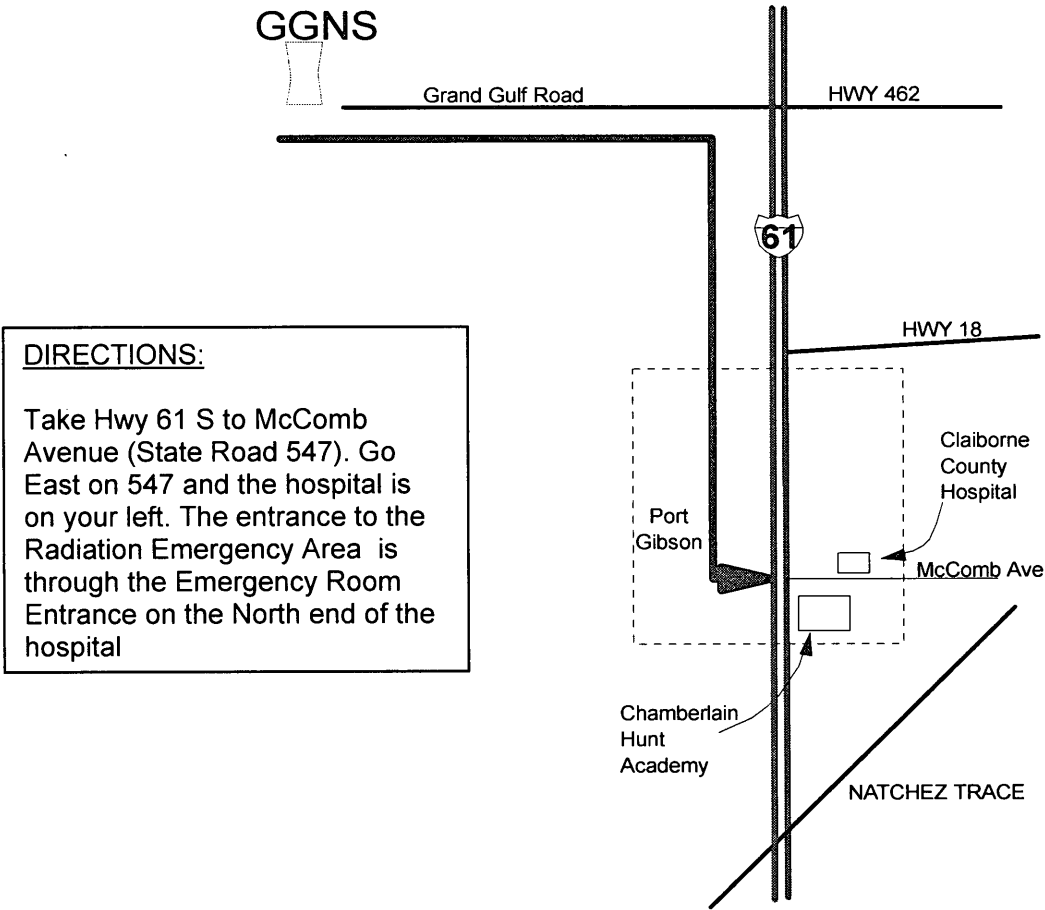
d. **COLLECT** Offsite ambulance crew dosimetry and **PERFORM** contamination survey of ambulance. **ARRANGE** for decontamination, if necessary.

6.5 Hospital Preparation to Receive Patients

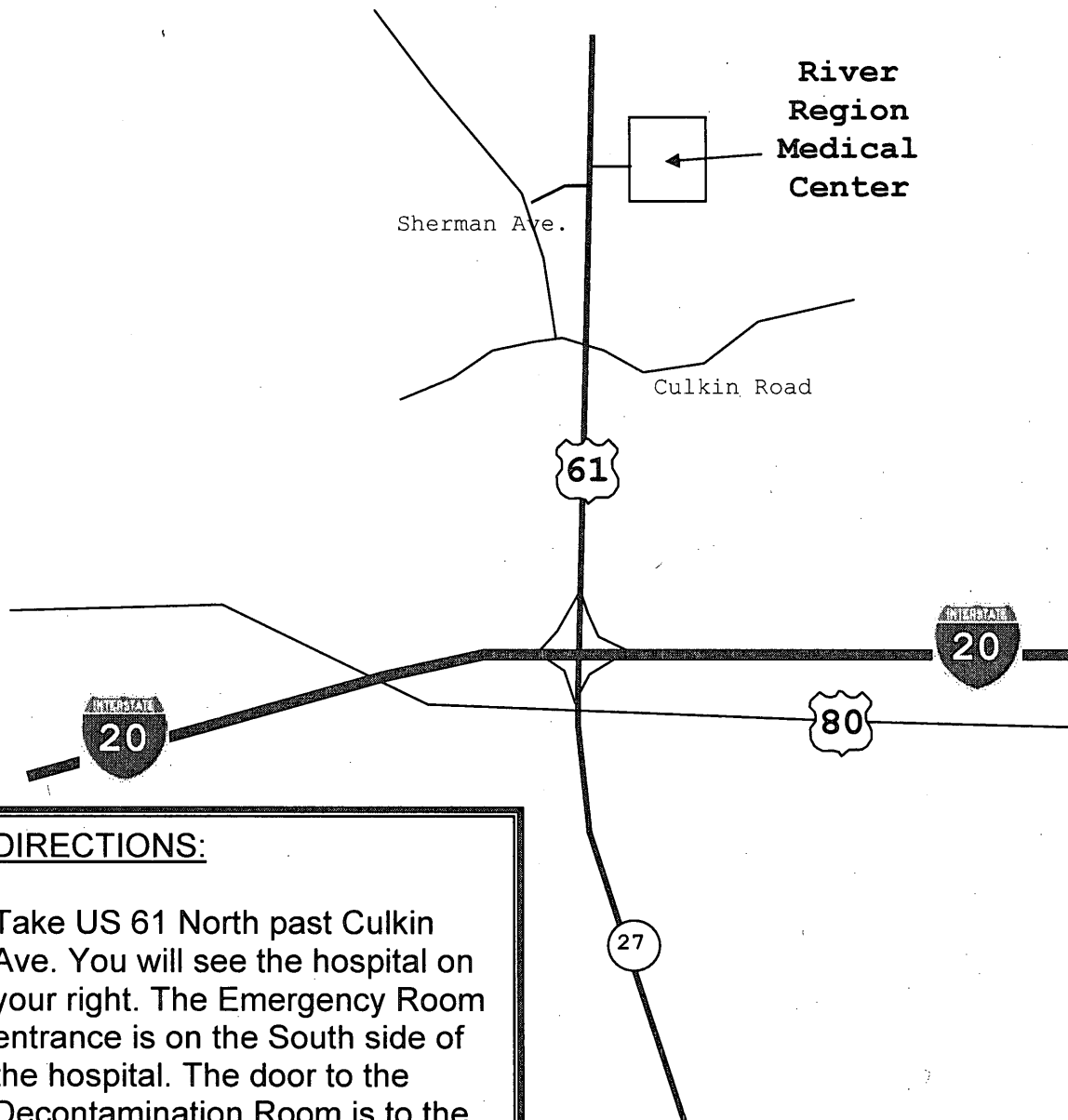
6.5.1 The hospital room REA (Radiation Emergency Area) is normally set up by hospital personnel before the arrival of the patient.

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DIRECTIONS TO
CLAIBORNE COUNTY HOSPITAL



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Attachment II	Page 1 of 1

DIRECTIONS TO RIVER REGION MEDICAL CENTER**DIRECTIONS:**

Take US 61 North past Culkin Ave. You will see the hospital on your right. The Emergency Room entrance is on the South side of the hospital. The door to the Decontamination Room is to the right of the ER entrance.

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Equipment/Facility/Other: Grand Gulf Nuclear Station	
Title: Personnel Injury	

Part I. Description of Activity Being Reviewed (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):

Revision 021:

1. Changes to reporting emergencies and Control Room actions to be consistent with Management Standard #20.
2. Added Medical Facility/Site Nurse to section 2.3 as an option for personnel requiring minor first aid, since this facility/position is manned during outages.
3. Added Plant Occupational Health Nurse to section 6.4.3 list of personnel who may authorize hospital facilities to transport patients to.

Editorial Changes:

4. Add reference to Management Standard #20 – Operating Hard-Card, Control Room Actions for Medical Emergency. (Reference CR-GGN-2016-2247 CA #2)
5. Changed the title River Region Hospital to Merit Health River Region due to a change in the facility name.

Part II. Activity Previously Reviewed?

Is this activity fully bounded by an NRC approved 10 CFR 50.90 submittal or Alert and Notification System Design Report?

If YES, identify bounding source document number/approval reference and ensure the basis for concluding the source document fully bounds the proposed change is documented below:

Justification:

☐ Bounding document attached (optional)

☐ YES

50.54(q)(3)
Evaluation is
NOT required.
Enter
justification
below and
complete Part
VI.

☒ NO

Continue to
next part

Part III. Applicability of Other Regulatory Change Control Processes

Check if any other regulatory change processes control the proposed activity. (Refer to EN-LI-100)

NOTE: For example, when a design change is the proposed activity, consequential actions may include changes to other documents which have a different change control process and are **NOT** to be included in this 50.54(q)(3) Screening.

APPLICABILITY CONCLUSION

- ☒ If there are no controlling change processes, continue the 50.54(q)(3) Screening.
- ☐ One or more controlling change processes are selected, however, some portion of the activity involves the emergency plan or affects the implementation of the emergency plan; continue the 50.54(q)(3) Screening for that portion of the activity. Identify the applicable controlling change processes below.
- ☐ One or more controlling change processes are selected and fully bounds all aspects of the activity. 50.54(q)(3) Evaluation is NOT required. Identify controlling change processes below and complete Part VI.

CONTROLLING CHANGE PROCESSES

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Part IV. Editorial Change Is this activity an editorial or typographical change such as formatting, paragraph numbering, spelling, or punctuation that does not change intent? Justification: Changes #4 & 5 are reference changes and are considered editorial changes according to EN-EP-305 and EN-AD-101. No is checked at the right because the remaining changes are non-editorial.		<input type="checkbox"/> YES 50.54(q)(3) Evaluation is NOT required. Enter justification and complete Part VI.	<input checked="" type="checkbox"/> NO Continue to next part
Part V. Emergency Planning Element/Function Screen (Associated 10 CFR 50.47(b) planning standard function identified in brackets) Does this activity affect any of the following, including program elements from NUREG-0654/FEMA REP-1 Section II?			
1. Responsibility for emergency response is assigned. [1]		<input type="checkbox"/>	
2. The response organization has the staff to respond and to augment staff on a continuing basis (24/7 staffing) in accordance with the emergency plan. [1]		<input type="checkbox"/>	
3. The process ensures that on shift emergency response responsibilities are staffed and assigned. [2]		<input type="checkbox"/>	
4. The process for timely augmentation of onshift staff is established and maintained. [2]		<input type="checkbox"/>	
5. Arrangements for requesting and using off site assistance have been made. [3]		<input type="checkbox"/>	
6. State and local staff can be accommodated at the EOF in accordance with the emergency plan. [3]		<input type="checkbox"/>	
7. A standard scheme of emergency classification and action levels is in use. [4]		<input type="checkbox"/>	
8. Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications. [5]		<input type="checkbox"/>	
9. Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. [5]		<input type="checkbox"/>	
10. The public ANS meets the design requirements of FEMA-REP-10, Guide for Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. [5]		<input type="checkbox"/>	
11. Systems are established for prompt communication among principal emergency response organizations. [6]		<input type="checkbox"/>	
12. Systems are established for prompt communication to emergency response personnel. [6]		<input type="checkbox"/>	
13. Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). [7]		<input type="checkbox"/>	
14. Coordinated dissemination of public information during emergencies is established. [7]		<input type="checkbox"/>	
15. Adequate facilities are maintained to support emergency response. [8]		<input type="checkbox"/>	
16. Adequate equipment is maintained to support emergency response. [8]		<input type="checkbox"/>	
17. Methods, systems, and equipment for assessment of radioactive releases are in use. [9]		<input type="checkbox"/>	
18. A range of public PARs is available for implementation during emergencies. [10]		<input type="checkbox"/>	
19. Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. [10]		<input type="checkbox"/>	
20. A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events. [10]		<input type="checkbox"/>	

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Equipment/Facility/Other: Grand Gulf Nuclear Station	
Title: Personnel Injury	

21. The resources for controlling radiological exposures for emergency workers are established. [11]	<input type="checkbox"/>
22. Arrangements are made for medical services for contaminated, injured individuals. [12]	<input type="checkbox"/>
23. Plans for recovery and reentry are developed. [13]	<input type="checkbox"/>
24. A drill and exercise program (including radiological, medical, health physics and other program areas) is established. [14]	<input type="checkbox"/>
25. Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses. [14]	<input type="checkbox"/>
26. Identified weaknesses are corrected. [14]	<input type="checkbox"/>
27. Training is provided to emergency responders. [15]	<input type="checkbox"/>
28. Responsibility for emergency plan development and review is established. [16]	<input type="checkbox"/>
29. Planners responsible for emergency plan development and maintenance are properly trained. [16]	<input type="checkbox"/>

APPLICABILITY CONCLUSION

- ☐ If no Part V criteria are checked, a 50.54(q)(3) Evaluation is NOT required; document the basis for conclusion below and complete Part VI.
- ☐ If any Part V criteria are checked, complete Part VI and perform a 50.54(q)(3) Evaluation.

BASIS FOR CONCLUSION

Changes #4 & 5 are editorial changes and do not require evaluation.

- Changes to reporting emergencies and Control Room actions to be consistent with Management Standard #20.

This change revises the information the Control Room should request from a caller reporting a medical emergency and adds additional information to the steps taken by the Control Room to respond to the emergency. The planning standards and program elements require that medical services be arranged for contaminated, injured workers but they do not describe the actions taken by the licensee to respond to medical emergencies. This change does not eliminate any medical response equipment or qualifications and does not affect offsite arrangements for medical support including transportation. This change will not affect the planning standards or program elements in 10CFR50.470 (b)[12] and does not need an evaluation.

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BASIS FOR CONCLUSION (continued)

- Added Medical Facility/Site Nurse to section 2.3 as an option for personnel requiring minor first aid, since this facility/position is manned during outages.

Normally first aid cases are handled by RP personnel. During outages, when we have an increase in workforce, Grand Gulf may set up a site medical facility and/or staff a site nurse position to facilitate the expected increase in first aid and/or medical emergency cases. This procedure change allows personnel requiring first aid to report to the site medical facility or site nurse, if staffed, rather than limiting them to report to the RP department.

- The planning standards and program elements in 10CFR50.47 (b)[10] require a range of protective actions be available for plant workers, but does not specify the location or staffing of site first aid stations or medical facilities so this change will not affect the sites ability to meet the requirements of 10CFR50.47 (b)[10] .
- This change does not reduce the number of first aid qualified personnel and does not reduce the on-shift staffing as required in 10CFR50.47 (b)[2] or NUREG 0654 table B-1. this change will not affect the sites ability to meet the requirements of 10CFR50.47 (b)[2] .
- This change does not reduce the amount or location of medical equipment and supplies and will not affect the sites ability to meet the requirements of 10CFR50.47 (b) [8].
- This change does not affect the arrangements in place for medical services for contaminated and injured individuals and will not affect the sites ability to meet the requirements of 10CFR50.47 (b) [12].

This change will not affect any of the planning standards or program elements in 10CFR50.470 (b) and does not require an evaluation.

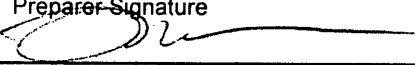
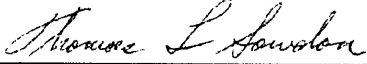
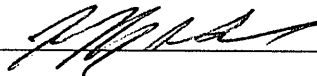
- Added Plant Occupational Health Nurse to section 6.4.3 list of personnel who may authorize which hospital facilities to which patients are transported.

Section 6.1.3 of 10-S-01-19 describes the process for selecting hospitals during non-radiological emergencies and lists the medical facilities personnel should be transported to life-threatening or non-life-threatening injuries. This section states that Plant Safety and EMT personnel may also authorize hospital locations. This change adds the plant Occupational Health Nurse to that group. This section only applies to non-contaminated individuals.

- 10CFR50.47 (b) [12] requires licensees to ensure arrangements are made for medical services for contaminated, injured individuals. These arrangements would include hospitals and other offsite medical facilities. 10-S-01-19 lists these facilities in section 6.4.1. The change being made to 10-S-01-19 will not affect this list or the process for determining which hospital to transport contaminated individuals to. This change will not affect the sites ability to meet the requirements of 10CFR50.47 (b)[12] .
- The planning standards and program elements in 10CFR50.47 (b)[10] require a range of protective actions be available for plant workers, but does not specify the position that should determine what medical facilities to use. This change will not affect the sites ability to meet the requirements of 10CFR50.47 (b)[10] .

The changes being made to 10-S-01-19 will not affect any of the 10CFR50.47 (b) planning standards or program elements. This change may be made without prior NRC approval and does not need a 10CFR50.54q evaluation.

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Equipment/Facility/Other: Grand Gulf Nuclear Station	
Title: Personnel Injury	

Part VI. Signatures:		
Preparer Name (Print) Richard Van Den Akker	Preparer Signature 	Date: 4-21-16
(Optional) Reviewer Name (Print)	Reviewer Signature	Date:
Reviewer Name (Print) Tom Sowdon Nuclear EP Project Manager	Reviewer Signature 	Date: 4-22-2016
Approver Name (Print) JEFF SOWDON EP manager or designee	Approver Signature 	Date: 5/2/16