



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

EMERGENCY PLAN PROCEDURE

REV. #12 PC #

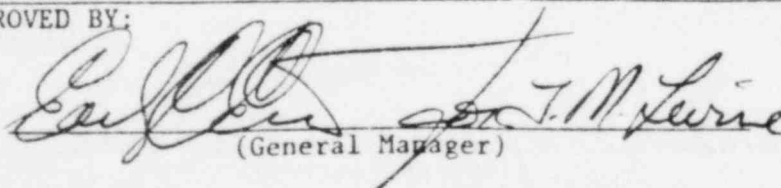
Safety Related YES ☒ NO ☐

PERSONNEL EMERGENCY
1903.23 REV. 6

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APPROVED BY:


(General Manager)

APPROVAL DATE

3-7-83

REQUIRED EFFECTIVE DATE:



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1.0 PURPOSE

The purpose of this procedure is to provide guidance to ANO personnel on how to respond to a personnel emergency. This emergency may be medical or contamination-related medical.

2.0 SCOPE

This procedure outlines the general response to be taken during a personnel emergency. It is not intended to give medical guidance for use during the emergency.

3.0 REFERENCES

3.1 References Used in Procedure Preparation:

- 3.1.1 Arkansas Nuclear One Emergency Plan
- 3.1.2 Red Cross First Aid Instruction Pamphlets
- 3.1.3 NCRP Report No. 39, "Basic Radiation Protection Criteria"
- 3.1.4 NCRP Report No. 65, "Management of Persons Accidentally Contaminated with Radionuclides"

3.2 References Used in Conjunction with this Procedure:

- 3.2.1 1622.010, "Personnel Decontamination"
- 3.2.2 1903.33, "Re-Entry Guidelines"
- 3.2.3 1903.74, "Pope County Ambulance Service"

3.3 Related ANO Procedures:

- 3.3.1 1903.42, "Duties of the Emergency Medical Team"
- 3.3.2 1903.72, "St. Mary's Hospital"
- 3.3.3 1903.73, "Millard-Henry Clinic"
- 3.3.4 1000.38, "Arkansas Nuclear One Industrial Safety Program"

3.4 Regulatory correspondence containing NRC commitments which are implemented in this procedure include:

- 3.4.1 Letter OCAN108213, Appendix A, Item 1
 - A. Section 7.2.2



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4.0 DEFINITIONS

4.1 A serious injury that requires action specified in this procedure is defined as an injury to any person that has resulted in:

- 4.1.1 More than a momentary loss of consciousness.
- 4.1.2 An actual or suspected fracture.
- 4.1.3 A head injury.
- 4.1.4 An injury that may have damaged internal organs.
- 4.1.5 A serious burn.
- 4.1.6 Hemorrhaging.
- 4.1.7 Receipt of a large dose of radiation (i.e., greater than 50 R).

5.0 PRECAUTIONS

- 5.1 Personnel administering first aid to an injured person in a suspected or undefined radiation field should be joined by a Health Physics representative as soon as possible.
- 5.2 Entry into evacuated or high radiation areas for the purpose of attending to injured or contaminated individuals shall be in accordance with 1903.33, "Re-entry Guidelines".
- 5.3 If it is not clear that the individual can be moved without harm, he should not be moved until further help arrives, unless the individual would be in danger of loss of life or limb.
- 5.4 Individuals who have suffered any of the conditions described in Section 4.0 should receive a medical examination prior to returning to work.

6.0 IMMEDIATE ACTIONS

- 6.1 In the event of a personnel emergency, personnel in the vicinity of the affected individual should:
 - 6.1.1 Administer immediate first aid and attention. This attention should consist of:
 - A. Stopping bleeding by applying pressure.



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B. Using resuscitation techniques.

C. Keeping the individual calm and comfortable until further help arrives.

6.1.2 Notify either unit's Shift Supervisor (preferred), the Safety & Fire Prevention Coordinator or the individuals Supervisor.

6.1.3 Remain available to provide information to the appropriate medical personnel.

7.0 FOLLOW-UP ACTIONS

7.1 For any medical emergency, either unit's Shift Operations Supervisor should be informed, if not previously done; periodic updates should be provided to the Shift Supervisor initially contacted.

7.2 The Shift Operations Supervisor shall direct appropriate medical assistance to the injured individual. The following groups should be called upon (when on site) to provide assistance:

NOTE: These groups should be contacted by the most expedient means available (if the page is used, the announcement should be repeated several times).

7.2.1 Bechtel Nurse (3736).

7.2.2 Emergency Medical Team or Shift Maintenance Medical Team (After routine working hours - 3142/3411).

7.2.3 Safety & Fire Prevention Coordinator (3131).

NOTE: First Aid Supplies are maintained in the following locations:

A. Unit 1 Turbine Building, Elev. 354 South (Fire Locker).

B. Unit 2 Turbine Building, Elev. 354 North (Fire Locker).

C. Unit 1/2 Turbine Building Elev. 386 (Fire Locker).

D. First Aid Room - Second Floor Administration Building.

7.3 When directed, the appropriate medical personnel onsite should respond to the location where the injured or contaminated individuals are located and:

7.3.1 Administer appropriate first aid measures.



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7.3.2 Record information on Form 1903.23A.

7.3.3 Provide the Shift Supervisor with an assessment of the situation (to include further needs, if necessary).

7.3.4 Gather necessary information from the personnel initially on the scene (to include individual's name for future reference).

7.3.5 Obtain the injured person's security badge but DO NOT remove their dosimeter and TLD until arrival at the medical facility. Upon arrival at the medical facility, the accompanying Health Physics personnel should remove the injured person's dosimeter and TLD for further identification and dose determination.

7.4 If an individual is potentially contaminated, the following precautionary measures should be taken (as allowed by the nature of the injury), as necessary:

NOTE: The Shift Operations Supervisor shall ensure that a Health Physics representative is assigned to accompany the individual(s) both onsite and to offsite medical facilities, as necessary.

7.4.1 Take precautions (coverings, use of stretcher, etc.) to prevent the spread of contamination during movement and transport of the individual.

7.4.2 Move the individual to a "clean" area, as allowed by step 5.3.

7.4.3 Remove contaminated clothing.

7.4.4 Survey the individual for surface contamination.

NOTE: Contaminated wounds, eyes, etc., should be decontaminated by use of water only; wounds should be covered before and after decontamination efforts.

7.4.5 Decontaminate the affected areas removing as much transferable contamination as possible per 1622.010, "Personnel Decontamination".

7.4.6 Cover remaining contaminated areas.

NOTE: If an individual is potentially contaminated and requires transportation to an offsite medical facility, he should be initially transported to St. Mary's Hospital.



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7.5 The Shift Operations Supervisor may make arrangements for treatment based upon the assessment of a qualified medical individual. If a qualified medical individual is not available, the following guidance is provided:

- 7.5.1 If the injured individual(s) requires attention from a doctor and are judged incapable of travel, the appropriate physicians should be called from Millard-Henry Clinic (968-2345) or St. Mary's Hospital (968-6211), advised of the physical and radiological condition of the injured, and requested to come immediately to ANO. The Pope County Ambulance Service should also be contacted (refer to step 7.5.2).
- 7.5.2 If the injured individual(s) requires immediate attention from a doctor and are judged capable of travel, the Pope County Ambulance Service should be called at 968-4567, advised of the physical and radiological condition of the injured and requested to come immediately to ANO. If contamination is involved, a Health Physics representative should immediately be dispatched to the emergency entrance at St. Mary's Hospital to assist the hospital staff as the situation warrants (use call-out list in procedure 1903.10, Attachment 5, if necessary).

NOTE: An Unusual Event Emergency Action Level shall be declared by the Shift Operations Supervisor when a medical emergency requires transporting a radiologically contaminated individual from the site to an off site hospital. (Reference procedure 1903.10, "Emergency Action Level Response".)

- 7.5.3 If the injured individual(s) do not require immediate attention from a doctor and are judged capable of travel, arrangements should be made to transport the individuals for further examination to Millard-Henry Clinic or St. Mary's Hospital.
- 7.5.4 If the injured individual or individual(s) attending to the injured individual are suspected of having received a radiation dose in excess of 50 R, arrangements should be made to transport those individuals to the University of Arkansas Medical Sciences Hospital in Little Rock for treatment, as necessary, after examination at St. Mary's Hospital.



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- 7.6 The Shift Operations Supervisor should notify the Duty Guard Sergeant if off-site medical assistance has been requested to report onsite so that Security personnel may be ready to receive and escort the medical personnel. (Routine access point - North Gate; routine receiving area - Maintenance Facility Breezway, unless otherwise directed.) If the situation requires the ambulance personnel to enter a potentially contaminated area, refer to 1903.74, "Pope County Ambulance Service" for further guidance.
- 7.7 If the injured individual is transported to a medical facility, the Shift Operations Supervisor should call the appropriate medical facility and advise them, as known, of the number of individuals involved, a description of the medical emergency and whether or not contamination is involved.
- 7.7.1 Millard Henry Clinic (968-2345)
- 7.7.2 St. Mary's Hospital (968-6211 or 968-2481)
- 7.7.3 University of Arkansas Medical Sciences Hospital (661-5000)
- 7.8 An escort, as indicated below, should accompany the injured individual(s) to provide any necessary information or assistance to the medical personnel and provide periodic updates to the Shift Supervisor (or other individual, as directed).
- 7.8.1 If the individual is contaminated, a Health Physics representative shall accompany.
- 7.8.2 If the individual is not contaminated, one of the following individuals should accompany:
- A. Emergency Medical Team Member
 - B. Bechtel Nurse (If Bechtel personnel are involved)
 - C. Safety and Fire Prevention Coordinator
 - D. An ANO Management Representative
 - E. Any knowledgeable member of the plant staff
- 7.9 Followup and reporting (written) of the personnel injury or accident should be accomplished as stated in reference 3.3.4 (Para. 6.8).
- 8.0 ATTACHMENTS AND FORMS
- 8.1 Form 1903.23A - "Personnel Injury"



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TITLE: PERSONNEL INJURY

FORM NO. 1903.23A

REV. #^D PC #

Date/Time _____

Name/Badge Number _____

TLD Number _____

Dosimetry _____

Vital Signs:

Time _____

B/P _____

Pulse _____

Resp. _____

Injuries:

Contamination: No ()

Yes ()

Extent of Contamination: