

Davis Besse Power Station
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Davis-Besse Nuclear Power Station

EMERGENCY PLAN OFFNORMAL OCCURRENCE PROCEDURE

RA-EP-02800

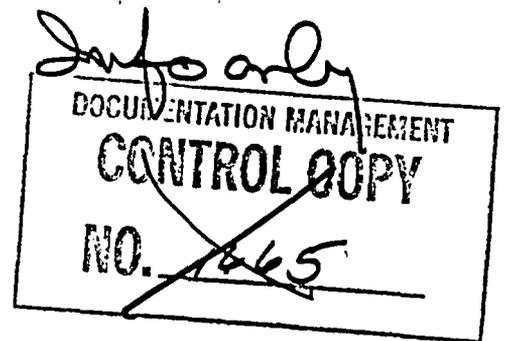
PREPARATION AND TRANSPORT OF CONTAMINATED INJURED PERSONNEL

REVISION 02

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Procedure Owner: Manager - Regulatory Affairs

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Procedure Classification:

- Safety Related
- Quality Related
- Non-Quality Related

LEVEL OF USE:
IN-FIELD REFERENCE

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1.0 PURPOSE

This procedure describes actions and/or tasks performed during preparation and transport of contaminated injured personnel to offsite medical facilities.

2.0 REFERENCES

2.1 Developmental

Section 6.0, Davis-Besse Nuclear Power Station Emergency Plan

2.2 Implementation

2.2.1 Departmental Procedures

- a. DB-HP-01701, Personnel Contamination Evaluation and Decontamination
- b. DB-OP-00002, Operations Section Event/Incident Notifications, and Action.

3.0 DEFINITIONS

- 3.1 **DESIGNATED MEDICAL FACILITY** – The offsite hospital or medical facility selected by the Emergency Medical Services (EMS) squad leader as the most appropriate destination to transport contaminated injured personnel.
- 3.2 **EMS PERSONNEL** – Emergency Medical Services (EMS) technicians and attendants.
- 3.3 **LAYDOWN AREA** – An area prepared to receive contaminated materials. Laydown areas may be covered by paper and plastic or other protective coverings to facilitate decontamination efforts.
- 3.4 **PATIENT AREA** – That portion of an emergency transport vehicle used for patient care and occupancy enroute to medical facilities.
- 3.5 **VITAL PERSONAL EFFECTS** – Those items of a personal nature which are deemed necessary or of particular benefit to injured personnel, and should remain with the patient during offsite transport.

4.0 RESPONSIBILITIES

- 4.1 The Shift Manager is responsible for the implementation of this procedure.
- 4.2 The First Aid Team (FAT) Leader is responsible for:
 - 4.2.1 Informing Radiation Protection personnel of medical constraints impacting decontamination efforts.
 - 4.2.2 Preparing injured personnel for transport to offsite medical facilities.

- 4.3 Radiation Protection (RP) Personnel are responsible for:
 - 4.3.1 Ensuring the dosimetry worn by EMS personnel is worn properly.
 - 4.3.2 Providing area radiological surveys of accident locations including radiation, contamination, and airborne radioactivity levels.
 - 4.3.3 Providing radiological surveys of injured personnel and wounds, including radiation and contamination surveys.
 - 4.3.4 Accompanying or following the ambulance to the medical facility.
 - 4.3.5 Decontamination assistance for the contaminated injured personnel, if requested.
 - 4.3.6 Surveying, deconning and releasing EMS personnel and equipment.
 - 4.3.7 Surveying, deconning and releasing hospital equipment and areas.

5.0 INITIATING CONDITIONS

- 5.1 The First Aid Team (FAT) has responded to a request for medical assistance and determined:
 - 5.1.1 Offsite transport for medical assistance is required for injured personnel.
 - 5.1.2 Injured personnel cannot be decontaminated before transport due to medical constraints.
- 5.2 Radiation Protection personnel have advised the FAT Leader of survey results indicating injured personnel may be contaminated in excess of station administrative limits or cannot be monitored due to injuries.:

6.0 PROCEDURE**6.1** The First Aid Team (FAT) Leader shall:**6.1.1** Contact the Shift Manager and request EMS assistance for the offsite transport of contaminated injured personnel.**WARNING 6.1.2**

Life threatening medical concerns shall take precedence over radiological concerns. Do NOT detain injured personnel requiring immediate transport to offsite medical facilities.

6.1.2 Provide the Shift Manager with information concerning the contaminated injured personnel including:

- a. Name of contaminated injured personnel.
- b. Present location of injured personnel.
- c. Description of type and extent of injuries.
- d. Degree and extent of contamination and other radiological concerns.

6.1.3 Consider moving patient away from radiological hazards if injuries allow.**6.1.4** Direct the containment of localized contamination on injured personnel, under the advisement of an RP Tester.**6.1.5** Ensure the contaminated injured personnel are medically and radiologically stable and the provisions have been made for adequate protection from weather extremes during offsite transport.**6.1.6** Approve and direct movement of contaminated injured personnel to the EMS pickup location.**6.1.7** Find out which hospital the EMS team is transporting the contaminated injured personnel to. Report the destination to the Shift Manager and Secondary Alarm Station (SAS) Operator.**6.1.8** Ensure the FAT members assist loading contaminated injured personnel as directed by the EMS Team.

6.2 The Shift Manager shall:

- 6.2.1 Contact the Duty RP Manager and request an RP Management Representative meet the patient at the hospital.
- 6.2.2 Make notification to the NRC in accordance with DB-OP-00002.
- 6.2.3 Notify the On Call Emergency Offsite Manager and direct notifications be made to the State of Ohio, and Ottawa and Lucas Counties Emergency Management Agencies.

6.3 RP Personnel shall:

6.3.1 Provide the FAT Leader with the following:

- a. Dose rates
- b. Contamination levels
- c. Other radiological concerns

- 6.3.2 Bag and label vital personal effects (eye glasses, dentures, hearing aids, etc.) which may be contaminated, and ensure they accompany the personnel to the offsite medical facilities. Other personal effects should be surveyed, decontaminated (as necessary), and released to Nuclear Security for safekeeping.

Note 6.3.3

DBEP forms are found in the Emergency Preparedness web page
"DBEP Forms."

6.3.3 Complete Personnel Decontamination Form, DBEP-059 which includes:

WARNING 6.3.3.a

Do not take smears of wounds and do not attempt removal of
contaminated tissue.

- a. Sketch locations and levels of contamination on the Body Contamination Map.
 - b. Describe decontamination efforts, methods used, and results obtained, if any on the Personnel Decontamination Form, DBEP-059.
- 6.3.4 Provide EMS personnel with an uncontaminated or bagged Personnel Decontamination Form, DBEP-059.

Note 6.3.5

Contamination control preparations for the ambulance should be agreed upon by the First Aid Team Leader and the RP Tester. Clean team transfer preparations and contamination coverings may be sufficient for protection of the EMS equipment and vehicle.

- 6.3.5 Ensure the following Clean Team Transfer techniques are implemented whenever transport involves travel from contaminated areas into radiologically clean areas:
- a. Place a stretcher that is covered with a spread-out blanket in an uncontaminated area next to the contaminated area.
 - b. The contaminated injured person is lifted up by the First Aid Team (FAT) members inside the contaminated area and is placed on the blanket-covered stretcher.
 - c. The FAT members on the clean side folds the blanket over the contaminated injured person to contain the contamination.
- 6.3.6 Prepare the ambulance to receive contaminated personnel by preparing a simple laydown area in the patient area of the ambulance using plastic or herculite and tape, if time permits.
- 6.3.7 Verify that EMS personnel have been issued dosimetry; if not, issue dosimetry from the Emergency Ambulance Kit, and document issuance.
- 6.3.8 Ensure the following:
- a. Dosimetry is worn properly by EMS personnel.
 - b. Both ambulance personnel and contaminated patient retain personal dosimetry devices while enroute to offsite medical facility.
- 6.3.9 Request to accompany the patient in the ambulance, upon completion of patient loading, in order to assist in contamination control. Should the request be denied, the tester shall follow in a vehicle to the medical facility.
- 6.3.10 Notify the Shift Manager of the patient arrival time at the medical facility.
- 6.3.11 Survey, decontaminate, and release EMS personnel and equipment using Ambulance Radiological Release Survey Form, DBEP-060 in order to restore to service as soon as possible.
- 6.3.12 Provide decontamination assistance for contaminated injured personnel, if requested.
- 6.3.13 Survey, decontaminate, and release hospital equipment and areas utilizing Medical Facility Release Survey Form, DBEP-061.

6.3.14 Collect all potentially contaminated waste and prepare it for shipment back to the Davis-Besse Nuclear Power Station.

6.3.15 Retrieve, read, and document dosimetry issued for the emergency response.

7.0 FINAL CONDITIONS

7.1 The contaminated injured person has arrived at the medical facility.

8.0 RECORDS

8.1 The following quality assurance records are completed by this procedure and shall be listed on the Nuclear Records List, captured, and submitted to Nuclear Records Management in accordance with NG-NA-00106:

8.1.1 None

8.2 The following non-quality assurance records are completed by this procedure and may be captured and submitted to Nuclear Records Management, in accordance with NG-NA-00106:

8.2.1 Personnel Decontamination Form, DBEP-059

8.2.2 Ambulance Radiological Release Survey Form, DBEP-060

8.2.3 Medical Facility Radiological Release Survey Form, DBEP-061

COMMITMENTS

<u>Section</u>	<u>Reference</u>	<u>Comments</u>
6.3.10 6.3.11 6.3.12 6.3.13	TERMS O 15088	RP personnel shall survey areas and collect all potentially radioactive waste before departure.