

Davis Besse Power Station
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Davis-Besse Nuclear Power Station

EMERGENCY PLAN IMPLEMENTING PROCEDURE

RA-EP-02710

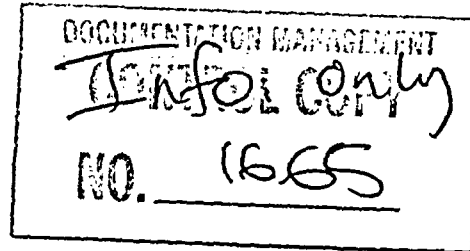
REENTRY

REVISION 02

Prepared by: B.W. Cope

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 provides guidance for reentry into the Davis-Besse Nuclear Power Station (DBNPS) after the emergency situation is under control.

2.0 REFERENCES

2.1 Departmental

- 2.1.1 DB-HP-01201, Administrative Dose Control Levels
- 2.1.2 RA-EP-02410, Operations Support Center Activation and Response
- 2.1.3 RA-EP-02620, Emergency Dose Control and Potassium Iodide Distribution
- 2.1.4 RA-EP-02640, Station Radiological Surveys and Controls During Emergencies
- 2.1.5 RA-EP-02720, Recovery

2.2 Manuals

- 2.2.1 DBNPS Emergency Plan
- 2.2.2 Corporate Emergency Response (CER) Plan, Davis-Besse Nuclear Power Station (DBNPS)

3.0 DEFINITIONS

- 3.1 **REENTRY** – Reentry into the DBNPS site to perform certain essential actions which could not be performed coincident with the immediate response to the emergency. Reentry is made when the emergency situation is under control and more deliberate planning can be made for the activities to be performed. Reentry may occur before termination of the emergency or it may be conducted as part of the Recovery.

4.0 RESPONSIBILITIES

- 4.1 For reentry activities conducted before termination of the emergency and the initiation of Recovery, the Emergency Plant Manager shall be responsible for authorizing reentry and implementing this procedure. He shall inform the Emergency Director that reentry is being initiated.
- 4.2 For reentry activities conducted during Recovery, the Plant Recovery Manager shall be responsible for implementation of this procedure, and shall ensure that the Recovery Director remains informed.

- 4.3 The Emergency Radiation Protection (RP) Manager and the Operations Support Center Radiation Protection (OSC RP) Coordinator shall plan the personnel radiological protection aspects of reentry into the DBNPS and appoint OSC RP Briefer/Debriefers.
- 4.4 The OSC Manager shall coordinate reentry activities and ensure that all reentry teams have been adequately briefed and debriefed on their return.
- 4.5 The Supervisor – Emergency Preparedness shall be responsible for the accumulation and submittal of Quality Assurance Records and other records deemed necessary to Nuclear Records Management.

5.0 INITIATING CONDITIONS

This procedure shall be initiated when the emergency situation is under control and conditions exist which require entry into Station areas that have been evacuated due to adverse conditions or have been closed to personnel during an emergency.

6.0 PROCEDURE**6.1 Emergency Plant Manager/Plant Recovery Manager**

The Emergency Plant Manager or if recovery has been initiated, the Plant Recovery Manager should:

6.1.1 Consult with the other emergency response personnel before reentry and review the following:

- a. Available surveillance data to determine the plant areas actually or potentially affected by radiation and/or contamination.

CAUTION 6.1.1.b

The use of personnel who have a high cumulative radiation dose shall be minimized. Every effort shall be made to maintain radiation dose within the limits specified in DB-HP-01201. The Emergency Director shall be notified, and his approval obtained, before any planned radiation dose in excess of applicable limits specified in RA-EP-02620.

- b. Radiation dose of personnel who shall participate in reentry operations to determine additional personnel requirements.
 - c. The adequacy of radiation survey instrumentation, equipment and any special dosimetry requirements.
 - d. Primary and backup communications methods.
 - e. Known or potential hazards to personnel.
 - f. Additional security requirements for emergencies that involve a security event.
- 6.1.2 Authorize all entries into evacuated areas of DBNPS in accordance with RA-EP-02720, if recovery has been initiated.**
- 6.1.3 Approve and prioritize all reentry team tasks. Initial reentry team goals typically include the following:**
- a. Determination of the initial objectives required for recovery operations.
 - b. Observation of hazards or potential hazards associated with the recovery.
 - c. Obtaining a comprehensive radiation surveillance of DBNPS facilities.
 - d. Isolating and posting of radiological and safety hazards.

NOTE 6.1.4

Non-emergency limits for radiation dose shall be considered applicable for reentry activities, except under extreme circumstances. Refer to DB-HP-01201.

- 6.1.4 Review and approve, as appropriate, any radiation dose in excess of applicable limits.
- 6.1.5 Keep the Emergency Director or Recovery Director informed of significant events.

6.2 Emergency RP Manager/OSC RP Coordinator

The Emergency RP Manager and/or the OSC RP Coordinator should:

- 6.2.1 Establish guidelines to ensure that reentry operations are conducted in a manner to minimize radiation dose to personnel.
- 6.2.2 Provide radiological controls coverage for all reentry teams in accordance with RA-EP-02640.
- 6.2.3 Ensure that the OSC Briefer/Debriefer adequately briefs reentry personnel on radiological hazards before they enter the RRA using the Emergency Team Briefing Form, DBEP-024.
- 6.2.4 Ensure that the OSC Team Briefer/Debriefer is informed of any significant changes in conditions so that all subsequent teams have access to the most current information.

6.3 OSC Manager

- 6.3.1 Oversee the activities of the OSC in accordance with RA-EP-02410.
- 6.3.2 Update the Emergency Plant Manager or Recovery Manager periodically on current plant conditions and the status of the reentry teams.

6.4 Assistant OSC Manager

The Assistant OSC Manager should:

- 6.4.1 Designate members of the reentry teams.
- 6.4.2 Reentry Teams shall consist of a minimum of two people:
 - a. One member trained in radiation protection.
 - b. The second member will depend on the specific tasks to be accomplished.
- 6.4.3 A Standby Team shall be designated and briefed with the reentry team on known or potential hazards, and kept informed of the reentry team's location so that they can provide rescue and first aid assistance at all times. The Standby Team shall consist of at least two members:
 - a. One trained in radiation protection.
 - b. One trained in first aid.
- 6.4.4 Ensure the OSC Team Briefer/Debriefers adequately briefs reentry personnel on the maintenance and/or operation objectives of the mission, unsafe conditions and appropriate safety precautions using the Emergency Team Briefing Form, DBEP-024.
- 6.4.5 After obtaining approval from the Emergency Plant Manager or Plant Recovery Manager, dispatch the Reentry Team(s).
- 6.4.6 Maintain communications with the reentry teams.
- 6.4.7 Keep the OSC Manager informed of reentry team activities.
- 6.4.8 Ensure the OSC Team Briefer/Debriefers interview teams on their return using the Emergency Team Debriefing Form, DBEP-024.

6.5 OSC Team Briefer/Debriefers

The OSC Team Briefer/Debriefers should:

- 6.5.1 Ensure that reentry teams are adequately briefed using the Emergency Team Briefing Form, DBEP-024:
 - a. Areas to be surveyed.
 - b. Anticipated routes to the area.
 - c. Anticipated radiation and contamination levels expected.
 - d. Required equipment.
 - e. Shielding requirements and availability.

- f. Protective clothing and equipment required (PCs, SCBA, etc.).
- g. Access Control procedures.
- h. Exposure control limits and personnel dosimetry required.
- i. Decontamination requirements.
- j. Primary and backup communications methods.
- k. Known or potential hazards and appropriate safety precautions.

6.5.2 Interview the team(s) on their return, and document all pertinent information on the Emergency Team Debriefing Form, DBEP-024.

6.5.3 Ensure that the team(s) are informed of any significant changes in conditions.

6.5.4 Report the results of the reentry to the OSC Manager or the RP Coordinator if the Recovery Organization is in place, for further dissemination to appropriate individuals.

6.6 Reentry Team(s)

Reentry Team(s) should:

6.6.1 Assemble all the necessary equipment according to the Emergency Team Briefing Form, DBEP-024 and verify operability of equipment.

WARNING 6.6.2

If dose rates encountered exceed the limits established during reentry planning, reentry personnel shall:

1. Exit the area immediately.
2. Return to a safe area.
3. Contact the OSC Manager for further instructions.

- 6.6.2 Enter the area when authorized by the Emergency Plant Manager or Recovery Manager.
- 6.6.3 Conduct a radiation survey of the area in accordance to RA-EP-02640.
- 6.6.4 Perform first aid and rescue operations, if necessary.
- 6.6.5 Assess the following items as directed:
 - a. Condition of plant equipment and areas
 - b. Potential for additional problems
 - c. Consequences of damage which occurred during the emergency
 - d. Accessibility of affected areas
 - e. Radiological, toxic, structural or other hazards
 - f. Other potential personnel or equipment hazards
- 6.6.6 Perform inspections, repairs and operations as directed.
- 6.6.7 Maintain communications with the Assistant OSC Manager or OSC RP Coordinator, providing observed conditions and dose rates.
- 6.6.8 Isolate and post appropriate areas with the proper radiation warning signs and barrier ropes as Radiation, High Radiation and/or Contamination areas.
- 6.6.9 Return to the OSC for debriefing after completion of assigned tasks.

7.0 FINAL CONDITIONS

This procedure should be terminated when:

- 7.1 Reentry operations have been completed and all reentry team members have been accounted for.
- 7.2 Debriefing of reentry personnel has been completed and documented.
- 7.3 Records generated during the emergency are forwarded to the Supervisor – Emergency Preparedness after review by the Emergency RP Manager and OSC Manager.
- 7.4 Emergency equipment has been inventoried and deficiencies identified and reported to the Supervisor – Emergency Preparedness.
- 7.5 Procedural deficiencies have been identified and reported to the Supervisor – Emergency Preparedness.

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 None

COMMITMENTS

<u>Step Number</u>	<u>Reference</u>	<u>Comments</u>
None	None	None

END