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Control Copy Number: 1665

Transmittal Number: 0312-45066

Transmittal Date: 12-17-2003

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		Document				Rev	Status
TOC 1	TOC 2	Type	Number	Sht/Sec	Changes		
old	EPIB	PROC	RA-EP-02260			0001	APPROVED
new	EPIB	PROC	RA-EP-02260			0002	APPROVED

Davis-Besse Nuclear Power Station

EMERGENCY PLAN IMPLEMENTING PROCEDURE

RA-EP-02260

RADIOLOGICAL CONTROLS IN THE DBAB

REVISION 02

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Procedure Owner: Manager – Regulatory Affairs

Effective Date: DEC 17 2003

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 tasks performed or directed by the Radiological Testing Laboratory (RTL) Coordinator during the activation, operation, and deactivation of the RTL, and performance of the Radiation Protection activities in support of Emergency Response Operations in the Davis-Besse Administration Building (DBAB).

2.0 REFERENCES

2.1 Developmental

2.1.1 Davis-Besse Nuclear Power Station Emergency Plan

2.1.2 DB-HP-01439, Bicron Labtech

2.2 Implementation

2.2.1 RA-EP-02250, Radiation Monitoring Team Surveys

2.2.2 RA-EP-02550, Offsite Personnel and Vehicle Monitoring and Decontamination

2.2.3 RA-EP-02270, Facilities Support

3.0 DEFINITIONS

3.1 FRISKER – (1) A ratemeter equipped with a beta- or alpha-sensitive hand-held probe or (2) a contamination monitor.

3.2 RADIATION PROTECTION ACTIVITIES - Actions or tasks performed by Radiation Monitoring Teams (RMTs) or the RTL Coordinator during radiological surveys, decontamination efforts, sample analysis and collections (environmental or air samples).

3.3 STEP-OFF-PAD (SOP) - A designated area (physical pad or area marked so as to define a boundary between clean and contaminated areas) which is utilized as a control point for contamination monitoring, or access to radiologically restricted areas.

4.0 RESPONSIBILITIES

4.1 The RTL Coordinator is responsible for implementation of this procedure.

4.2 The Supervisor - Emergency Preparedness is responsible for collection and submittal of records to Nuclear Records Management.

5.0 INITIATING CONDITIONS

- 5.1 An emergency has been declared and classified as an Alert, a Site Area Emergency, or a General Emergency.
- 5.2 At the direction of the Emergency Director.

6.0 PROCEDURE

6.1 RTL Activation

The RTL Coordinator shall:

- 6.1.1 Initialize the Radiological Testing Lab (RTL) log by logging the date, time and current emergency classification level.
- 6.1.2 Ensure all RTL personnel complete the RTL Status Board items.
- 6.1.3 Ensure all Radiation Monitoring Team (RMT) members are issued dosimeters, and that the Dosimeter Record form, DBEP-107, is completed.
- 6.1.4 Ensure RMTs read the Potassium Iodide (KI) Administration form, DBEP-106, and sign it if they agree to take KI should it be recommended.
- 6.1.5 Verify individual dose through the RRA Access Database.
 - a. Ensure accurate dose determination is made.
 - b. Ensure approvals to exceed one Rem are obtained prior to exposing the individual.
 - c. Address personnel excluded from the Radiologically Restricted Area (RRA) because of qualifications or dose.
- 6.1.6 Assign RMT members to a field team or a DBAB team.
 - a. The first four RMTs should be assigned to field teams unless the Dose Assessment Coordinator determines that the field teams are not needed at this time.
 - b. If an RMT member's yearly exposure is greater than 1000 mrem, then consider assigning that RMT member to the DBAB.
 - c. If an RMT member does not agree to take KI, assign that RMT member to the DBAB.

NOTE: 6.1.7

- Dosimetry should be issued to the OCA Security Stations and the Warehouse at a Site Area Emergency, but no later than a General Emergency
- Dosimetry may be issued earlier with the concurrence of the Dose Assessment Coordinator.
- Supply chain personnel may also be located in the DBAB Annex.

- 6.1.7 Assign an RMT to prepare and distribute dosimeters to OCA Security Station and Warehouse in accordance with RA-EP-02250.
- 6.1.8 Notify the Dose Assessment Coordinator that the RTL is activated when the RTL is staffed with minimum staffing of the RTL Coordinator and five RMT members.
- 6.1.9 Notify the Dose Assessment Coordinator when a Radiation Monitoring Team is ready for deployment.
- 6.1.10 Depending on the nature of the emergency, the following actions shall be prioritized by the RTL Coordinator:
- a. Direct the installation of a frisker at the south security station (Map Location J) and a frisker at the Plant Entrance Area (Map Location E) (see Attachment 1, DBAB Map).
 - b. Instruct the DBAB RMTs to prepare the RTL counting instruments for use in accordance with RA-EP-02250.
 - c. Instruct the DBAB RMTs to perform an operability check on the Continuous Air Monitor (CAM) in accordance RA-EP-02250.
 - d. Set up the DBAB Monitoring and Decontamination Station in accordance with RA-EP-02250.
 - e. Ensure that the Owner Controlled Area (OCA) Security Supervisor is notified that the berthing area hallway access door will be opened.

- f. Assign a DBAB RMT to prepare radiologically posted containers in the RTL for:
1. Storage of contaminated environmental samples.
 2. Storage of contaminated air samples and smears.
 3. Contaminated waste for disposal.
 4. Contaminated materials and equipment awaiting decontamination.

6.1.11 Monitor communications on the Radiological Data Loop, as appropriate.

6.2 RTL Operation

The RTL Coordinator shall:

6.2.1 Direct a DBAB RMT to perform an initial DBAB habitability survey when notified of a release, if background should increase, or at the direction of the Dose Assessment Coordinator. The surveys should include:

- a. Area radiation readings.
- b. Smear surveys of DBAB entrances.
- c. Documentation of survey results in accordance with RA-EP-02250.

6.2.2 Log survey results.

6.2.3 Ensure radiological surveys (radiation and contamination levels) are performed in DBAB on a periodic basis, or as requested by the Dose Assessment Coordinator.

6.2.4 IF a release of radioactive material has occurred from the plant, OR the Dose Assessment Coordinator /RTL Coordinator determines there is a need, THEN direct monitoring and decontamination of personnel accessing the DBAB through the north security station. Personnel shall monitor themselves at the frisker station until the individual is determined to be free of contamination or decontamination of the individual is initiated.

6.2.5 Ensure contaminated personnel are issued shoe covers and gloves, and directed to the DBAB decontamination station for decontamination.

- 6.2.6 Contact the Emergency RP Manager to coordinate further decontamination efforts or transportation to offsite medical facilities for personnel that cannot be successfully decontaminated.
- 6.2.7 Assign a DBAB RMT to read and document DBAB area SRD readings on a regular basis, or when requested by the Dose Assessment Coordinator.
- 6.2.8 At the direction of the Dose Assessment Coordinator, in the event of an imminent release or if a release is in progress, the RTL Coordinator shall instruct the Emergency Security Manager to secure the front lobby entrance to the DBAB.

NOTE 6.2.9

DBAB ventilation and potable water are isolated by the Emergency Facilities Services Manager using RA-EP-02270, Facilities Support.

- 6.2.9 IF DBAB area SRDs or DBAB radiological surveys indicate an individual's total dose will exceed 100 mrem (above background) in less than one year, OR exceed dose rates of 2 mrem/hr, THEN:
- a. Notify the Dose Assessment Coordinator.
 - b. Recommend to the Dose Assessment Coordinator, that all nonessential personnel be evacuated.
 - c. Notify the Dose Assessment Coordinator of any abnormal air sample results.
 - d. Document completion of sample analysis and results in the RTL log.
- 6.2.10 Ensure environmental samples collected by field RMTs are:
- a. Properly packaged
 - b. Properly labeled
 - c. Recorded on a DBEP-110, RTL Sample Log before placing in the storage area.

6.2.11 Assist or direct DBAB RMTs in decontamination and verification monitoring in accordance with RA-EP-02550, Offsite Personnel and Vehicle Monitoring and Decontamination, if required.

6.2.12 Contact the Dose Assessment Coordinator and request additional RMT members be called in as required.

6.3 RTL Deactivation

The RTL Coordinator shall:

6.3.1 Perform or direct actions and tasks to return the RTL and equipment to a pre-activation state of readiness.

6.3.2 Ensure environmental samples are properly handled and stored before shipment.

6.3.3 Arrange for the disposition of accumulated radwaste and items which require onsite decontamination.

6.3.4 Ensure appropriate records and documentation are completed and forwarded to the Supervisor - Emergency Preparedness.

6.3.5 Direct the DBAB RMTs to perform deactivation in accordance with RA-EP-02250.

6.3.6 Assign an RMT to collect dosimeters and documentation from the Access Road Security Station and return them to the RTL.

6.3.7 Assign an RMT to collect personnel dosimeters and issuance documentation from the DBAB north and south security stations and return them to the RTL.

6.3.8 Assign an RMT to collect DBAB area dosimeters and document final SRD readings.

6.3.9 Contact RP and arrange for the reading of TLDs (DBAB personnel, RTL personnel, OCA Security Stations and Warehouse, and DBAB Area TLDs) used during the emergency response.

6.3.10 Shutdown and restore the DBAB Monitoring and Decontamination Station:

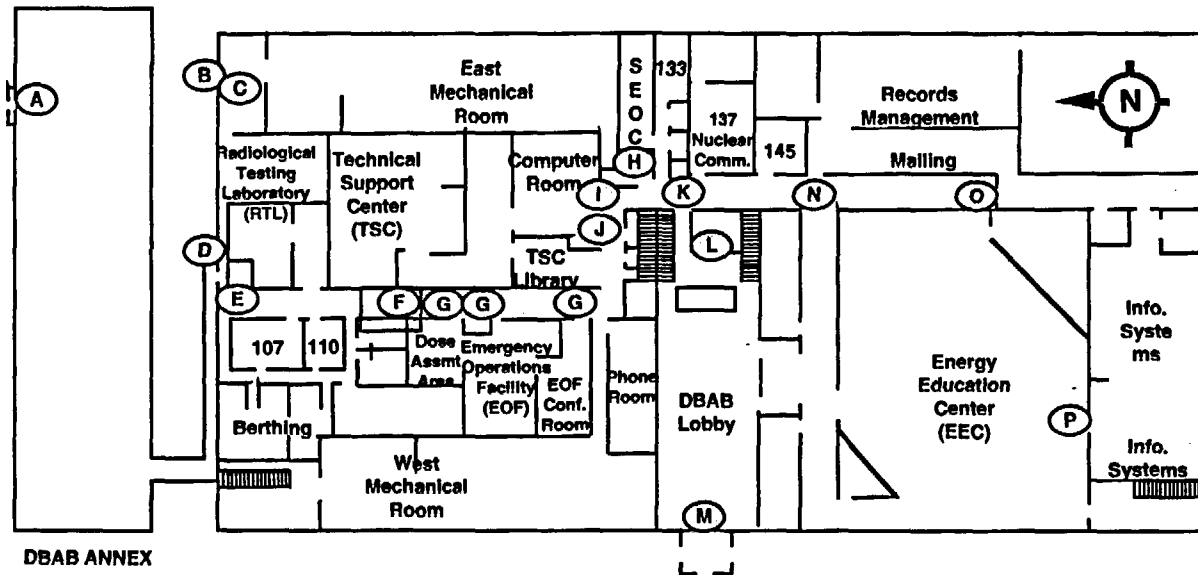
- a. Perform a radiological survey to verify the area is not contaminated.
- b. Decontaminate areas and equipment found to be contaminated.
- c. Bag and label all contaminated materials and prepare for transport to RP for final disposition.
- d. Remove all postings and return the area to the pre-activation condition.

6.3.11 Debrief the RMTs and forward comments and suggestions to the Dose Assessment Coordinator.**7.0 FINAL CONDITIONS**

- 7.1 All records generated have been reviewed and submitted to the Supervisor - Emergency Preparedness.
- 7.2 All equipment and supplies have been returned to their normal storage locations, and inventory deficiencies noted for resupply.
- 7.3 The Dose Assessment Coordinator has been notified of any samples collected and stored pending transport offsite for analyses.

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 DBEP-110, RTL Sample Log.
 - 8.2.2 DBEP-106, Potassium Iodide (KI) Administration
 - 8.2.3 DBEP-107, Dosimeter Record



DAVIS-BESSE ADMINISTRATION BUILDING

- | | |
|------------------------------------|--|
| (A) N. DBAB Annex Door | (I) Computer Room Door |
| (B) NE. DBAB Entrance Door | (J) South Badging Station Hallway Door |
| (C) RMT Access Door | (K) Lobby to Hallway Door |
| (D) N. Entrance Double Doors | (L) DBAB Elevator |
| (E) RTL Door | (M) DBAB Lobby Doors |
| (F) TSC | (N) EOF Lobby to Hallway Door |
| (G) EOF | (O) EOF to Hallway Door |
| (H) DBAB East Mechanical Room Door | (P) EOF to Info. Systems Door |

DBAB MAP
 Page 1 of 1
ATTACHMENT 1

COMMITMENTS

<u>Section</u>	<u>Reference</u>	<u>Comments</u>
None	None	None