

Davis Besse Power Station
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Davis-Besse Nuclear Power Station

EMERGENCY PLAN OFF NORMAL OCCURRENCE PROCEDURE

RA-EP-02810

TORNADO

REVISION 02

Prepared by: B.W. Cope

Procedure Owner: Manager - Security

Effective Date: MAR ~ 5 2003

Procedure Classification:

 X Safety Related
 Quality Related
 Non-Quality Related

LEVEL OF USE:
IN-FIELD REFERENCE

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1.0 PURPOSE

This procedure describes the actions that shall be taken when weather conditions favor the formation of tornadoes.

2.0 REFERENCES

2.1 Developmental

2.1.1 Davis-Besse Nuclear Power Station Emergency Plan

2.1.2 NUMARC 87-00, Guidelines and Technical Bases for NUMARC Initiative Addressing Station Blackout at Light Water Reactors

2.2 Implementation

2.2.1 RA-EP-01500, Emergency Classification

2.2.2 DB-OP-02550, Dry Fuel Storage Abnormal Events

3.0 DEFINITIONS

3.1 TORNADO WATCH - a forecast issued in advance of a severe weather event to alert the public to conditions which may favor the formation of tornadoes.

3.2 TORNADO WARNING - A notice issued as a result of a sighting of a tornado in the warning area, or as determined through the interpretation of Radar Imaging.

4.0 RESPONSIBILITIES

4.1 The Shift Manager shall be responsible for:

4.1.1 Notifying the Supervisor - Security Shift of a tornado watch or warning.

4.1.2 Notifying the On-Call Emergency Offsite Manager of a tornado watch or warning.

4.2 The Supervisor - Security Shift shall:

4.2.1 Advise the Shift Manager of any messages received concerning tornado information.

NOTE 4.2.2

Notification of Owner Controlled Area personnel is dependent upon shift manning and weather compensatory measures that may be in effect.

4.2.2 Ensure Security notifies individuals in remote areas of the Owner Controlled Area of a tornado warning.

5.0 INITIATING CONDITIONS

This procedure shall be utilized when the Control Room has been made aware of a tornado watch or a tornado warning for areas, which include the power station.

- 5.1 The Shift Manager should instruct Control Room personnel to monitor available weather information for adverse weather trends or notices from the National Weather Service.

6.0 PROCEDURE6.1 Activation

6.1.1 The Control Room operator shall:

- a. Inform the Shift Manager of a tornado watch or tornado warning for Ottawa County.
- b. Closely and continuously monitor the Control Room panels to determine any effects on instrumentation, controls, or station operations.

WARNING 6.1.2.

1. Weather conditions may make inspection of outside areas hazardous.
2. Tornado may occur with little or no warning. They may occur prior to the National Weather Service or the Ottawa County issuing the warning.
3. At the discretion of the Shift Manager, actions in Section 6.3 may be taken at any time.

6.1.2 At the discretion of the Shift Manager:

- a. Direct an inspection of the Protected Area and switchyard for potential missiles and reduce missile potentials where practical.
- b. Evaluate ongoing maintenance activities and expedite the restoration of important plant systems and components to service.
- c. Direct that weather conditions be monitored via local television channel or web weather site such as Weather.com or Intellicast.com

6.2 Operation During a Tornado Watch

6.2.1 In the event of a tornado watch for areas which include the power station, the Shift Manager shall notify:

- a. The Supervisor - Security Shift
- b. On-Call Emergency Offsite Manager

6.2.2 The Supervisor - Security Shift shall direct security patrols to:

- a. Report any tornado sightings to the Control Room.
- b. Advise the Shift Manager on any messages received concerning tornado information.

NOTE 6.3

All of the applicable actions in Section 6.3 should be taken on receiving a Tornado Warning or report from a credible source of a tornado sighting near the plant. The Shift Manager will determine credibility of the source.

6.3 Operation During a Tornado Warning or Report of a Tornado Sighting near the Plant

6.3.1 The Shift Manager shall ensure:

- a. Announcement of the tornado warning over the Gaitronics System.
- b. Notification of the Supervisor - Security Shift of the tornado warning.
- c. Notification of the On-Call Emergency Offsite Manager of the tornado warning.
- d. Notification of the On-Call Plant Manager.

CAUTION 6.3 1 e & f

To minimize the possibility of a complete loss of AC power, DO NOT parallel the Emergency Diesel Generators (EDGs) with the C1 or D1 busses.

- e. In Modes 1 through 4:
 1. Ensure that both the EDGs are started and set at idle speed.
 2. Instruct station personnel to prepare for a rapid shut-down of the plant.
- f. In Modes 5 and 6:
 1. Ensure that both EDG's are started and set at idle speed.
 2. Order all fuel handling operations suspended.
IF fuel is being supported from a crane or a bridge,
THEN order it placed into a safe storage location.
 3. Direct that containment closure be established to the maximum extent practical to include installing the containment Equipment Hatch.
- g. Suspend all movement of radioactive waste until the tornado warning has been canceled.

CAUTION 6.3.2

Notification of Owner Controlled Area personnel is dependent upon shift manning and weather compensatory measures that may be in effect.

- 6.3.2 The Supervisor - Security Shift shall ensure that Security personnel inform individuals in remote areas of the Owner Controlled Area (OCA) about the tornado warning, as time and conditions permit.

7.0 FINAL CONDITIONS

Use of this procedure shall be terminated when the tornado watch or tornado warning has been canceled.

- 7.1 The Shift Manager shall ensure:

- 7.1.1 That the EDGs are stopped and restored to normal standby mode.
- 7.1.2 IF an emergency has been declared in accordance with RA-EP-01500, Emergency Classification, THEN, take actions accordingly.
- 7.1.3 Announcement is made over the Gaitronics system that the tornado threat has expired.
- 7.1.4 REFER TO DB-OP-02550, Dry Fuel Storage Abnormal Events.
- 7.1.5 Notification of the Supervisor - Security Shift that the tornado watch or warning has expired.
- 7.1.6 Notification of the On-Call Emergency Offsite Manager that the tornado watch or warning has expired.
- 7.1.7 Notification of the On-Call Plant Manager that the tornado warning has expired.

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>Section</u>	<u>Reference</u>	<u>Comments</u>
Entire Procedure	TERMS Q 00070	Acts of Nature Procedure
6.1.2 a & b	PCAQR 93-0531 NUMARC 87-00 Section 4.2.3	PCRs 93-2745, 2323; Implements NUMARC 87-00. Station Blackout
6 3	CA-02-09213-03	Add additional guidance from 11/10/03 lessons learned.
Title Page	CA-01-3101-15	Change level of Use from Step- by-Step to In-Field Reference.

Davis-Besse Nuclear Power Station

EMERGENCY PLAN OFF NORMAL OCCURRENCE PROCEDURE

RA-EP-02840

EXPLOSION

REVISION 01

Prepared by: Dennis J. Gordon

Procedure Owner: Manager - Security

Effective Date: MAR 5 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 the emergency actions that shall be performed by Davis-Besse Nuclear Power Station (DBNPS) personnel in the event of an explosion at DBNPS.

2.0 REFERENCES

2.1 Developmental

2.1.1 Davis-Besse Nuclear Power Station Emergency Plan

2.1.2 Industrial Security Plan

2.2 Implementation

2.2.1 DB-OP-02529, Fire Procedure

2.2.2 DB-OP-00002, Operations Section Event/Incident Notifications and Actions

2.2.3 RA-EP-01500, Emergency Classification

2.2.4 RA-EP-02000, Medical Emergencies

2.2.5 RA-EP-02420, Search and Rescue

2.2.6 RA-EP-02800, Preparation and Transport of Contaminated Injured Personnel

2.2.7 RA-EP-02850, Hazardous Chemical and Oil Spills

3.0 DEFINITIONS

3.1 **EXPLOSION** An uncontrolled violent expansion or bursting that is accompanied by loud noise and equipment damage. An explosion is typically caused by a sudden release of energy from a very rapid chemical reaction, or from an escape of gases or vapors under pressure.

4.0 RESPONSIBILITIES

4.1 The Shift Manager shall implement this procedure in the event of an explosion.

5.0 INITIATING CONDITIONS

This procedure shall be utilized when:

5.1 An explosion has occurred.

5.2 The Shift Manager has been notified of an explosion.

6.0 PROCEDURE

6.1 Activation

6.1.1 IF the Shift Manager determines that an explosion has occurred, THEN he shall immediately:

- a. Direct a check of control room instrumentation to identify affected plant areas.
- b. Direct corrective action according to the effects indicated on the control panels.
- c. Direct a search of the affected area(s) for injured personnel in accordance with RA-EP-02420, Search and Rescue.
- d. Direct that injured personnel be treated onsite or transported to medical facilities. If they are radioactively contaminated, RA-EP-02800, Preparation and Transport of Contaminated Injured Personnel, shall govern these actions. If they are not radioactively contaminated, RA-EP-02000, Medical Emergencies shall be the governing procedure.
- e. Determine if there is a fire in the plant, and if so, follow the instructions in DB-OP-02529, Fire Procedure.
- f. Determine if there is a hazardous chemical or oil spill, and if so, follow the instructions in RA-EP-02850, Hazardous Chemical or Oil spills.
- g. Determine the proper emergency classification, in accordance with RA-EP-01500, Emergency Classification.

6.2 Operation

6.2.1 When personnel are accounted for and the injured treated, the Shift Manager or another licensed operator shall conduct a physical examination of all affected areas with particular attention to the following systems, as appropriate:

- a. Emergency Core Cooling System; including the Borated Water Storage Tank
- b. Component Cooling Water
- c. Service Water
- d. Makeup and Purification Systems
- e. Boric Acid Storage Tanks and associated piping
- f. Radwaste Systems

- g. Spent Fuel Pool and Spent Fuel Pool Cooling System
- h. New Fuel Storage
- i. Containment Integrity
- j. Auxiliary Feedwater
- k. Nuclear Steam Supply System
- l. Ultimate Heat Sink
- m. Emergency Diesel Generators

6.2.2 If the physical inspection reveals any tank leaks, pipe whip damage, equipment or component failure, or structural damage; then the Shift Manager shall determine the proper emergency classifications in accordance with RA-EP-01500, Emergency Classification, and take actions accordingly.

6.2.3 IF after inspection, sabotage is suspected or confirmed,
THEN the following actions shall be taken:

- a. The Shift Manager shall notify the Supervisor – Security Shift in accordance with the Industrial Security Plan.
- b. The Plant Manager shall notify the Nuclear Regulatory Commission in accordance with DB-OP-00002, Operations Section Event/Incident Notification and Actions.

7.0 FINAL CONDITIONS

This procedure shall be deactivated when in the judgement of the Shift Manager:

7.1 There is no reasonable probability of another explosion or explosions.

AND

7.2 The event has been classified as an emergency in accordance with RA-EP-01500, Emergency Classification and the appropriate Emergency Plan Implementing Procedure has been or is being utilized.

OR

7.3 The explosion has caused minimal damage and conditions are stable.

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 shall be listed on the Nuclear Records List, captured, and submitted to Nuclear Records Management in accordance with NG-NA-00106:

8.2.1 None

COMMITMENTS

<u>Section</u>	<u>Reference</u>	<u>Comments</u>
6.2.1.m	CA 02-07355-02	Added Emergency Diesel Generators to inspection list.