

DAVIS-BESSE  
NUCLEAR POWER STATION  
EMERGENCY PREPAREDNESS NRC EVALUATED EXERCISE MANUAL  
December 8, 1999

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## 1.0 SCOPE AND OBJECTIVES

### NOTE

In the development of an accident sequence, which is severe enough to adequately test the emergency response capabilities, it is necessary to postulate extremely unrealistic situations and multiple failures of redundant reactor protection functions and systems. Although the possibility of these events occurring is remote, Players are reminded that they are to respond to the indications as if they were real.

### 1.1 SCOPE

The December 8, 1999, Davis-Besse Emergency Preparedness NRC Evaluated Exercise will test and provide the opportunity to evaluate the Davis-Besse Emergency Plan and Procedures. It will test the Emergency Response Organization's ability to assess and respond to emergency conditions and take actions to protect the health and safety of the public and station personnel.

Whenever practical, this scenario incorporates provisions for "free play" on the part of the participants. Selected "real time" activities will be conducted to allow the repair teams the opportunity to provide service and repairs to station equipment during the course of the scenario. These "repairs" will allow the response organization to have an increased impact upon the direction that the scenario proceeds as well as impacting the completion of the event activities. In addition, the Control Room Simulator will be used to permit a degree of "free play" on the part of the Operations staff. The extent of this "free play" may be partially restricted by Controllers as necessary to keep the sequence of events on track.

The Exercise will simulate events resulting in a radiological release to the environment.

### 1.2 OBJECTIVES

The objectives for this NRC Evaluated Exercise have been selected from RA-EP-00200, Emergency Plan Drill and Exercise Program procedure (Utility). The scenario has been designed such that each participating organization will be provided with the opportunity to demonstrate their selected objectives.

### 1.2.1 DAVIS-BESSE NUCLEAR POWER STATION UTILITY OBJECTIVES

The utility objectives are cross-referenced to RA-EP-00200, Emergency Plan Drill and Exercise Program, Attachment 1, Six-Year Exercise Plan, in the first column. The "FACILITIES" column identified the area that the objective is applicable. During the conduct of the Exercise, unidentified objectives may be successfully accomplished by the ERO. Credit will be given for the objectives and their performance will be documented in the Exercise Report.

1.2.1 DAVIS-BESSE NUCLEAR POWER STATION (UTILITY) OBJECTIVES

<u>REF. #</u>	<u>FACILITIES</u>	<u>OBJECTIVE</u>
A.1	Administrative	CONDUCT AN ASSESSMENT OF THE DBNPS EMERGENCY PLAN.
A.3	Administrative	PREPARE AN EXERCISE INFORMATION PACKAGE TO MEET MINIMUM STANDARDS.
A.4	Administrative	CONDUCT A CRITIQUE OF THE EXERCISE.
A.5	Administrative	ESTABLISH MEANS TO ENSURE COMPLETION OF CORRECTIVE ACTIONS.
A.9	Administrative	CONDUCT THE EXERCISE IN VARIOUS WEATHER CONDITIONS (DURING DIFFERENT SEASONS).
B.1	All	DEMONSTRATE THE DIRECTION OF THE EMERGENCY ORGANIZATION AND IMPLEMENTATION OF THE EMERGENCY PLAN AND EMERGENCY PLAN PROCEDURES.
B.2	Control Room, ECC	DEMONSTRATE THE TRANSFER OF THE EMERGENCY DIRECTOR DUTIES.
B.3	All	DEMONSTRATE THE ABILITY FOR TIMELY ACTIVATION AND STAFFING OF THE EMERGENCY FACILITIES.
B.4	All	DEMONSTRATE THE ABILITY TO CONTROL ACCESS TO EMERGENCY FACILITIES.
C.1	Control Room, TSC	DEMONSTRATE THE ABILITY TO ASSESS THE INCIDENT CONDITIONS.
C.2	Control Room, ECC, TSC	DEMONSTRATE THE ABILITY TO RECOGNIZE EMERGENCY ACTION LEVELS (EALs) AND PROPERLY CLASSIFY THE INCIDENT.
D.1	Control Room, ECC	DEMONSTRATE THE ABILITY TO NOTIFY KEY OFFICIALS IN THE EMERGENCY ORGANIZATION, VIA NOTIFICATION SYSTEM/PROCEDURES WITHIN 15 MINUTES OF CLASSIFICATION.

1.2.1 DAVIS-BESSE NUCLEAR POWER STATION (UTILITY) OBJECTIVES (Cont'd)

<u>REF. #</u>	<u>FACILITIES</u>	<u>OBJECTIVE</u>
D.2	Control Room, ECC	DEMONSTRATE THE ABILITY TO NOTIFY THE NRC OF ANY EMERGENCY CLASSIFICATION WITHIN ONE HOUR OF THE OCCURRENCE.
D.3	All	DEMONSTRATE THE CAPABILITY TO NOTIFY AND/OR ACTIVATE EMERGENCY PERSONNEL IN EACH RESPONSE ORGANIZATION.
D.4	Control Room, ECC	DEMONSTRATE THE ABILITY TO DEVELOP AND SEND AN INITIAL EMERGENCY MESSAGE FOR OFFSITE NOTIFICATION.
D.5	Control Room, ECC	DEMONSTRATE THE ABILITY TO DEVELOP AND SEND FOLLOW-UP MESSAGES FOR INFORMATION FOR OFFSITE AUTHORITIES.
D.6	Control Room, TSC, ECC	DEMONSTRATE THE COMMUNICATIONS CAPABILITY AMONG THE CONTROL ROOM, TSC AND ECC, AND AMONG DBNPS, THE STATE OF OHIO, OTTAWA COUNTY, AND LUCAS COUNTY EMERGENCY OPERATIONS CENTERS AND THE FIELD ASSESSMENT TEAMS, TO INCLUDE EVALUATION OF THE ABILITY TO UNDERSTAND MESSAGE CONTENT (COMMUNICATIONS EXERCISE REQUIREMENT).
D.8	Control Room ECC	DEMONSTRATE THE ABILITY TO DEVELOP A LEGITIMATE, INFORMATIVE, AND CLEARLY UNDERSTOOD MESSAGE TO BE SENT TO STATE, AND COUNTY OFFICIALS WHO HAVE DECISIONS TO ACTIVATE THE ALERT AND NOTIFICATION SYSTEMS.
E.1	ECC	DEMONSTRATE THE METHODS AND TECHNIQUES FOR DETERMINING THE SOURCE TERM OF RELEASES OR POTENTIAL RELEASES OF RADIOACTIVE MATERIAL WITHIN PLANT SYSTEMS.
E.2	ECC, TSC	DEMONSTRATE THE METHODS AND TECHNIQUES FOR DETERMINING THE MAGNITUDE OF THE RELEASES OF RADIOACTIVE MATERIALS BASED ON PLANT SYSTEM PARAMETERS AND EFFLUENT MONITORS.

1.2.1 DAVIS-BESSE NUCLEAR POWER STATION (UTILITY) OBJECTIVES (Cont'd)

<u>REF.</u>	<u>FACILITIES</u>	<u>OBJECTIVE</u>
E.3	ECC	DEMONSTRATE THE ABILITY TO ESTIMATE INTEGRATED DOSE FROM PROJECTED AND ACTUAL DOSE RATES AND TO COMPARE THESE ESTIMATES WITH THE PAGs.
E.4	OSC	DEMONSTRATE THE ABILITY TO IMPLEMENT EXPOSURE GUIDELINES.
E.5	OSC	DEMONSTRATE THE ABILITY TO CONTINUOUSLY MONITOR AND CONTROL EMERGENCY WORKER EXPOSURE.
E.7	RTL	DEMONSTRATE THE RESOURCES AND CAPABILITY FOR FIELD MONITORING WITHIN THE PLUME EXPOSURE EPZ.
E.11	OSC	DEMONSTRATE THE AVAILABILITY OF RESPIRATORY PROTECTION, PROTECTIVE CLOTHING AND KI.
E.13	RTL, OSC	DEMONSTRATE THE CAPABILITY FOR ONSITE CONTAMINATION CONTROL.
F.1	ECC	DEMONSTRATE THE ABILITY TO RECOMMEND PROTECTIVE ACTIONS TO APPROPRIATE OFFSITE AUTHORITIES, BASES OF RECOMMENDATIONS TO INCLUDE CONSIDERATION OF PROTECTION AFFORDED BY SHELTERING, AS WELL AS, EVACUATION TIME ESTIMATES.
G.1	ALL	DEMONSTRATE PRELIMINARY DISCUSSION OF RE-ENTRY AND RECOVERY CAPABILITIES AND AVAILABILITY OF PROCEDURES.



### 3.0 REFERENCES/ABBREVIATIONS/DEFINITIONS

#### 3.1 REFERENCES

- 3.1.1 DBNPS Emergency Plan
- 3.1.2 DBNPS Emergency Plan Implementing Procedures
- 3.1.3 10 CFR 50.47, 50.54 and Appendix E
- 3.1.4 DBNPS Radiation Protection Manual
- 3.1.5 DBNPS Offsite Dose Calculation Manual
- 3.1.6 DBNPS, Unit 1, Technical Specifications
- 3.1.7 DBNPS Piping and Instrumentation Drawings
- 3.1.8 DBNPS Updated Safety Analysis Report
- 3.1.9 NUREG 0654/FEMA REP-1

#### 3.2 ABBREVIATIONS

AEOF	Alternate Emergency Operations Facility
AFP	Auxiliary Feed (Water) Pump
ALARA	As Low As Reasonably Achievable
ARM	Area Radiation Monitor
ARTS	Anticipatory Reactor Trip System
ATMOS	Atmosphere
ATWS	Anticipated Transient Without Scram
AUX	Auxiliary
AVG	Average
BAAT	Boric Acid Addition Tank
BKWSH	Back Wash
BRKR	Electrical Circuit Breaker
BWST	Borated Water Storage Tank
CAM	Continuous Air Monitor
CANS	Computerized Automated Notification System
CAS	Central Alarm Station
CCW	Component Cooling Water System
CERO	Corporate Emergency Response Organization

CFT	Core Flood Tank
CFR	Code of Federal Regulations
CNDS	Condensate System
COND	Condenser
CPM	Counts Per Minute
CRS	Control Room Simulator
CS	Containment Spray System
CST	Condensate Storage Tank
CT	Circulating Water and Cooling Tower System
CTMT	Reactor Containment Building
CTRM	Control Room
DADS	Data Acquisition and Display System
DBAB	Davis-Besse Administrative Building
DBNPS	Davis-Besse Nuclear Power Station
DEI	Dose Equivalent Iodine
DEMIN	Demineralizer
DHR	Decay Heat Removal
DISCH	Discharge
DP	Differential Pressure
DWS	Demineralized Water System
EAL	Emergency Action Level
EAS	Emergency Alert System
ECC	Emergency Control Center
EDG	Emergency Diesel Generator
EEC	Energy Education Center
EMA	Emergency Management Agency
E&C	Electrical and Controls Section
EOC	Emergency Operations Center
EPZ	Emergency Planning Zone
EVAL	Evaluated
FAT	First Aid Team
FEMA	Federal Emergency Management Agency
FT	Feet
FW	Feed Water
GPM	Gallons Per Minute
HDR	Header
HLCWT	High Level Cooling Water Tank
HPI	High Pressure Injection System
HVAC	Heating Ventilation and Air Conditioning System
HX	Heat Exchanger
I&C	Instrument and Control Section
I <sub>2</sub>	Diatomic Iodine Molecule
IF	Instructor Facility (at the CRS)
IN	Inch
INST	Instrument

JPIC	Joint Public Information Center
KI	Potassium Iodide
kpph	Thousand pound mass per hour
LP	Low Pressure
LVL	Level
MISC	Miscellaneous
MSIV	Main Steam Isolation Valve
MTR	Motor
MU	Makeup System
NI	Nuclear Instrumentation
NRC	Nuclear Regulatory Commission
OTSG	Once Through Steam Generator
OOS	Out of Service
OSC	Operations Support Center
PA	Public Address System
PASS	Post Accident Sampling System
PC	Protective Clothing
PI	Pressure Indication
PMP	Pump
PORV	Power Operated Relief Valve
PPF	Personnel Processing Facility
pph	Pound mass per hour
PR	Public Relations
PRM	Pulse Rate Meter
PSF	Personnel Shop Facility
PSIA	Pounds Per Square Inch Absolute
PSIG	Pounds Per Square Inch Gauge
PT	Periodic Test
PTS	Pressurized Thermal Shock
PWR	Pressurized Water Reactor
PWST	Primary Water Storage Tank
PZR	Pressurizer
RRA	Radiologically Restricted Area
RC	Radiological Controls
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RE	Fixed Radiation Instrument
RLF	Relief Valve
RM	Radiation Monitor
RMS	Radiation Monitoring System
RMT	Radiation Monitoring Team
RP	Radiation Protection
RSO	Radiation Survey Meter Model O
RTL	Radiological Testing Laboratory
Rx	Reactor

SAM	Stabilized Assay Meter
SAS	Secondary Alarm System
SFP	Spent Fuel Pool
SFAS	Safety Features Actuation System
SFRCS	Steam and Feed Water Rupture Control System
SJAE	Steam Jet Air Ejector
SPDS	Safety Parameter Display System
SPF	Spent Fuel
SRST	Spent Resin Storage Tank
ST	Surveillance Test
SW	Service Water System
SYS	System
$T_c$	Reactor Coolant System Cold Leg Temperature
TC	Thermocouple
TDG	Total Dissolved Gases
$T_h$	Reactor Coolant System Hot Leg Temperature
TPCW	Turbine Plant Cooling Water
TRBL	Trouble
TSC	Technical Support Center
VOM	Volt Ohm Meter
WGST	Waste Gas Storage Tank
WK	Week
WR	Wide Range Instrument
WTR	Water
XFER	Transfer
XMIT	Transmit

### 3.3 DEFINITIONS

- 3.3.1 **ALERT:** The level of emergency classification which indicates events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.
- 3.3.2 **ALTERNATE EMERGENCY OPERATIONS FACILITY (AEOF):** A conference area outside the 10-mile EPZ, which is available to hold meetings between Davis-Besse emergency management personnel and non-utility agency management personnel.
- 3.3.3 **ANTICIPATED TRANSIENT WITHOUT SCRAM (ATWS):** Failure of the reactor control rods to insert into the core upon a signal to do so from the Reactor Protection System or the failure of the Reactor Protection System to trip when limits have been exceeded.

- 3.3.4 **ASSESSMENT ACTIONS:** Those actions taken during or after an accident to obtain and process information that is necessary to make decisions to implement specific emergency measures.
- 3.3.5 **CONTROL ROOM (CTRM):** The principle onsite location from which the reactor is controlled and from which emergency control is initially exercised. The CTRM is located on the 623' elevation of the Auxiliary Building.
- 3.3.6 **CONTROLLER:** A member of the control group, assigned to one or more activities or functions for the purpose of keeping the action going according to a scenario, resolving scenario discrepancies, and supervising the actions of the players.
- 3.3.7 **CORRECTIVE ACTIONS:** Those emergency measures taken to mitigate or terminate a potential or uncontrolled release of radioactive material or to minimize the consequences of such a release.
- 3.3.8 **DECONTAMINATION:** The process by which the body or an object is relieved of radioactive substances (contamination).
- 3.3.9 **DRILL:** A supervised instruction period aimed at testing, developing, and maintaining skills in a particular operation.
- 3.3.10 **DOSE ASSESSMENT:** The process of estimating the amount of radiation a person will potentially receive as a result of exposure to a radiological release.
- 3.3.11 **EMERGENCY ACTION LEVELS (EALs):** Radiological dose rates; specific contamination levels or airborne, waterborne, or surface-deposited concentrations of radioactive materials, or specific instrument readings and indications (including their rate of change) that may be used as thresholds for initiating specific emergency measures.
- 3.3.12 **EMERGENCY CONTROL CENTER (ECC):** The Davis-Besse Emergency Response Facility from which overall direction and control are exercised for emergencies at DBNPS. The facility also provides a central point of contact with external organizations, and is fully activated for emergencies classified as an ALERT or higher.

**3.3.13 EMERGENCY OPERATIONS CENTER (EOC):** An offsite location used by state, county and other government agencies and organizations to perform radiological assessment and to coordinate offsite activities. The EOCs are located as follows:

Ottawa County: Ottawa County Emergency Management Agency  
315 Madison Avenue  
Port Clinton, Ohio 43452

Lucas County: Lucas County Emergency Management Agency  
2144 Monroe Street  
Toledo, Ohio 43624

State of Ohio: Emergency Operations Center/Joint Dispatch Facility  
2855 West Dublin-Granville Rd.  
Worthington, Ohio 43235-2206

**3.3.14 EMERGENCY PLANNING ZONES (EPZs):** Two zones established around a nuclear power station in which predetermined protective action plans are needed. One zone, with a radius of 10 miles (16090 meters) for a PLUME EXPOSURE PATHWAY; and the other with a radius of 50 miles (80450 meters) for an INGESTION EXPOSURE PATHWAY. In these zones, predetermined PROTECTIVE ACTION plans are needed.

**3.3.15 EMERGENCY RESPONSE FACILITY:** Any of several onsite and offsite centers which are activated to coordinate emergency actions. Included in this category are the Control Room, Technical Support Center, Operations Support Center, Emergency Control Center, Joint Public Information Center, and State and local Emergency Operations Centers.

**3.3.16 EVALUATOR:** A member of the evaluation group, assigned to one or more activities or functions for the purpose of evaluating and making recommendations for improvement. An evaluator may serve in a dual capacity as both a Controller and Evaluator.

**3.3.17 EXCLUSION AREA:** The area surrounding the plant in which the Licensee has the authority to determine all activities including exclusion or removal of persons and property from the area.

**3.3.18 EXERCISE:** An event that tests the integrated capability and a major portion of the basic elements within the Emergency Plan.

- 3.3.19 **GENERAL EMERGENCY:** The most severe level of emergency classification which indicates that events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Release of radioactive material can be reasonably expected to exceed PAG exposure levels offsite.
- 3.3.20 **INGESTION PATHWAY:** The means by which contaminated water or foodstuff can expose the POPULATION-AT-RISK to radiation. The time of potential exposure could range from hours to months. The principal exposure sources from this pathway are:
1. Ingestion of contaminated drinking supplies, such as water or milk.
  2. Ingestion of contaminated food, such as fresh vegetables or aquatic foodstuff.
- 3.3.21 **JOINT PUBLIC INFORMATION CENTER (JPIC):** A location for coordinating news releases and providing joint briefings to the news media during an emergency. It provides a central point for information to be disseminated to the public by the utility, the federal, state and local officials.
- 3.3.22 **OBSERVER:** Any individual who is authorized to observe, but is not authorized to interact with the players.
- 3.3.23 **OFFSITE:** Any areas outside the Owner Controlled Area.
- 3.3.24 **ONSITE:** The area within the Owner Controlled Area.
- 3.3.25 **OPERATIONS SUPPORT CENTER (OSC):** An onsite emergency response facility which provides a location where emergency response teams can be assembled and coordinated during an emergency.
- 3.3.26 **OWNER CONTROLLED AREA:** The area contiguous with the Protected Area, designated by the owner organization to be patrolled for security purposes.
- 3.3.27 **PARTICIPANT:** An individual who has some part, whether as an Evaluator, Controller, Player or Observer.
- 3.3.28 **PLAYERS:** All individuals who are assigned to perform functions of the Emergency Response Organization, as described in the appropriate Emergency Plan Implementing Procedures.

- 3.3.29 PLUME EXPOSURE PATHWAY:** The means by which a radioactive cloud (plume) can expose the POPULATION-AT-RISK to radiation. The time of potential exposure could range from hours to days. The principal exposure sources for this pathway are as follows:
1. Whole body external exposure to gamma radiation from the radioactive plume and from deposited material.
  2. Inhalation exposure from the passing radioactive plume.
- 3.3.30 POPULATION AT RISK:** Those persons for whom protective actions are being or would be taken.
- 3.3.31 PROTECTED AREA:** The area within the Owner-Controlled Area encompassed by physical barriers and to which access is controlled for security purposes.
- 3.3.32 PROTECTIVE ACTION:** Those emergency measures taken after an uncontrolled release has occurred, for the purpose of preventing or minimizing radiological dose to persons that would likely be exposed if the action was not taken.
- 3.3.33 PROTECTIVE ACTION GUIDES (PAGs):** Projected radiological dose or dose commitment value to individuals in the general population which warrant protective action.
- 3.3.34 RADIOLOGICALLY RESTRICTED AREA (RRA):** Any area accessed which is limited by the Licensee for the purpose of protecting individuals against undue risks from exposure to radiation or radioactive materials.
- 3.3.35 RADIOLOGICAL MONITORING TEAMS (RMTs):** Two-person teams responsible for monitoring radiation levels in the environment and collecting soil, air, vegetation, snow, and water samples for laboratory analysis.
- 3.3.36 SITE AREA EMERGENCY:** The level of emergency classification which indicates that events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases of radioactive material are not expected to exceed Protective Action Guide (PAG) exposure levels, except near the Site Boundary.



- 3.3.37 **TECHNICAL SUPPORT CENTER (TSC):** An onsite emergency response facility for use by technical and management personnel in support of the command and control functions executed in the Control Room.
- 3.3.38 **UNUSUAL EVENT:** The lowest level of emergency classification, which indicates events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant.

## 5.0 SCHEDULE OF EVENTS

### 5.1 TIMES AND PLACES

Preparatory meetings held prior to the week of the scenario event will be scheduled and coordinated by the Emergency Preparedness Staff. The meetings scheduled for the week of the scenario event will be held in accordance with Tables 5.1-1.

Schedule of Utility Meetings  
Table 5.1-1

<u>Date/Time</u>	<u>Location</u>	<u>Activity</u>
December 7, 1999 0800 – 1000	Energy Education Center DBNPS Admin. Bldg.	Utility Controllers Final Briefing
December 7, 1999 1500 – 1545	Energy Education Center DBNPS Admin. Bldg.	Utility Players Safety Briefing
<b>December 8, 1999</b>	<b>All Facilities</b>	<b>NRC Evaluated Exercise</b>
December 9, 1999 0800 – 1200	Energy Education Center DBNPS Admin. Bldg.	Utility Controller Debriefing
December 10, 1999 0800 – 1030	Energy Education Center DBNPS Admin. Bldg.	Utility Player Critique

## 5.2 OBSERVER APPROVAL

Permission to observe the Drill or Exercise must be obtained from:

### Davis-Besse Nuclear Power Station

Mr. Patrick J. McCloskey, Supervisor  
Emergency Preparedness  
Toledo Edison Company  
5501 N. State Route 2, Stop DB 3060  
Oak Harbor, OH 43449-9760  
PH: (419) 321-7148  
FAX: (419) 249-2302

## 5.3 TRAVEL INFORMATION

This section provides travel information to those individuals from Corporate, other utilities, local/state/federal government, and/or other organizations who may participate in the Exercise.

Once permission is obtained to attend the Exercise, accommodations can be made as follows:

### 1. Air:

Detroit Metro Airport Detroit, MI	(70 miles from Davis-Besse)
Toledo Express Airport Toledo, OH	(50 miles from Davis-Besse)
Cleveland Hopkins Airport Cleveland, OH	(85 miles from Davis-Besse)

### 2. Automobile:

The Davis-Besse Station is located on Ohio State Route 2, approximately 25 miles east of Toledo, 10 miles northwest of Port Clinton, and 75 miles west of Cleveland along State Route 2.

## 3. Accommodations:

Fairfield Inn (419) 732-2434  
3760 East State Road  
Port Clinton, OH

Comfort Inn (419) 732-2929  
1723 East Perry Street  
Port Clinton, OH

OurGuest (419) 734-3000  
2039 E. Harbor Road  
Port Clinton, OH

Maumee Bay Resort & Conference Center  
1750 Park Road #2  
Oregon, OH 43618-9700  
(800) 282-7275

Best Western (800) 528-1234  
1734 E. Perry St.  
Port Clinton, OH

Comfort Inn (419) 691-8911  
2930 Navarre Avenue (SR 2)  
Oregon, OH

Holiday Inn (800) 465-4329  
Toledo, OH  
Fremont, OH  
Sandusky, OH

Days Inn (419) 734-4945  
2149 E. Gill Road  
Port Clinton, OH