



Duke Power
Catawba Nuclear Station
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Gary R. Peterson
Vice President

January 22, 2001

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

Subject: Duke Energy Corporation
Catawba Nuclear Station Units 1 and 2
Docket Nos. 50-413 and 50-414
Emergency Plan Implementing Procedures

Please find enclosed for NRC Staff use and review the following
Emergency Plan Implementing Procedure:

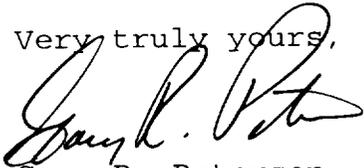
HP/0/B/1009/008, Contamination Control of Injured Individuals
(Rev. 015)

This revision is being submitted in accordance with 10CFR
50.54(q) and does not decrease the effectiveness of the
Emergency Plan Implementing Procedures or the Emergency Plan.

By copy of this letter, two copies of the above documents are
being provided to the NRC, Region II.

If there are any questions, please call Tom Beadle at 803-831-
4027.

Very truly yours,



Gary R. Peterson

Attachments

A045

U.S. Nuclear Regulatory Commission
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xc (w/attachments):

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U.S. Nuclear Regulatory Commission
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Atlanta Federal Center
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(w/o attachments):

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DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME I

PROCEDURE	TITLE
RP/0/A/5000/001	Classification of Emergency (Rev. 013)
RP/0/A/5000/002	Notification of Unusual Event (Rev. 035)
RP/0/A/5000/003	Alert (Rev. 037)
RP/0/A/5000/004	Site Area Emergency (Rev. 039)
RP/0/A/5000/005	General Emergency (Rev. 039)
RP/0/A/5000/06	Deleted
RP/0/A/5000/006 A	Notifications to States and Counties from the Control Room (Rev. 012)
RP/0/A/5000/006 B	Notifications to States and Counties from the Technical Support Center (Rev. 011)
RP/0/A/5000/006 C	Deleted
RP/0/A/5000/007	Natural Disaster and Earthquake (Rev. 019)
RP/0/A/5000/08	Deleted
RP/0/B/5000/008	Spill Response (Rev. 017)
RP/0/A/5000/009	Collision/Explosion (Rev. 005)
RP/0/A/5000/010	Conducting A Site Assembly or Preparing the Site for an Evacuation (Rev. 013)
RP/0/A/5000/11	Deleted
RP/0/B/5000/12	Deleted
RP/0/B/5000/013	NRC Notification Requirements (Rev. 026)
RP/0/B/5000/14	Deleted
RP/0/A/5000/015	Core Damage Assessment (Rev. 004)
RP/0/B/5000/016	Deleted
RP/0/B/5000/17	Deleted

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME I

PROCEDURE	TITLE
RP/0/A/5000/018	Emergency Worker Dose Extension (1/15/96)
RP/0/B/5000/019	Deleted
RP/0/A/5000/020	Technical Support Center (TSC) Activation Procedure (Rev. 014)
RP/0/A/5000/021	Deleted
RP/0/B/5000/022	Evacuation Coordinator Procedure (Rev. 003)
RP/0/B/5000/023	Deleted
RP/0/A/5000/024	OSC Activation Procedure (Rev. 007)
RP/0/B/5000/025	Recovery and Reentry Procedure (Rev. 002)
RP/0/B/5000/026	Response to Bomb Threat (Rev. 001)
RP/0/B/5000/028	Communications and Community Relations EnergyQuest Emergency Response Plan (Rev. 001)

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME II

PROCEDURE	TITLE
HP/0/B/1000/006	Emergency Equipment Functional Check and Inventory (Rev. 053)
HP/0/B/1009/001	Radiation Protection Recovery Plan (Rev. 007)
HP/0/B/1009/003	Radiation Protection Response Following a Primary to Secondary Leak (Rev. 008)
HP/0/B/1009/004	Environmental Monitoring for Emergency Conditions Within the Ten-Mile Radius of CNS (Rev. 027)
HP/0/B/1009/005	Personnel/Vehicle Monitoring for Emergency Conditions (Rev. 016)
HP/0/B/1009/006	Alternative Method for Determining Dose Rate Within the Reactor Building (Rev. 008)
HP/0/B/1009/007	In-Plant Particulate and Iodine Monitoring Under Accident Conditions (Rev. 018)
HP/0/B/1009/008	Contamination Control of Injured Individuals (Rev. 015)
HP/0/B/1009/009	Guidelines for Accident and Emergency Response (Rev. 038)
HP/0/B/1009/014	Radiation Protection Actions Following an Uncontrolled Release of Radioactive Material (Rev. 008)
HP/0/B/1009/016	Distribution of Potassium Iodide Tablets in the Event of a Radioiodine Release (Rev. 011)
HP/0/B/1009/017	Deleted
HP/1/B/1009/017	Post-Accident Containment Air Sampling System (Rev. 001)
HP/2/B/1009/017	Post-Accident Containment Air Sampling System (Rev. 000)
HP/0/B/1009/018	Deleted
HP/0/B/1009/019	Emergency Radio System Operation, Maintenance and Communication (Rev. 010)
HP/0/B/1009/024	Implementing Procedure for Estimating Food Chain Doses Under Post-Accident Conditions (Rev. 002)

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CATAWBA NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME II

PROCEDURE	TITLE
HP/0/B/1009/025	Deleted
HP/0/B/1009/026	On-Shift Offsite Dose Projections (Rev. 002)
SH/0/B/2005/001	Emergency Response Offsite Dose Projections (Rev. 001)
SH/0/B/2005/002	Protocol for the Field Monitoring Coordinator During Emergency Conditions (Rev. 001)
OP/0/A/6200/021	Operating Procedure for Post Accident Liquid Sampling System II+ (Rev. 032)
SR/0/B/2000/001	Standard Procedure for Public Affairs Response to the Emergency Operations Facility (Rev. 002)
SR/0/B/2000/002	Standard Procedure for EOF Commodities and Facilities (Rev. 001)
SR/0/B/2000/003	Activation of the Emergency Operations Facility (Rev. 006)
SR/0/B/2000/004	Notification to States and Counties from the Emergency Operations Facility (Rev. 001)

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. HP/0/B/1009/008
Revision No. 015

PREPARATION

- (2) Station Catawba
- (3) Procedure Title Contamination Control Of Injured Individuals
- (4) Prepared By Douglas V. Banzinger Date 12/18/00
- (5) Requires 10CFR50.59 evaluation?
 Yes (New procedure or revision with major changes)
 No (Revision with minor changes)
 No (To incorporate previously approved changes)
- (6) Reviewed By W.D. Faulkner (QR) Date 11/2/01
 Cross-Disciplinary Review By Sam L Mitchell (QR) NA Date 01/03/01
 Reactivity Mgmt. Review By (QR) NA GLW Date 01/03/01
- (7) Additional Reviews
 Reviewed By Date
 Reviewed By Date
- (8) Temporary Approval (if necessary)
 By (SRO/QR) Date
 By (QR) Date
- (9) Approved By Michael C. Boyer Date 1/8/01

PERFORMANCE (Compare with Control Copy every 14 calendar days while work is being performed.)

- (10) Compared with Control Copy Date
 Compared with Control Copy Date
 Compared with Control Copy Date
- (11) Date(s) Performed
 Work Order Number (WO#)

COMPLETION

- (12) Procedure Completion Verification
 Yes NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
 Yes NA Listed enclosures attached?
 Yes NA Data sheets attached, completed, dated, and signed?
 Yes NA Charts, graphs, etc. attached, dated, identified, and marked?
 Yes NA Procedure requirements met?
 Verified By Date
- (13) Procedure Completion Approved Date
- (14) Remarks (Attach additional pages, if necessary.)

Duke Power Company
Catawba Nuclear Station

Contamination Control Of Injured Individuals

Information Use

Procedure No.

HP/0/B/1009/008

Revision No.

015

Electronic Reference No.

CN005CVC

Contamination Control Of Injured Individuals

1. Purpose

This procedure is for Radiation Protection (RP) response to personnel injury in Radiation Control Area (RCA)/Radiation Control Zone (RCZ) and provides methods for contamination control during treatment and transport of a patient to a hospital.

2. References

- 2.1 HP/0/B/1000/006 - Emergency Equipment Functional Check and Inventory
- 2.2 SH/0/B/2000/006 - Removal of Items From RCA/RCZs and Use of Release/Radioactive Material Tags
- 2.3 SH/0/B/2001/003 - Investigation of Skin and Clothing Contaminations

3. Limits and Precautions

None

4. Procedure

- NOTE:**
- Staff Support Scientist or designated Qualified Reviewer may authorize operation outside the scope and acceptance criteria stated in this procedure provided the technical basis and impact to existing procedure 10 CFR 50.59 evaluation is clearly documented on applicable paperwork.
 - **IF** original 10 CFR 50.59 evaluation is affected, another evaluation must be performed.

4.1 Use of Procedure

- WARNING:**
- Lifesaving first aid has priority over contamination control.
 - Biohazard material may be present during medical response. Blood, body excretions, and/or amputations should be handled as biohazard material.
 - Biohazard material(s) may include needle/sharps which must be transported in a "Sharps Container" with proper bio-hazard labeling in accordance with Occupational Safety Health Administration (OSHA) requirements.
 - Bloodborne Pathogen training is required in order to handle biohazard material. RP personnel are **NOT** trained to handle Bloodborne Pathogens.

- **WHEN** responding to an injured person, implement this procedure per Use of Procedure Table, Enclosure 5.1.

4.2 Notifications

NOTE: The following notifications for contaminated injury response should be made as early in the event as possible.

- 4.2.1 **IF** MERT has **NOT** been notified, call 4911.
- 4.2.2 **IF** additional RP support is needed, notify RP Shift Supervisor or designee.
- 4.2.3 **IF** Operations Support Center (OSC) is activated, report contaminated injury response team status to RP Supervision approximately every 15 minutes.

4.3 Initial Response

NOTE:

- Medical Emergency Response Team (MERT) may **NOT** allow a complete contamination survey of the injured person due to severity of injury.
- **IF** unable to survey injured person's entire body prior to releasing individual from CNS report survey result as "estimated personnel contamination above station release limits".

- 4.3.1 **IF** possible, perform a contamination survey of injured person using one or more of the following methods:
 - frisker survey
 - Personnel Contamination Monitor (PCM)
 - portable survey instrument
- 4.3.2 Inform MERT of individual's radiological condition.
- 4.3.3 **IF** individual is **NOT** contaminated, assist MERT in release of injured person from RCA/RCZ.

NOTE: Steps 4.3.4 through 4.3.5 may be performed in any sequence deemed necessary.

4.3.4 **WHEN** appropriate, assist MERT in relocating individual to one of the following:

- Hot side of Change Room
- First Aid Room
- other location determined by MERT

4.3.5 **IF** necessary, obtain additional RP resources for:

- setting up First Aid Room RCZ
- surveying transport path of injured individual
- surveying area where injury occurred
- setting up RCZ at hospital emergency room

4.4 First Aid Room Set-up

NOTE: RP contaminated injury materials are available in emergency kit located in Auxiliary Building First Aid Room.

4.4.1 **IF** practical set-up/install:

- precut floor covering
- RCZ for personnel decontamination

4.4.2 **IF** needed, set up receptacles for the following:

- contaminated trash
- clean trash
- bio-hazards (i.e., receptacle for patient excretions and/or articles containing blood)
- needles or sharps

4.4.3 Ensure First Aid Room is posted for radiological conditions.

4.5 Personnel Decontamination/Contamination Control

- NOTE:**
- MERT member in charge determines that personnel decontamination can be performed based on individual's medical condition. Decontamination shall **NOT** take precedence over vital medical treatment.
 - Steps 4.5.1 through 4.5.5 may be performed in any sequence deemed necessary.

- 4.5.1 Decontaminate (decon) individual per SH/0/B/2001/003 (Investigation of Skin and Clothing Contaminations).
- 4.5.2 **IF** individual is wearing protective clothing (PCs) assist in removal of PCs.
- 4.5.3 **IF** injured person is wearing personal clothing, preserve personal items when possible.
- 4.5.4 **IF** personal items are removed from the injured person:
 - ensure items are **NOT** contaminated
 - ensure items are turned over to Security
- 4.5.5 **IF** directed by MERT, assist in moving the injured person from initial stretcher to a radiologically clean stretcher or gurney.

4.6 Preparation for Transport to Off-site Facility

- 4.6.1 **IF** injured person is contaminated above station release limits, notify the Control Room of radiological status as soon as practical.
- 4.6.2 Perform radiological survey of injured person amputation(s) and/or body excretion(s) per MERT request.
- 4.6.3 Identify radiological hazards for any medical containers to be sent to hospital (e.g., label containers with radiological information).
- 4.6.4 **WHEN** injured person is leaving CNS, ensure Thermoluminescent Dosimeter (TLD) and Self Reading Dosimeter (SRD) is retained for exposure record information.

4.7 Contamination Control during Transport to Off-site Facility

- NOTE:**
- **IF** possible, RP should accompany contaminated injured person in transport vehicle.
 - Steps 4.7.1 through 4.7.7 may be performed in any sequence deemed necessary.

- 4.7.1 Wear dosimetry in transport vehicle.
- 4.7.2 Log out of Site Security Accountability System.
- 4.7.3 Inform ambulance Emergency Medical Technician (EMT) of contamination level(s) of individual.

- NOTE:** EMTs may wear their own protective equipment in lieu of or in addition to PC's issued by RP (e.g., clothing for infectious disease control).

- 4.7.4 Make the following items available to EMT:
- Protective Clothing
 - TLD
 - Dose Card
 - Self-Reading Dosimeter
- 4.7.5 **IF** practical, cover ambulance surfaces for contamination control.
- 4.7.6 **IF** requested by EMT **OR** MERT, assist in transfer of injured person to ambulance.
- 4.7.7 **IF** EMT treats individual, provide contamination control.

4.8 Contamination Control of Transport Vehicle Following Transport

- NOTE:** Ambulance(s) may be released for use per direction of hospital staff or York County Emergency Management prior to completion of step 4.8.1 through 4.8.3.

- 4.8.1 Establish RP control of ambulance by asking driver to:
- control ambulance keys
 - secure ambulance doors and windows

4.8.2 **IF** RP assistance is requested by hospital personnel **OR** York County Emergency Management to meet Federal Emergency Management Agency (FEMA) requirements, provide support as necessary.

4.8.3 Perform a contamination survey of ambulance and equipment.

A. **IF** necessary, decontaminate ambulance and equipment.

B. **WHEN** survey results are < release limits specified in SH/0/B/2000/006 (Removal of Items From RCA/RCZs and Use of Release/Radioactive Material Tags), release ambulance and equipment.

4.9 Contamination Control at Off-site Facility

<p>NOTE:</p> <ul style="list-style-type: none">• RP items are available in Hospital Emergency Kit located in Duke Energy Kit Room.• Perform step 4.9.1 through 4.9.4 in any sequence deemed necessary

4.9.1 **IF** practical, perform one or more of the following to control contamination:

- set up RCZ at treatment room
- tape floor covering material to treatment area floor
- cover ventilation ducts in treatment area
- cover diagnostic equipment

4.9.2 Provide attending hospital personnel with the following:

- TLD labeled with hospital worker's name and social security number
- SRD (Self Reading Dosimeter)
- Dose Card

- 4.9.3 During medical treatment, control contamination as follows:
- prescribe protective clothing for attending personnel based on contamination levels
 - segregate contaminated trash, biohazard material and clean trash in separate receptacles
 - establish boundary control by monitoring hospital personnel entry/exit and removal of equipment from RCZ
 - consult hospital personnel before handling biohazard material
- 4.9.4 **IF** surgery is required, discuss need for RP presence in treatment area with attending medical staff.

4.10 Restoration of Off-site Facility

NOTE: Steps 4.10.1 through 4.10.7 may be performed in any sequence deemed necessary.

- 4.10.1 **IF** necessary, assist hospital personnel restore treatment areas to operational readiness.
- 4.10.2 Perform contamination survey of hospital area(s) used for treatment of injured person(s).
- 4.10.3 Perform contamination survey of hospital equipment used for treatment of injured person(s).
- 4.10.4 **IF** hospital area or equipment is contaminated, decon to < limits specified in SH/0/B/2000/006 (Removal of Items From RCA/RCZs and Use of Release/Radioactive Material Tags).

NOTE: **DO NOT** return needles and/or sharps from the hospital to CNS unless directed by attending physician or hospital medical staff.

- 4.10.5 **IF** internal contamination is **NOT** suspected, there is no need to remove individual's bodily fluids from the hospital.
- 4.10.6 **IF** necessary to transport **OR** return contaminated items to CNS, contact RP Staff and/or RP Supervision for instruction.
- 4.10.7 Collect dosimetry from hospital staff and EMT(s).
- 4.10.8 Ensure dose cards are filled out properly and collected for return to DRC.

4.11 Follow-up Actions

- 4.11.1 Document contaminated personnel per SH/0/B/2001/003 (Investigation of Skin and Clothing Contaminations).
- **IF** unable to survey injured persons entire body report survey result as "estimated personnel contamination above station release limits".

NOTE: Steps 4.11.2 through 4.11.4 may be performed in any sequence deemed necessary.

- 4.11.2 **IF** any of the following is detected, ensure follow-up radiological assessment(s) are scheduled (e.g., Body Burden Analysis):
- respiratory intake
 - contaminated wound
 - skin absorption
 - mouth contamination with possible ingestion
- 4.11.3 **WHEN** practical, survey MERT equipment.
- **IF** contaminated, ensure equipment is deconned.
 - Release MERT equipment in accordance with SH/0/B/2000/006 (Removal of Items From RCA/RCZs and Use of Release/Radioactive Material Tags).
- 4.11.4 Ensure any dosimetry issued for contaminated injury event is returned to Dosimetry Record Control (DRC).
- 4.11.5 **WHEN** RP actions are complete, ensure the following kits are restored to condition of readiness per HP/0/B/1000/006 (Emergency Equipment Functional Check and Inventory):
- Hospital Emergency Kit
 - First Aid Room Emergency Kit

5. Enclosures

- 5.1 Use of Procedure Table

Use of Procedure Table

NOTE: Section use of this procedure is based on Medical Emergency Response Team (MERT) assessment of injury (e.g., First Aid Room Set-up may **NOT** be required and minor injury usually does **NOT** require transport to a hospital).

Procedure Section	Injured person < release limit with minor injury	Injured person < release limit with severe injury	Injured person ≥ release limit with minor injury	Injured person ≥ release limit with severe injury
4.1 Use of Procedure	X	X	X	X
4.2 Notifications		X	X	X
4.3 Initial Response	X	X	X	X
4.4 First Aid Room Set-up		X	X	X
4.5 Personnel Decontamination/Contamination Control			X	X
4.6 Preparation for Transport to Off-site Facility				X
4.7 Contamination Control during Transport to Off-site Facility				X
4.8 Contamination Control of Transport Vehicle Following Transport				X
4.9 Contamination Control at Off-site Facility				X
4.10 Restoration of Off-site Facility				X
4.11 Follow-up Actions	X	X	X	X