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US Nuclear Regulatory Commission
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MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Emergency Plan Implementing Procedures

Furnished with this letter is a revision to the Monticello Nuclear Generating Plant Emergency Plan Implementing Procedures. The following issues are new or revised:

<u>Procedure No.</u>	<u>Procedure Title</u>	<u>Revision No.</u>
A.2-301	Emergency Evacuation	12

Please post changes in your copy of the Monticello Nuclear Generating Plant Emergency Plan Implementing Procedures. Superseded procedures should be destroyed.

- This letter contains no new NRC commitments, nor does it modify any prior commitments.

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1.0 PURPOSE

This procedure provides instruction for implementing an emergency evacuation of affected areas within the plant and adjacent areas on-site. These instructions may also be applied to evacuations related to other hazards affecting habitability such as fire, toxic gas, radioactive spills, etc., but are limited to only evacuations occurring within the Monticello Nuclear Generating Plant site boundaries. This procedure satisfies NRC commitment M85011A.

2.0 APPLICABILITY

- 2.1 Hazardous conditions exist (not withstanding an emergency classification) which requires a local or plant evacuation of affected areas, or,
- 2.2 A Site Area or General Emergency classification has been declared which requires a plant or site evacuation.

3.0 ORGANIZATION AND RESPONSIBILITIES

- 3.1 The Emergency Director (duty Shift Manager until relieved) is responsible for:
 - 3.1.1 Decision to conduct a plant or site evacuation.
 - 3.1.2 Implementation of this procedure when the TSC is not fully staffed and activated.
- 3.2 The Security Group Leader is responsible for:
 - 3.2.1 The implementation of this procedure after the TSC is staffed and activated.
 - 3.2.2 Coordination of personnel accountability process in accordance with A.2-205 (PERSONNEL ACCOUNTABILITY).
 - 3.2.3 Provide Security Force assistance at the on-site Assembly Point.
 - 3.2.4 Coordination of traffic control and issuance of evacuation instruction maps to evacuees departing the plant site.
- 3.3 The Radiological Emergency Coordinator is responsible for:
 - 3.3.1 Control of access to evacuated areas.
 - 3.3.2 Provide Rad Prot Spec assistance at the on-site and off-site Assembly Point(s).
 - 3.3.3 Coordination of on-site personnel monitoring and decon.

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3.3.4 Coordination of off-site personnel and vehicle monitoring and decon until the RPSS is staffed.

3.3.5 Coordinate the movement (of evacuees from the site to an off-site Assembly Point) with local authorities (county EOC).

4.0 **DISCUSSION**

There are three types of evacuations that may be implemented during an emergency at the MNGP. They are Local, Plant, and Site Evacuation and all are intended to minimize or prevent personnel injury, exposure or contamination.

During a local evacuation, personnel evacuate the affected area (e.g., a room, building, etc.) and personnel accountability would occur at a location outside the affected area (usually Main Access Control).

A plant evacuation involves personnel evacuating all buildings within the Protected Area except the Control Room, TSC, OSC, Access Control, SAS and the Guardhouse. Evacuating personnel are directed, by plant PA announcement to assembly at the on-site Assembly Point where personnel accountability and monitoring would be performed. Upon completion of the accountability process, search and rescue may be implemented for any personnel that remain unaccounted for. The evacuees at the Assembly Point may be directed to either: 1) return to their work stations, or 2) go home (if a contaminating event is not occurring), or 3) proceed to an off-site Assembly Point for personnel and vehicle monitoring and decon (if a contaminating event is occurring). When evacuees at the Assembly Point are sent home or to an off-site Assembly Point the Security Force coordinates an evacuation of the remaining site buildings outside the Protected Area within the Owner-Controlled Area.

In the event of Site Evacuation, personnel evacuate the site directly to an off-site Assembly Point where personnel and vehicle monitoring is performed. During the site evacuation the Security Force coordinates the evacuation of all site buildings outside the Protected Area within the Owner-Controlled Area.

5.0 **PRECAUTIONS**

- 5.1 ALARA principles **SHALL** be adhered to prior to initiating an evacuation. Considerations should be given to 1) radiological conditions at the Assembly Points, on-site and along evacuation routes; and 2) whether these conditions can be mitigated prior to personnel receiving significant exposure.
- 5.2 Plant or Site evacuations should be initiated either before or after the passage of a release, and evacuation routes should be chosen such that personnel travel away from the path of the plume.
- 5.3 If personnel are injured, refer to Procedure A.5-100 (ON-SITE MEDICAL EMERGENCIES). If a person is suspected of receiving a significant dose refer to EPIP A.2-401 (EMERGENCY EXPOSURE CONTROL).

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- 5.4 The safety of personnel takes precedence over the monitoring of personnel and vehicles for contamination control purposes. The monitoring of personnel and vehicles should be terminated (or not implemented) if monitoring may increase the hazard to personnel.
- 5.5 If conditions permit, personnel and vehicle monitoring should be conducted at one or more of the on-site or off-site Assembly Points. The selection of monitoring locations other than the designated Assembly Point should be based on ALARA considerations.

6.0 INSTRUCTIONS

6.1 Local Evacuation

- 6.1.1 Initiate a local evacuation of the affected area(s) if any of the following criteria is met:
- A. A report of a fire or excessive smoke.
 - B. Alarms/indications or visual observations indicate hazardous conditions in an area of the plant.
 - C. Report of a significant unexplained increase in the level of radiation or airborne activity in a work area.
 - D. Report of a major radioactive spill.
 - E. Other unusual conditions which may jeopardize the health and safety of personnel on-site.

NOTE: A Local Evacuation may be initiated by personnel in the affected area in response to observed conditions, instrument indications or locally alarming radiation monitors.

- 6.1.2 Direct the Control Room to make the following announcement including any specific evacuation instructions over the plant's Public Address System (using PA access 305). Repeat the PA announcement as necessary to ensure all plant personnel are informed.

"ATTENTION ALL PERSONNEL, THERE IS A (specify hazard) IN THE (specify area). ALL PERSONNEL SHOULD EVACUATE THE (specify area) AND STAY CLEAR OF THE (specify area)."

- 6.1.3 Initiate Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).
- 6.1.4 Assess the affected area to assure all personnel have exited the area by completing or directing a brief search of the area if necessary.

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- 6.1.5 Direct the Radiation Protection Group to assume control of entries to the effected area for exposure control purposes.

NOTE: When the hazardous conditions have cleared, allow normal access to the area or establish appropriate access control measures for restricted entries.

- 6.1.6 Complete Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).

6.2 Plant Evacuation

NOTE: The checklist used with this procedure **SHOULD** be completed, although the completion of the checklists **SHALL NOT** delay evacuation.

- 6.2.1 Initiate Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).
- 6.2.2 If not already designated, direct the engineering group leader to assign an Assembly Point Coordinator and direct the coordinator to implement procedure A.2-302 (ACTIVATION OF THE ASSEMBLY POINT) if not already implemented.
- 6.2.3 Direct the Radiological Emergency Coordinator to provide personnel (1 Rad Prot Spec minimum) for monitoring and assistance at the Assembly Point.
- 6.2.4 Implement the applicable section of procedure A.2-205 (PERSONNEL ACCOUNTABILITY).

NOTE: The accountability process should be completed within 30 minutes of the evacuation announcement.

NOTE: In case of station blackout, evacuation siren operation should be limited to < 1 minute of operation to conserve battery capacity.

- 6.2.5 Direct the Control Room to activate the evacuation siren and make the following announcement on the site Public Address System using PA access 305. Repeat the PA announcement at least 3 times to ensure all personnel hear the evacuation instructions.

“ATTENTION, ALL PLANT PERSONNEL. THIS IS A PLANT EVACUATION. ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR DUTY STATIONS. ALL OTHER PERSONNEL OBTAIN PERSONAL VEHICLE KEYS (IF CONVENIENT) AND PROCEED IMMEDIATELY TO THE ON-SITE ASSEMBLY POINT.”

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NOTE: This message should be **REPEATED** and additional instructions provided as required.

- 6.2.6 Ensure evacuation of the following areas where the PA system and plant evacuation siren are inaudible:
 - A. 3rd Floor Admin Heating and Ventilation Room
 - B. Radwaste Shipping Building
- 6.2.7 Direct the Radiological Emergency Coordinator to assume control of access to the affected area(s) for exposure control purposes and to implement procedures A.2-407 (PERSONNEL AND VEHICLE MONITORING AND DECONTAMINATION), A.2-201 (ON-SITE PROTECTIVE ACTION).
- 6.2.8 Immediately upon completion of the accountability process determine if any personnel remain unaccounted for or are missing. If so, immediately implement search and rescue IAW EPIP A.2-303 (SEARCH AND RESCUE).
- 6.2.9 When the personnel accountability process is complete direct the REC to coordinate the removal of non-essential personnel from the site IAW the following criteria:
 - A. If no contaminating event (e.g., radioactive airborne release, etc.) has occurred or is occurring the evacuees may be unconditionally released (e.g., proceed home, etc.).
 - B. If a contaminating event is occurring or has occurred at the time the evacuees are released, they should be instructed to proceed directly to an off-site Assembly Point for vehicle monitoring.

NOTE: The evacuation of personnel off-site should be coordinated with the EOF if activated. The REC (TSC) and the RPSS (EOF) should determine, based on staffing and other activities in progress, which response center will coordinate the evacuation.

- C. If a contaminating event is occurring or has occurred, direct the Assembly Point Coordinator and Rad Prot Spec assigned to the on-site assembly point to obtain the necessary equipment IAW A.2-407 and lead the procession of evacuating personnel to the off-site assembly point for monitoring.
- 6.2.10 If an off-site Assembly Point will be used, direct the REC to inform the local authorities (i.e., county Sheriff or county EOC if activated), of the Assembly Point location and travel route to be used by the site evacuees. (Verify with the local authorities that travel routes are travelable.)
- 6.2.11 Initiate an orderly evacuation of all non-ERO personnel in the Owner Controller Area, including the Site Administration Building, Guardhouse and any trailers or temporary office structures on-site.

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- 6.2.12 If personnel are evacuated from the site assembly point to an off-site assembly point, provide security personnel for on-site traffic control and issue maps which indicate the desired travel route to the off-site assembly point.

NOTE: Security should provide each vehicle evacuating the site with a map of the off-site Assembly Point locations and indicate the evacuation route. Form 5790-301-04 (SITE EVACUATION INSTRUCTIONS)

- 6.2.13 Complete Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).

6.3 Site Evacuation

CAUTION

The conditions under which a Site Evacuation would be initiated could involve significant releases with resultant ground contamination off-site. Under these conditions, delaying Site Evacuation to perform Personnel/Vehicle contamination monitoring is inadvisable due to the potential for re-contamination. In this case, personnel should be instructed to proceed directly off-site to a designated "upwind" Assembly Point. If all designated off-site Assembly Points are within evacuated (general public) sections, MNGP in cooperation with state and county authorities, will designate an Assembly Point where Personnel/vehicle monitoring will be performed.

- 6.3.1 Initiate Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).

NOTE: The checklists used with this procedure **SHOULD** be completed, although the completion of the checklists **SHALL NOT** delay evacuation.

- 6.3.2 With the assistance of the REC and/or the ED, select an off-site assembly point. Wind direction should be the primary consideration in the selection process, although other conditions, such as release activity and timing of the release may be considered.

NOTE: The evacuation of personnel from the site should be coordinated with the EOF if activated.

- 6.3.3 Direct the REC to inform the local authorities (county Sheriff or county EOC if activated) of the off-site Assembly Point location and evacuation route used by site evacuees. Verify the route is permissible for travel.

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- 6.3.4 Direct the Radiological Emergency Coordinator to establish appropriate radiological monitoring stations consistent with the above guidelines and procedure A.2-407 (PERSONNEL AND VEHICLE MONITORING AND DECONTAMINATION).

CAUTION

Traffic control personnel (security) should be equipped with respiratory and protective clothing appropriate for actual or anticipated conditions.

- 6.3.5 Provide security personnel for on-site traffic control. Security personnel should provide a copy of Form 5790-301-04 (SITE EVACUATION INSTRUCTIONS) identifying the appropriate evacuation route to all evacuating personnel.
- 6.3.6 Implement the applicable portion of procedure A.2-205 (PERSONNEL ACCOUNTABILITY) is implemented.
- 6.3.7 Direct the Control Room to activate the evacuation siren and make **ONE** of the following announcements on the site Public Address System using PA access 305. Repeat the PA announcement at least three times to ensure all personnel hear the evacuation instructions.

“ATTENTION ALL PERSONNEL, ALL PERSONNEL EXCEPT THOSE WITH EMERGENCY DUTY ASSIGNMENTS **SHALL** PROCEED TO THE PERSONNEL MONITORING STATION AT (specify location), AND THEN PROCEED TO YOUR VEHICLES AND DRIVE TO THE VEHICLE MONITORING AREA AT (specify location). ONCE RELEASED, PROCEED TO (specify location and route) AND AWAIT FURTHER INSTRUCTIONS.

OR

“ATTENTION ALL PERSONNEL. ALL PERSONNEL EXCEPT THOSE WITH EMERGENCY DUTY ASSIGNMENTS **SHALL** EVACUATE THE SITE IMMEDIATELY. PROCEED IN YOUR VEHICLE TO (specify location and route) AND AWAIT FURTHER INSTRUCTIONS.”

NOTE: The message should be **REPEATED** and additional instructions provided as required.

NOTE: The accountability process should be completed within 30 minutes of the evacuation announcement.

- 6.3.8 Direct the Radiological Emergency Coordinator to assume control of access to the affected area(s) for exposure control purposes and to implement procedures A.2-407 (PERSONNEL AND VEHICLE MONITORING AND DECONTAMINATION), A.2-201 (ON-SITE PROTECTIVE ACTION) and A.2-411 (ESTABLISHMENT OF A SECONDARY ACCESS CONTROL POINT).

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- 6.3.9 Initiate an orderly evacuation of personnel in the Owner Controller Area, including the Site Administration Building, Guardhouse and any trailers or temporary office structures on-site.
- 6.3.10 Immediately upon completion of the accountability process determine if any personnel remain unaccounted for or are missing. If so, immediately implement search and rescue EPIP A.2-303 (SEARCH AND RESCUE) operations to locate or rescue missing personnel.
- 6.3.11 Complete Form 5790-301-01 (EMERGENCY EVACUATION CHECKLIST).

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7.0 FIGURES

FIGURE

7.1 Bases

Section 6.2.4 & 6.3.6 Notes	<p>Bases</p> <p>The requirement to establish accountability within 30 minutes is identified in NUREG 0654 (J.5). MNGP has identified the page announcement indicating that a Plant or Site Evacuation is being conducted as the starting point for the 30 minute accountability clock. This interpretation is consistent with industry standards.</p>
6.2.5 Note	<p>The requirement to limit evacuation siren to < 1 minute is an assumption in battery calculations CA-91-046 & CA-91-012.</p>

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FIGURE

7.2 Forms Utilized in this Procedure

1. 5790-301-01 Emergency Evacuation Checklist
2. 5790-301-04 Site Evacuation Instructions