NRC 2003-0017

March 5, 2003

Document Control Desk
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington DC 20555

Ladies/Gentlemen:

DOCKETS 50-266 AND 50-301
EMERGENCY PLAN IMPLEMENTING PROCEDURE REVISIONS
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

Enclosed are copies of revised procedures to the Point Beach Nuclear Plant Emergency Plan Implementing Procedures. The revised procedures dated February 11, 2003 and February 21, 2003 should be filed in your copy of the manual.

Sincerely,

A.J. Cayia
Site Vice President

FAF/kmd

Enclosures

cc: NRC Resident Inspector (w/o/e)
Incident Response Center, Region III

A045

INDEX

1.0 DISCUSSION

This section of the Emergency Plan describes the organizational controls available to respond to an emergency. Authorities and responsibilities of key individuals and groups are delineated. Communication links for notifying, alerting, and mobilizing emergency personnel are described.

2.0 NORMAL PLANT ORGANIZATION

If both units are in a condition other than cold shutdown or refueling shutdown, each operating shift consists of 10 or 11 qualified individuals as shown in Figure 5-1.

2.1 The Shift Manager, who holds a Senior Reactor Operator (SRO) license, is in direct charge of all plant operations during his assigned shift and is directly responsible for actions of the crew.

2.2 Two Operating Supervisors hold Senior Reactor Operator (SRO) licenses.

2.3 Three Control Operators (COs) hold reactor operator licenses. (COs can also serve as AOs, if required.)

2.4 Three or four Auxiliary Operators (AOs) with no license required.

2.5 One Auxiliary Operator (AO) or Auxiliary Operator Trainee (AOT) for fire brigade manning

2.6 There is at least one qualified Radiation Protection Technologist on each shift.

2.7 There is at least one qualified Radiochemical Technologist on each shift.

2.8 One Shift Technical Advisor (STA) is available (within 10 minutes of the Control Room) to assist the Shift Manager in evaluation and assessment.

2.9 A Security Shift Commander is available to serve as a communicator.

If the Shift Manager determines that an Alert or higher emergency exists, the on-shift staff will assume an emergency mode of operation and the remaining Emergency Response Organization shall be activated. Initially, the on-shift staff will be augmented by critical positions that are designated in Figure 5-4 and 5-5. The goal is to accomplish this augmentation within 30 minutes.

Additional ERO personnel will be in place such that activation of TSC and EOF will be within one hour.

The Shift Manager will direct plant response, assess and control the emergency, and initiate the required plant and offsite notifications in accordance with Figures 5-6 and 5-7. If the Shift Manager is incapacitated, the Operating Supervisor will assume the responsibility and authority of the Shift Manager (until relieved by a qualified individual) and coordinate the plant response, including the initiation of offsite notifications.

3.0 ONSITE EMERGENCY RESPONSE ORGANIZATION (ERO)

This section of the Emergency Plan describes the responsibilities of the onsite personnel during an event classified to be an Unusual Event or higher.

3.1 Direction and Coordination

The Shift Manager will be in the Control Room and maintain responsibility for operation of plant equipment and controls during emergency conditions other than fires. The Shift Manager's emergency classification will be determined by the EALs (Appendix B). The Shift Manager will assume the responsibility of the Emergency Director (ED) and continue to assess the emergency until relieved of this responsibility by a qualified Emergency Director. If the incident is classified as an Alert or higher, the appropriate emergency response facilities as shown in Figures 5-4 through 5-5 will be activated.

Upon activation of the TSC, the TSC Manager will assume responsibility for all onsite activities and personnel not directly related to plant operation. He will report to the Control Room initially for a briefing then transfer to and activate the TSC. The TSC Manager will coordinate activities involving the Control Room, TSC, OSC, and Security Building. The TSC will assume parallel emergency assessment responsibility with the Control Room and will evaluate plant conditions and onsite radiological conditions. Based upon this evaluation, the TSC Manager will recommend classification changes to the Emergency Director.

3.2 Plant Staff Emergency Assignments

Personnel are selected and assigned to fill ERO positions based on background training and experience. The organization for each emergency classification is shown in Figures 5-3 through 5-5. Appendix A lists a general summary of the emergency assignments, by title, responsibilities, and principle, working relationships. A brief description of the emergency organization at different emergency classes:

3.2.1 Unusual Event (Figure 5-3)

This emergency organization consists of normal shift personnel. Additional communications may be assigned as required. Appropriate procedures assigned to the Control Room will be accomplished under the direction of the Shift Manager. Staff augmentation for additional support will take place on a case-by-case basis.

3.2.2 Alert (Figure 5-4)

Upon activation of the emergency response facilities, responsibility for classification, assessment, evaluation, and recovery will be transferred from the Shift Manager. The Operations Coordinator will assume responsibility for assessment and evaluation of the plant condition. Onsite radiation surveys and monitoring will be conducted under the direction of the Rad/Chem Coordinator. The Operations Support Center Coordinator will assume responsibilities for maintenance and repair coordination and search and rescue. Management personnel will coordinate any limited plant evacuation and ensure accountability of their personnel. The TSC and EOF will be activated in one hour. Offsite radiation surveys will be initiated as necessary from the OSRPF under the coordination of the Offsite Radiation Protection Coordinator. These surveys will be under the direction of the Dose/PAR Coordinator in the EOF. Upon activation of the EOF, the Emergency Director will assume overall responsibility for the emergency response and recovery. A liaison will be provided to state and local government agencies EOCs to assist in communications.

Other personnel also report to the TSC and EOF to assist in the emergency response operations. Additional personnel will provide logistic, administrative, and scheduling support. These personnel will ensure 24-hour continuity for minimum staff positions. In addition, the JPIC will activate to provide periodic updates to the media and public

3.2.3 Site and General Emergency (Figure 5-5)

In addition to the actions taken at an Alert, to ensure accountability of personnel within the protected area, an assembly and accountability of all personnel within the protected area and exclusion areas will be initiated. Non-essential personnel will be released, if conditions allow. An evacuation of non-essential personnel to offsite assembly areas may be initiated if radiological or other hazards require additional actions.

In addition to actions taken for a Site Emergency, a General Emergency may require extensive amounts of external resources. To ensure this, the NMC headquarters may be contacted to provide or assist with offsite technical support.

4.0 OFFSITE EMERGENCY RESPONSE

This section describes offsite supporting assistance available to the onsite staff emergency response organization.

4.1 Wisconsin Electric (WE-Owner Company) and Nuclear Management Company (NMC-Operating Company) Relationship and Support

Most emergency response organization (ERO) positions are filled by personnel assigned to the Point Beach Nuclear Plant (PBNP). The PBNP normal operations staffing, as shown in Figure 5-2, has available the technical and administrative support services of the NMC and WE management and support organizations as outlined in the Nuclear Power Plant Operating Services Agreement (NPPOSA). The Emergency Director will identify situations where additional assistance is needed and will relay the emergency assistance information to NMC management for evaluation.

The NMC will provide to, or obtain assistance for, the onsite emergency organization as required. These responsibilities include, but are not limited to:

4.1.1 Providing senior company management support to the plant emergency organization.

4.1.2 Providing funds necessary to implement the PBNP Emergency Plan.

4.1.3 Providing contract security management direction and support for offsite facilitates.

4.1.4 Coordinating the restoration and/or operation of all generation, transmission, and distribution facilities.

4.1.5 Monitoring reentry and/or recovery operations, post-accident planning, and assisting as requested.

4.1.6 Assisting with post-accident investigation and review responsibilities.

4.1.7 Providing general assistance for environmental monitoring.

4.2 Local Services Support

During the operation of PBNP, it may become necessary to request and utilize assistance provided by local organizations and agencies. Since it is essential that support from these organizations and agencies be available, the following agreements and understandings have been made. (Letters of Agreement are referenced in Appendix D.)

4.2.1 Two Creeks Volunteer Fire Department

When requested, the Two Creeks Volunteer Fire Department will provide fire fighting assistance at PBNP.

4.2.2 Town of Two Creeks

The Township of Two Creeks will make available to PBNP, the Two Creeks Town Hall to be used as required during an emergency at PBNP.

4.2.3 Aurora Medical Center - Manitowoc County

The Aurora Medical Center - Manitowoc County will provide medical assistance to PBNP personnel. The agreement provides for the treatment of personnel who suffer injuries complicated by radioactive contamination or radiation. Individuals may be transferred to the University Hospital and Clinics in Madison, Wisconsin, should the treatment required extend beyond the capabilities of the Aurora Medical Center - Manitowoc County. The Aurora Medical Center - Manitowoc County will maintain the capability and facilities to provide decontamination, first aid, and emergency stabilization medical treatment to injured personnel from PBNP. These services and facilities are available 24 hours a day.

4.2.4 City of Two Rivers

The City of Two Rivers will provide ambulance service to transport injured persons from PBNP.

4.2.5 University of Wisconsin Hospital and Clinics

The University of Wisconsin Hospital and Clinics will accept and provide treatment to personnel with injuries beyond the capabilities of the Aurora Medical Center - Manitowoc County, even if complicated by radioactive contamination. The University of Wisconsin Hospital and Clinics are available 24 hours a day for treatment or consultation.

4.2.6 Two Rivers Clinic, Ltd.

At least two licensed physicians of the Two Rivers Clinic, Ltd., Two Rivers, Wisconsin, will provide medical supervision and care for employees of PBNP who have medical conditions complicated by exposure to radiation. Both doctors have received training qualifying them to care for this type of patient.

4.2.7 Manitowoc County Sheriff's Department

When alerted, the Manitowoc County Sheriff's Department will respond within 10-20 minutes and will:

a. Assist in controlling traffic for the duration of the emergency.

b. Assist the PBNP staff in keeping members of the general public from entering the PBNP exclusion area.

c. Provide assistance in security-related matters.

d. Implement protective actions as directed by Wisconsin Emergency Management (WEM).

e. Provide augmented notification capability.

f. Provide for dispatch of ambulance services.

4.2.8 Wisconsin Public Service Corporation

The Kewaunee Nuclear Power Plant (KNPP) laboratory facility will provide assistance for radiological and chemical sample analysis for air, water and other needed samples during a radiological emergency at PBNP. KNPP will provide the use of their site boundary facility (SBF) located about one mile west of KNPP if the PBNP SBCC is unavailable.

NMC/WE and WPS have an agreement to jointly use the facilities located at the WPS Green Bay Division Office, 700 North Adams Street, Green Bay, WI, as a Joint Public Information Center and as an alternate location for the PBNP Emergency Operations Facility.

4.2.9 Kewaunee County Sheriff's Department

When alerted, the Kewaunee County Sheriff's Department will respond within 10-20 minutes, and will:

a. Assist in controlling traffic for the duration of the emergency.

b. Assist the PBNP staff in keeping members of the general public from entering the PBNP exclusion area.

c. Provide assistance in security-related matters.

d. Implement protective actions as directed by Wisconsin Emergency Management (WEM).

4.2.10 Mishicot Area Ambulance Service

Mishicot Area Ambulance Service will provide ambulance service to transport injured persons from PBNP.

4.2.11 National Weather Service

The National Weather Service will provide backup meteorological data for PBNP should our instrumentation become inaccessible or inoperable.

4.2.12 Westinghouse Electric Corporation

Upon request, Westinghouse will provide emergency technical assistance, including equipment and/or services, in support of PBNP in the unlikely event of an emergency.

4.2.13 INPO

In the event of an emergency, INPO will provide resources to assist in acquiring the help of other industry organizations.

4.2.14 Bechtel Power Corporation

Upon request, Bechtel will provide technical assistance to PBNP.

5.0 COORDINATION WITH PARTICIPATING AGENCIES

This section identifies the principal state agency (designated state authority) and other governmental agencies (local, state, and federal) having planning and/or implementation responsibilities for emergencies in the PBNP emergency planning zone.

5.1 State and Local Agencies

5.1.1 Wisconsin Department of Military Affairs, Wisconsin Emergency Management (WEM)

The Administrator of the WEM, Department of Military Affairs, has been designated by the Governor of the State of Wisconsin as the state officer to assume the primary responsibility and authority for radiological emergency response planning. The WEM is to exercise principal supportive roles, in addition to other state agencies, whose involvement will be coordinated by the WEM. The WEM will brief the governor as to the situation and actions taken by the federal, state, and local agencies and activate the state emergency operating center (EOC) in the Department of Military Affairs Office Building in Madison, if necessary.

5.1.2 Wisconsin Department of Health and Family Services, Radiation Protection Section (RPS)

The Radiation Protection Section (RPS), Department of Health and Family Services, under the Radiation Protection Act, WIS STATS 140.50 to 140.60, is responsible to prevent exposure to ionizing radiation in amounts which are detrimental to health according to nationally accepted standards. The state designates a State Radiological Coordinator (SRC) of the State Radiological Response Team for peacetime radiological emergencies. The SRC is experienced in the area of radiological health and is a staff member of the Radiation Protection Unit. Team members are personnel of the unit as designated by the SRC, augmented by selected personnel from the WEM and other state agencies trained specifically for radiological incidents. They will do the following: conduct an initial survey to determine direct radiation levels and/or the severity and extent of the contaminated area, including soil, food and crop samples by taking readings and samples for analysis and making food chain dose estimates; advise how decontamination of the area should be accomplished; and assist in checking the evacuees of an involved area for contamination or exposure.

5.1.3 Wisconsin Department of Transportation, Division of State Patrol (SP)

The Wisconsin State Patrol supports the Division of Highways and local law enforcement services directing vehicular and pedestrian movement out of and around the area of the incident, controlling access into the area and providing security at the site. All of the SP field cars have standard civil preparedness radiation monitoring survey meters and all troopers have been trained in their use. Some troopers have been trained as radiological defense officers. All troopers are trained in handling vehicular accidents involving hazardous materials. The SP academy also conducts courses available to local law enforcement officers for their training in these techniques. Besides mobile radios in all Division of Enforcement and Inspection vehicles, the Office of Transportation Safety has a communication van which can serve as a forward command post at the site. Each district has a supply of walkie-talkies on a dedicated frequency that is available through emergency police services for local and state emergency communications at the site of an incident. The SP is available for courier service, by motor vehicle, for taking the state radiological response team to the site, and delivering samples to the State Laboratory of Hygiene for analysis, if necessary, to expedite the response.

5.1.4 Wisconsin Department of Natural Resources, Division of Enforcement

The conservation wardens of the Division of Enforcement, Department of Natural Resources, can support the local law enforcement services as does the SP. There are standard civil preparedness radiation monitoring survey meters distributed among the wardens. About 6 to 12 wardens in each district receive some training in survey instrument use. The wardens have mobile radios in their cars on the SP frequency. The Department can provide courier service, by motor vehicles and plane, to take the State Radiological Response Team to the site if necessary to expedite the response.

5.1.5 Wisconsin Department of Transportation, Division of Highways

The Division of Highways, Department of Transportation, is responsible, when so ordered by the Administrator of WEM , for implementing the Emergency Highway Traffic Regulation Plan when, as a result of a radiological incident, a large area is cordoned off by the law enforcement services and vehicular traffic is directed to other roads.

5.1.6 Wisconsin Department of Agriculture

The Department of Agriculture has standard civil preparedness radiation monitoring survey meters and personnel trained in survey instrument use. Trained personnel are based in Madison, Barron, Green Bay, and Burlington. Under the Hazardous Substances Act, 100.37, the Department can ban the sale of foods which have harmful levels of radioactivity. The Department can advise the use, sale, or disposal of animal feeds containing harmful levels of radioactive contamination. The Department can gather samples of milk and crops to determine radionuclide and related stable element concentrations, and can advise dairies as to the disposition of milk, farmers as to the feeding of their cows, and growers as to restoring land to productivity. Arrangements can be made by the Department with respect to handling of animals exposed to radioactive contamination.

5.1.7 Wisconsin Department of Military Affairs

Section 21.11 of the Wisconsin Statutes contains the authority for the governor to order all or any part of the Wisconsin National Guard personnel and/or equipment into active State service for public emergencies, disturbances or disasters. Because of the relatively short duration and reaction time needed in a radiological incident, the National Guard, under the Department of Military Affairs, will be involved in such incidents only if the size of the area involved requires their support. The National Guard could provide additional traffic control, communications, emergency provisions of food, radiological monitoring and decontamination services. The Army National Guard has helicopters stationed in Madison and West Bend. If so ordered by the governor, these can provide aerial reconnaissance and surveillance, insertion of personnel and equipment, aerial evacuation, aerial supply, illumination, communications, and command and control. The Air National Guard has fixed wing aircraft at Madison and Milwaukee and, if so ordered by the governor, could provide services similar to the helicopters with the exception of take-off and landing capabilities and providing illumination. Additional radiation monitoring equipment maintained and operated by the U.S. Army is available at armories throughout the state. Nearly every one of the 72 company-sized units has a 2-5 man team trained in chemical-radiological procedures. In addition, the Two Rivers National Guard Armory is available, if needed, for use as an alternate offsite assembly area for plant and support personnel.

5.1.8 Manitowoc and Kewaunee County

Under the provisions of the Wisconsin Statutes 22.16 and the Manitowoc and Kewaunee County Emergency Government Ordinances, authorities of both counties have the responsibility and authority to coordinate offsite emergency activities in the event of a radiological incident. Each county has prepared a County Radiological Incident Response Plan to carry out this responsibility which is applicable to emergencies at PBNP. These plans are referenced in Appendices F and G.

Upon notification of an emergency at PBNP which requires participation of local or county agencies, each county will activate its emergency organization. Each emergency organization is under the direction of the county board chairman and is composed of representatives from various participating agencies which include, but are not limited to, the county sheriff, county emergency government director, county highway commissioner, fire fighting organizations, and school administrators. The Manitowoc and Kewaunee County Emergency Organization will provide or assist the emergency response activities by the following:

a. Provide notification to county and support agencies and local area residents that an incident has occurred at PBNP, if necessary.

b. Provide liaison and communication capabilities with the plant facility and appropriate federal, state and local organizations.

c. Assist in providing release of accurate public information concerning the offsite consequences of the emergency through all available media. In addition, advise and instruct area residents on what protective actions should be taken.

d. Assist in providing for medical treatment, health and sanitation services, and mass care for members of the general public.

e. Assist in the evacuation of affected offsite locations, if such an action should be required.

5.1.9 Local Water Supply Utilities

In the unlikely event that an accidental discharge of liquid radioactive material occurs into Lake Michigan which exceeds prescribed limits, notification that the event has occurred will be made to the municipal water utilities of Two Rivers, Manitowoc and Green Bay, as well as the State of Wisconsin Emergency Management. These notifications will be made as soon as possible, but no later than 12 hours after the initial start of the release.

5.2 Federal Government

Should an emergency situation or accident occur at PBNP, notification, reports, or requests for assistance may be made to various federal agencies and organizations. Details for notifying and making reports to these agencies, as well as for requesting and obtaining assistance, are provided in the EPIPs. The following agencies may, as the situation warrants, require notification or reports, or provide assistance if required:

5.2.1 NRC Operations Headquarters, Rockville, Maryland

The NRC requires notification as stated in Section 6.0 below.

5.2.2 Nuclear Regulatory Commission (NRC)

Region III Office

5.2.3 Department of Energy (DOE)

The DOE in Region 5 has agreed to provide radiological assistance upon request. This request can be made by the Wisconsin Emergency Management. The Radiological Assistance Team can be expected to respond within 6 hours as directed by the Chicago Operations Office of DOE.

5.2.4 United States Coast Guard

The U.S. Coast Guard can supply local weather information, if necessary.

The U.S. Coast Guard, when requested by the cognizant state or local emergency response agency, will make a marine broadcast and issue a Notice to Mariners, warning all craft of the danger in the area. (Contents of the broadcast to be supplied by the cognizant emergency response agency.)

The U.S. Coast Guard, if requested by the Federal Emergency Management Agency or its designated representative will consider additional assistance on a case-by-case basis. The decision to commit Coast Guard resources will be made by the Commander, Ninth Coast Guard District.

6.0 NUCLEAR REGULATORY COMMISSION (NRC) NOTIFICATION

Telephone notification of the NRC Headquarters and NRC Region III shall be made as soon as possible, for any significant event as listed in 10 CFR 50.72 and 10 CFR 73. Notification of the NRC under this section does not necessarily mean the Emergency Plan has been implemented.

7.0 METHODS OF NOTIFICATION

7.1 Notification of Offsite Agencies

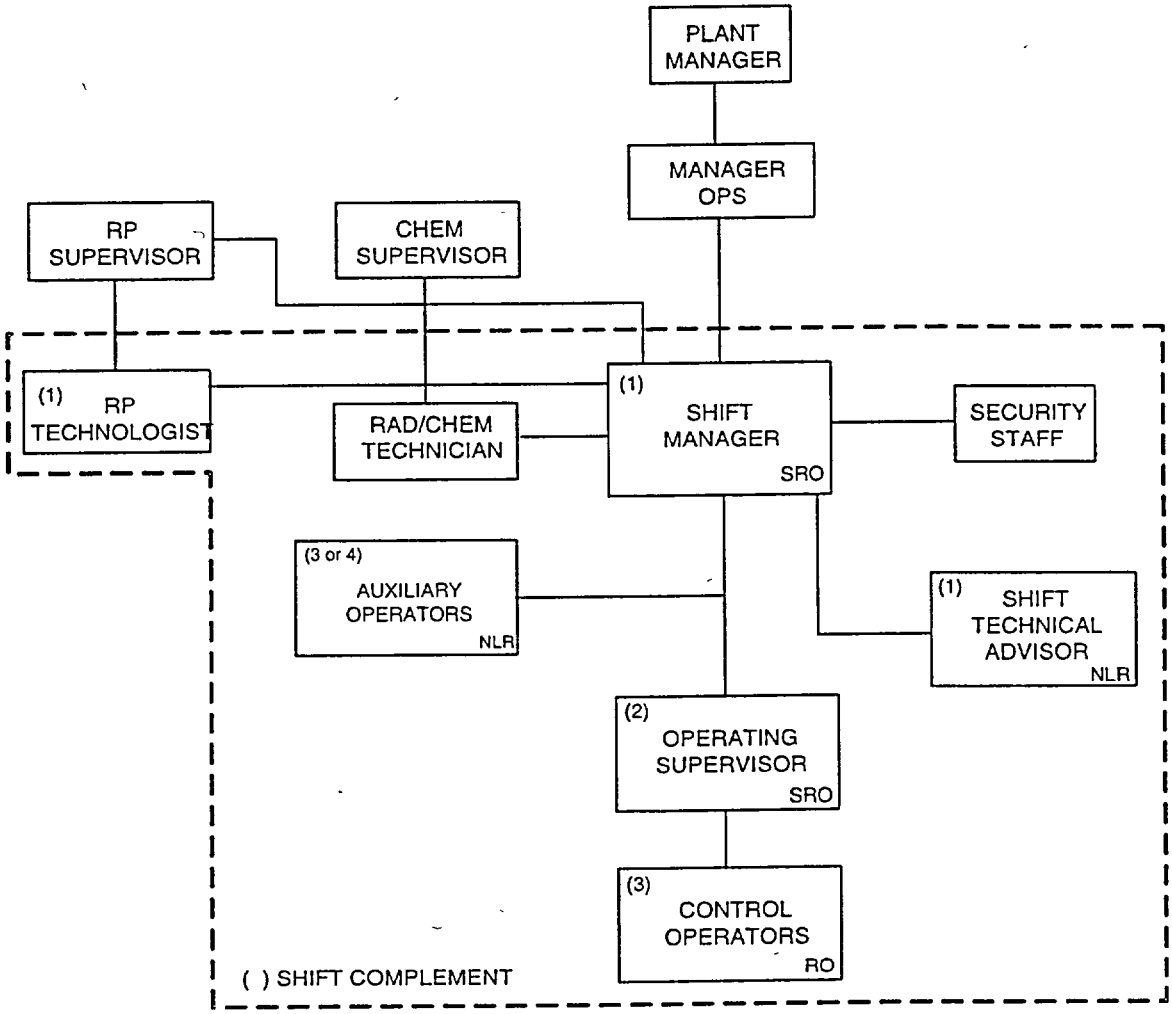
The methods used for notification of offsite agencies are described in the EPIPs. The EPIPs provide for an established message authentication scheme for each emergency classification, guidance on assuring and verifying that each agency is notified, and an incident report form for each emergency classification. The incident report form provides for message verification and information for the initial and follow-up messages. The initial messages contain information about the location of incident, name of caller, date/time of incident, class of emergency, whether a release is taking place potentially affected population and areas, and whether protective actions may be necessary. The follow-up messages contain the basic information from the initial message with the following additional information if it is known and appropriate: the type and form of any actual or projected radiological release; meteorological conditions; estimate of quantity of radioactive material released or being released; actual or projected doses in the affected sector(s); surface contamination measurements; emergency response actions in progress; recommended emergency actions, including protective measures; request for any needed onsite support by offsite organizations; and prognosis for worsening or termination of the emergency.

State and County Emergency Management agencies shall be contacted within 15 minutes of the classification and notified of any of the four emergency classes. Figure 5-7 describes the primary notification and coordination of offsite agencies during emergencies. Communications capabilities are discussed in EP 7.0 of this Emergency Plan.

7.2 Notification of the General Public

The general public will be notified through normal methods including press releases and news conferences of the lesser emergency classifications where protective actions are not required of the general public. In emergencies which may require some protective actions to be taken by the general public, notification will be accomplished by the Manitowoc and Kewaunee County Sheriff's Departments and the State of Wisconsin Emergency Management. The primary method of notifying residents in the affected area would be by a siren system as described in EP 7.0, Section 9.0, and police and emergency vehicles driving in the area with high power or "yelp" sirens on, mobile public address systems, and door-to-door personal contact. This notification procedure will commence with the population within the area of greatest risk and continue with the balance of the population within the EPZ as required. The actual notification and protective action message will be transmitted over local emergency alerting system.

FIGURE 5-1
NORMAL PLANT OPERATING ORGANIZATION



SRO - SENIOR REACTOR OPERATOR
RO - REACTOR OPERATOR
NLR - NO LICENSE REQUIRED

NOTES:

1. THE OPERATING GROUP SHIFT MAKEUP IS THE MINIMUM SIZE FOR OPERATION IN ALL MODES EXCEPT WITH A UNIT DEFUELED. THE OPERATIONS GROUP SHIFT MAKEUP MAY BE LESS THAN THE REQUIREMENTS FOR A PERIOD OF TIME NOT TO EXCEED 2 HOURS IN ORDER TO ACCOMMODATE UNEXPECTED ABSENCE OF ON-DUTY SHIFT CREW MEMBERS, PROVIDED IMMEDIATE ACTION IS TAKEN TO RESTORE THE SHIFT MAKEUP TO WITHIN THE MINIMUM REQUIREMENTS.
2. AN UNEXPECTED ABSENCE OF A SHIFT TECHNICAL ADVISOR SHALL BE TREATED SIMILARLY TO NOTE 1. THE SHIFT TECHNICAL ADVISOR IS LOCATED ONSITE ON TEN MINUTE CALL TO THE CONTROL ROOM.

FIGURE 5-2
PBNP ORGANIZATION - NORMAL OPERATIONS

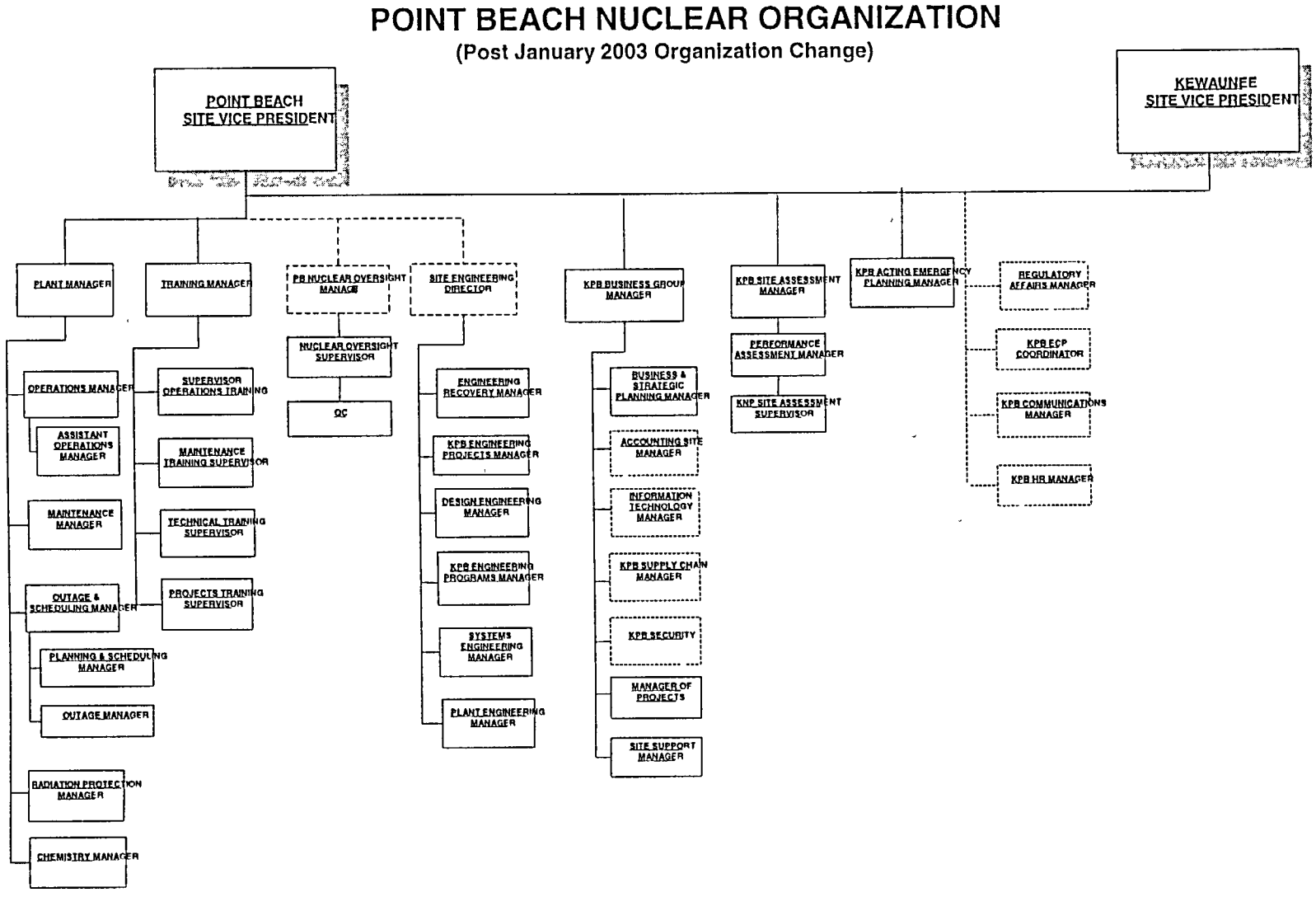


FIGURE 5-3
EMERGENCY ORGANIZATION - UNUSUAL EVENT

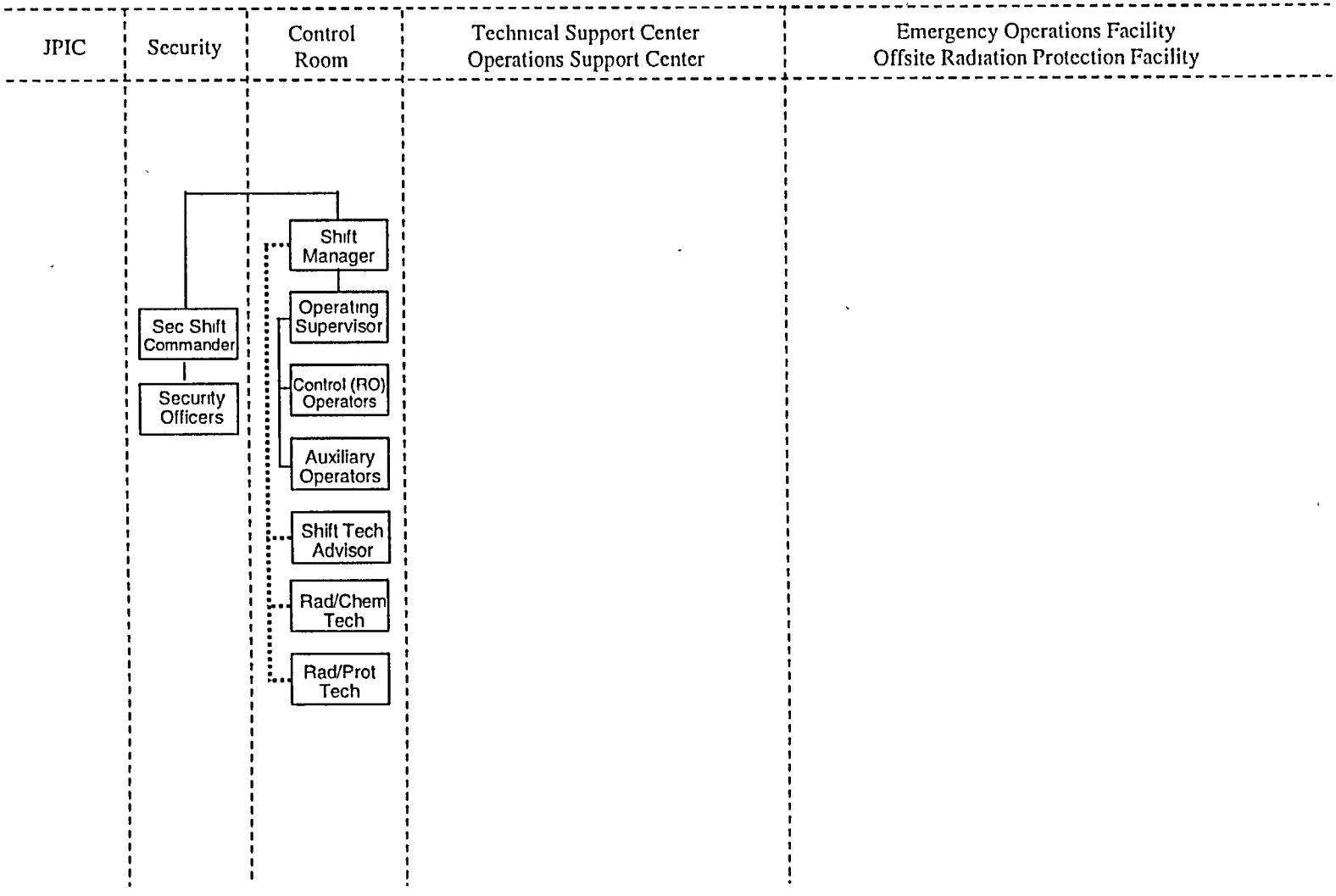
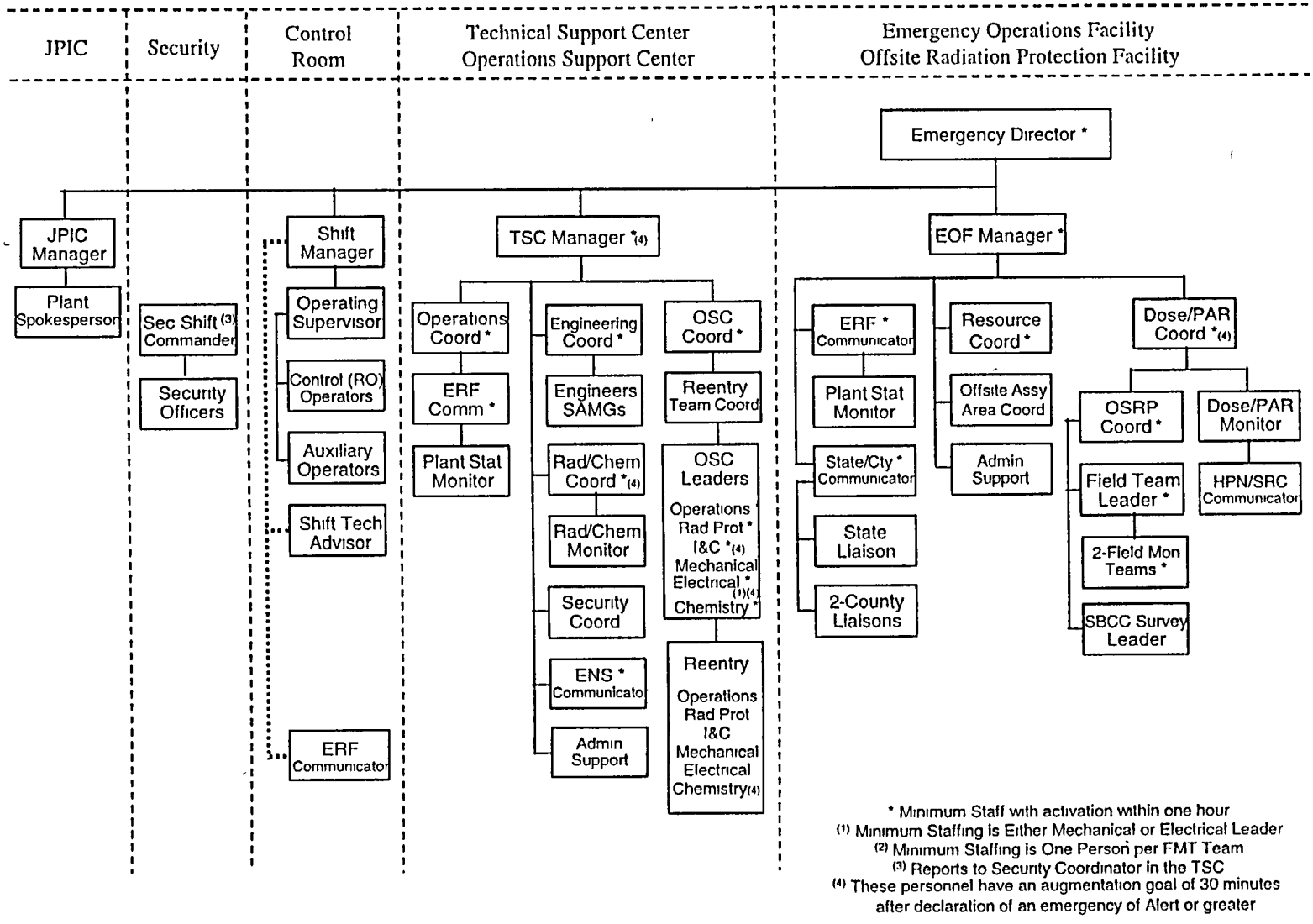
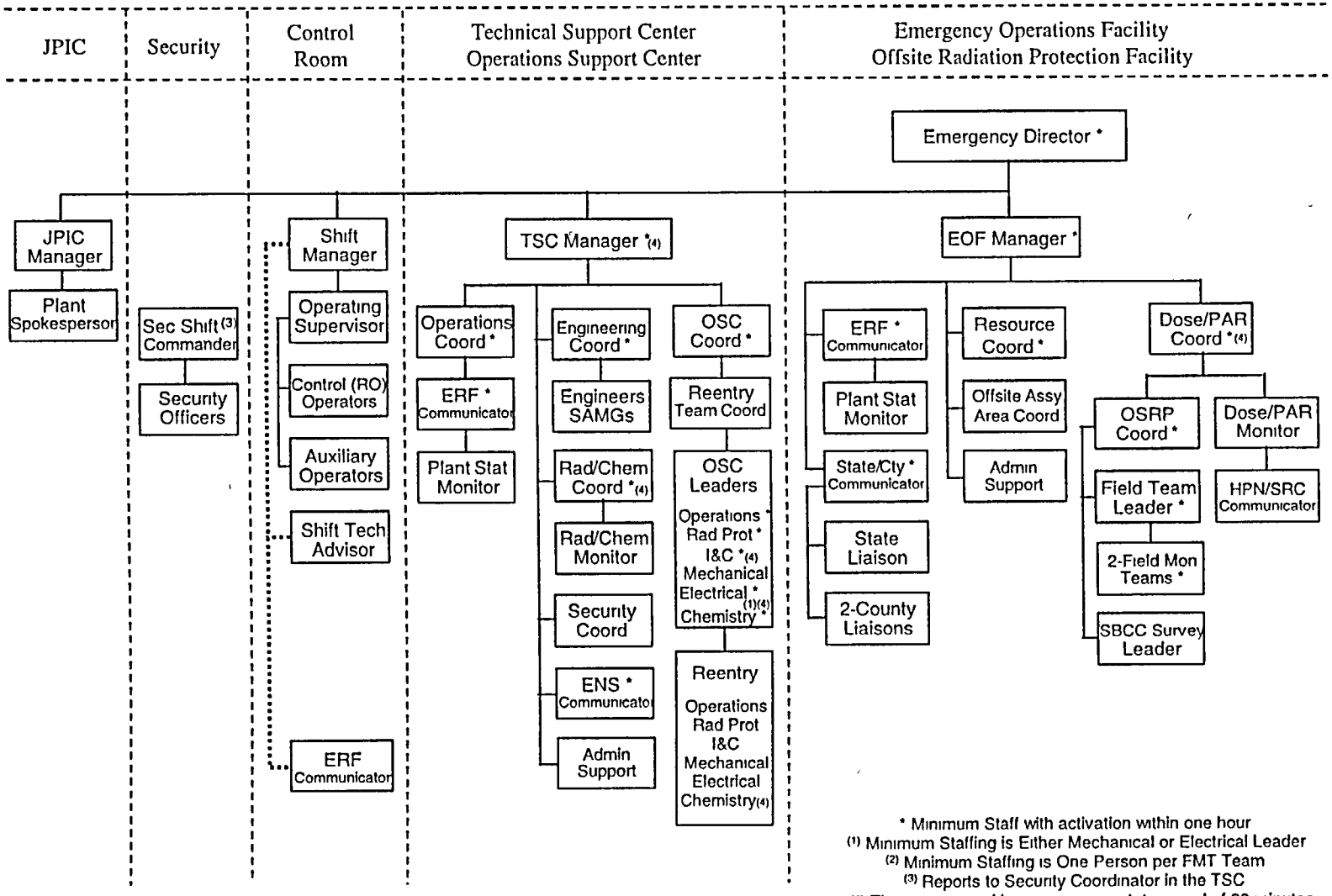


FIGURE 5-4
EMERGENCY ORGANIZATION - ALERT



* Minimum Staff with activation within one hour
(1) Minimum Staffing is Either Mechanical or Electrical Leader
(2) Minimum Staffing is One Person per FMT Team
(3) Reports to Security Coordinator in the TSC
(4) These personnel have an augmentation goal of 30 minutes after declaration of an emergency of Alert or greater

FIGURE 5-5
EMERGENCY ORGANIZATION - SITE EMERGENCY AND GENERAL EMERGENCY



* Minimum Staff with activation within one hour
(1) Minimum Staffing is Either Mechanical or Electrical Leader
(2) Minimum Staffing is One Person per FMT Team
(3) Reports to Security Coordinator in the TSC
(4) These personnel have an augmentation goal of 30 minutes after declaration of an emergency of Alert or greater

FIGURE 5-6
EMERGENCY NOTIFICATION SEQUENCE

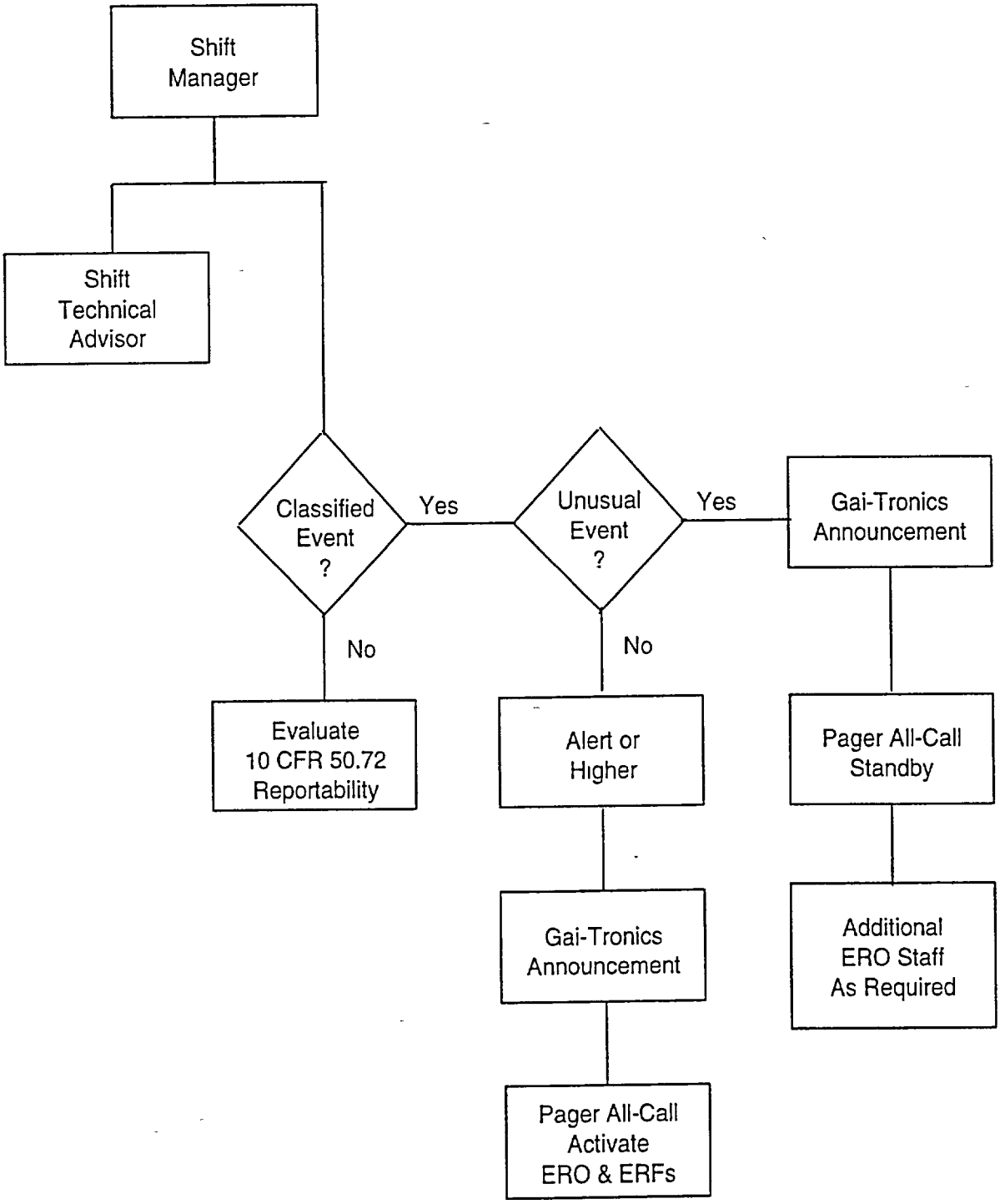
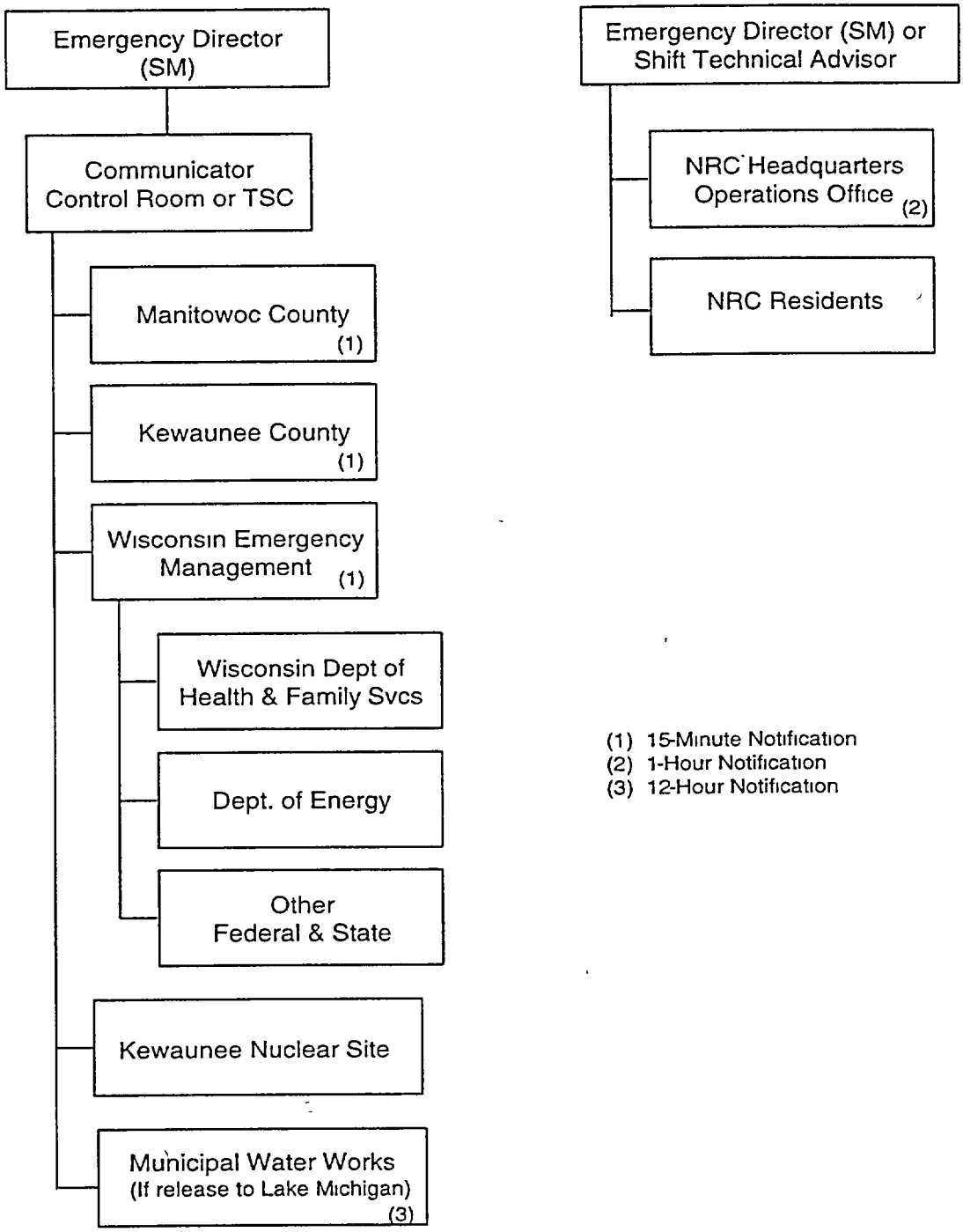


FIGURE 5-7
PBNP OFFSITE NOTIFICATIONS



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(T - Temporary Change)

C = Continuous Use
R = Reference Use
I = Information Use

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EPIP 12.2	Recovery Implementation	15	R	01/10/03	07/12/02

(T - Temporary Change)

C = Continuous Use
R = Reference Use
I = Information Use

EPIP 1.1

COURSE OF ACTIONS

DOCUMENT TYPE: Technical

CLASSIFICATION: NNSR

REVISION: 43

EFFECTIVE DATE: February 11, 2003

REVIEWER: N/A

APPROVAL AUTHORITY: Department Manager

PROCEDURE OWNER (title): Group Head

OWNER GROUP: Emergency Preparedness

Verified Current Copy: _____ _____ _____
Signature Date Time

List pages used for Partial Performance

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Controlling Work Document Numbers

_____ _____
_____ _____
_____ _____

TABLE OF CONTENTS

1.0 PURPOSE

This procedure provides instructions for Control Room personnel responding to an off-normal event at the Point Beach Nuclear Plant (PBNP).

2.0 PREREQUISITES

2.1 Responsibilities

2.1.1 The Shift Manager (SM) is responsible for this procedure.

2.1.2 The SM is responsible for taking immediate actions to mitigate the consequences of the emergency.

2.1.3 The SM is responsible for implementing Emergency Plan Implementing Procedures (EPIPs) as referenced by this procedure until formally relieved by key personnel in emergency response facilities.

2.1.4 The SM may delegate assignments to qualified personnel as necessary.

2.2 Equipment

None

3.0 PRECAUTIONS AND LIMITATIONS

None

4.0 INITIAL CONDITIONS

An off-normal occurrence with the potential for an emergency classification exists (or has existed) at PBNP.

Initials Time

5.0 PROCEDURE

Date/Time entered	/
Reason entered	

NOTE 1: Steps may be completed out of sequence, as appropriate.

NOTE 2: Steps that do not apply, may be marked "not applicable."

NOTE 3: Steps already formally turned over to Emergency Response Facilities (per Step 5.17) may be marked "not applicable."

NOTE 4: Control Room is responsible for all steps prior to transfer of responsibility. Text in [ ]'s denotes the Emergency Response Facility responsible for implementation of that step AFTER the formal transfer of responsibilities from the Control Room.

NOTE 5: Classifications are to be made consistent with in 15 minutes once plant parameters reach an Emergency Action Level (EAL) indication in the Control Room. (Ref NEI 99-02)

5.1 IF a credible HIGH or LOW security threat, THEN go to EPIP 1.4. N/A if attack in progress [CR primary, EOF support] _____ _____

5.2 Direct the Security Shift Commander to report to the Control Room. [CR] _____ _____

5.3 Go to EPIP 1.2 (Step 5.1), Emergency Classifications, to determine if an emergency classification is required. [EOF primary, TSC/CR support] _____ _____

WARNING

If event is security related, then discuss the consequences of conducting an assembly and accountability with Security prior to implementation.

5.4 Complete Attachment A, Announcement of Classified Event and Protective Actions, and make the plant Gai-Tronics announcement. [CR] _____ _____

Initials Time

5.5 IF normal working hours.
THEN implement EPIP 1.1, Attachment B. to notify personnel outside the protected area of the event.
ELSE implement EPIP 1.1, Attachment B. after notifications in Step 5.6 to notify personnel outside the protected area. [TSC] _____ _____

NOTE 1: IF the event is classified as a GENERAL EMERGENCY, THEN minimum protective action recommendations are required.

- **Evacuate 0-2 miles, all sectors**
- **Evacuate 2-5 miles, 3 or 4 downwind sectors**

NOTE 2: IF wind speed is less than three (3) mph or lake breeze conditions exist, THEN recommend protective actions for all sectors (360°) 0-5 miles. Lake breeze conditions exist if the difference between actual wind direction values for inland and near shore meteorological towers is greater than 90°.

NOTE 3: IF wind direction is on or near (~2°) the sector line, THEN use 4 downwind sectors

5.6 Go to EPIP 2.1, "Notifications - ERO. State & Counties, and NRC." [EOF]

NOTE: Assign personnel to make each notification.

5.6.1 Emergency Response Organization (pager activation)
Use EPIP 2.1, Section 5.1. [CR] _____ _____

5.6.2 State & Counties (initiate within 15 minutes of declaration)
Use EPIP 2.1, Section 5.2 and EPIP 2.1 Attachment B, Nuclear Accident Reporting System Form. [EOF] (NARS) _____ _____

5.6.3 KNPP Control Room
Use EPIP 2.1. Section 5.3. [EOF] _____ _____

5.6.4 Nuclear Regulatory Commission (NRC)
(immediately after State & County notifications, NOT to exceed 60 minutes from declaration).
Use EPIP 2.1, Section 5.4. [TSC] _____ _____

	Initials	Time
5.7 IF emergency involves plant conditions which suggest a radioactive release is in progress or anticipated, THEN go to EPIP 1.3 (Step 5.1), Dose Assessment and Protective Action Recommendations. [EOF]		
5.8 IF a backshift or weekend. THEN contact the onshift Radiation Protection Technologist and Radiochemical Technician to report to the Control Room for further instructions in support of the event. [CR]		
NOTE: SM. to ensure the teams are aware of plant and Radiological Conditions.		
5.9 Dispatch and track teams until this responsibility is assumed by the OSC. [OSC]		
5.10 IF the event is an Unusual Event and additional staff is desired, THEN call in personnel using the Emergency Response Organization (ERO) Call List, ETD 01. [CR]		
5.11 Implement the remaining sections per EPIP 6.1, Assembly and Accountability, Release and Evacuation of Personnel, for the following:		
5.11.1 Accountability (ref EPIP 6.1, Step 5.2.2). [TSC]		
5.11.2 Release of personnel (no radiological impediments) (ref EPIP 6.1, Step 5.3). [TSC]		
5.11.3 Evacuation of site to offsite assembly areas (includes radiological monitoring prior to leaving the plant site) (ref EPIP 6.1, Step 5.4). [TSC]		
5.12 IF Alert or higher. THEN:		
5.12.1 Activate Emergency Response Data System (ERDS) per EPIP 1.1, Attachment C, Activation of Emergency Response Data System (ERDS) (Within 60 minutes of declaration). [CR]		
5.12.2 Issue high range dosimetry to Control Room personnel. [CR]		
5.12.3 Ensure backshift RPTs and Chem Techs have high range dosimetry. [CR]		

	Initials	Time

5.13 IF the event is a General Emergency
AND ALL the following criteria are met,
THEN implement expanded PARS of evacuation for 0-5 miles all sectors and 5-10 miles downwind sectors. [EOF] (Ref 6 15)

5.13.1 Substantial core damage in progress or projected (>20%) (> 30,000 R/hr in containment high radiation monitors)

5.13.2 Large fission product inventory in containment (more than GAP) (LOSS criteria for RCS barrier in EPIP 1.2, Attachment C, exceeded)

5.13.3 Imminent projected containment failure or release underway (LOSS criteria for containment barrier in EPIP 1.2, Attachment C, exceeded) _____ _____

5.14 IF event involves a liquid release to the lake,
THEN notify local water utilities per Offsite Agency Call List, ETD 02. [EOF] _____ _____

5.15 IF TSC and/or EOF are NOT activated,
THEN ensure periodic status updates are provided to the State, Counties, and NRC per EPIP 2.1. (Hourly) [CR] _____ _____

5.16 IF activating the Emergency Response Facilities,
THEN provide a turnover briefing to TSC Manager upon arrival in the Control Room. [CR]

5.16.1 Plant status

5.16.2 Notifications status and current EPIP 2.1, Attachment B form (NARS).

5.16.3 Status of Personnel on Protected Worker Log

5.16 4 Assembly and accountability status _____ _____

5.17 Conduct a formal turnover of responsibilities to Emergency Response Facilities as they are activated. [CR]

5.17.1 Technical Support Center (TSC)

a. Plant assessment on classification recommendations per EPIP 1.2 _____ _____

b. Onsite protective actions _____ _____

		Initials	Time
	c. Onsite radiological assessment		
	d. NRC Notifications per EPIP 2.1		
	e. Assembly and Accountability, Release and Evacuation of Personnel per EPIP 6.1		
5.17.2	Operations Support Center (OSC)		
	Add Statement Assume all reentry dispatch and tracking for:		
	Area of Responsibility		
	a. Emergency reentry team.		
	b. Search and Rescue team.		
	c. Fire fighting team.		
	d. Medical emergencies (EPIP 11.2)		
	e. Non-PBNP or Contractor team, NMC Fleet personnel or Contractor team (outside protected area).		
5.17.3	Emergency Operations Facility (EOF)		
	a. Classification of emergencies per EPIP 1.2		
	b. Offsite protective action recommendations per EPIP 1.3		
	c. State and County notifications per EPIP 2.1		
	d. Overall management of ERO activities		
	e. Request for Federal Assistance, if needed		
	f. Authorize the use of potassium iodide per EPIP 5.2		
	g. Authorize emergency radiation exposures in excess of 10 CFR 20 requirements per EPIP 5.1		
	h. Review and approval of news releases.		
5.18	Initiate an action request associated with the event and insert a copy in the Operations Notebook (reference 6.14) and exit this procedure, returning it to Emergency Preparedness. [CR]		

6.0 REFERENCES

6.1 EPIP 1.2, Emergency Classifications

6.2 EPIP 1.3, Dose Assessment and Protective Action Recommendations

6.3 EPIP 1.4, Credible High or Low Security Threat

6.4 EPIP 2.1, Notifications - ERO, State & Counties, and NRC

6.5 EPIP 4.1, Attachment E, Activation of Emergency Response Data System (ERDS)

6.6 EPIP 5.1, Personnel Emergency Dose Authorization

6.7 EPIP 5.2, Radioiodine Blocking and Thyroid Dose Accounting

6.8 EPIP 6.1, Assembly and Accountability, Release and Evacuation of Personnel

6.9 EPIP 10.1, Emergency Reentry

6.10 EPIP 11.2, Medical Emergency

6.11 ETD 01, Point Beach Emergency Response Organization (ERO) Call List

6.12 ETD 02, Offsite Agency Call List

6.13 NEI 99-02, Regulatory Assessment Performance Indicator Guideline

6.14 IR 94-013, NPNPD-94-014, Response to Notice of Violation, October 5, 1994

6.15 NUREG-0150, Volume 1, Revision 4, RTM-96, Response Technical Manual, Figures A-5 and A-6, March 1996

7.0 BASES

B-1 10 CFR 50.47(b), Emergency Plans

B-2 10 CFR 50.47, Appendix E.IV, Content of Emergency Plans

B-3 NUREG-0654. Criteria for Preparation and Evaluation of Radiological Response Plans and Preparedness in Support of Nuclear Power Plants, Revision 1, November 1980

ATTACHMENT A
ANNOUNCEMENT OF CLASSIFIED EVENT AND PROTECTIVE ACTION
Page 1 of 2

NOTE: Ensure each section that should be included in the announcement has a check in that check box. The individual making the announcement should read each of those sections when making the actual announcement.

1.0 CLASSIFICATION

1.1 Check the appropriate event classification level box.

1.2 Log the EAL chart classification number and condition of the event.

1.3 Emergency Response Facilities must be activated at an Alert or higher classification.

NOTE: Select Step 2.0, Step 3.0, or Step 4.0 based on the event in progress and the appropriate personnel protective actions required.

2.0 LIMITED PLANT EVACUATION

2.1 Log the areas where a limited plant evacuation is required.

2.2 Check the appropriate location box(s) where the evacuated personnel should report. Use "other" if a different assembly area is needed due to the unavailability of the ones listed.

NOTE: An evacuation of non-essential personnel to offsite assembly areas (Step 4.0) shall be conducted in lieu of Step 3.0 under emergency conditions that may endanger human life and health (i.e., fire, flooding, toxic gases, etc.) and the SM or TSC Manager has determined that non-essential personnel shall be evacuated to offsite assembly areas.

3.0 FULL SITE ASSEMBLY AND ACCOUNTABILITY (Required at Site Emergency, Optional Earlier - Ref EPIP 6.1, Step 4.2)

3.1 Check "Your Assigned Assembly Area" if all locations are available.

3.2 Check the appropriate location box(s) where the personnel should assemble if any normal assembly areas are unavailable. Use "other" if a different assembly area is needed due to the unavailability of the ones listed.

4.0 OFFSITE ASSEMBLY AND ACCOUNTABILITY (In lieu of Step 3.0 – Ref EPIP 6.1, Step 4.3)

Check the appropriate offsite location box where personnel should assemble.

5.0 GATEHOUSE

Check the appropriate gatehouse that personnel should exit through.

6.0 AVOID AREAS

Log the hazardous area(s) that should be avoided by personnel assembling.

ATTACHMENT A
ANNOUNCEMENT OF CLASSIFIED EVENT AND PROTECTIVE ACTION
Page 2 of 2

SOUND THE FISHERMAN'S ALARM.
SOUND THE EVACUATION ALARM.
MAKE THE FOLLOWING ANNOUNCEMENT.

"ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

1.0 ☐ THERE ARE CONDITIONS AT THE PLANT THAT WARRANT A (AN)
- ☐ UNUSUAL EVENT
- ☐ ALERT
- ☐ SITE EMERGENCY
- ☐ GENERAL EMERGENCY
- ☐ TERMINATION OF CLASSIFIED EVENT

THESE CONDITIONS ARE (EAL chart classification/condition):

_____

_____

☐ ALL ERO PERSONNEL REPORT TO YOUR ASSIGNED EMERGENCY RESPONSE FACILITY.
(required at an ALERT or Higher, Optional Earlier)

☐ THESE CONDITIONS ALSO WARRANT A:

2.0 ☐ LIMITED PLANT EVACUATION OF THE FOLLOWING AREAS:

_____

ALL REMAINING PERSONNEL IN THESE AREA(S) REPORT TO THE:
- ☐ (In RCA) RP STATION
- ☐ (Outside RCA) NORTH SERVICE BUILDING CAFETERIA
- ☐ (Other)_____

AND AWAIT FURTHER INSTRUCTIONS."

3.0 ☐ FULL SITE ASSEMBLY AND ACCOUNTABILITY (Required at SITE EMERGENCY, Optional Earlier):

ALL REMAINING PERSONNEL REPORT TO:
- ☐ YOUR ASSIGNED ASSEMBLY AREA
- ☐ NORTH SERVICE BUILDING CAFETERIA
- ☐ ADMIN BUILDING EL 26' OFFICE AREA
- ☐ ENGINEERING BUILDING CAFETERIA
- ☐ TRAINING BUILDING NORTH FOYER
- ☐ WAREHOUSE #4
- ☐ (OTHER)_____

4.0 ☐ OFFSITE ASSEMBLY AND ACCOUNTABILITY (In lieu of Step 3 0):

ALL REMAINING PERSONNEL REPORT TO:
- ☐ TWO CREEKS TOWN HALL
- ☐ TWO RIVERS NATIONAL GUARD ARMORY

5.0 ☐ EXIT THROUGH
- ☐ THE SOUTH GATEHOUSE
- ☐ THE NORTH VEHICLE GATE (Only if the South Gatehouse Unavailable)

6.0 ☐ (IF filled in, THEN announce:) AVOID THE FOLLOWING AREA(S):

_____"

_____

REPEAT ALARMS AND ANNOUNCEMENT

Return the completed form to Emergency Preparedness or TSC Manager.

ATTACHMENT B
NOTIFICATION OF PERSONNEL OUTSIDE THE PROTECTED AREA
Page 1 of 3

1.0 PBNP AUTOMATED NOTIFICATION SYSTEM

NOTE 1: Listen carefully because the system will give you other options. To expedite the notification process, the following steps have been written to only list the specific voice prompt you need, at which time you can immediately respond without listening to the remaining prompt.

NOTE 2: If at any point you want to exit the system and start over, you should keep slowly pressing the "#" key until the system says "goodbye" and restart the entire process.

1.1 PBNP Automated Notification System is unavailable,
THEN go to Step 2.0 of this attachment.

1.2 From any on-site telephone, dial ext. to access the PBNP Automated Notification System.

1.3 When prompted "Please enter your scenario activation password," enter " " using the keypad on the telephone.

1.4 When prompted "To start a scenario enter the scenario ID...," enter " "

1.5 Press "2" to select recording a new message. Other voice prompts will be given but you do not have to listen to the options.

1.6 When prompted "After the tone, speak the new message...," read Attachment A, Announcement of Classified Event, and Protective Actions, and press "#." (Your message will automatically play back).

1.7 Press "3" to start the scenario. Other voice prompts will be given if you want to replay your message or rerecord it.

1.8 When prompted, "The scenario is building," press "#", listen to "good-bye" and hang up.

1.9 IF normal working hours and Step 1.0 was successful,
THEN return to procedure Step 5.6.

1.10 IF outside normal working hours and Step 1.0 was successful.
THEN return to procedure Step 5.7.

1.11 IF Step 1.0 was NOT successful,
THEN go to next Step 2.0 of this attachment.

Completed By _____ Date/Time _____

ATTACHMENT B
NOTIFICATION OF PERSONNEL OUTSIDE THE PROTECTED AREA
Page 2 of 3

2.0 PBX Broadcast System

2.1 Notification of Personnel Outside Protected Area on South Side of Plant

From a touch-tone phone, dial

2.1.1 to access voice system

2.1.2 # when prompted for mailbox

2.1.3 # when prompted for password

2.1.4 to compose message

2.1.5 # and ## when prompted

2.1.6 when prompted

2.1.7 Read Attachment A, Announcement of Classified Event and Protective Actions, and press # when done recording

2.1.8 to send message

2.1.9 to exit PBX Broadcast System.

2.2 Notification of Personnel Outside Protected Area on North Side of Plant

From a touch-tone phone, dial

2.2.1 to access voice system

2.2.2 # when prompted for mailbox

2.2.3 # when prompted for password

2.2.4 to compose message

2.2.5 ## when prompted

2.2.6 when prompted

ATTACHMENT B
NOTIFICATION OF PERSONNEL OUTSIDE THE PROTECTED AREA
Page 3 of 3

2.2.7 Read Attachment A, Announcement of Classified Event and Protective Actions, and press # when done recording.

2.2.8 to send message

2.2.9 to exit PBX Broadcast System.

2.3 **IF** normal working hours,
THEN return to procedure Step 5.6

2.4 **IF** outside normal working hours.
THEN return to procedure Step 5.7.

Completed By _____ Date/Time _____

Return the completed form to Emergency Preparedness or TSC Manager

ATTACHMENT C
ACTIVATION OF EMERGENCY RESPONSE DATA SYSTEM (ERDS)

NOTE 1: ERDS shall be activated within one hour of declaration of an Alert or higher emergency.

NOTE 2: ERDS must be activated and deactivated from the Control Room due to being a controlled environment and the TSC PPCS configuration.

NOTE 3: ERDS can be activated from terminals PPCS 101 or 102. Only one Unit can transmit data at a time through a connection. If one Unit is 'connected' through 179 then the other Unit to be 'connected' must be activated through 182. When both Units are inadvertently activated through a single line 179(182) then only one unit displays 'connected'. The other unit displays 'on line' with an 'error' message. The NRC receives alarms indicating validity of the data being transmitted should be checked. Both Units can transmit simultaneously by activating one Unit on each connection. The status displayed would be 'connected' in this case.

1.0 TO INITIATE THE ERDS

1.1 From Control Room drop PPCS 101 or 102, click on the MENU icon.

1.2 Click on Operator Station Programs.

1.3 Click on ERDS for the appropriate Unit.

1.4 Click on the Startup button.

NOTE: When ERDS is activated due to an Emergency the NRC must provide verbal concurrence before ERDS can be deactivated from PBNP.

2.0 TO DEACTIVATE THE ERDS

2.1 From Control Room drop PPCS 101 or 102, click on the MENU icon.

2.2 Click on Operator Station Programs.

2.3 Click on ERDS for the appropriate Unit.

2.4 Click on the Shutdown button.