DAVIS-BESSE

NUCLEAR POWER STATION

EMERGENCY PREPAREDNESS EXERCISE MANUAL

September 20, 1995

THIS MATERIAL IS CONSIDERED CONFIDENTIAL

(Until completion of the Exercise currently scheduled for September 20, 1995)

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DAVIS-BESSE NUCLEAR POWER STATION

DRILL/EXERCISE APPROVAL

COVER SHEET

EXERCISE TITLE: 1995 Evaluated Exercise

DATE OF CONDUCT: September 20, 1995 TIME OF CONDUCT: 8:00a.m.

EXERCISE LEAD CONTROLLER: B. W. Cope

APPROVED: for J H Synowski 5-30-95
Supervisor - Emergency Preparedness Date

APPROVED: 5-30-95
Plant Manager Date

APPROVED: 6/12/95
Vice President, Nuclear Date

1.0 SCOPE AND OBJECTIVES

NOTE

In the development of an accident sequence, which is severe enough to adequately test 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 will be reminded to respond appropriately.

1.1 SCOPE

The 1995 Davis-Besse Emergency Preparedness Full Participation Exercise, to be conducted on September 20, 1995, will test and provide an opportunity to evaluate the Davis-Besse Emergency Plan and Procedures. It will test the Emergency Response Organization's ability to access and respond to emergency conditions and take actions to protect the health and safety of the public and station personnel.

The Exercise will also demonstrate activation and operation of major elements of the Non-utility Emergency Organization. The Non-utility Emergency Organizations responding will include Ottawa and Lucas Counties, and the State of Ohio. Erie County Emergency Response Organization will be a partial participant. Those functions that are most scenario dependent will be played in sequence. However, most Non-utility field activities will be played out of sequence.

Whenever practical, the Exercise incorporates provisions for "free play" on the part of the participants. Selected "real time" activities will be conducted to allow repair teams the opportunity to provide service and repairs to station equipment during the course of the Exercise. These "repairs" will allow the response organization to have an increased impact upon the direction that the Exercise proceeds as well as impacting the completion of the Exercise 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 scenario will simulate events resulting in a radiological release to the environment. This release will be of a sufficient magnitude to warrant mobilization of state and local agencies.

The scenario will also incorporate a medical drill with participation by local emergency medical services and support hospitals.

1.2 OBJECTIVES

The objectives for this full participation Exercise have been selected from RA-EP-00200, Emergency Plan Drill and Exercise Program procedure (Utility) and from FEMA REP 14 and 15 (Non-utility). The scenario has been designed such that each participating organization will be provided with the opportunity to demonstrate their selected objectives. Some Non-utility objectives will be demonstrated out-of-sequence to accommodate the responding volunteer organization.

1.2.1 DAVIS-BESSE NUCLEAR POWER STATION UTILITY OBJECTIVES

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

REF. #	FACILITIES	OBJECTIVE
A.1	Administrative	CONDUCT AN EXERCISE OF THE DAVIS-BESSE NUCLEAR POWER STATION (DBNPS) EMERGENCY PLAN, ANNUALLY.
A.2	Administrative	PROVIDE AN OPPORTUNITY FOR THE STATE OF OHIO, OTTAWA COUNTY, AND LUCAS COUNTY TO PARTICIPATE IN AN EXERCISE, ANNUALLY.
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.6	Administrative	INVOLVE FEDERAL, STATE, COUNTY EP RESPONSE PERSONNEL AND AGENCIES IN A JOINT EXERCISE AT LEAST ONCE EVERY TWO YEARS.
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.

REF. #	FACILITIES	OBJECTIVE
B.4	All	DEMONSTRATE THE ABILITY TO CONTROL ACCESS TO EMERGENCY FACILITIES.
B.5	All	DEMONSTRATE THE ABILITY OF CORPORATE PERSONNEL TO AUGMENT AND SUPPORT THE PLANT STAFF.
B.6	All	DEMONSTRATE THE AVAILABILITY OF OUTSIDE ORGANIZATIONS WHO CAN BE RELIED UPON IN AN EMERGENCY TO PROVIDE ASSISTANCE.
B.7	RTL	DEMONSTRATE THE CAPABILITY OF A CENTRAL POINT FOR THE RECEIPT AND ANALYSIS OF ALL FIELD MONITORING DATA AND COORDINATION OF SAMPLE MEDIA.
B.8	Control Room, ECC, TSC	DEMONSTRATE THE ABILITY TO REQUEST, SUPPORT AND UTILIZE FEDERAL ASSISTANCE.
B.9	ECC	DEMONSTRATE THE AVAILABILITY AND DISPATCH OF A TECHNICAL LIAISON TO OFFSITE GOVERNMENTAL EOC's (DEMONSTRATE ONLY WITH FULL OFFSITE PARTICIPATION).
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 (EAL's) AND PROPERLY CLASSIFY THE INCIDENT.
D.1	Control Room, ECC	DEMONSTRATE THE ABILITY TO NOTIFY KEY OFFICIALS IN THE EMERGENCY ORGANIZATION, (STATION, CORPORATE, STATE OF OHIO, OTTAWA COUNTY AND LUCAS COUNTY) VIA THE NOTIFICATION SYSTEM/PROCEDURES WITHIN 15 MINUTES OF CLASSIFICATION.
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 DRILL REQUIREMENT).

REF. #	FACILITIES	OBJECTIVE
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 MAKE DECISIONS TO ACTIVATE THE ALERT AND NOTIFICATION SYSTEMS.
D.12	SEC	DEMONSTRATE THE COMMUNICATIONS CAPABILITY WITH FIXED AND MOBILE MEDICAL SUPPORT FACILITIES.
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.
E.3	ECC	DEMONSTRATE THE ABILITY TO ESTIMATE INTEGRATED DOSE FROM PROJECTED AND ACTUAL DOSE RATES AND TO COMPARE THESE ESTIMATES WITH THE PAG's.
E.4	OSC, ECC	DEMONSTRATE THE ABILITY TO IMPLEMENT EXPOSURE GUIDELINES.
E.5	OSC, ECC	DEMONSTRATE THE ABILITY TO CONTINUOUSLY MONITOR AND CONTROL EMERGENCY WORKER EXPOSURE.
E.7	ECC, RTL,	DEMONSTRATE THE RESOURCES AND CAPABILITY FOR FIELD MONITORING WITHIN THE PLUME EXPOSURE EPZ.
E.8	ECC	DEMONSTRATE THE ABILITY TO ESTIMATE TOTAL POPULATION EXPOSURE.
E.11	OSC	DEMONSTRATE THE AVAILABILITY OF RESPIRATORY PROTECTION, PROTECTIVE CLOTHING AND KI.
E.13	All	DEMONSTRATE THE CAPABILITY FOR ONSITE CONTAMINATION CONTROL.
E.15	OSC, SEC	DEMONSTRATE THE CAPABILITY FOR TRANSPORTATION OF A RADIOLOGICAL ACCIDENT VICTIM (MEDICAL DRILL REQUIREMENT).
E.16	All	DEMONSTRATE THE CAPABILITY FOR ONSITE AND OFFSITE RADIOLOGICAL MONITORING, TO INCLUDE COLLECTION AND ANALYSIS.
E.17	RTL	DEMONSTRATE THE RESPONSE TO AND ANALYSIS OF, SIMULATED ELEVATED AIRBORNE AND LIQUID SAMPLES AS WELL AS DIRECT RADIATION MEASUREMENTS IN THE ENVIRONMENT.
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.

REF. #	FACILITIES	OBJECTIVE
F.2	JPIC	DEMONSTRATE THE OPERATION OF THE JOINT PUBLIC INFORMATION CENTER AND THE AVAILABILITY OF SPACE FOR THE MEDIA.
F.3	JPIC	DEMONSTRATE THE ABILITY TO BRIEF THE MEDIA IN A CLEAR, ACCURATE AND TIMELY MANNER.
F.4	JPIC	DEMONSTRATE THE ABILITY TO PROVIDE ADVANCE COORDINATION OF INFORMATION RELEASED.
F.6	SEC	DEMONSTRATE THE CAPABILITY TO EVACUATE NON-ESSENTIAL PERSONNEL FROM THE PROTECTED AREA.
F.8	SEC	DEMONSTRATE THE ABILITY TO ACCOUNT FOR ALL INDIVIDUALS IN THE PROTECTED AREA WITHIN 30 MINUTES.
F.9	OSC, SEC	DEMONSTRATE THE ABILITY TO CONDUCT SEARCH AND RESCUE PROCEDURES.
F.10	JPIC	DEMONSTRATE THE ABILITY TO ESTABLISH AND OPERATE RUMOR CONTROL IN A COORDINATED FASHION.
F.11	OSC	DEMONSTRATE THE CAPABILITY FOR ONSITE FIRST AID (MEDICAL DRILL REQUIREMENTS).
F.12	OSC	DEMONSTRATE THAT THE PROVISIONS ARE AVAILABLE FOR THE EVALUATION OF RADIATION EXPOSURE OF, AND RADIATION UPTAKE IN A RADIOLOGICAL ACCIDENT VICTIM (MEDICAL DRILL REQUIREMENT).
G.1	All	DEMONSTRATE PRELIMINARY DISCUSSIONS OF RE-ENTRY AND RECOVERY CAPABILITIES AND AVAILABILITY OF PROCEDURES.
G.2	All	DEMONSTRATE THE FACILITY RECOVERY ORGANIZATION.

1.2.2 STATE OF OHIO OBJECTIVES

DAVIS-BESSE NUCLEAR POWER STATION

FULL PARTICIPATION EXERCISE

OBJECTIVES

State of Ohio

SEPTEMBER 20, 1995

1.2.2 STATE OF OHIO OBJECTIVES (con't)

GROUP A OBJECTIVES

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the ability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

Objective Selected: Yes

Offsite Response Organizations:

American Red Cross
Attorney General's Office
Governor's Office
Ohio Dept. of Agriculture
Ohio Dept. of Health
Ohio National Guard
Ohio Dept. of Human Services
Ohio Dept. of Insurance
Ohio Dept. of Public Safety/Highway Patrol
Ohio Emergency Management Agency
Ohio Dept. of Mental Health
Ohio Dept. of Natural Resources
Ohio Dept. of Transportation
Ohio Environmental Protection Agency
Public Utilities Commission of Ohio
State and Local Government Commission

Extent of Play:

The State will notify and mobilize all response agencies who have responsibilities in the State EOC (listed below). The field activities will be prepositioned. The following response functions will be fully staffed:

State EOC:
- Executive Room
- Operations Room
- Assessment Room
- Public Information
- Rumor Control
- Communications
- Security

Field Activities:
- Emergency Operations Facility
- Joint Public Information Center
- Field Monitoring Teams
- Field Sample Screening Point
- Communications Van

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

Objective Selected: Yes

Offsite Response Organization:

Ohio Emergency Management Agency

Extent of Play:

All facilities, equipment and displays at the locations listed in Objective 1 will be demonstrated. Backup power will be demonstrated in the EOC prior to EOC activation.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the ability to direct and control emergency operations.

Objective Selected: Yes

Offsite Response Organizations:

Governor's Office
Ohio Emergency Management Agency
Ohio Department of Health

Extent of Play:

Overall direction and control of state activities will be demonstrated in the State EOC. The Deputy Director of Ohio EMA will be positioned in the Executive Room and will coordinate decisions with the Governor's office. The EOC Operations Officer is responsible for the coordination of the agencies in the Operations Room. The Ohio Department of Health controls the Assessment Room. All requests for data from the field monitoring teams will be funneled through their team leader who is positioned in the Ottawa County EOC.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Objective Selected: Yes

Offsite Response Organization:

Ohio Emergency Management Agency

Extent of Play:

The primary means of communications between the State EOC and the County EOCs, Joint Public Information Center, and the Emergency Operations Facility is telephone. The primary means for the radiological monitoring teams and the field sample screening point is two-way radio. The state communications van will be located at the Bethel Church grounds at the corner of S.R. 590 and Elmore Eastern Road in Ottawa County. Backup communications will be available during the exercise and will be demonstrated upon request or in case primary communications fail.

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Department of Health
Ohio Emergency Management Agency
Ohio Environmental Protection Agency

Extent of Play:

The State Assessment Room will monitor the exposure of the radiological monitoring teams and the field sample screening point.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

Objective Selected: Yes

Offsite Response Organization:

Ohio Emergency Management Agency

Extent of Play:

Two field radiological monitoring teams will participate in the exercise. The teams will be prepositioned at the Ottawa County EOC at the ALERT stage. The teams will function from that point in accordance with their SOPs.

OBJECTIVE 7: PLUME DOSE PROJECTIONS

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Department of Health
Ohio Emergency Management Agency
Ohio Environmental Protection Agency

Extent of Play:

The State Assessment Room will be activated at the ALERT stage. Plume projections will be done on a computer using a dose assessment program specifically for the Davis-Besse Nuclear Power Station. The backup is a battery operated laptop computer and will be demonstrated if requested. Recommendations will then be forwarded to the Executive Group.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Emergency Management Agency
Ohio Department of Health

Extent of Play:

As stated in Objective 6, the radiological monitoring teams will function in accordance with their procedures. Samples will be taken to the field sample screening point, located at the Bethel Church grounds in Ottawa County.

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

Objective Selected: Yes

Offsite Response Organizations:

Ohio Department of Health
Ohio Emergency Management Agency
Ohio Environmental Protection Agency

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 9 (cont'd.)

Extent of Play:

The decision making process will take place in accordance with the State Plan. Recommendations will be processed in the Assessment Room and forwarded to the Executive Room. Coordination will take place there between the executive groups at the State EOC and the county EOCs. The recommendation will then be forwarded to Ottawa and Lucas counties over the dedicated phone in the Assessment Room.

The KI decision-making process will be demonstrated by the State Assessment and Executive groups.

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Emergency Management Agency
Ohio Department of Health
Governor's Office

Extent of Play:

The State will consult with the county EOCs to determine the best immediate protective action for the populace. Once a decision is reached that requires the activation of the alert and notification system, Ottawa County will simulate the initiation of the sirens and the appropriate EBS message. (See Ottawa County Objective 10.)

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Emergency Management Agency
Ohio Department of Health

Extent of Play:

Same as Objective 10.

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Emergency Management Agency
Ohio Department of Health

Extent of Play:

The State PIO and a representative from the Ohio Department of Health will be present at the offsite JPIC (Edison Club, Maumee, Ohio) to address protective actions being implemented and the activities taking place at the State level. Public information representatives from Ohio EMA will be present in the State EOC to communicate with the JPIC.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

Objective Selected: Yes

Offsite Response Organization:

Ohio Emergency Management Agency

Extent of Play:

In accordance with the RERP and SOPs, rumor control will be accomplished by establishing and publicizing a rumor control telephone number for the State EOC. The Rumor Control Officer will be responsible for identifying recurring concerns. This information will be forwarded to the PIO at the JPIC.

One Rumor Control Operator will be demonstrated during the exercise. The time frame for rumor control play is expected to be approximately two hours.

GROUP B OBJECTIVES

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTION - USE OF POTASSIUM IODIDE (KI) FOR EMERGENCY WORKERS, INSTITUTIONALIZED PERSONS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals and, if the State plan specifies, the general public.

Objective Selected: Yes

Offsite Response Organization:

Ohio Department of Health

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 14 (cont'd.)

Extent of Play:

The Field Monitoring Teams and personnel at the Sample Screening Point will simulate the use of KI when recommended by ODH. The State plan does not specify the use of KI by the general public. All emergency workers have predistributed KI.

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

Objective Selected: No - This is a county function.

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

Objective Selected: No - This is not a State objective.

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

Objective Selected: Yes

Offsite Response Organizations:

Ohio Emergency Management Agency

Extent of Play:

Restriction of rail and air traffic will be demonstrated procedurally.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 18: RECEPTION CENTER - MONITORING, DECONTAMINATION, AND REGISTRATION

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.

Objective Selected: No - This is a county function.

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

Objective Selected: No - This is a county function.

OBJECTIVE 20: MEDICAL SERVICES - TRANSPORTATION

Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or radiologically exposed individuals.

Objective Selected: No - This is not a State objective.

OBJECTIVE 21: MEDICAL SERVICES - FACILITIES

Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or radiologically exposure individuals. This will be demonstrated through exercise messages.

Objective Selected: No - This is not a State objective.

OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment and vehicles.

Objective Selected: No - This is a county function.

1.2.2 STATE OF OHIO OBJECTIVES (con't)

GROUP C OBJECTIVES

OBJECTIVE 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

Objective Selected: No

OBJECTIVE 24: POST-EMERGENCY SAMPLING

Demonstrate the use of equipment and procedures for collection and transportation of sample from areas that received deposition from the airborne plume.

Objective Selected: No

OBJECTIVE 25: LABORATORY OPERATIONS

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

Objective Selected: No

OBJECTIVE 26: INGESTION EXPOSURE PATHWAY - DOSE PROJECTION AND PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to project dose to the public for ingestion exposure pathway and recommend protective actions.

Objective Selected: No

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION

Demonstrate the capability to implement protective actions for the ingestion exposure pathway.

Objective Selected: No

OBJECTIVE 28: RELOCATION, RE-ENTRY, AND RETURN - DECISION MAKING

Demonstrate the capability to develop decisions on relocation, re-entry, and return.

Objective Selected: No

OBJECTIVE 29: RELOCATION, RE-ENTRY, AND RETURN - IMPLEMENTATION

Demonstrate the capability to implement appropriate measures for relocation, re-entry and return.

Objective Selected: No

OBJECTIVE 30: CONTINUOUS 24-HOUR STAFFING

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

Objective Selected: Yes

Offsite Response Organizations:

American Red Cross
Ohio Department of Agriculture
Ohio Department of Health
Ohio Department of Natural Resources
Ohio Department of Transportation
Ohio Emergency Management Agency
Ohio Environmental Protection Agency
Ohio National Guard
Ohio State Highway Patrol

1.2.2 STATE OF OHIO OBJECTIVES (con't)

OBJECTIVE 30 (cont'd.)

Extent of Play:

The capability to maintain staffing on a continuous, 24-hour basis will be demonstrated by key personnel in the EOC and JPIC through a shift change, which will occur between 11:00 a.m. and 1:00 p.m. Outgoing staff will brief their replacements on the current status of the simulated emergency. The incoming shift will then assume responsibility for essential emergency functions and activities and perform the duties of the personnel they replace.

OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE PERSONNEL

Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

Objective Selected: No - This is not a State objective.

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

Objective Selected: No

OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill.

Objective Selected: No

1.2.3 OTTAWA COUNTY OBJECTIVES

OTTAWA COUNTY 1995 EXERCISE OBJECTIVES

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OTTAWA COUNTY 1995 EXERCISE OBJECTIVES

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

OBJECTIVE SELECTED

Extent of Play: All agencies identified in the Ottawa County Radiological Emergency Response Plan (RERP)will be alerted as per established procedures. Appropriate personnel shall be mobilized in accordance with the RERP to staff emergency facilities. The Sheriff's Dispatcher and Ottawa County EMA Director will notify the emergency response agencies/individuals. Individuals/agencies to be notified will vary according to the level of emergency. Agencies/individuals will be contacted by radio, pager or telephone and will verify the accurate receipt of the notification message by either reading it back or calling the Sheriff's Dispatch Center (or EOC, if activated) depending upon how the individual was notified. Following verification, the designated individual will notify appropriate personnel within the agency by using normal internal notification procedures. Personnel will be informed of the Plant's status so that each agency with response roles at specific levels in the emergency can take appropriate actions as specified in the plan. The individual/agency representative receiving initial notification will notify appropriate personnel within the agency using normal internal notification procedures. Individual agencies rely on telephone and/or radio to contact their personnel according to a predetermined priority call list. The County EMA Director shall be responsible for EOC activation and operation. The EOC will not normally be activated for an UNUSUAL EVENT. It may be activated for an ALERT at the discretion of the EMA Director. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY OR GENERAL EMERGENCY. The following field activities/facilities will be driven by controller injects and demonstrated out of sequence:

- Supplemental Route Alerting
  - Harris-Elmore Fire and EMS Departments
    Monday, September 18, 1995 - 1830 hrs.
  - Carroll Township Fire and EMS Departments
    Tuesday, September 19, 1995 - 1830 hrs.
  - Portage Fire District
    Wednesday, September 20, 1995 - 1830 hrs.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 1 (CONT.)

- Backup Route Alerting
  - Harris-Elmore Fire and EMS Departments
    Monday, September 18, 1995 - 1830 hrs.
  - Carroll Township Fire and EMS Departments
    Tuesday, September 19, 1995 - 1830 hrs.
  - Portage Fire District
    Wednesday, September 20, 1995 - 1830 hrs.
- Perimeter/Access Control
  - Ottawa County Engineer - Highway Garage
    Wednesday, September 20, 1995 - 0800 hrs.
  - Ottawa County Sheriff
    Wednesday, September 20, 1995 - 1000 hrs.
  - Port Clinton Police
    Wednesday, September 20, 1995 - 1300 hrs.
- Traffic Control
  - Ottawa County Sheriff
    Wednesday, September 20, 1995 - 1000 hrs.
  - Port Clinton Police
    Wednesday, September 20, 1995 - 1300 hrs.
- Emergency Worker Monitoring/Decontamination
  - Port Clinton Fire Department
    Tuesday, September 19, 1995 - 1830 hrs.
- Schools
  - Benton-Carroll-Salem Schools
    Thursday, September 21, 1995 - 1030 hrs.
  - Genoa Area Schools
    Thursday, September 21, 1995 - 0900 hrs.
- Institutionalized/Special Populations
  - Riverview Nursing Home
    Thursday, September 21, 1995 - 0900 hrs.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations

OBJECTIVE SELECTED

Extent of Play: All facilities, equipment and displays at the locations listed in Objective 1 will be demonstrated.
Backup power will be demonstrated in the EOC prior to EOC activation.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

OBJECTIVE SELECTED

Extent of Play: Direction and Control will be demonstrated by appropriate participating agencies in accordance with the RERP and SOPs.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

OBJECTIVE SELECTED

Extent of Play: The telephone is used as the primary means of communications between the Utility, local, County, State and Federal agencies. The initial notification call informing County officials of an emergency at DBNPS will come through the Sheriff's Dispatch Center on the 4-Way dedicated telephone line. Upon activation of the County EOC, a 4-way dedicated (conference style) telephone hook-up will connect the Utility, Ottawa County, Lucas County and the Ohio EMA. This, in turn, will be supported by a facsimile machine system to verify verbal communications, as well as plant status and radiological dose assessment updates. This system will remain open and operational until the incident is terminated by the appropriate authority. In addition, a 3-way conference line will connect Ottawa and Lucas County Commissioners and the Governor's Representative and will be used to coordinate protective action recommendations and activation of the siren system and EBS. Once notification has been made and communication links are established, a telephone/radio network will be used to expedite agency communications.

Radio/backup communication will be available for demonstration by:

- Amateur Radio Emergency Service
- Ohio Emergency Management Agency
- Ohio State Highway Patrol
- United States Coast Guard
- American Red Cross
- Fire/EMS Liaison
- County Schools Representative
- Ottawa County Sheriff's Dispatch

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

OBJECTIVE SELECTED

Extent of Play: The Ottawa County Radiological Officer will coordinate with dosimetry coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices at all times, when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA EMERGENCY or GENERAL EMERGENCY. Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently.

Should the scenario dictate a revised exposure limit, the message will be limited to those emergency workers having a 25R limit initially.

Advisories from the EOC to field personnel will be simulated due to out of sequence play.

Dosimetry packets have been predistributed to emergency response organizations.

Objective 5 will be demonstrated by appropriate agencies/personnel in conjunction with their RERP assignments.

- Carroll Township Fire and EMS Departments
- Harris-Elmore Fire and EMS Departments
- Portage Fire District
- Port Clinton Fire and EMS Departments
- Mid County EMS
- Ottawa County Sheriff
- Ottawa County Engineer - Highway Garage
- Port Clinton Police
- Benton-Carroll-Salem Schools
- Genoa Area Schools
- Ottawa County Radiological Officer
- Riverview Nursing Home

OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING-AMBIENT RADIATION MONITORING

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

OBJECTIVE: N/A

OBJECTIVE 7: PLUME DOSE PROJECTION

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

OBJECTIVE: N/A

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

OBJECTIVE: N/A

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

OBJECTIVE SELECTED

Extent of Play: Protective action decisions (PADs) will be made in accordance with the RERP and SOPs. The Ottawa County Commissioners are responsible for the recommendation and implementation of protective measures for the affected public and emergency workers. They will reach their decisions by weighing information, data and protective action recommendations from the State, Utility, Federal and local sources. When a protective action has been recommended by either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio, the Ottawa County Commissioners will consult with the Ottawa County Executive Group and the Lucas County Commissioners to decide upon a coordinated protective action, the time when the sirens will be activated, and an Emergency Broadcast System (EBS) message.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State and local officials.

OBJECTIVE SELECTED

Extent of Play: Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADS.

Sirens 1107, 1211 and 1401 will be identified as failing at the General Emergency.

NOAA will be contacted and provided a test message.
NOAA will not broadcast an emergency message.

- National Weather Service (Cleveland)

EBS messages will be prepared and provided to the CPCS-1.
A test message will be recorded and broadcast (when programming allows) in lieu of the first instructional message (at Site Area Emergency). Subsequent messages will be recorded but not broadcast.

- WSPD Radio

Route Verification/Supplemental Route Alerting and Backup Route Alerting will be demonstrated out-of-sequence.
PA systems will be demonstrated with a test message at an agreed upon location.

- Harris-Elmore Fire and EMS Depts.
  Mon., September 18, 1995-1830 hrs.
- Carroll Township Fire and EMS Depts.
  Tues., September 19, 1995-1830 hrs.
- Portage Fire District
  Wed., September 20, 1995-1830 hrs.

Telecommunication devices for the deaf (TDD) are available for demonstration by the Ottawa County Sheriff's Dispatch and by Rumor Control.

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

OBJECTIVE SELECTED

Extent of Play: EBS messages will be prepared and provided to the CPCS-1.
A test message will be recorded and broadcast (if programming allows) in lieu of the first instructional message (at Site Area Emergency). Subsequent messages may be recorded but not broadcast.

- WSPD Radio

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate and timely information to the news media.

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPs, the Offsite JPIC will be activated and staffed by PIOs from Ottawa County, Lucas County, the State, Federal Agencies and the Utility upon declaration of an ALERT. News Reléases will be coordinated with all participating PIOs prior to release to the news media with briefings held jointly, as appropriate.

The Ottawa County PIO will maintain contact with the Public Information Assistant in the Ottawa County Emergency Operations Center (EOC) who will serve as the primary contact point for all public information related matters within the Ottawa County EOC.

Information from participating local or County agencies in the EOC will be coordinated with the Public Information Assistant. The Public Information Assistant will provide information to the PIO for development of a joint news statement with Lucas County and the State, if appropriate.

The Public Information Assistant will ensure that the Commissioners are aware of information being disseminated to the news media. The PIO will coordinate with the Public Information Assistant to receive Commissioner approval on news statements affecting Ottawa County prior to dissemination to the news media.

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPs, rumor control will be accomplished by establishing and publicizing a rumor control telephone number for the Ottawa County EOC. The Rumor Controller will be responsible for answering the Ottawa County rumor control telephone line and will inform the Public Information Assistant of rumors. Feedback on rumors will be provided to the PIO at the JPIC by the Public Information Assistant.

One rumor control line shall receive not less than 6 calls per hour for a two hour period. Telephone calls shall be placed from a control cell.

A telecommunication device for the deaf (TDD) will be available for demonstration by Rumor Control personnel.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals and, if the State plan specifies, the general public.

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPS, Potassium Iodide (KI) is supplied by the Ohio Department of Health to the Ohio EMA for predistribution to offsite response organizations. The Ohio EMA provides a full dose complement of KI tablets for each dosimetry packet of emergency workers with potential to enter the EPZ, thus allowing emergency workers to begin use promptly and voluntarily upon recommendation from the Ohio Department of Health. Should the Ohio Department of Health recommend issuance of KI for emergency workers, the County Radiological Officer will coordinate with local agency dosimetry coordinators to implement such a recommendation. **KI WILL NOT BE INGESTED.**

Issuance of KI to institutionalized individuals is based upon the recommendation of the Ohio Department of Health and implemented at the County and local level. The County Health Department will notify institutional facilities, as needed, and recommend that the appropriate designee for each applicable facility administer KI to institutionalized persons. Actual administration is under the direction of the attending physician. **KI WILL NOT BE INGESTED.**

Agencies/Individuals will demonstrate Objective #14 in conjunction with their RERP assignments. Those available for evaluator interviews will include:

- Carroll Township Fire and EMS Departments
- Harris-Elmore Fire and EMS Departments
- Portage Fire District
- Port Clinton Fire and EMS Departments
- Mid County EMS
- Ottawa County Sheriff
- Ottawa County Engineer - Highway Garage
- Port Clinton Police
- Benton-Carroll-Salem Schools
- Genoa Area Schools
- Ottawa County Radiological Officer
- Riverview Nursing Home

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

OBJECTIVE SELECTED

Extent of Play:

A list of people with special needs (mobility impaired, hearing impaired, etc.) is maintained by the County Health Department, in coordination with Ottawa County EMA and local fire departments, for use in an emergency.

A special needs list shall be printed by the Health Department, however, due to confidentiality concerns, simulated lists will be provided to appropriate fire departments.

Appropriate protective actions for institutionalized/special needs shall be demonstrated by Riverview Nursing Home, at 0900 hours, Thursday, September 21, 1995.

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPs, the Ottawa County Schools Superintendent will report to the EOC to:

1) Provide notification to local school districts.

2) Advise school district superintendents on plant status and recommended response actions.

3) Simulate the coordinating of protective actions for schools.

4) Simulate the coordinating with local school districts to provide buses and volunteer drivers for the evacuation of the mobility impaired, non-auto owning populations and health care facilities.

Two buses will be activated and two drivers mobilized.

Both buses will be driven along the prescribed evacuation route from Oak Harbor High School to the designated Reception Center at Vanguard Vocational School in Fremont.

Vanguard will not participate in the 1995 Exercise.
No students will be transported.

Genoa field participants available for interview beginning at 0900 hrs., Thursday, September 21, 1995 include:

- Genoa - Superintendent, Transportation Supervisor, Dosimetry Coordinator and 1 bus driver.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

Objective 16 (Cont.)

Benton-Carroll-Salem field personnel available for interview beginning at 1000 hrs., Thursday, September 21, 1995 include:

- Benton-Carroll-Salem - Superintendent, Principal, Transportation Supervisor, Dosimetry Coordinator and 1 bus driver.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPs, major traffic intersections are controlled by the Ottawa County Sheriff's Office with support from the Ohio State Highway Patrol, local police departments and the Ohio National Guard.

The County Engineer - Highway Garage and ODOT also assist in traffic control efforts by delivering traffic control equipment and assigning personnel to predetermined control points.

Stalled vehicles restricting evacuation routes will be removed through local law enforcement means or removed by County Engineer - Highway Garage and Ohio Department of Transportation personnel pushing the disabled vehicles off the road.

If assistance is required to perform traffic control, clearing roads or removing stalled vehicles, it is requested from the State through Ohio EMA.

Two Traffic Control Points shall be demonstrated:

- 6-2: SR 2 and SR 358
  Ottawa County Sheriff
- 9-2: SR 163 (E. Perry St.) and Buckeye Blvd.
  Port Clinton Police

Those predesignated perimeter/access control points necessary to control access to an affected area will be activated **(SIMULATED)**. Personnel from the Sheriff's Office, Ohio State Highway Patrol, local police departments and Ohio National Guard, supported by perimeter control equipment from the County Engineer - Highway Garage and Ohio Department of Transportation ensure that unauthorized vehicles do not enter the evacuated areas.

Three Perimeter/ Access Control Points shall be demonstrated:

- 2-13: CR 98 (Salem Carroll Rd.) and T103 (Atwater Rd.)
  Ottawa County Engineer - Highway Garage
- 6-2: SR 2 and SR 358
  Ottawa County Sheriff
- 9-2: SR 163 (E. Perry St.) and Buckeye Blvd.
  Port Clinton Police

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

Remaining Traffic Control and Perimeter/Access Control Points shall be demonstrated procedurally at the Ottawa County EOC by:

- Ottawa County Sheriff's Liaison
- Ottawa County Engineer's Liaison
- Ohio Department of Transportation's Liaison
- Ohio State Highway Patrol Liaison

Ottawa County Engineer-Highway Garage personnel available for interview beginning at 0800 hrs., Wednesday, September 20, 1995 include:

Highway Superintendent, Dosimetry Coordinator and 1 driver

Ottawa County Sheriff's Office personnel available for interview beginning at 1000 hrs., Wednesday, September 20, 1995 include:

Dosimetry Coordinator and 1 deputy

Port Clinton Police personnel available for interview beginning at 1300 hrs., Wednesday, September 20, 1995 include:

Chief, Dosimetry Coordinator, 1 officer

OBJECTIVE 18: RECEPTION CENTER - MONITORING, DECONTAMINATION AND REGISTRATION

Demonstrate the adequacy of procedures, facilities, equipment and personnel for the radiological monitoring, decontamination and registration of evacuees.

OBJECTIVE SELECTED

Extent of Play: In accordance with the RERP and SOPs, if evacuation is the recommended protective action, residents are instructed to leave the affected area along designated routes and go to specific reception centers located in adjacent/host counties. At reception centers, the evacuees are checked for contamination (if potential for contamination exists), registered and assigned to a care center, if necessary.

The Sandusky High School Reception Center, Sandusky, Ohio will be demonstrated in sequence Wednesday, September 20, 1995.

Reference Erie County Objective #18.

The Eisenhower Middle School Reception Center, Oregon, Ohio will be demonstrated out-of-sequence Wednesday, September 20, 1995 at 1930 hrs.

Reference Lucas County Objective #18.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel and procedures for congregate care of evacuees.

OBJECTIVE SELECTED

Extent of Play: Care centers for evacuees are set up in schools, churches and other facilities in Sandusky, Erie and Lucas Counties, as needed. The care centers are activated, as needed, and are operated under the direction of the American Red Cross.

One Erie County congregate care facility, Perkins High School, will be demonstrated in sequence on Wednesday, September 20, 1995.

Reference Erie County Objective #19.

One Lucas County congregate care facility, Fassett Middle School, Oregon, Ohio will be demonstrated out of sequence on Wednesday, September 20, 1995 at 1930 hrs.

Reference Lucas County Objective #19.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't)

6/02/95

OBJECTIVE 20: MEDICAL SERVICES - TRANSPORTATION

Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.

OBJECTIVE SELECTED

Extent of Play: Mid County EMS personnel will be prepositioned at their station, with dosimetry issued and in place.

In sequence with the full-scale exercise, Mid County EMS will respond to a call to Davis-Besse Nuclear Power Station. As per procedure when responding to the plant, they will be met at the gate by Toledo Edison Security and will be issued plant dosimetry. A simulated contaminated/injured employee from the Davis-Besse Nuclear Power Station will then be transported by Mid County EMS to Fremont Memorial Hospital in Sandusky County. Communications from the ambulance to the hospital will be via radio.

There will be a break in play at the Personnel Processing Facility for Evaluators and Controllers to exit the RCA and the Protected Area.

OBJECTIVE 21: MEDICAL SERVICES - FACILITIES

Demonstrate the adequacy of the equipment, procedures, supplies and personnel of medical facilities responsible for treatment of contaminated, injured or exposed individuals.

OBJECTIVE SELECTED

Extent of Play: Fremont Memorial Hospital in Sandusky County will receive a simulated contaminated/injured employee from Davis-Besse Nuclear Power Station in Ottawa County via Mid County EMS. Objective 21 will be demonstrated in Sandusky County in sequence with the full scale exercise.

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT AND VEHICLES - MONITORING AND DECONTAMINATION

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment and vehicles.

OBJECTIVE SELECTED

Extent of Play: Emergency Worker Monitoring and Decontamination will be demonstrated at the True-Lay Stadium out-of sequence on Tuesday, September 19, 1995, beginning at 1830, by the Port Clinton Fire and EMS Departments. Dosimetry will be issued at the station.

The ORO will provide an individual to be a simulated Emergency Worker returning from a field assignment. One Emergency Worker will be monitored for contamination and will be processed through the facility. Decisions on the need for decontamination will be made based on Controller injected radiation levels. Decontamination will be simulated. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

Vehicle monitoring and decontamination will also be demonstrated by members of the Port Clinton Fire and EMS Departments at Bataan Elementary School. The vehicle monitoring and decontamination area will be set up as per procedure. One vehicle will be monitored but not decontaminated. A firefighter will be available to answer questions regarding monitoring and decontamination procedures, contamination control and record-keeping.

OBJECTIVE 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

OBJECTIVE N/A

OBJECTIVE 24: POST-EMERGENCY SAMPLING

Demonstrate the use of equipment and procedures for the collection and transportation of samples from areas that received deposition from the airborne plume.

OBJECTIVE N/A

OBJECTIVE 25: LABORATORY OPERATIONS

Demonstrate the laboratory operations and procedures for measuring and analyzing samples

OBJECTIVE N/A

OBJECTIVE 26: INGESTION EXPOSURE PATHWAY - DOSE PROJECTION AND PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to project dose to the public for the ingestion exposure pathway and to recommend protective actions.

OBJECTIVE N/A

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION

Demonstrate the capability to implement protective actions for the ingestion exposure pathway.

OBJECTIVE NOT SELECTED

OBJECTIVE 28: RELOCATION, RE-ENTRY AND RETURN - DECISION MAKING

Demonstrate the capability to develop decisions on relocation, re-entry and return

OBJECTIVE SELECTED

Relocation, Re-entry and Return decision making will be demonstrated by the Ottawa County Post Accident Operations Committee thru tabletop discussion. Discussions will be driven by Controller injects and State-provided dose assessments.

OBJECTIVE 29: RELOCATION, RE-ENTRY AND RETURN - IMPLEMENTATION

Demonstrate the capability to implement appropriate measures for relocation, re-entry and return.

OBJECTIVE SELECTED

Implementation of Relocation, Re-entry and Return will be demonstrated by the Ottawa County Post Accident Operations Committee thru tabletop discussion. Discussions will be driven by Controller injects and State provided dose assessments.

OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

OBJECTIVE SELECTED

The capability to maintain staffing on a continuous, 24-hour basis will be demonstrated by key EOC and JPIC personnel through an actual shift change which will occur between 1100 and 1300 hrs.

Because of the distance between the Ottawa County EOC and the offsite JPIC, the PIO position will be double staffed.

Outgoing staff will brief their replacements on the current status of the simulated emergency. The incoming shift will then assume responsibility for essential emergency functions and activities and perform the duties of the personnel they replace.

OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE PERSONNEL

Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

OBJECTIVE N/A

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

OBJECTIVE NOT SELECTED

OBJECTIVE 33: OFF-HOURS EXERCISE DRILL

Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill

OBJECTIVE NOT SELECTED

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN OTTAWA COUNTY OBJECTIVES

Bataan Elementary School
525 W. 6th Street
Port Clinton, Ohio 43452
419/734-2815
Buck Linkous, Principal

Benton-Carroll-Salem Schools
Bus Garage
N. Benton Street
Oak Harbor, Ohio 43449
419/898-6214
Bob Sondergeld, Trans. Supv.

Fremont Memorial Hospital
715 South Taft Street
Fremont, Ohio 43420
419/332-7321
Al Gorman, Administrator

Harris-Elmore Fire & EMS Departments
321 Rice Street
Elmore, Ohio 43416
419/862-3332
Jerry Haar, Fire Chief
Bill Sorg, EMS Chief

Oak Harbor High School
11661 W. State Rte. 163
Oak Harbor, Ohio 43449
419/898-6216
Richard Thorbahn, Principal

Ottawa County Highway Garage
8247 W. State Route 163
Oak Harbor, Ohio 43449
419/898-6463
Jim Young, Superintendent

Portage Fire District
242 W. Water Street
Oak Harbor, Ohio 43449
419/898-6074
Tom Almendinger, Chief

Benton-Carroll-Salem Schools
Board of Education
11685 W. State Route 163
Oak Harbor, Ohio 43449
419/898-6210
Terry Clark, Superintendent

Carroll Township Fire & EMS Departments
11080 W. Toussaint East Road
Oak Harbor, Ohio 43449
419/898-9621
Lowell Johannsen, Fire Chief
Ed Dewitz, EMS Chief

Genoa Bus Garage
303 W. 4th Street
Genoa, Ohio 43430
419/855-8471
Dave Hitchen, Transportation Supervisor

National Weather Service
Federal Facilities Office Building
Cleveland Hopkins International Airport
Cleveland, Ohio
216/265-2370 or 2372
Bill Comeaux, MIC

Offsite Joint Public Information Center
Edison Club
1036 River Road
Maumee, Ohio

Ottawa County Sheriff's Office
315 Madison Street
Port Clinton, Ohio 43452
419/734-4404
Craig Emahiser, Sheriff

Port Clinton Fire & EMS Departments
Adams & Second Streets
Port Clinton, Ohio 43452
419/734-3430
John Drummer, Fire Chief
Don Mortus, EMS Chief

1.2.3 OTTAWA COUNTY OBJECTIVES (con't) 6/02/95

Port Clinton Police Department
Adams & Second Streets
Port Clinton, Ohio 43452
419/734-3121
Walt Bahnsen, Chief

Sandusky High School
2130 Hayes Avenue
Sandusky, Ohio 44870
419/621-2744
Eugene Kidwell, Principal

Vanguard Vocational School
1306 Cedar Street
Fremont, Ohio 43420
419/332-2626
William Burson, Director

Riverview Nursing Home
8180 W. State Route 163
Oak Harbor, Ohio 43449
419/898-2851
John Moore, Administrator

True-Lay Stadium
West Fremont Road
Port Clinton, Ohio 43452
419/734-2334
Carey Clum, Athletic Director

WSPD
125 South Superior Street
Toledo, Ohio
419/244-8321
Bill Rossini, Chairman
NW Ohio Operational Area EBS

1.2.4 LUCAS COUNTY OBJECTIVES

1995
EVALUATED EXERCISE
LUCAS COUNTY OBJECTIVES

WILL BE EVALUATED ON
LUCAS COUNTY PLAN REV. 8
STANDARD OPERATING PROCEDURE REV. 8

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

OBJECTIVE SELECTED

Offsite Response Organizations/Extent of Play:

All agencies identified in the Lucas County Radiological Emergency Response Plan (RERP) will be alerted as per established procedures. Appropriate personnel shall be mobilized in accordance with the RERP to staff emergency facilities. The Sheriff's Dispatcher will notify the emergency response agencies/individuals. Agencies/Individuals to be notified will vary according to the level of emergency. Agencies/individuals will be contacted by radio, pager or telephone. The designated individual will notify appropriate personnel within the agency by using normal internal notification procedures. Personnel will be informed of the plant's status so that each agency with response roles at specific levels in the emergency can take appropriate actions as specified in the plan. The agency/individual representative receiving initial notification will notify appropriate personnel within the agency using normal internal notification procedures. Individual agencies rely on telephone and/or radio to contact their personnel according to a predetermined priority call list. The County EMA Director shall be responsible for EOC activation and operation. The EOC will not normally be activated for an UNUSUAL EVENT. It will be activated for an ALERT. The EOC staff will be fully mobilized at a SITE AREA EMERGENCY OR GENERAL EMERGENCY. Some EOC positions may be double staffed for training purposes. The following field activities/facilities will be driven by controller injects and demonstrated out-of-sequence:

- Perimeter/Access Control
  - Lucas County Sheriff
    Wednesday, September 20, 1995 - 1300 hrs
- Traffic Control
  - Lucas County Sheriff
    Wednesday, September 20, 1995 - 1300 hrs
- Emergency Worker Monitoring/Decontamination
  - Jerusalem Township Volunteer Fire Department
    Wednesday, September 20, 1995 - 1830 hrs.
- Protective Actions - Schools
  - Oregon School District
    Wednesday, September 20, 1995 - 1000 hrs.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 1: (Continued)

- Evacuee Monitoring and Decontamination
  - Oregon Fire Department (Oregon Fire Department Station #1 will be pre-positioned at Station #1) Wednesday, September 20, 1995 - 1900 hrs.

The following Offsite Response Organizations will be pre-positioned at the Reception Center (Eisenhower Middle School Reception Center, 331 North Curtice Rd., Oregon, Ohio) Wednesday, September 20, 1995 - 1930 hrs.

- Oregon School District (provision of facilities)
- ARES/RACES (Backup communications)
- American Red Cross (Liaison between Care Center and Reception Center)
- Lucas County Human Services (Registration of evacuees)
- Oregon Police (Security)
- Salvation Army

The following Offsite Response Organizations will be pre-positioned at the Care Center (Fassett Middle School, 3025 Starr Ave., Oregon, Ohio) September 20, 1995 at 1930 hours.

- American Red Cross (Care Center operations)
- Oregon School District (Provision of facilities)
- Oregon Police Department - On-duty officer (Security)
- ARES/RACES (Backup communication)

The medical drill for St. Charles Hospital (2600 Navarre Ave., Oregon, Ohio) will be demonstrated out-of-sequence on September 21, 1995 at 0800 hours. Initial event notification and conditions will be provided via a controller.

State agency representatives designated by the Lucas County Plan to report to the Lucas County EOC will not be participating in this exercise. These agency representatives are:

- Ohio Emergency Management Agency Representative
- Ohio National Guard
- Ohio Department of Health Liaison
- Ohio Department of Agriculture
- Ohio Department of Transportation

The following ORO's will receive notifications, but will not actually dispatch personnel to field locations:

- Lucas County Dog Warden
- Ohio State Highway Patrol
- Lucas County Engineer Road Crews

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.

OBJECTIVE SELECTED

Extent of Play: All facilities, equipment and displays at the locations listed in Objective 1 will be demonstrated.

Backup power will be demonstrated in the EOC.

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

OBJECTIVE SELECTED

Extent of Play: Direction and Control will be demonstrated by appropriate participating agencies in accordance with the RERP and SOPS.

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

OBJECTIVE SELECTED

Offsite Response Organizations:
- Lucas County EOC
- American Red Cross
- Amateur Radio Emergency Service
- Lucas County Sheriff
- Oregon School District
- Oregon Police Department
- Jerusalem Fire Department
- Oregon Fire Department
- Salvation Army

Extent of Play: The telephone is used as the primary means of communications between the local, Utility, County, State and Federal agencies. The initial notification call informing County officials of an emergency at DBNPS will come through the Sheriff's Dispatch Center on the 4-Way dedicated telephone line. Upon activation of the County EOC, a 4-way dedicated (conference style) telephone hook-up will connect the Utility, Ottawa County, Lucas County and the Ohio EMA. This, in turn, will be supported by a facsimile machine system to verify verbal communications, as well as plant status

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 4: (Continued)

and radiological dose assessment updates. This system will remain open and operational until the incident is terminated by the appropriate authority. In addition, a 3-way conference line will connect Ottawa and Lucas County Commissioners, and the Govenor's Representative and will be used to coordinate protective action recommendations and activation of the siren system and EBS. Once notification has been made and communication links are established, a telephone/radio network will be used to expedite agency communications.

Radio/backup communication will be available for demonstration by:

- Amateur Radio Emergency Service
- Fire/EMS Liaison
- Lucas County Sheriff's Dispatch

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

OBJECTIVE SELECTED

Offsite Response Organizations: Jerusalem Township Volunteer Fire Department
Oregon Volunteer Fire Department
Lucas County Sheriff
Oregon School District
Lucas County EOC

Extent of Play: The Lucas County Radiological Officer will coordinate with dosimetry coordinators to monitor exposure of county emergency workers. Each emergency worker will wear assigned dosimetry devices at all times when performing personnel or equipment contamination monitoring and decontamination, when handling radioactive material, and whenever an individual is in the EPZ during a SITE AREA EMERGENCY or GENERAL EMERGENCY. Individuals will be instructed to read their direct-reading dosimetry every thirty minutes or more frequently.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 5: (Continued)

The Jerusalem Township Volunteer Fire Department will demonstrate emergency worker monitoring and decontamination out of sequence on Wednesday, September 20, at 1830 hours.

Should the scenario dictate a revised exposure limit, the message will be limited to those emergency workers having a 25R limit initially.

Advisories from the EOC to field personnel will be simulated due to out-of sequence play.Dosimetry packets have been predistributed to emergency response organizations.

OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

OBJECTIVE: N/A

OBJECTIVE 7: PLUME DOSE PROJECTION

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

OBJECTIVE: N/A

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (.00000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

OBJECTIVE: N/A

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 9: PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

OBJECTIVE SELECTED

Offsite Response Organizations: Lucas County Commissioners

Extent of Play: Protective action decisions (PADs) will be made in accordance with the RERP and SOPs. The Lucas County Commissioners are responsible for the decision and implementation of protective measures for the affected public. They will reach their decisions by weighing information, data and protective action recommendations from the State, Utility, Federal and local sources. When a protective action has been recommended by either the Davis-Besse Nuclear Power Station (DBNPS) or the State of Ohio, the Lucas County Executive Group will consult with the Ottawa County Commissioners to decide upon a coordinated protective action, an Emergency Broadcast System (EBS) message, and the time when the sirens will be activated.

OBJECTIVE 10: ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.

OBJECTIVE SELECTED

Offsite Response Organizations: Lucas County Commisioners (EOC Executive Group)
WSPD/WLQR Radio (EBS)
Jerusalem Township Volunteer Fire Department

Extent of Play: Siren activation will be simulated at Site Area Emergency, General Emergency and prior to the announcement of PADS.

A siren will be identified as failing at the General Emergency.

EBS messages will be prepared in coordination with Ottawa County and provided to the CPCS-1. A test message will be recorded and broadcast (if programming allows) in lieu of the first instructional message (at Site Area Emergency). Subsequent messages may be recorded but not broadcast. Northwest Ohio Emergency Broadcast Station Coordinator may be evaluated by interview.

Route Verification/Supplemental Route Alerting and Backup Route Alerting will be demonstrated by interview with the Route Verification Team Leader at the Jerusalem Township Volunteer Fire Department. Mobile PA systems will be demonstrated upon request.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION

Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

OBJECTIVE SELECTED

Offsite Response Organization: WSPD/WLQR Radio

Extent of Play: The executive group in the EOC will demonstrate the ability to:

- formulate appropriate messages to the public
- coordinate those messages with Ottawa county
- dissiminate those messages
- assure that all elements of the ERO are aware of the messages provided to the public.

A test message will be recorded and broadcast (if programming allows) in lieu of the first instructional messages (at Site Area Emergency). Subsequent messages may be recorded but not broadcast. Northwest Ohio Emergency Broadcast Station Coordinator may be evaluated by interview.

OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

OBJECTIVE SELECTED

Offsite Response Organizations: Joint Public Information Center
Lucas County EOC

Extent of Play: In accordance with the RERP and SOPs, the Offsite JPIC will be activated and staffed by PIOs from Ottawa County, Lucas County, the State, Federal Agencies and the Utility upon declaration of an Alert. News Releases will be coordinated with all participating PIOs prior to release to the news media with briefings held jointly, as appropriate.

The Lucas County PIO will maintain contact with the Public Information Liaison in the Lucas County Emergency Operations Center (EOC) who will serve as the primary contact point for all public information related matters within Lucas County.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 12: (Continued)

Information from participating agencies in the EOC will be coordinated with the Public Information Liaison. The Public Information Liaison will provide information to the PIO for development of a joint news statement with Ottawa County and the State, if appropriate.

The Public Information Liaison will ensure that the Commissioners are aware of information being disseminated to the news media. The PIO will coordinate with the Public Information Liaison to receive Executive Group approval on news releases affecting Lucas County prior to dissemination to the news media.

OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

OBJECTIVE SELECTED

Offsite Response Organizations: Joint Public Information Center
Lucas County EOC

Extent of Play: In accordance with the RERP and SOPs, rumor control will be accomplished by establishing and publicizing a rumor control telephone number for the Lucas County EOC. The Rumor Control Officer will be responsible for answering the Lucas County rumor control telephone line and will inform the Public Information Liaison of rumors. Feedback on rumors will be provided to the PIO at the JPIC by the Public Information Liaison.

One rumor control line shall receive not less than 6 calls per hour for a two hour period. Telephone calls shall be placed from a control cell.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC

Demonstrate the capability and resources to implement Potassium Iodide (KI) protective actions for emergency workers, institutionalized individuals, and if the state plan specifies, the general public.

OBJECTIVE SELECTED

Offsite Response Organization: Jerusalem Township Volunteer Fire Department
Lucas County Sheriff
Oregon School District
Oregon Volunteer Fire Department

Extent of Play: In accordance with the RERP and SOPs, Potassium Iodide (KI) is supplied by the Ohio Department of Health to the Ohio EMA for predistribution to agencies and institutions. The Ohio EMA places a full dose complement of KI tablets in each dosimetry packet of emergency workers with potential to enter the EPZ, thus allowing the emergency workers to begin use promptly and voluntarily upon recommendation from the Ohio Department of Health. Should the Ohio Department of Health recommend issuance of KI for emergency workers in subarea 11, the County Radiological Officer will coordinate with local agency dosimetry coordinators to implement such a recommendation.
KI WILL NOT BE INGESTED.

The 10 mile Emergency Planning Zone in Lucas County does not have any institutionalized individuals.

Agencies/Individuals will demonstrate Objective #14 in conjunction with their RERP assignments. Those available for evaluator interviews will include:

- Jerusalem Township Volunteer Fire Department
- Lucas County Sheriff
- Oregon School District
- Oregon Volunteer Fire Department

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

OBJECTIVE SELECTED

Offsite Response Organization: Jerusalem Township Trustees
Jerusalem Township Volunteer Fire Department
Lucas County EOC

Extent of Play: A list of people with special needs (mobility impaired, hearing impaired, etc.) is maintained by the Jerusalem Township Trustees and Jerusalem Township Fire Chief in coordination with the Lucas County EOC Fire Coordinator, for use in an emergency.

The Jerusalem Township Trustee Community Liaison will simulate contacting the Special Needs population at the Jerusalem Township Fire Station to determine what resources they may require.

The Jerusalem Township Fire Chief and Route Verification Team Leader will also be available for interview.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOL

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

OBJECTIVE SELECTED

Offsite Response Organization: Lucas County EOC
Oregon School District

Extent of Play: In accordance with the RERP and SOPs, the Oregon School District Representative will report to the EOC to:

1) Provide notification to local school districts.

2) Advise school superintendent on plant status and recommend response actions.

3) Simulate the coordinating of precautionary actions for schools.

4) Simulate the coordinating with Transportation Director to provide buses and volunteer drivers for the evacuation of the mobility impaired, non-auto owning populations.

If consideration for the precautionary relocation of Jerusalem students is made, it will be simulated.

One bus will be activated and one bus driver mobilized. The bus will be driven to the Reception Center at Eisenhower Middle School. No students will be transported.

Field participants available for interview beginning at 1000 hrs., on Wednesday, September 20, 1995 include:

- The School District EOC Representative
  Lucas County EOC

- Transportation Coordinator, Dosimetry Coordinator, Bus Driver
  Oregon Bus Garage
  5721 Seaman Road
  Oregon, OH

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

OBJECTIVE SELECTED

Offsite Response Organizations: Lucas County Sheriff
Lucas County Engineer

Extent of Play: In accordance with the RERP and SOPs, major traffic intersections are controlled by the Lucas County Sheriff's Office, Ohio State Highway Patrol, and Oregon Police Department.

The County Engineer also assists in traffic control efforts by delivering traffic control equipment to pre-determined control points. The County Engineer will be available for interview. Field activity by the County Engineer will not be demonstrated this year.

One Perimeter/Access Control Point shall be demonstrated:

- Lucas County Sheriff

One Traffic Control Point shall be demonstrated:

- Lucas County Sheriff

The Lucas County Sheriff will demonstrate out of sequence and will simulate manning Traffic Control Point and Perimeter/Access Control Point (11-2) at 1300 hrs. Wednesday September 20, 1995.

Remaining Perimeter/Access and Traffic Control Points shall be demonstrated procedurally at the Lucas County EOC by:

- Lucas County Law Enforcement Coordinator
- Lucas County Engineer

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 18: RECEPTION CENTER MONITORING, DECONTAMINATION, AND REGISTRATION

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.

OBJECTIVE SELECTED

Offsite Response Organizations: Oregon Volunteer Fire Department at Eisenhower Middle School
Department of Human Services
ARES/RACES
Salvation Army
Jerusalem Township Trustee
American Red Cross
Oregon School District

Extent of Play: The Eisenhower Middle School Reception Center, 331 North Curtice Road, will be demonstrated out-of-sequence on Wednesday, September 20, 1995 at 1930.

Oregon Volunteer Fire Department will be prepositioned at Oregon Fire Station #1 at 1900 to receive dosimetry and to be dispatched to the Reception Center.

At the Reception Center, one monitoring line, which is one-half of the total needed, will be demonstrated. A total of six monitoring surveys will be demonstrated with simulated evacuee(s) provided by the ORO. Individuals will be monitored at the rate of approximately 4 1/2 minutes per survey. Decisions on the need for decontamination will be made based on Controller interjected radiation levels. One individual will be simulated contaminated and will be processed through the secondary (decontamination) area. Decontamination will be simulated. The proper sequence of washing/decontamination efforts and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

Contamination control and record-keeping procedures will be demonstrated at the initial monitoring point and at the secondary monitoring point.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 18: (Continued)

Vehicle Monitoring and decontamination will not be demonstrated at Eisenhower Middle School. Jerusalem Township Volunteer Fire Department has primary responsibility for this activity at Eisenhower Middle School per current RERP and procedures. The location for this demonstration will be at the Jerusalem Volunteer Fire Station.

Reference Lucas County Objective #22.

Registration of six evacuees will be demonstrated procedurally by the Department of Human Services under the direction of the Reception Center Manager. Transport of evacuees to Care Center will be simulated.

Controllers will simulate messages from the EOC.

ARES/RACES will demonstrate backup communications between the Reception Center and the Care Center.

A Jerusalem Township Trustee will be at the Reception Center to help take care of evacuees' questions and concerns.

A Salvation Army Representative will be available for evaluation by interview.

The American Red Cross Liaison provides evacuee information to Care Center Manager.

Brown kraft paper will be used for floor covering.

NOTE: See controller for current copy of Assessment of Reception and Care Center Requirements and Available Resources document.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

OBJECTIVE SELECTED

Offsite Response Organization: American Red Cross
Oregon School District
ARES/RACES
Oregon Police Department

Extent of Play: Fassett Middle School, 3025 Starr Ave., will be demonstrated out-of-sequence on September 20, 1995 at 1930 hours. A custodian will open school. Care center capabilities to provide food, bedding and other necessities will be demonstrated via documentation from the American Red Cross.

American Red Cross positions that will be participating will include one care center manager, one registration worker, one nurse, and one family worker.

ARES will demonstrate backup communications between the Care Center and Reception Center.

Oregon School Representative will be available for interview.

Oregon Police Department (officer on duty) will be available for interview.

NOTE: See controller for current ARC letter for additional details on Care Center procedures and capabilities.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 20: MEDICAL SERVICES - TRANSPORTATION

Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or exposed individuals.

OBJECTIVE SELECTED

Offsite Response Organization: Jerusalem Township Volunteer Fire Dept.

Extent of Play: Jerusalem Township Volunteer Fire Department personnel have successfully demonstrated this objective annually since 1990. This objective will be demonstrated via inquiries and review of applicable procedures, vehicles, equipment, and supplies only. Actual response will not be demonstrated by Fire Department personnel.

OBJECTIVE 21: MEDICAL SERVICES - FACILITIES

Demonstrate the adequacy of equipment, procedures, supplies and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

OBJECTIVE SELECTED

Offsite Response Organization: St. Charles Hospital

Extent of Play: St. Charles Hospital, 2600 Navarre Avenue, Oregon, Ohio will demonstrate out-of-sequence on Thursday, September 23 at 0800 hours. A controller interjected message will be used to initiate notification of St. Charles Hospital of the contaminated/injured patient conditions.

Initial conditions will begin with the contaminated injured patient on a gurney at the emergency room entrance. No transport vehicle will be involved in this demonstration. Removal of patient from transport vehicle will be assumed to have occured.

NOTE: Davis-Besse provides direct reading dosimeters to the hospital and maintains inspection records at the plant. Verification of direct reading dosimeter leakage inspection is identified via a color-code system. The color-code that designated inspection period 6-95 through 1-96 is green (per DBNPS Station procedures), which is indicated by the tape on the direct reading dosimeters.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION

Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment, and vehicles.

OBJECTIVE SELECTED

Offsite Response Organization: Jerusalem Township Volunteer Fire Department

Extent of Play: Emergency Worker Monitoring and Decontamination will be demonstrated out-of-sequence on Wednesday, September 20, 1995, beginning at 1830 at the Jerusalem Township Volunteer Fire Department.

The ORO will provide an individual to be a simulated Emergency Worker returning from a field assignment. One Emergency Worker will be monitored for contamination and will be processed through the facility. Decisions on the need for decontamination will be made based on controller interjected radiation levels. Decontamination will be simulated. The proper sequence for washing and for decontamination efforts, and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

The vehicle monitoring and decontamination area will be set up as per procedure. One vehicle will be monitored but not decontaminated. A firefighter will be available to answer questions regarding monitoring and decontamination procedures, contamination control and record keeping.

OBJECTIVE 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

OBJECTIVE: N/A

OBJECTIVE 24: POST-EMERGENCY SAMPLING

Demonstrate the use of equipment and procedures for the collection and transportation of samples from areas that received deposition from the airborne plume.

OBJECTIVE: N/A

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 25: LABORATORY OPERATIONS

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

OBJECTIVE: N/A

OBJECTIVE 26: INGESTION EXPOSURE PATHWAY - DOSE PROJECTION AND PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to project dose to the public for the ingestion pathway and to recommend protective measures.

OBJECTIVE: N/A

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - PROTECTIVE ACTION IMPLEMENTATION

Demonstrate the capability to implement protective actions for the ingestion exposure pathway.

OBJECTIVE NOT SELECTED

OBJECTIVE 28: RELOCATION, RE-ENTRY AND RETURN - DECISION MAKING

Demonstrate the capability to develop decisions on relocation, re-entry, and return.

OBJECTIVE SELECTED

Representatives that form the EOC recovery/reentry team will demonstrate this objective procedurally via a tabletop discussion and controller interjected messages received from the State of Ohio.

OBJECTIVE 29: RELOCATION, RE-ENTRY AND RETURN - IMPLEMENTATION

Demonstrate the capability to implement relocation, re-entry, and return.

OBJECTIVE SELECTED

Representatives that form the EOC recovery/reentry team will demonstrate this objective procedurally via a tabletop discussion and controller interjected messages received from the State of Ohio.

1.2.4 LUCAS COUNTY OBJECTIVES (con't)

OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING

Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

OBJECTIVE SELECTED

A shift change announcement will be made by an EMA staff member between 1000 hours and 12 noon. At this time EOC alternates will be notified and instructed to report to the EOC. The incoming staff will be invited to eat prior to taking over their EOC position. The outgoing staff will conduct a shift turnover briefing with the incoming staff, sign out on the EOC Roster Board, eat lunch, then check out of the facility at the security station. Individual exceptions to this procedure may be necessary due to non-exercise related commitments.

OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE PERSONNEL

Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

OBJECTIVE: N/A

OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

OBJECTIVE NOT SELECTED

OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL

Demonstrate the capability to carry out emergency response functions during an exercise or drill.

OBJECTIVE NOT SELECTED

1.2.5 ERIE COUNTY OBJECTIVES

ERIE COUNTY 1995 EXERCISE OBJECTIVES

1.2.5 ERIE COUNTY OBJECTIVES (con't)

NOTE: Demonstrations are rotated between Sandusky and Erie Counties every two years. Erie County will demonstrate Reception Center and Care Center related objectives for the 1995 exercise.

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

OBJECTIVE N/A

The EOC is participating in-sequence but will not be evaluated. The Reception Center and Care Center demonstrations will be conducted out of sequence. Notification can be observed between the Ottawa County Sheriff's Dispatcher and the Erie County Sheriff's Dispatcher.

OBJECTIVE 2: FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

OBJECTIVE SELECTED

Extent of Play:

All facilities, equipment, displays, and other materials will be demonstrated in accordance with procedures. Security access to the Reception Center and Care Centers will be demonstrated by the Sandusky and Perkins Township Police Departments respectively.

* Sandusky High School (Reception Center)
* Perkins High School (Care Center)

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

OBJECTIVE SELECTED

Extent of Play:

The Reception Center and the care center will be demonstrated out-of-sequence.

* Erie County Human Services (Reception Center Manager)
* Sandusky Fire Dept. (Monitoring & Decontamination)
* Perkins Township Fire Dept. (Monitoring & Decontamination)
* Margaretta Township Fire Dept. (Monitoring & Decontamination)
* American Red Cross (Care Center)

OBJECTIVE 4: COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

OBJECTIVE SELECTED

Extent of Play:

The primary means of communication is telephone. The backup means of communication is amateur radio. Primary communications at the reception center will be demonstrated by the American Red Cross Reception Center Liaison placing a call to the American Red Cross chapter office in Sandusky. Primary Communications at the Care Center will be demonstrated by American Red Cross personnel placing a telephone call to American Red Cross chapter office in Sandusky. Backup communications will be demonstrated at the Reception Center and the Care Center by ARES/RACES who will communicate with the American Red Cross chapter office in Sandusky.

* ARES/RACES
* American Red Cross

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

OBJECTIVE SELECTED

Extent of Play:

Sandusky Fire Department, Perkins Township Fire Department, and Margaretta Township Fire Department will receive their dosimetry and demonstrate emergency worker exposure control in conjunction with the activities of the Reception Center. The Dosimetry Coordinator will be pre-positioned at Sandusky High School and will distribute dosimetry from that location.

- Sandusky Fire Department (Monitoring & Decontamination)
- Perkins Township Fire Department (Monitoring & Decontamination)
- Margaretta Township Fire Department (Monitoring & Decontamination)

OBJECTIVE 6: N/A

OBJECTIVE 7: N/A

OBJECTIVE 8: N/A

OBJECTIVE 9: N/A

OBJECTIVE 10: N/A

OBJECTIVE 11: N/A

OBJECTIVE 12: N/A

OBJECTIVE 13: N/A

OBJECTIVE 14: N/A

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 15: **N/A**

OBJECTIVE 16: **N/A**

OBJECTIVE 17: **N/A**

OBJECTIVE 18: **RECEPTION CENTER MONITORING, DECONTAMINATION, AND REGISTRATION**

Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.

OBJECTIVE SELECTED

Extent of Play:

The Sandusky High School Reception Center will be demonstrated out-of-sequence September 20, 1995. Monitoring and decontamination will be demonstrated procedurally by Sandusky, Perkins Township, and Margaretta Township Fire Departments. The Dosimetry Coordinator will be pre-positioned at Sandusky High School and will distribute dosimetry from that location.

Five monitoring lines will be demonstrated (one third of thirteen). Twelve hour staffing will be demonstrated by roster. A total of six monitoring surveys will be demonstrated utilizing individuals available at the scene. Individuals will be monitored at the rate of approximately 4 1/2 minutes per survey. Contamination levels will be supplied by the Controller. One individual will be simulated contaminated and will be processed through the secondary decontamination area. Decontamination will be simulated. The proper sequence of washing/decontamination efforts and the decisions to refer individuals who cannot be decontaminated to medical facilities will be demonstrated via inquiries.

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 18: (CONTINUED)

Contamination control and record-keeping procedures will be demonstrated at the initial monitoring point and at the secondary monitoring point. Brown kraft paper will be used for floor covering.

Vehicle monitoring and decontamination area will be set up per procedure. One vehicle will be monitored and decisions regarding the need for decontamination will be made as radiation levels are presented via controller interject. Record-keeping procedures will be demonstrated. No vehicles will be washed. Decontamiantion capabilities will be demonstrated through observation and inquiries.

Registration of six evacuees will be demonstrated under the direction of the Reception Center Manager (Erie County Human Services). A Salvation Army Representative will be available for evaluation by interview. Transportation of evacuees from the reception to care centers will not be demonstrated.

Participating organizations are:

* Sandusky Fire Department
* Perkins Township Fire Department
* Margaretta Township Fire Department
* Sandusky Police Department
* Salvation Army
* Erie County Dog Warden

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 19: CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

OBJECTIVE SELECTED

Extent of Play:

Perkins High School congregate care center will be demonstrated out of-sequence. Care Center capabilities to provide food, bedding, and other necessities will be demonstrated via documentation from the American Red Cross.

American Red Cross staff positions that will be participating will include one care center manager, one registration worker, one nurse, and one family worker at the care center and a coordinator at the American Red Cross chapter office in Sandusky.

Twenty-four hour staffing for the care center will be demonstrated by roster.

Participating organizations are:

- American Red Cross
- Perkins High School
- Erie County Health Department
- ARES/RACES
- Perkins Township Police Department

OBJECTIVE 20: N/A

OBJECTIVE 21: N/A

OBJECTIVE 22: N/A

OBJECTIVE 23: N/A

1.2.5 ERIE COUNTY OBJECTIVES (con't)

OBJECTIVE 24: N/A

OBJECTIVE 25 N/A

OBJECTIVE 26: N/A

OBJECTIVE 27: N/A

OBJECTIVE 28: N/A

OBJECTIVE 29: N/A

OBJECTIVE 30: N/A

OBJECTIVE 31: N/A

OBJECTIVE 32: N/A

OBJECTIVE 33: N/A

LOCATIONS OF ERIE COUNTY FIELD ACTIVITIES

Sandusky High School
2130 Hayes Ave.
Sandusky, OH 44870
(419) 621-2744
Mike Bailey, Principal

2.0 EXERCISE INFORMATION

2.1 EXERCISE PARTICIPANTS

The participants in the Exercise will include, but are not limited to, the following groups:

2.1.1 The Davis-Besse Nuclear Power Station (DBNPS)

1. Control Room (CTRM) Simulator
2. Technical Support Center (TSC)
3. Operations Support Center (OSC)
4. Emergency Control Center (ECC)
5. Dose Assessment Center (DAC)
6. Radiological Testing Lab (RTL)
7. Radiation Monitoring Teams (RMTs)
8. Offsite Joint Public Information Center (JPIC)
9. Davis-Besse Nuclear Security Force (SEC)

2.1.2 State of Ohio

1. Ohio Emergency Management Agency (OEMA)
2. Ohio Department of Health (ODH)
3. Ohio Environmental Protection Agency (OEPA)
4. Ohio Department of Agriculture (ODA)
5. Ohio Department of Public Safety/State Highway Patrol (OSHP)
6. Ohio Department of Transportation (ODOT)
7. Ohio National Guard (ONG)
8. Ohio Department of Natural Resources (ODNR)

2.1.3 Ottawa County

1. Emergency Management Agency (EMA)
2. Ottawa County Commissioners
3. Ottawa County Sheriff's Department
4. Ottawa County Engineer
5. Ottawa County Health Department
6. American Red Cross
7. United States Coast Guard
8. Port Clinton Police
9. Benton-Carroll-Salem Schools
10. Genoa Area Schools
11. Port Clinton Schools
12. Carroll Township Fire and EMS Department
13. Portage Fire District
14. Port Clinton Fire and EMS Department
15. Riverview Nursing Home
16. Amateur Radio Emergency Service
17. Mid-County Emergency Medical Service
18. Harris-Elmore Fire and EMS Department

2.1.4 Lucas County

1. Emergency Management Agency (EMA)
2. Lucas County Commissioners
3. Lucas County Engineer
4. Lucas County Sheriff's Department
5. American Red Cross
6. Salvation Army
7. Jerusalem Township Fire Department
8. Oregon Fire Department
9. Oregon School District
10. Oregon Police Department
11. Jerusalem Township Trustee
12. St. Charles Hospital
13. Amateur Radio Emergency Service
14. Health Department
15. Ohio State University Extension
16. Lucas County Emergency Medical Services

2.1.5 Erie County

1. Erie County Emergency Management Agency (EMA)
2. Health Department
3. Department of Human Services
4. Sandusky City Schools
5. Margaretta Township Fire Department
6. Perkins Township Fire Department
7. Sandusky Fire Department
8. American Red Cross
9. Salvation Army
10. Perkins Township Police Department
11. Amateur Radio Emergency Service (ARES)

2.1.6 MS-1 Response

1. Fremont Memorial Hospital
2. St. Charles Hospital
3. Mid-County Emergency Medical Service

2.2 EXERCISE ORGANIZATION

The organization for this Exercise will consist of the Exercise Coordinator, the Controllers, the Evaluators, the Players, and the Observers, as follows:

2.2.1 The Exercise Coordinator is responsible for a successful Exercise, and will coordinate all Exercise preparations. Subsequent to the conduct of the Exercise, he will coordinate the preparation of a consolidated evaluation package, and prepare and follow up on the corrective actions recommended as a result of the evaluation and critique.

2.2.2 The Lead Exercise Controller is responsible for the safe conduct of the Exercise. He will coordinate the resolution of any scenario-related inter-facility questions, and ensure that the conduct of the Exercise does not adversely impact the operation of the Station.

2.2.3 Controllers are personnel selected to perform functions as follows:

1. A Lead Facility Controller is assigned to each emergency response facility. The Lead Facility Controller is responsible for all Controller, Evaluator, and Observer activities in that facility and, as appropriate, its associated teams. Controllers for teams or subgroups of a facility report to the Lead Facility Controller.

2. The Controllers will deliver "Cue Cards" to designated players at specified times and places during the Exercise, including contingency messages as required to keep the Exercise moving according to the scenario. Controllers will also observe the participants at their assigned locations, and prepare an evaluation. Controllers will submit written evaluations to the Lead Facility Controllers, who will summarize all comments for submittal to the Lead Exercise Controller. Controllers are provided with instructions in Section 4.0 of this manual.

3. All Controllers will act as Evaluators, as described below, and will be identified as Controllers by wearing red arm bands.

2.2.4 Evaluators are personnel who are assigned to judge the effectiveness of participating organizations, personnel, and activities. Evaluators will record their observations using the evaluation forms provided and make recommendations to the Lead Facility Controller. They will evaluate performance on the basis of standards or requirements contained in the Emergency Plan, Implementing Procedures, Exercise messages, and appropriate evaluation criteria. Evaluators will be identified by wearing red arm bands.

2.2.5 Players include all personnel assigned to perform emergency functions as described in the Emergency Plan and procedures. Players will be identified by wearing blue arm bands only in those areas where there may be confusion between participants and non-participants.

2.2.6 Observers may be authorized, on a limited basis, to participate in the Exercise for the purpose of observing Exercise activity for personal education. Utility Observers will report initially to the DBNPS Supervisor - Emergency Preparedness for credential review and authorized admittance. They will be provided with orientation information and appropriate Exercise publications. Non-utility Observers will report to the Lead Facility Controller for the respective facility. All Observers will be identified by wearing green arm bands.

Requests to participate as an Observer should be made in writing and contain the Observer's full name, home address and phone number, and organizational affiliation. Requests to participate as an Observer must be submitted to the appropriate individuals no later than one week before the Exercise. (Refer to Section 5.2, Travel Information, for names and phone numbers of these individuals.

2.3 EMERGENCY RESPONSE FACILITIES

During the Exercise, the following facilities will be activated to manage, assess, and support emergency response activities.

2.3.1 Onsite Facilities

The Davis-Besse Emergency Response Facilities include:

1. Control Room (CTRM)

The DBNPS Control Room, located on the 623' elevation of the Auxiliary Building, is the facility from which the routine operation of the plant is conducted. During abnormal or emergency conditions, when the Emergency Plan is implemented, the Shift Supervisor is given additional responsibilities as the Emergency Director. In this capacity, he is responsible for the coordination of the DBNPS response to the emergency until relieved. The initial response to this scenario, and any emergency condition, is managed by the Operating Shift Crew in the Control Room. Once the Shift Supervisor is relieved of the responsibilities of Emergency Director, the Operating Shift Crew retains responsibility for operation of plant systems and equipment.

NOTE: For this Exercise the Davis-Besse Control Room Simulator located in the Training Center will be used. (See Section 4.3)

2. Technical Support Center (TSC)

When emergency conditions escalate to an Alert status or higher, coordination of the operations aspects of the emergency response will shift from the Control Room to the TSC, located in the Davis-Besse Administration Building. The primary function of the TSC is to support an organization that provides technical assistance to Station personnel during emergency conditions. The TSC also contains the DADS (Data Acquisition and Display System) and the SPDS (Safety Parameter Display System) to enable the TSC staff to acquire plant data in support of technical evaluations needed to mitigate emergency conditions and recovery operations.

The TSC contains work space for up to 25 people.

The Shift Supervisor's office, which is immediately adjacent to the Control Room, provides work space for the Emergency Assistant Plant Manager and a communicator. This location allows better management coordination of the emergency response functions by being closer to problems needing attention.

NOTE: Personnel who would normally report to the Shift Supervisor's office will be in the vicinity of the Control Room Simulator for this Exercise.

3. Operations Support Center (OSC)

The OSC, located in the second floor lunchroom of the Personnel Shop Facility (PSF), provides a location for assembly and coordination of Emergency Response Teams. The OSC is activated at Alert or higher emergency conditions, and may be activated for an Unusual Event at the discretion of the Shift Supervisor/Emergency Director.

The purpose of the Operations Support Center is to provide a pool of skilled manpower from which Emergency Response Teams are assembled (e.g. First Aid, Operations, Fire Brigade, Emergency Maintenance and Reentry teams).

4. Emergency Control Center (ECC)

The ECC, located in the Davis-Besse Administration Building, is activated at Alert or higher emergency conditions. The ECC's primary function is to provide a centralized location for management of protective action planning, and continuous coordination and control of onsite and offsite emergency activities.

The ECC staff evaluates the impact of actual or potential radioactive releases, and provides management assistance in the decision-making process to protect the public health and safety. Recommendations to State and County authorities are based on Station conditions as well as radiological and meteorological data. The ECC contains advanced systems to establish and maintain communications with state, federal, and local officials, and to enable coordination and control of Radiation Monitoring Teams (RMTs).

The ECC provides space for occupancy of at least 16 people.

5. Dose Assessment Center (DAC)

A section of the ECC that controls the operation of the Field Radiation Monitoring Teams to gather radiation data for evaluation of the impact of actual or potential radioactive releases. Provides technical assistance in the decision to protect the public health and safety. The Dose Assessment Center contains communication and computer equipment to contact RMT's and project radiation doses offsite.

6. Radiological Testing Laboratory (RTL)

The RTL's primary function is to provide a location near the ECC and TSC for radiological analysis of low level environmental samples. The RTL contains work areas for 4 people and additional space allotted for temporary occupancy by field personnel. Major equipment components in the RTL are designed to be removable for potential use in the field.

7. Radiation Monitoring Team (RMTs)

Radiation Monitoring Teams are emergency responders trained to monitor radiological conditions outside the Protected Area, and report these conditions to the Dose Assessment Center for evaluation.

8. Joint Public Information Center (JPIC)

The JPIC is the emergency facility for coordinating news releases and providing joint briefings to the media during an event at Davis-Besse. An onsite and an offsite location are available to support this function. The company, state, local and federal agencies represented at the JPIC jointly prepare news information for release to the public via the news media. Equipment and work spaces for Public

Information Officers and their staffs are provided to support timely communications on plant status and emergency response actions. JPIC facilities include news briefing areas for approximately 200 electronic and print media representatives. Facility operations and administrative support are coordinated by the Company. JPIC support is available for any plant emergency. However, facility activation is mandatory at (and above) the Alert emergency classification level.

NOTE: For this Exercise, the onsite JPIC will not be activated.

a. Onsite JPIC

The onsite JPIC is located in the Energy Education Center (EEC) at the Davis-Besse Administration Building.

b. Offsite JPIC

The offsite JPIC is located in the Edison Club - Auditorium, 1036 River Road, Maumee, Ohio.

2.4 EXERCISE CONDUCT

2.4.1 Overview

The Exercise will simulate an abnormal incident at Davis-Besse which will escalate over a period of several hours. The simulated emergency will then terminate and the Recovery Phase will be initiated.

The conduct of the Exercise will demonstrate the effectiveness of participating organizations, personnel, and activities in support of the Emergency Plan and associated procedures.

Unlike other drills or practice sessions, Controllers are not permitted to "coach" or otherwise assist Players in responding to the simulated conditions. The Controllers can, however, provide clarification as necessary for Players to understand the intent of or the message given on a cue card.

2.4.2 Actions

Emergency response actions during the simulated emergency will include: recognition and classification of emergency conditions; assessment of onsite/offsite radiological consequences; alert/notification and mobilization of the Emergency Response Organization; implementation of in-plant corrective actions; activation/operation of emergency response facilities and equipment; preparation of reports, messages, and recordkeeping.

2.4.3 Communications

The Exercise will test communications equipment operability and the ability of participants to demonstrate the effective use of these systems.

2.4.4 Players

The success of the Exercise is largely dependent upon Player reaction, knowledge of the Emergency Plan and objectives of the Exercise. Initial conditions which will affect Player actions will be provided to the Players at the time the Exercise begins. Most elements of the Exercise will be introduced through the use of "Cue Cards". Players are responsible for initiating actions in accordance with Exercise instructions, their assigned responsibilities, and the procedures for their particular duties. With the exception of those actions that will become intuitively obvious, each Player will advise his/her Controller prior to performing emergency response actions in order to ensure that credit is given for those actions.

1. The Control Room Simulator will be the central point for distribution of the majority of cue cards/data sheets, and is the key to ensuring that the Exercise is on schedule. Plant parameters will be provided to the Control Room operators using the simulator displays. The Control Room Operators are responsible for relaying pertinent plant drill data to other emergency facilities. The Data Acquisition and Display System (DADS) including the Safety Parameter Display System (SPDS) and the TSC Plant Status display will exhibit specific parameters. DADS and SPDS trends will display gradual trend changes in plant parameters. The TSC will have point value and group displays available to monitor the current plant status. A redundant SPDS system will continue to provide actual SPDS parameters and alarms to the actual Control Room.

   In the event of an actual emergency resulting in the termination of the Exercise, real-time SPDS will be restored to the TSC within minutes.

2. In order to develop an accident sequence that challenges the entire Emergency Response Organization, it is necessary to suppose incredible situations. The Players must accept the Exercise messages as written. Time shall not be spent discussing why a situation could not occur. Players shall react as though it did. If corrective actions are proposed that would terminate the emergency, they should be identified to the Lead Facility Controller, so that he can acknowledge the corrective actions, but continue the scenario progress as designed. Players are expected to "free play" the

scenario to the extent practical. Notifications of, and contact with supervisors, plant management, and offsite agencies will be made in accordance with plant procedures and any guidelines established at the start of the Exercise.

Players are reminded not to be excessively concerned with the mechanics or cause of the simulated malfunctions. This Exercise is designed to evaluate the Emergency Plan, Implementing Procedures, and Emergency Preparedness Training Program; not the probability, feasibility, or detailed mechanics of the simulated accident. Players should note any needed improvements to Emergency Response Facilities and equipment, Emergency Procedures, or Emergency Preparedness Training that come to their attention during the Exercise. Players shall submit recommendations to the appropriate Controller at the conclusion of the Exercise.

2.4.5 Simulation List

As previously noted, Players will be permitted as much "free play" as is possible pursuant to the continued safe operation of the plant. Those actions which do not have a direct bearing on actual plant operation should be performed. In light of this and in accordance with this year's extent of play, Controllers and Players shall ensure that the following plant actions are simulated:

1. Offsite evacuation of site personnel;

2. Offsite assembly of plant personnel;

3. Actual issuance or ingestion of potassium iodide (KI);

4. Personnel and/or area decontamination;

5. Collection and analysis of TLDs;

6. Reactor Containment Building entry;

7. Taking an actual reactor coolant sample using the Post Accident Sampling System;

8. Operating or changing the alignment of actual plant equipment or systems;

9. Hanging Exercise-related tags on actual plant equipment (applicable tags should be hung at the Simulator);

10. Pressurization of fire hoses (hoses should be deployed, if required by drill conditions but not pressurized);

11. Actual siren operation or release of emergency information messages over the public alert and notification system; and

12. Cancellation of tours and training classes during site access control measures.

2.5 PRECAUTIONS AND LIMITATIONS

This section provides guidance on the conduct of this Exercise. Prior to initiation, a briefing will be held to review the Exercise process with all Controllers and Evaluators.

2.5.1 Should an actual emergency situation arise at any time during the conduct of this Exercise, all activities related to the Exercise may be suspended by the Lead Exercise Controller. It is the responsibility of any Controller who becomes aware of an actual emergency to suspend Exercise activities in his/ her immediate area and to inform the Lead Exercise Controller of the situation. Upon notification of an actual emergency, the Lead Exercise Controller shall notify all Lead Facility Controllers. The Lead Exercise Controller shall make a determination at that point whether to continue, place a temporary hold on, or terminate the Exercise.

2.5.2 Should, at any time during the conduct of this Exercise, a Controller witness any participant undertaking an action which would, in the opinion of the Controller, place either an individual or a component in an unsafe condition, the Controller is responsible for intervening and terminating the unsafe activity immediately. Upon termination of the activity, the Controller is responsible for contacting the Lead Exercise Controller and informing him of the situation. The Lead Exercise Controller shall make a determination at that point whether to continue, place a temporary hold on, or terminate the Exercise.

2.5.3 Manipulation of any plant operating systems, valves, breakers, or controls in response to this Exercise is to be properly controlled by existing procedures and qualified personnel. There shall be no alteration of any plant operating equipment, systems, or circuits during the response to this Exercise without operators permission. Any equipment manipulation/work will be in accordance with proper Station procedures and carried out by qualified personnel with operating crew authority and permission.

2.5.4 All telephone communications, radio transmissions, and public address announcements related to the Exercise shall begin and end with the statement, "This is a drill".

Controllers are reminded not to "coach" Players, but shall ensure that Exercise communications are clearly identified as such, in order to avoid confusion with other activities. Repeated failure to identify that communications are part of an Exercise shall require intervention by a Controller.

2.5.5 Care shall be taken to prevent any non-participating individuals who may observe Exercise activities from believing that an actual emergency exists. Any Controller who is aware of an individual or group of individuals in the immediate vicinity who may have become alarmed or confused about the situation, should approach that individual or group and explain the nature of the Exercise and its intent.

2.5.6 Any motor vehicle response to this Exercise, whether it be ambulance, fire fighting equipment, police/security vehicles or field monitoring teams, shall observe all normal motor vehicle operating laws including posted speed limits, stop lights/signs, one way streets, etc.

2.5.7 Should any onsite security actions be required in response to this Exercise, participants are to cooperate as directed by the Security Force. Security representatives are to be prudent and tolerant in their actions.

2.5.8 While Exercise participants are to inject as much realism into the event as possible, the safety of the plant and personnel shall not be jeopardized.

2.6 EVALUATION AND CRITIQUE

The Exercise will be evaluated by individuals who have expertise in the activity in their assigned location. These Evaluators and Controllers will evaluate Exercise performance on the basis of requirements contained in the Emergency Plan Implementing Procedures, and "Cue Cards". Evaluators and Controllers shall prepare evaluation forms and provide recommendations to the Lead Exercise Controller.

After the Exercise is completed, the Lead Exercise Controller shall conduct a post-Exercise critique. Deficiencies in the Emergency Plan, Implementing Procedures, the Emergency Preparedness Training Program, facilities, equipment, and/or other areas shall be identified through the critique process. The deficiencies shall be documented by the Lead Exercise Controller and corrected by the individuals who have responsibility in the area of the identified deficiency.

The schedule for the critiques is included in Section 5.0.

2.7 SCENARIO DEVELOPMENT COMMITTEE

Skip Cope, Chairman	Emergency Preparedness
Paul Timmerman, Co-Chairman	Emergency Preparedness
Steve Laeng	Simulator Staff (SRO)
Gene Hillebrecht	Simulator Staff (SRO)
Dennis Gordon	Emergency Preparedness
Greg Hayes	Nuclear Engineering
Ron Walbom	Nuclear Engineering
Rob Borland	Nuclear Engineering
Mike White	Emergency Preparedness
John Sankovich	Chemistry
Paul Roelant	Electrical Maintenance
Mike Parker	Mechanical Maintenance
Steve Henry	Planning
Fred Conn	Plant Operations
John Reddington	Plant Operations
Robin Zipfel	Radiation Protection
Bruce Zibung	Radiation Protection
Brian Young	Operations Training
Gary Wylie	Operations Training

2.8 NON-UTILITY FIELD ACTIVITIES/FACILITIES

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN STATE OF OHIO OBJECTIVES

State of Ohio EOC
2855 W. Dublin/Granville Road
Columbus, OH 43235-2206
(614) 889-7173
Contact: Mr. Larry Grove

Field Monitoring Teams
Fremont Airport
(1 mile south of Fremont on Rt. 53)
(614) 688-3364
Contact: Mr. Bob Pomeroy

Field Sample Screening Point
Communications Van
Ottawa County
Bethel Church Grounds at the
corner or Route 590 and Elmore
Eastern Road)
(614) 799-3639
Contact: Mr. Joe Bennett

2.8 NON-UTILITY FIELD ACTIVITIES/FACILITIES

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN OTTAWA COUNTY OBJECTIVES

Bataan Elementary School
525 W. 6th Street
Port Clinton, Ohio 43452
419/734-2815
Buck Linkous, Principal

Benton-Carroll-Salem Schools
Bus Garage
N. Benton Street
Oak Harbor, Ohio 43449
419/898-6214
Bob Sondergeld, Trans. Supv.

Fremont Memorial Hospital
715 South Taft Street
Fremont, Ohio 43420
419/332-7321
Al Gorman, Administrator

Harris-Elmore Fire & EMS Departments
321 Rice Street
Elmore, Ohio 43416
419/862-3332
Jerry Haar, Fire Chief
Bill Sorg, EMS Chief

Oak Harbor High School
11661 W. State Rte. 163
Oak Harbor, Ohio 43449
419/898-6216
Richard Thorbahn, Principal

Ottawa County Highway Garage
8247 W. State Route 163
Oak Harbor, Ohio 43449
419/898-6463
Jim Young, Superintendent

Portage Fire District
242 W. Water Street
Oak Harbor, Ohio 43449
419/898-6074
Tom Almendinger, Chief

Benton-Carroll-Salem Schools
Board of Education
11685 W. State Route 163
Oak Harbor, Ohio 43449
419/898-6210
Terry Clark, Superintendent

Carroll Township Fire & EMS Departments
11080 W. Toussaint East Road
Oak Harbor, Ohio 43449
419/898-9621
Lowell Johannsen, Fire Chief
Ed Dewitz, EMS Chief

Genoa Bus Garage
303 W. 4th Street
Genoa, Ohio 43430
419/855-8471
Dave Hitchen, Transportation Supervisor

National Weather Service
Federal Facilities Office Building
Cleveland Hopkins International Airport
Cleveland, Ohio
216/265-2370 or 2372
Bill Comeaux, MIC

Offsite Joint Public Information Center
Edison Club
1036 River Road
Maumee, Ohio

Ottawa County Sheriff's Office
315 Madison Street
Port Clinton, Ohio 43452
419/734-4404
Craig Emahiser, Sheriff

Port Clinton Fire & EMS Departments
Adams & Second Streets
Port Clinton, Ohio 43452
419/734-3430
John Drummer, Fire Chief
Don Mortus, EMS Chief

2.8 NON-UTILITY FIELD ACTIVITIES/FACILITIES

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN OTTAWA COUNTY OBJECTIVES

Port Clinton Police Department
Adams & Second Streets
Port Clinton, Ohio 43452
419/734-3121
Walt Bahnsen, Chief

Sandusky High School
2130 Hayes Avenue
Sandusky, Ohio 44870
419/621-2744
Eugene Kidwell, Principal

Vanguard Vocational School
1306 Cedar Street
Fremont, Ohio 43420
419/332-2626
William Burson, Director

MidCounty EMS
222 Washington
Oak Harbor, Ohio 43449
419/898-9366
Contact: Chad Magrum, Chief

Riverview Nursing Home
8180 W. State Route 163
Oak Harbor, Ohio 43449
419/898-2851
John Moore, Administrator

True-Lay Stadium
West Fremont Road
Port Clinton, Ohio 43452
419/734-2334
Carey Clum, Athletic Director

WSPD
125 South Superior Street
Toledo, Ohio
419/244-8321
Bill Rossini, Chairman
NW Ohio Operational Area EBS

2.8 NON-UTILITY FIELD ACTIVITIES/FACILITIES

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN LUCAS COUNTY OBJECTIVES

Lucas Co. EOC
1622 Spielbusch
Toledo, Ohio 43624
419/259-4300
Contact: Mr. William Halsey
Director

EBS Broadcast Station
Radio Station WSPD
125 South Superior Street
Toledo, Ohio
419/244-8321
Contact: Bill Rosini

Lucas County Sheriff
1622 Spielbusch Avenue
Toledo, Ohio
419/691-5787
Contact: James Telb, Sheriff

St. Charles Hospital
2600 Navarre Avenue
Oregon, Ohio 43616
419/698-7312
Contact: Linda Curran

Oregon Police Dept.
5330 Seaman Street
Oregon, Ohio 43616
419/698-7062
Contact: Chief Mark Venia

Oregon Fire/EMS Dept.
Station #1, Seaman & Wynn
Oregon, Ohio 43616
419/698-7020
Contact: Ray Walendzak
Chief

Jerusalem Twp. Fire/EMS
1598 S. Cousino Rd.
Curtice, Oh 43412
419/836-7302
Contact: Frank Dobroski
Chief

Oregon Bus Garage
5721 Seaman Road
Oregon, Ohio 43616
419/693-0996
Contact: Ms. Vicki Laurell
Transportation Director

Jerusalem Township Trustees
11470 Rachel Road
Curtice, Ohio 43412
419/836-8921
Contact: Clara Herr

Fassett Middle School
3025 Starr Avenue
Oregon, Ohio 43616
(419) 698-6008
Contact: Dean Ensey, Principal

Eisenhower Middle School
331 North Curtice Road
Oregon, Ohio 43616
(419) 836-8498
Contact: Art Prince, Principal

2.8 NON-UTILITY FIELD ACTIVITIES/FACILITIES

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN ERIE COUNTY OBJECTIVES

Erie County EOC
Erie County Services Center
2900 Columbus Avenue
Perkins Township
Erie County, Ohio
Bill Walker, EMA Director
(419) 626-7617

Care Center
Perkins High School
3714 Campbell St.
Perkins Township
Erie County, Ohio
George Scheckelhoff, Principal
(419) 625-1252

Reception Center
Sandusky High School
2103 Hayes Avenue
Sandusky, Ohio
Contact: Eugene Kidwell, Principal
(419) 621-2746, Ext. 352

LOCATIONS OF FIELD ACTIVITIES IDENTIFIED IN SANDUSKY COUNTY OBJECTIVES

Fremont Memorial Hospital
715 S. Taft St.
Fremont, Ohio
Ann Hansen
Director of Emergency Services
(419) 334-6641

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, Unit 1, Technical Specifications
3.1.6 DBNPS Piping and Instrumentation Drawings
3.1.7 DBNPS Updated Safety Analysis Report
3.1.8 DBNPS Offsite Dose Calculation Manual
3.1.9 Corporate Emergency Response (CER) Plan
3.1.10 Public Information Emergency Response Procedure
3.1.11 Ohio Plan for Response to Radiation Emergencies at Licensed Nuclear Facilities
3.1.12 Ottawa County Plan for Response to Radiation Emergencies at Licensed Nuclear Facilities
3.1.13 Lucas County Radiological Emergency Response Plan
3.1.14 Erie County Radiological Emergency Response Procedures Document
3.1.15 Sandusky County Radiological Emergency Response Procedures Document
3.1.16 NUREG 0654/FEMA REP-1
3.1.17 FEMA REP 14
3.1.18 FEMA REP 15
3.1.19 FEMA Guidelines, MS-1

3.2 ABBREVIATIONS

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	Demineralize Water System
EAL	Emergency Action Level
ECC	Emergency Control Center
EDG	Emergency Diesel Generator
EEC	Energy Education Center
EFPD	Effective Full Power Days
EMA	Emergency Management Agency
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
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
IF	Instructor Facility (at CRS)
IN	Inch
INST	Instrument
JPIC	Joint Public Information Center
KI	Potassium Iodide
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
PR	Public Relations
PSF	Personnel Shop Facility
PSIA	Pounds Per Square Inch Absolute
PSIG	Pounds Per Square Inch Gauge
PT	Periodic Test
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 (Element)
RLF	Relief Valve
RM	Radiation Monitor
RMT	Radiation Monitoring Team
RP	Radiation Protection
RTL	Radiological Testing Laboratory
Rx	Reactor
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
Tc	Reactor Coolant System Cold Leg Temperature
TC	Thermocouple
TDG	Total Dissolved Gases
Th	Reactor Coolant System Hot Leg Temperature
TPCW	Turbine Plant Cooling Water
TRBL	Trouble
TSC	Technical Support Center
VOM	Volt Ohm Meter
WGDT	Waste Gas Decay 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 that 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 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.

3.3.3 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.

3.3.4 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.

3.3.5 CONTROLLER: A member of the Exercise 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 and evaluating the actions of the players.

3.3.6 CORRECTIVE ACTIONS: Those emergency measures taken to improve or terminate an emergency situation.

3.3.7 DECONTAMINATION: The process by which the body or an object is relieved of radioactive substances (contamination).

3.3.8 DOSE ASSESSMENT: The process of estimating the amount of radiation a person will potentially receive as a result of exposure to a radiological release.

3.3.9 DRILL: A supervised event aimed at evaluating, developing, and maintaining skills in a particular operation.

3.3.10 EMERGENCY ACTION LEVELS (EALs) - Radiological dose rates; specific contamination levels or airborne, waterborne, or surface-deposited concentrations of radioactive materials; or specific plant conditions that may be used as thresholds for initiating specific emergency measures.

3.3.11 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 for communications and external organizations, and is fully activated for emergencies classified as an Alert or higher.

3.3.12 EMERGENCY OPERATIONS CENTER (EOC): An emergency response facility from which government officials exercise direction and control. The EOCs are located as follows:

Ottawa County:	Ottawa County EMA 315 Madison Avenue Port Clinton, Ohio 43452
Lucas County:	Lucas County EMA 2144 Monroe Street Toledo, Ohio 43624
State of Ohio:	Emergency Operations Center/ Joint Dispatch Facility 2855 W. Dublin-Granville Road Worthington, Ohio
State of Michigan:	Emergency Management Division Suite 300 3005 Washington Square Lansing, Michigan 48913

3.3.13 EMERGENCY PLANNING ZONES (EPZs): The land areas encompassed within approximately 10 and 50 mile radii of the DBNPS, in which protective actions may be necessary to protect the public in the event of a nuclear plant accident. The 10 mile zone is referred to as the Plume Exposure EPZ; the 50 mile zone is termed the Ingestion Exposure EPZ (IPZ).

3.3.14 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.

3.3.15 EVALUATOR: A member of the Exercise 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.

3.3.16 EXCLUSION AREA: The area surrounding the DBNPS in which the Company has the authority to determine all activities including exclusion or removal of persons and property from the area during accident conditions.

3.3.17 EXERCISE: An event which tests the overall functions and capabilities of organizations involved in responding to an emergency situation. An exercise will usually simulate an emergency that results in offsite radiological releases which require response by offsite authorities.

3.3.18 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.

3.3.19 INGESTION PATHWAY: The exposure mode for which the zone of concern encompasses an area of approximately 50 mile radius around DBNPS. The principle exposure in this area would be from ingestion of contaminated water or foods; such as milk or fresh vegetables. The period of potential exposure could range in length from hours to months.

3.3.20 JOINT PUBLIC INFORMATION CENTER (JPIC): An emergency response facility for coordinating news releases and providing joint briefings to the media during an event at Davis-Besse. The JPIC is staffed by Company, local, State, NRC and FEMA officials. The JPIC provides a forum and point of contact for a coordinated release of news and information to the news media, general public, Company employees and the special interest groups.

3.3.21 OBSERVER: Any individual who is authorized to observe the Exercise, but is not authorized to interact with the players.

3.3.22 OFFSITE: All land and water areas outside the Owner-Controlled Area fence surrounding the DBNPS.

3.3.23 ONSITE: All land and water areas within the Owner-Controlled Area surrounding the DBNPS.

3.3.24 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.

3.3.25 OWNER-CONTROLLED AREA: The area around the DBNPS that is owned and to which the access is controlled by the Company.

3.3.26 PARTICIPANT: An individual who has some part in the Exercise, whether as an Evaluator, Controller, Player or Observer.

3.3.27 PLAYERS: All individuals who are assigned to perform functions of the Emergency Response Organization, as described in the appropriate Emergency Plan and Emergency Plan Implementing Procedures.

3.3.28 PLUME EXPOSURE PATHWAY: The exposure mode for which the zone of concern encompasses an area of approximately a 10 mile radius around DBNPS. The principle exposure sources in this area are: 1) whole body external exposure to gamma radiation from the plume and deposited material, and 2) inhalation exposure from the passing radioactive plume. The period of potential exposure could range from hours to days.

3.3.29 POPULATION AT RISK: Those persons for whom protective actions would be taken.

3.3.30 PROTECTED AREA: The area within the Site Boundary encompassed by physical barriers and to which access is controlled for security purposes.

3.3.31 PROTECTIVE ACTION: Those emergency measures taken after an accident or an uncontrolled release of radioactive materials has occurred, for the purpose of preventing or minimizing radiological exposures to personnel that would otherwise occur.

3.3.32 PROTECTIVE ACTION GUIDES (PAGs): Projected radiological doses to individuals in the general population which warrant protective action following a release of radioactive material.

3.3.33 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.

3.3.34 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.

3.3.35 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 Protection Action Guide (PAG) exposure levels, except near the Site Boundary.

3.3.36 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.

3.3.37 UNUSUAL EVENT: The lowest level of emergency classification, which indicates that events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant.

4.0 CONTROLLER AND EVALUATOR INSTRUCTIONS

Each Controller and Evaluator should be familiar with the following:

1. The objectives of the Exercise.

2. The assumptions and precautions being taken.

3. The scenario, including the initiating events and the expected course of action to be taken.

4. The various locations that will be involved and the specific items to be observed at those locations.

5. The evaluation checklists provided herein.

4.1 CONTROLLER INSTRUCTIONS

4.1.1 Controllers shall position themselves at their assigned locations a minimum of 30 minutes prior to the activation of the facility for which they have responsibility. (See Table 4.2-1 for Utility Controllers and Table 4.2-2 for State and County Controllers).

4.1.2 Controller communications shall be tested prior to Exercise commencement. All watches and clocks shall be synchronized with the Lead Controller's as part of the communications testing.

4.1.3 All Controllers shall comply with instructions from the Lead Exercise Controller.

4.1.4 No cue cards (i.e., messages) shall be delivered out of sequence or other than as written unless specifically authorized by the Lead Exercise Controller.

4.1.5 Cue cards controlling the progress of the scenario are noted with a number. Contingency cue cards are noted with a number followed by the letter "X" (e.g., 10X). Contingency cue cards are only delivered if certain conditions indicated on the card are met.

4.1.6 Data sheets shall be distributed only in the Control Room, unless otherwise directed by the Lead Exercise Controller.

4.1.7 Controllers will <u>not</u> provide information to the Players regarding scenario progression or resolution of problems encountered in the course of the simulated emergency. Participants are expected to obtain information through their own organizations and exercise their own judgement in determining response actions and resolving problems.

4.1.8 Some Players may insist that parts of the scenario are unrealistic. The Lead Facility Controllers have the sole authority to clarify any questions regarding scenario content.

4.2 EVALUATOR INSTRUCTIONS

Each Evaluator shall take detailed notes regarding the progress of the Exercise and the response of the Exercise participants at their assigned locations. Each Evaluator should carefully note the arrival and departure times of participants, the times when major activities or milestones occur, and problem areas encountered.

The standards below should be used by the Controller/Evaluator to evaluate assigned areas pertaining to the emergency response. A dual purpose will be served by this rating system. First, the capability of each facility or response area will be evaluated, and second, the system will provide a vehicle for directing improvement. The rating scale is as follows:

Satisfactory - Personnel and equipment generally performed as expected. Any errors noted were not severe and could be corrected without undue labor or expense.

Unsatisfactory - Personnel and equipment generally performed below expectations, and there were several significant deficiencies noted. The area's ability to carry out its functions was diminished.

N/A - Not Applicable to the situation.

N/O - Not Observed.

As appropriate, evaluator comments should consider the demonstration of the following facility and team evaluation elements:

4.2.1 Facility

1. Accurate and timely determination of emergency action levels.

2. Timely activation and staffing for each emergency action level.

3. Familiarity of personnel with appropriate emergency procedures, duties and responsibilities.

4. Timely notification of company, local, state and federal personnel/agencies (information updates performed).

5. Adequacy of internal information systems (e.g., message handling, displays, status boards and maps).

6. Properly controlled documentation and accurate, timely record keeping.

7. Use of correct communications procedures and techniques.

8. Capability of facility managers to interface with personnel and coordinate facility activities.

9. Consideration for personnel safety (e.g., exposure control).

10. Adequacy of interface between emergency response facilities.

11. Adequacy of equipment and supplies.

12. Timely initiation of onsite protective/corrective actions.

13. Development of offsite protective action recommendations.

14. Radiological surveys and assessment of plant damage and hazardous conditions performed.

15. Timely requests for emergency support services.

16. Coordinated, accurate and timely dissemination of information to the news media.

4.2.2 Emergency Teams

1. Timely notification and activation.

2. Adequacy of staffing.

3. Familiarity with appropriate emergency procedures, duties and responsibilities.

4. Availability and utilization of proper equipment.

5. Performance of contamination control/decontamination.

6. Proper interface with emergency support personnel.

7. Use of correct communications instructions and techniques.

8. Adequacy of briefing sessions per the dispatch.

9. Direction and control by team leaders.

10. Timely requests for additional assistance.

11. Coordination and interface between emergency response team members.

12. Proper interface with plant supervisory personnel.

13. Availability of reference documents.

14. Utilization of proper radiological control practices (e.g., access control, protective clothing, shielding, stay time).

15. Assessment of radiological conditions.

16. Timely and proper damage assessment.

17. Properly maintained records.

Evaluators will record their comments and prepare a written evaluation of the Exercise. Evaluation forms will be provided to each evaluator with more specific evaluation criteria.

4.2.3 Personnel Assignments

Table 4.2-1 lists the personnel assignments for the controller organization.

4.2.4 Evaluation Packages

As required, the following evaluation packages will be provided to the appropriate Controllers/Evaluators at the pre-Exercise briefing:

Control Room

Operations Support Center

Repair Teams

Fire Brigade

First Aid Team

Technical Support Center

Emergency Control Center

Dose Assessment Center

Radiation Monitoring Teams

Radiological Testing Laboratory

Security

Joint Public Information Center

4.2.5 Evaluation Process

All Evaluators shall maintain an Exercise chronology. This chronology shall be of sufficient detail to enable subsequent completion of the appropriate evaluation form. It should contain a synopsis of significant events, actions taken (or not taken) by players, questions noted, and positive as well as negative assessments made by the evaluator. This chronological record may be used to corroborate critique items that are questioned by participants.

Each Evaluator shall also complete an evaluation form for the facility or function to which they are assigned.

Each Lead Facility Controller shall de-brief the evaluators in their facility and compile an Exercise Evaluation Report Sheet for that facility. This report sheet shall reflect an overall assessment of the performance of that facility, and of the five (5) specific categories. Significant weaknesses or deficiencies shall be itemized to ensure adequate follow-up attention is devoted to resolution of the problem. Significant positive items shall be included here as well.

The formal post-Exercise critique shall be conducted by the Lead Exercise Controller, with each Lead Facility Controller providing an evaluation of their facility.

4.3 USE OF SIMULATOR

The Davis-Besse Nuclear Power Station Exercise will utilize the Plant Simulator to drive the scenario sequence of events. A full shift crew will be located at the Simulator and can respond to the conditions presented in the scenario as they would from the actual Control Room. The data displays in the Technical Support Center and Emergency Control Center will be driven with Simulator parameters allowing emergency classifications and engineering assessments to be performed in "real time" with changes taking place as the operators manipulate the Simulator controls.

The Simulator was used to confirm the viability of the initial scenario sequence of events and to identify changes, such as additional "traps" or equipment failures, necessary to propagate the plant conditions to the Emergency Action Levels desired. It was also used to provide baseline data printouts for generating the plant data sheets and area radiation maps used in the Exercise Manuals. During the Exercise, it will be unnecessary for Controllers to issue the plant data sheets (i.e., primary and secondary plant parameters such

as pressures, temperatures, levels and flow rates, etc., and meteorological parameters such as wind speed, direction and stability class) since the Simulator information (through an intermediate computer system) will drive the Technical Support Center and Emergency Control Center data displays - both the Safety Parameter Display System (SPDS) and the Data Acquisition and Display System (DADS) terminals.

The simulator will be heavily relied upon to conduct this Exercise; however, should it malfunction or go offline (e.g., a loss of power to the Training Center) during conduct of the Exercise, the Lead Exercise Controller has several options to choose from. They include:

- Stopping the Exercise and conducting it the following day (provided repairs can be performed).
- Continuing the Exercise using stored data (generated during prior Simulator practice runs).
- Continuing the Exercise using the data sheets in the Exercise Manual.
- Ending the Exercise if most of the objectives have been demonstrated.

4.4 USE OF CONTROL CELL

In every drill or Exercise situation, there will be non-participating individuals, organizations and agencies. These entities, for an actual emergency, have agreed to provide support to the primary Emergency Response Organizations of the Utility, State and local governments; however, due to the time and costs involved, they can not always support a drill or Exercise. In order to address this situation, a "Control Cell" is used to represent non-participants.

The primary Control Cell will be located in the Davis-Besse Administration Building down the hall from the Emergency Control Center. It will consist of a bank of telephones, a fax machine, several reference manuals, and a group of three to five individuals. The Control Cell will primarily be used to receive calls generated by the exercise participants, but it will also initiate calls (e.g., to demonstrate rumor control capabilities or to represent concerned citizens and the news media, etc.) and to send/receive material via fax (e.g., engineering drawings/data or administrative information, etc.).

Additional individuals located offsite may serve a Control Cell function for the State and local agencies and/or the Corporate Organization.

Control Cell guidelines for this Exercise are as follows:

- The Control Cell should not take calls for:

  - Any D-B Emergency Facility (e.g., TSC, ECC, etc.)
  - D-B Security or Facility Services

- The Control Cell can take calls for:

  - Federal agencies (e.g., NRC, DOE, Congressional Offices, etc.)
  - Centerior Corporate Response
  - Local entities other than those listed above (e.g., congregate care centers, fire departments, EMS, hospitals, police departments, host facilities, etc.)
  - Other utilities/plants (e.g., Detroit Edison/Fermi, Perry, Beaver Valley, etc.)
  - Vendors (e.g., B&W, Bechtel Engineering, Radiation Management Consultants (RMS), Copes-Vulcan, Ingersoll-Rand, etc.)
  - Institute of Nuclear Power Operations (INPO)
  - Colleges/Universities (e.g., Ohio State, University of Toledo, etc.)
  - News agencies
  - National Weather Service (at Toledo Express Airport, see Section 9.1)
  - State of Michigan

Emergency Preparedness
1995 Dry Run & Exercise Controllers

		Ext.	M.S.
CONTROL ROOM SIMULATOR			
* Paul Timmerman	Lead Drill Controller	7510	3060
Brian Young	Control Room Operator	8497	5178
Gary Wylie	Control Room Operator	8503	5178
Steve Laeng	Simulator I.F. Operator	7630	5178
Gene Hillebrecht	Simulator I.F. Operator	7705	5178
Greg Hayes	Computer	7583	5110
Ron Walbom	Computer	7788	5110
Andy Antrassian	Control Room Liaison	7908	3065
OSC			
* Bill Mugge	OSC Management	7951	1036
Robin Zipfel	OSC RP Management	7382	1028
Dennis Gordon	OSC Management	8361	3060
Paul Roelant	OSC Response Team	8103	1056
Les Bowyer	OSC Response Team	7229	1029
Dennis Snyder	OSC Response Team	7389	1046
1 Mike Parker	OSC Response Team	7253	1002
Steve Henry	OSC Response Team	7681	3160
Chuck Alm	OSC Response Team	7462	3105
Greg Van Wey	OSC Response Team	7727	5177
Steve Chimo	OSC Response Team	7149	3065
Gary Stone	OSC Response Team	7746	5177
	OSC Response Team		
	OSC Response Team		
TSC			
* Larry Bonker	Emergency RP Manager	7310	1029
Theo Swim	TSC Management	2365	3210
Robb Borland	TSC Engineers	8187	3105
Lillie Winckowski	TSC Computers	8584	3105
ECC			
* Kevin Browning	ECC Lead	8202	3387
Ted Myers	Emergency Director	2306	3387
Priscilla Faris	Communications	7376	3387
Bruce Zibung	Dose Assessment	8386	1029

TBD = To Be Determined
* Indicates Lead Facility Controller
1 Exercise Only

Emergency Preparedness
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		Ext.	M.S.
RTL			
* Chris Crumbaugh	RTL Coordinator	7158	3387
Jerry Tillman	RMT	2388	3020
Jane Mallernee	RMT	7312	3065
Dave Isherwood	RMT	7520	3145
Randy Leow	RMT	7751	1002
SECURITY			
* Linda Hannan	Command and Control	7758	4000
Bob Zeisloft	Security	7557	4000
Clancy DeTray	Security	7618	4000
Rick Maier	Security	7557	4000
JPIC			
* Penny Harrison	Company Spokesperson	5735	PYPTC
Pat McCloskey	Controller	2417	1043
Judy Hirsch	Controller	2307	1042
Brian Kremer	Controller	8148	3060
@ Linda Dohrmann	Mock Media	7101	3145
Evelyn Dress	Mock Media	7528	3065
Andy Migas	Mock Media	7392	3040
Teresa McDougall	Mock Media	7145	3020
Dorthy Wiedle	Mock Media	7891	3020
Greg Duncan	Mock Media	7338	5177
Pat Schwartz	Mock Media	7745	5178
Debbie Perko	Mock Media	5049	PYPTC
CONTROL CELL			
* Patti Smith	Control Cell Supervisor	7679	3060
George Bradley	NRC Duty Officer	7530	3065
Bill Kreinbihl	Corporate	8246	3040
Carol Blausey	Public Concern Operator	7128	3060
Kathy Fehr	Public Concern Operator	8214	3215
Lisa Gomoll	Public Concern Operator	7522	3065
John Tarquinto	Public Concern Operator	7446	3060
Angie Jones	Public Concern Operator	7446	3060

TBD = To Be Determined
* Indicates Lead Facility Controller
@ Company Spokesperson for the Recovery Meeting

Emergency Preparedness
1995 Dry Run & Exercise Controllers

SPECIALISTS		Ext.	M.S.
* Skip Cope	Drill Coordinator	8362	3060
Mike White	Rad./Dose Assessment Data	2409	3060
Tom Almendinger	Oak Harbor Police Dispatcher	7330	5178
Jason Bateson	First Aid Event	7910	3065
Diana Chambers	Administrative Coordinator	7627	3060
Bob Baumgartner	Logistics Coordinator	8148	3060
Ed Lorenc	PPF Parking Lot AAC	7730	3395

TBD = To Be Determined
* Indicates Lead Facility Controller
@ Company Spokesperson for the Recovery Meeting

EXERCISE CONTROLLER ASSIGNMENTS
TABLE 4.2-2

OTTAWA COUNTY ACTION/SITES	DAY	TIME	CONTROLLER*
A. Backup Route Alerting; Supplemental Route Alerting (Harris-Elmore Fire & EMS)	Monday	1830	Reggie Strauss Fred Peterson Mike Drusbacky
B. Backup Route Alerting; Supplemental Route Alerting (Carroll Twp. Fire Dept.)	Tuesday	1830	Reggie Strauss Mike Drusbacky
C. Emergency Worker Monitoring and Decontamination (Port Clinton Fire Dept.)	Tuesday	1830	Sonia Eischen Jim Vetter Rudy Sacchet Jim Greer
D. EOC-Executive/Dispatch	Wednesday	0700	Cheryl Jenkins
EOC-Operations/Support	"	"	Jim Vetter
Services/Security	"	"	Reggie Strauss
EOC-Dose Assessment	"	"	Mark Roseum (Lead)
EOC-PI/Message Control (All Agencies)	"	"	Dan Clevenger
E. Medical Services - Transport (Mid County EMS)	Wednesday	In-Sequence	Steve Henry
F. Medical Services - Facilities (Fremont Memorial Hosptial)	Wednesday	In-Sequence	Ron Dielman Steve Henry
G. Perimeter/Access Control (Ottawa County Engineer; Highway Garage)	Wednesday	0800	Jerome Barclay
H. Perimeter/Access Control; Traffic Control (Ottawa County Sheriff)	Wednesday	1000	Jerome Barclay
I. Perimeter/Access Control; Traffic Control (Port Clinton Police)	Wednesday	1300	Jerome Barclay
J. Backup Route Alerting/ Supplemental Route Alerting (Portage Fire District)	Wednesday	1830	Reggie Strauss Mike Drusbacky Fred Peterson
K Institutionalized/Special Populations (Riverview Nursing Home)	Thursday	0900	Fred Peterson Mike Drusbacky
L. Schools (Genoa Area Schools)	Thursday	0900	Reggie Strauss
M. Schools (Benton Carroll Salem Schools)	Thursday	1030	Reggie Strauss Jim Greer

* Controllers Must Be Present Thirty Minutes Prior

EXERCISE CONTROLLER ASSIGNMENTS

TABLE 4.2-2 (continued)

LUCAS COUNTY

ACTION/SITES	DAY	TIME	CONTROLLER*
A. EOC-Executive/Dispatch	Wednesday	0700	Mitch Teal (Lead)
EOC-Operations/Support Services/Security	"	"	Ron Smith
EOC-Assessment	"	"	Barb Pizzi
EOC-PIL/Message Control/ Communications (All Agencies)	"	"	Mike Ginn
B. EBS (WSPD/WLQR Radio)	Wednesday	1015	Larry Brough
C. Schools (Oregon School Distr.)	Wednesday	1000	Mike Ginn
D. Perimeter/Access Control Traffic Control (Lucas County Sheriff)	Wednesday	1300	Mike Ginn
E. Emergency Worker Monitoring and Decontamination (Jerusalem Fire Dept.)	Wednesday	1830	Mitch Teal Barb Pizzi Mike Ginn
F. Evacuee Monitoring and Decontamination (Oregon Fire Dept.;Eisenhower Middle School)	Wednesday	1900	Ron Smith Skip Fisher Andy Beaudry
G. Reception Center Registration (Eisenhower Middle School)	Wednesday	1930	Andy Beaudry
H. Congregate Care (Fassett Middle School)	Wednesday	1930	Bonita Palmer Tom Barnhizer
I. Medical Services - Transport (Jerusalem Fire Dept.)	Wednesday	1830	Mitch Teal
J. Medical Services - Facilities (St. Charles Hospital)	Thursday	0800	Mike White (lead) Sonia Eischen Ron Dielman

* Controllers Must Be Present Thirty Minutes Prior

EXERCISE CONTROLLER ASSIGNMENTS

TABLE 4.2-2 (continued)

ERIE COUNTY

ACTION/SITES	DAY	TIME	CONTROLLER*
A. EOC (Not Evaluated)	Wednesday	In-Sequence	Skip Fisher
B. Evacuee Monitoring and Decontamination/Vehicle Monitoring and Decontamination (Sandusky High School)	Wednesday	1730	Chuck Dewitz(lead) Dennis Gordon Shawn Badik
C. Reception Center Registration (Sandusky High School)	Wednesday	1730	Chuck Dewitz
D. Congregate Care (Perkins High School)	Wednesday	1830	Cheryl Jenkins

* Controllers Must Be Present Thirty Minutes Prior

5.0 SCHEDULE OF EVENTS

5.1 TIMES AND PLACES

Preparatory meetings held prior to the week of the Exercise will be scheduled and coordinated by the Emergency Preparedness Staff. The meetings scheduled for the week of the Exercise will be held in accordance with Table 5.1-1 below and Table 5.1-2.

Schedule of Meetings

Table 5.1-1

Date/Time	Where	What
September 18, 1995 3:00 - 4:00	Rooms 209/210 DBNPS Administration Building	NRC/Lead Controllers NRC Entrance/Briefing Tours
September 19, 1995 9:00 - 11:00	Energy Education Center DBNPS Administration Building	Utility Controllers Final Briefing
September 19, 1995 3:00 - 4:00	Energy Education Center DBNPS Administration Building	Utility Players Briefing
September 20, 1995	**All Facilities**	**Exercise**
September 21, 1995 8:00 - 1:00	Energy Education Center DBNPS Administration Building	Utility Controllers Debriefing
September 22, 1995 9:00 - 11:00	Energy Education Center DBNPS Administration Building	Utility Player/NRC Critique
September 22, 1995 12:00 - 2:00	Ottawa County EOC Ottawa County Courthouse Port Clinton, Ohio	FEMA/NRC Public Meeting

Schedule of Meetings

Table 5.1-2

Date/Time	Location	Event
September 19, 1995 11:00 am - 12:30 pm	EEC (Backroom) Davis-Besse Administration Building	Exercise Offsite Controller Briefing
September 20, 1995 All Day	Offsite Facilities	Exercise
September 21, 1995 8:00 am - 2:00 pm	Emergency Preparedness Davis-Besse Administration Building (Second Floor)	Exercise Offsite Controller Debriefing

5.2 OBSERVER APPROVAL

Permission to observe the Exercise must be obtained from:

Davis-Besse Nuclear Power Station

Mr. James H. Syrowski, Supervisor
Emergency Preparedness
Toledo Edison Company
300 Madison Avenue, Stop DB 3060
Toledo, Ohio 43652
PH: (419) 321-7148
FAX: (419) 249-2302

State of Ohio

Mr. Larry Grove, Chief
Radiological Branch
Adjutant General's Dept.
2855 W. Dublin-Granville Road
Columbus, OH 43235-2206
PH: (614) 889-7173
FAX: (614) 889-7183

Ottawa County

Mr. James P. Greer, Director
Ottawa County EMA
315 Madison Street
Port Clinton, Ohio 43452
PH: (419) 734-6901
FAX: (419) 249-2361

Erie County

Mr. William Walker, Coordinator
Erie County EMA
2900 Columbus Avenue
Sandusky, Ohio 44870
PH: (419) 627-7617
FAX: (419) 627-8108

Lucas County

Mr. William S. Halsey, Director
Lucas County EMA
2144 Monroe Street
Toledo, Ohio 43624
PH: (419) 249-0661
FAX: (419) 249-5360

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
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
(419) 836-1466

Best Western (800) 231-4871
Port Clinton, OH
Fremont, 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

6.0 EXERCISE SCENARIO

This section provides a description of the Evaluated Exercise event sequence and provides figures depicting key plant conditions. It is broken down into the following areas:

6.1 NARRATIVE SUMMARY

This section provides a general overview of the Exercise event sequence for a quick understanding of the extent of play.

6.2 INITIAL CONDITIONS

This section provides Players with basic information regarding plant external conditions that exist at the start of the Exercise.

6.3 UTILITY AND NON-UTILITY EVENTS

This section provides a detailed chronology of events for Controller guidance during conduct of the Exercise. All times are approximate.

6.4 OUT OF SEQUENCE EVENTS (NON-UTILITY)

This section provides a detailed chronology of out-of-sequence events for Ottawa, Lucas, and Erie County.

CONDUCT OF PLAY

Operational data and event timing for this scenario was developed in conjunction with practice runs of the Plant Simulator. Selected failures were injected into normal plant operations as depicted on the Simulator and Operator response was permitted to take place on a "real time" basis. No artificial time compressions were injected into the time sequence.

During the day this Exercise is conducted, plant equipment status will be based on Control Room Operator response that day, which may differ than that which occurred during the practice runs. Controllers at the Simulator will be trying to keep the sequence of events on track. However, they will try to do this without the use of verbal overrides. Instead, should the Control Room Operators take a course of action that may significantly alter the outcome of the sequence of events, the Instructor Facility (IF) Operator will inject additional faults or malfunctions that can thwart the Operator actions in a manner that is consistent with "real life" equipment failures or problems.

Because of the extensive freeplay being allotted to Control Room Operators, the IF Operator is authorized to take immediate action as deemed appropriate to keep the sequence of events on track. If time permits, the injecting of additional equipment failures should be cleared with the Lead Exercise Controller first.

Some Control Room Operator actions will be permitted, even though they are not listed in Section 6.3, if the consequence of these actions does not significantly affect the overall outcome of the scenario.

6.1 NARRATIVE SUMMARY

Initial conditions are established with the plant, running at 100% power, all systems in automatic. Plant chemistry is in specification and stable. It is a clear evening with a light breeze coming off the lake.

The Davis-Besse Nuclear Power Station is operating at 100% power and has been in continuous operations for the past 365 days. All plant systems are in automatic. For the past 30 days Reactor Coolant System (RCS) Iodine has increased slowly. Plant management is concerned that this fuel leakage will increase to a point that a plant shutdown will be required before the scheduled plant refueling outage. Increased monitoring of the primary coolant has been called for. Chemistry has placed the sample system in continuous purge to support the increased RCS sample frequency.

In preparation for the upcoming refueling outage, personnel continue to arrange the Spent Fuel Pool to receive new fuel. The normal fuel handling hoist is broken and the backup monorail system is being used to move the individual spent (used) fuel assemblies to their new location.

Maintenance personnel are in the process of returning #1-1 Emergency Diesel Generator (EDG) to service following a routine cleaning and inspection of the #1-1 Diesel Day Tank. The post-maintenance operability test is schedule for this morning.

At approximately 7 AM the Failed Fuel Detector alarms in the Control Room. Primary System Iodine activity has increased, causing the Control Room Alarm. The morning chemistry sample confirms that the plant Technical Specification have been exceeded. The Shift Supervisor and his staff review the Emergency Action Levels (EAL's) and classify the event as an ALERT. Action is taken to notify station personnel, Ottawa and Lucas Counties, the State of Ohio and the Nuclear Regulatory Commission (NRC). The station Emergency Response Organization (ERO) is mobilized. Due to the high Iodine concentration in the reactor coolant the Shift Supervisor/Emergency Director starts a plant shutdown.

The station ERO activates the Operations Support Center (OSC), Technical Support Center (TSC) and the Emergency Control Center (ECC) as per the appropriate procedure. The Joint Public Information Center (JPIC) is activated at the Edison Club in Maumee, Ohio.

A turnover of Emergency Director (ED) responsibilities occurs and the Shift Supervisor is relieved of the ED duties. The plant shutdown is carefully monitored by the TSC and operations personnel.

Offsite agencies begin to mobilize their emergency responders. Offsite Emergency Operations Centers (EOC's) partially staff to monitor the emergency situation at Davis-Besse. EOC staff evaluates the need to close the wildlife area (Subarea 10) and to restrict boating traffic on Lake Erie (Subarea 12). Offsite officials are dispatched to the Emergency Control Center at the station and to the JPIC.

The movement of the spent fuel continues. While attempting to return a spent fuel assembles to it's proper location it is damaged. Radioactive gas bubbles raise to the surface of the Spent Fuel Pool, the Spent Fuel Pool area and ventilation monitors detect the increase in radiation. The Fuel Handling Ventilation System trips, thereby containing the radiological problem in the spent fuel handling area. The Emergency Director in the Emergency Control Center evaluates the changing plant conditions and reclassifies the emergency situation as a SITE AREA EMERGENCY.

A Protected Area evacuation of non-essential personnel is performed in accordance with the plant procedures. An individual in the Auxiliary Building falls as he attempts to evacuate the area. This is not discovered until accountability in the Protected Area is completed. A Search and Rescue team is dispatch to locate the missing employee. When he is located, the First Aid Team (FAT) is summoned. The injured individual is found to be contaminated and requires offsite transportation to a hospital. Mid-County EMS is dispatched by the Oak Harbor Police Dispatcher. The contaminated/injured individual is transport to Fremont Memorial Hospital for care. Radiological Protection (RP) personnel are dispatched to provide support to the hospital staff.

Offsite EOC's are fully activated. The Site Area Emergency EBS message is broadcasted and sirens are activated in the 10 mile EPZ. Counties initiate activation of traffic and perimeter control points. Host counties staff reception and care centers.

The JPIC responses to increasing media interest in the emergency situation in Ottawa County. Rumor Control operators address community inquiries. The State of Ohio issues protective actions for dairy animals around the station.

The plant shutdown continues. The Control Room staff detects a small Reactor Coolant System (RCS) leak in containment. The TSC begins evaluation of potential leak paths and their associated effect on plant and personnel safety. Operations personnel line-up the Emergency Core Cooling System (ECCS) to minimize the effect of the RCS leak. During this alignment, ECCS piping will develop a leak in the Auxiliary Building. The higher pressure in the primary system forces highly contaminated RCS water into the Auxiliary Building. The area and ventilation monitors detect the radiological release. Operator actions are unsuccessful in isolating the radiological release. An offsite release is now in progress. The ERO evaluates the new data and recommends re-classification to a GENERAL EMERGENCY. The Emergency Director concurs and re-classifies the emergency situation. Dose Assessment staff should provide offsite protective action recommendations to evacuate subareas 1, 2, 3, 4, 5 and 12.

The State of Ohio, Ottawa and Lucas Counties select a course of action to protect the residents with the 10 mile Emergency Planning Zone (EPZ). An EBS message is prepared and the siren system is activated. Local fire department personnel begin back-up route alerting and law enforcement agencies activate traffic and perimeter control points. Residents near the plant are directed to evacuate to pre-designated centers.

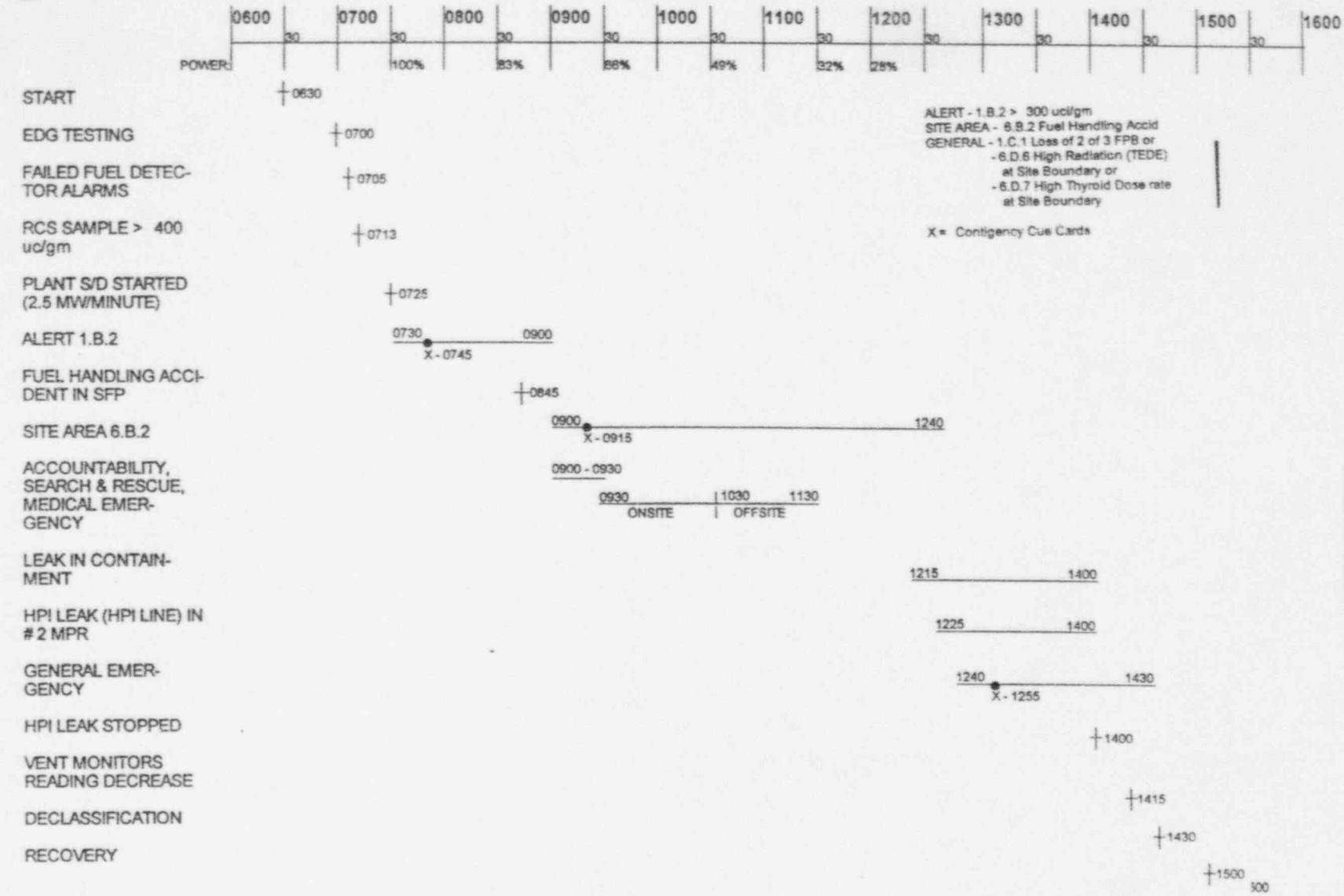
OSC repair teams are dispatch to isolate (stop) the radioactive release. After several attempts the repair team is successful in stopping the offsite release.

The plant begins to stabilize and ERO management personnel consider downgrading and recovery activities begin. Following discussion between utility and offsite agencies on declassification the Exercise is terminated. Each facility debriefs and documentation is collected for review.

A recovery/re-entry discussion is held following the termination of the exercise, as well several out of sequence activities.

Refer to Figure 6.1-1 for a timeline of events.

FIGURE 6.1-1



1995 EMERGENCY EXERCISE

6.2 INITIAL CONDITIONS

6.2.1 Close of Business, September 19, 1995.

The plant is operating in Mode 1 at 100% power with all systems in automatic.

For the past 365 days, the plant has been operating at or above 90% power. The core is at end of life at 400 EFPD.

NOTE: An "Exercise Only" Davis-Besse Daily Status sheet will be provided to the Players through normal distribution channels, attached to the back of the actual Daily Status sheet.

6.2.2 Start of Exercise, September 20, 1995.

The plant is operating in automatic at 100% power. Plant chemistry is in specification and stable. (Refer to Figure 6.2-1).

All systems are operating normally with the following exceptions:

1. #1-1 Emergency Diesel Generator is out of service and inoperable. Post-maintenance testing is scheduled for early this morning.

2. Additional equipment maintenance events are provided on the "Exercise Only" Davis-Besse Daily Status sheet.

NOTE: Refer to Section 10 of this manual for additional equipment servicing/repair information.

The temperature is in the mid 40's with winds from 30° at 4 MPH. (Refer to Section 9 of this manual for additional meteorological information.)

Simulator setup instructions for the IF Operator.

1. IC-27: 100% PWR

2. Ensure STETCLK in Ship Dir is used to allow simulated time to be real time synchronized with the ECC clock.

3. PC File = EP94EX; See failures on the MALF list in the IC.

4. Ensure program to drive the following indications is setup:

   - Meteorological parameters

   - RE trending data

INITIAL PLANT CHEMISTRY DATA

FIGURE 6.2-1

CHEMISTRY ANALYSES STATUS

PRIMARY				SECONDARY (FEEDWATER)			
Time: 0815		Date: 9/19/95		Time: 0800		Date: 9/19/95	
Limits		Value		Limits		Value	
≤100	O_2	<5	ppb	≤5	O_2	0.1	ppb
≤150	Cl^-	1.40	ppb	≥20	N_2H_4	42.5	ppb
≤150	F^-	2.02	ppb	≤20	SiO_2	<5	ppb
*	Li^+	1.38	ppm	≤3	Na	0.31	ppb
	pH	7.39	@ 25°C	≤10	Fe	≤10	ppb
25-50	H_2	40.68	cc/kg	≤5	Cl^-	0.52	ppb
	N_2	5.78	cc/kg	≥9.3	pH	9.64	@ 25°C
≤100	TDG	46.46	cc/kg	Measured H^+ Cond.		0.165	µS/cm
≤1.0	DEI^{131}	3.71E-1	µCi/gm	≤0.2 *Inorganic H^+ Cond.		0.06	µS/cm
100/$\bar{E}$	Specific Act.	4.61	µCi/ml	Condensate Dissolved O_2		3.4	ppb
* Per DB-CH-06900, Attachment 1				*Inoganic H^+ Cond. is a calculated value			

COVER GAS

Tank	%H_2	%O_2	%N_2	Time	Date
WGST		N/A			
CWRT 1					
CWRT 2					

BORON

Vessel	PPM	Time	Date
RCS	802	0815	9/19/95
PZR	N/A		
BWST			
PWST			
BAAT 1			
BAAT 2			
CWRT 1			
CWRT 2			
CFT 1			
CFT 2			
SFP			
Refuel Canal			

Comments:
I-131: 7.01E-1 µCi/gm.

Reviewed by Roscoe T. Coller
Shift Supervisor

Time/Date 1430, 9/19/95

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
1	The Shift Supervisor is briefed in the Control Room and the Exercise Authorization Form is approved.	00/00	0630		
	NOTE: The 1995 Evaluated Exercise will utilize the Control Room Simulator (CRS) to conduct Operator response instead of the actual Control Room. An off-shift Operations crew will be pre-staged and briefed at the Simulator with the exception of the Equipment Operators who will pre-stage in the plant. Pre-designated Maintenance, Chemistry and Radiation Protection personnel will assemble at the OSC once it is activated. Since Players will not be able to use their normal communications channels to contact each other, an "Exercise Phone List" will be provided.				
2	The pre-designated Chemistry and Radiation Protection personnel receive the safety briefing, initial conditions, and stand by at their respective offices to begin Exercise response when contacted via phone. The pre-designated Maintenance personnel can be reached via Gai-Tronics.				
°	The Lead Exercise Controller at the Control Room Simulator will direct the following actions:	00/10	0640		

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
3	1. A Gai-Tronics announcement for the start of the Exercise.				
	2. Activation of the ERO pager drill code, which advises all ERO pager carriers that the pages which follow are related to the Exercise.				
	3. The NRC Duty Officer will be notified that the Exercise has begun via the Emergency Notification System (ENS) "Red Phone".				
°	#1-1 Emergency Diesel Generator (EDG) Post-Maintenance testing starts.	00/30	0700		
	° Refer to Section 10 for EDG equipment status.				
°	Failed Fuel Detector alarms.	00/35	0705		
4 5x	Chemistry confirms RCS activity levels are increasing. Sample indicates I-131 is 400 uCi/gm.	00/43	0713		
	° Refer to Section 8 of this manual for Chemistry information.				
°	The CRS Operators will start a plant shutdown due to high activity in RCS.	00/55	0725		
6x	NOTE: Due to fuel integrity problems, limit power decrease to 2.5 mw/minute.				
7	The Shift Supervisor and his staff	01/00	0730		

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	evaluates the indications and classify the ALERT in accordance with Emergency Action Level (EAL) Very High RCS Activity, 1.B.2 of RA-EP-01500, Emergency Classification.			
	In accordance with RA-EP-01700, ALERT:			
	° Station Alarm will be sounded. The ALERT Gai-Tronics announcement will be made at the simulator.			
	NOTE: The Simulator Controller will request that the Control Room Controller sound the alarm and make the announcement over the plant public address system for all Emergency alarms.			
	° The Computerized Automated Notification System (CANS) will be activated to notify and call out the Emergency Response Organization (ERO), notify the Company Telephone Operator, and page the Davis-Besse NRC Resident Inspectors.			
	° Ottawa and Lucas Counties and the State of Ohio are notified of the ALERT, utilizing the dedicated telephone system in accordance with RA-EP-02110, Emergency Notification procedure.			Ottawa and Lucas Counties Sheriff's Dispatchers and the State of Ohio Highway Patrol receive notification of the ALERT.
	° Notification to NRC will be made to the Utility Control Cell.			State and County Dispatchers notify key response agencies.
8	° ERDS phone line will be simulated			

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	broken.			
	° Access to the Owner Controlled Area, DBAB ERFs and the Protected Area are restricted in accordance with RA-EP-02510, Emergency Security Organization Activation and Response.			
9	NOTE: Access to the Owner Controlled Area and Protected Area will be restored by the Controllers after approximately 30 minutes or when traffic backup becomes a safety issue.			
10	° Non-essential personnel in the Protected Area assemble.			
11	NOTE: Assembly of non-essential personnel within the Protected Area will be simulated. This action has been taken to minimize the impact on the non-essential personnel.			
12x	Contingency input in the event an ALERT has not been declared by this time.	01/15 0745		
	Designated Emergency Response Organization (ERO) staff respond to the Emergency Response Facility (ERF) and begin facility activation.			State of Ohio activates their Assessment Room (EMA, OEPA, ODH, ODA) in the State EOC to monitor the events at the Station. Selected Emergency Responders are alerted and placed on standby.
	Once the TSC and ECC are activated, the			

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
	Emergency Director in the DBAB obtains a turnover from the Emergency Director in the Simulator in accordance with RA-EP-02010, Emergency Management. NOTE: The Emergency Assistant Plant Manager in the Simulator may elect to relieve the Emergency Director in the Simulator until the TSC and ECC are activated.				County agencies are notified and key response personnel respond to the county Emergency Operation Centers (EOCs). County and pre-staged State personnel are dispatched to the ECC and JPIC. Pre-staged State of Ohio Field Monitoring Team are dispatched. Pre-staged State of Ohio Mobile Communication Van is dispatched to its designated location. Bus Drivers are mobilized (simulated). EBS brought to an "ALERT" status (simulated). The Ottawa County EMA considers closing parklands (Subarea 10) and restricting boating traffic to Subarea 12. (The actual closure of the parklands and restriction of boating will be simulated.)
	° News releases are prepared and press briefings held at the offsite JPIC.				State and Counties provide news releases as required.
°	The medical "victim" and Controllers are pre-staged at the accident scene for the Medical Drill.	02/00	0830		
°	While moving spent (used) fuel in the Spent Fuel Pool (SFP) a fuel assembly	02/15	0845		

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	is damaged, releasing radioactive gases into the Auxiliary Building. ° Refer to Section 10 of this manual for a description of the Fuel Handling Accident. ° When the Fuel Handling Ventilation trips, CV5024 will go closed and will not open. Refer to Section 10 of this manual for a description of this problem. ° Refer to Section 8 of this manual for data indicating changes to in-plant radiation levels. NOTE: Due to CV5024 being closed, no measurable offsite release occurs.			
°	The Emergency Response Organization evaluates the changing plant condition. The Emergency Director orders an upgrade in classification in accordance with RA-EP-01500, Emergency Classification.			
13	A SITE AREA EMERGENCY declaration is made in accordance with EAL 6.B.2, Major Damage to Spent Fuel in Fuel Handling Area. In accordance with RA-EP-01800, Site Area Emergency: ° Station alarm will be sounded and SITE AREA EMERGENCY announcement	02/30 0900		

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	made.			
	° The CANS will be activated to notify via pager the ERO, Company Telephone Operator, and the Davis-Besse NRC Resident Inspectors.			
	° Ottawa and Lucas Counties and the State of Ohio are notified of the SITE AREA EMERGENCY in accordance with RA-EP-02110, Emergency Notification.			Ottawa and Lucas Counties and the State of Ohio receive notification of the SITE AREA EMERGENCY using the dedicated telephone system.
	° The NRC Incident Response Center notifications (i.e., Red Phone) are made to the Control Cell.			State and County officials notify Emergency Response Organizations of the change in classification.
				State and Counties activate their EOCs and fully mobilize their staffs.
				Ottawa and Lucas Counties coordinate times for Siren (EBS/NOAA Activation. Ottawa County is "primary", Lucas County is "alternate" for this event). The EBS message and siren activation (simulated).
				Following the simulated siren sounding, Ottawa County requests the Utility verify the siren status.
	° When requested by offsite, the ECC verifies the siren activation by polling the siren feedback system.			
	All sirens indicated they have sounded and offsite is advised.			

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
14	° Evacuated non-essential personnel will be held in the PPF parking lot. NOTE: 1. Evacuated personnel will be returned to work following accountability and the location of the missing person. 2. The Owner Controlled Area (OCA) assembly of non-essential personnel will be simulated. 3. Sending non-essential contractors and visitors home will be simulated. 4. Dismissal of training classes will be simulated. ° Security polls the security computer to determine the status of the evacuation of non-essential personnel from the Protected Area. The print-out is taken to the OSC in accordance with RA-EP-02520, Assembly and Accountability. NOTE: A limited group of personnel involved in critical tasks will be exempt from the Protected Area evacuation and Exercise-related activities. ° Controllers utilizing the exception			Fire Departments conduct route verification and notify mobile/ hearing impaired (simulated). Ottawa County confirms activation of Sandusky (simulated) and Erie County (partial) Emergency Response Organizations. State of Ohio makes a "State of Emergency" declaration. Closure of Parklands (Subarea 10) and Restricting Boater Traffic (Subarea 12) (If not done at ALERT) (simulated). State of Ohio requests FAA restrict airspace (simulated). State of Ohio restricts rail traffic (simulated). State of Ohio requests FEMA and DOE assistance (simulated). Ottawa County relocates Carroll Elementary School (If not done at ALERT) (simulated). Ottawa and Lucas Counties consider precautionary Protective Actions, including relocation of EPZ or Host School populations. Counties initiate activation of traffic and perimeter control

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
	list will delete non-participating individuals from the security printout before it is handed to the OSC Manager. This time will be subtracted from the 30-minute clock.				(simulated). Host Counties staff reception and care centers (simulated).
	° A missing person will be identified. The OSC Manager implements RA-EP-02420, Search and Rescue.				
	NOTE: The missing person is injured.				
	° News releases are prepared and press briefings held at the offsite JPIC.				State and counties provide news releases as required.
15X	Contingency input in the event a SITE AREA EMERGENCY has not been declared by this time.	02/45	0915		
°	The missing person is found injured in the Low Level Radwaste Facility.	03/30	1000		
16	Control Room is notified of medical emergency.	03/31	1001		
17	CRS Operators staff implements RA-EP-02000, Medical Emergencies, and sounds the "Initiate Emergency Procedure" alarm for the First Aid Team (FAT) and informs them of the location of the injured person. The OSC is notified.	03/32	1002		
°	The FAT and RP arrives on the scene	03/40	1010		

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
	of the injury.				
°	The FAT evaluates the injuries and requests offsite medical assistance. ° Refer to Section 8.7 and 8.8 for Medial Dril description, data, and cue cards. RP Technicians determine that the injured person is contaminated. RA-EP-02800, Preparation and Transport of Contaminated Injured Personnel, is implemented.	03/45	1015		
18	CAS/SAS calls for offsite assistance via the Oak Harbor Police Department Dispatcher in accordance with RA-EP-02805, Davis-Besse Emergency Telephone System. NOTE: Normally 9-1-1 would be used, however, a non-emergency telephone number will be used for this Exercise. Priority at the Oak Harbor Police Department will be directed to real emergencies that may be reported on the 9-1-1 System.	03/50	1020		
		03/51	1021		The Oak Harbor Police Dispatcher will tone out Mid-County Emergency Medical Service and advise them that a

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
					Davis-Besse employee is injured. NOTE: Mid-County EMS is the backup to Carroll Township EMS who is the primary responder.
19	The CAS/SAS operator will call Fremont Memorial Hospital and advise them that a contaminated/ injured person is being transported to Fremont Memorial Hospital. NOTE: The procedure stipulates Magruder Hospital. However, for the purposes of the Exercise, Magruder will not be used. Refer to Section 8 of this manual for additional medical drill information. NOTE: The First Aid Teams will take three time-outs to process personnel, 1) into the Protected Area, 2) out of the RRA and 3) out of the Protected Area. If this was a real event, this would NOT occur.	04/00	1030		Fremont Memorial Hospital will receive notification to mobilize Radiological Emergency Area (REA) staff to report; and prepare the REA for arrival of contaminated/injured individual. State of Ohio, Ottawa and Lucas Counties perform a turnover and a shift change.
°	Increasing CTMT radiation, temperature, and sump levels indicate an RCS leak in CTMT. CRS Operators perform actions of DB-OP-02522, Small RCS Leak Abnormal Procedure.	05/45	1215		
°	When the Small RCS Leak Abnormal	05/55	1225		

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	procedure has the CRS Operators line-up for "piggy-back" operations, an HPI Line break will occur in the #2 Mechanical Penetration Room.			
°	HP2B will fail to close and the failure of HPI check valves cause an RCS LOCA to occur in #2 Mechanical Penetration Room. This will cause a release through the Emergency Ventilation System to the station vent.			
°	Refer to Section 10 for additional information on HP2B status.			
°	Refer to Section 8 for data indicating the changes to radiation levels.			
20	CRS operator informed that HP2B control switch feels warm to the touch.			
21	A GENERAL EMERGENCY declaration is made per EAL 6.D.6, Projected Radiation Levels at the Site Boundary of Greater than 1 REM/hr. Whole Body, EAL 6.D.7, High Thyroid Dose of Site Boundary, or EAL 1.C.1, Loss of 2 of 3 Fission Product Barriers with a Potential Loss of the Third. In accordance with RA-EP-01900, General Emergency procedure:	06/10 1240		

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
	° Station Alarm is sounded and a GENERAL EMERGENCY announcement is made via a request from the ECC.			
	° Dose Assessment staff should provide offsite protective action recommendations to evacuate subareas 1, 2, 3, 4, 5 and 12.			
	° The CANS will be activated to notify via pager the ERO, Company Telephone Operator, and the Davis-Besse NRC Resident Inspectors.			
	° Ottawa and Lucas Counties and the State of Ohio are notified of the GENERAL EMERGENCY.			Ottawa and Lucas Counties and the State of Ohio receive notification of the GENERAL EMERGENCY, using the dedicated telephone system.
	° The NRC Incident Response Center notifications (i.e., Red Phone) are made to the Control Cell.			State and County officials notify Emergency Response Organizations of the change in classification.
	° Initiate evacuation of non-essential personnel.			State and Counties monitor plant conditions.
22	NOTE: Evacuation of non-essential personnel to an offsite assembly site will be simulated. However, the ERO should carry out their actions as if it were occurring.			State of Ohio develops plume dose projections.
				Ohio Department of Health (ODH) and Ohio Department of Agriculture (ODA) recommend sheltering of livestock within a 10-mile radius.
				State of Ohio coordinates with Ottawa

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
				and Lucas Counties in developing Protective Action Recommendations.
				Ottawa and Lucas Counties provide protective action decisions to the public.
				The EBS and siren systems are activated (simulated).
	When requested by offsite, the ECC verifies the siren activation by polling the siren feedback system.			Following the simulated siren sounding, Ottawa County requests the Utility verify the siren status.
	° With the exception of 1107, 1211, 1401, and 8903, all sirens indicate they have sounded.			
23	° Offsite is advised that 1107, 1211, 1401, and 8903 appear not to have sounded.			
24	° Status Logger printout reviewed and information provided to Ottawa and Lucas Counties.			Ottawa and Lucas Counties evaluate the impact of the failure of Sirens 1107, 1211, 1401 and 8903 to sound. Adjustments to route alerting are made.
				Ottawa and Lucas Counties conduct back-up route alerting, as required. (simulated).
				Ottawa and Lucas Counties activate Reception Centers and Emergency Worker Decontamination/Monitoring Stations (simulated).

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
				The American Red Cross opens Care Centers (simulated).
				Ottawa County notifies special facilities of evacuation, Ottawa County authorizes relocation of special facilities (simulated).
				Ottawa and Lucas Counties assure monitoring of emergency worker exposure.
				Counties monitoring evacuation routes. (simulated)
°	News releases are prepared and press briefings held at the offsite Joint Public Information Center (JPIC).			State and counties provide news releases and are represented at JPIC press briefings.
				Ottawa and Lucas Counties implement KI decision, if requested, by ODH.
25x	Contingency input in the event a GENERAL EMERGENCY has not been declared by this time.	06/25 1255		
°	A Repair Team succeeds in closing HI2B, stopping the release of radioactive materials from CTMT. The Station Vent monitor begins to lower in value as the Auxiliary Building is purged out.	07/30 1400		
°	The Station Vent monitor reading begins decreasing - the release has ended.	07/45 1415		

CC#	UTILITY EVENT	T:TIME	TIME	CC#	NON-UTILITY EVENT
26x	Contingency input in the event that an estimate of total population exposure has not been completed.	08/00	1430		
°	Declassification discussions occur. The management team begins downgrading and termination by evaluating plant conditions and formulating a plan to terminate the event. Requirements of RA-EP-01500, Emergency Classification, are reviewed. The Recovery Advisor collects data for the recovery plan in accordance with RA-EP-02720, Recovery.	08/00	1430		
27x	Contingency input in the event declassification discussions have not started.	08/15	1445		
°	The Evaluated Exercise is terminated. NOTE: Lead Exercise Controller contacts all Lead Facility Controllers to ensure objectives have been met.	08/30	1500		State and Counties receive notification that the Evaluated Exercise is terminated.
28	After a break and self-critique, selected Senior Facility Managers will utilize RA-EP-02710, Recovery, for a recovery meeting in DBAB Rooms 209/210.				

CC#	UTILITY EVENT	T:TIME TIME	CC#	NON-UTILITY EVENT
29/30	° Termination announcement is made over the Gai-Tronics and in all ERFs. ° The ERO pager "all clear" code, "0000", is activated. This advises all ERO pager carriers that the Exercise is over. ° The NRC will be notified via the "Red Phone" that the Davis-Besse Exercise activities have ended.			
	A short break will be taken. Following the break, self-critiques will be held in each of the participating facilities.			A short break will be taken. Following the break, self-critiques will be held in each of the participating facilities. Ottawa and Lucas Counties conduct an evaluated table-top discussion of offsite relocation, reentry, return and recovery operations, using Controller injected messages received from the State of Ohio.

DOWNGRADING FROM THE EMERGENCY

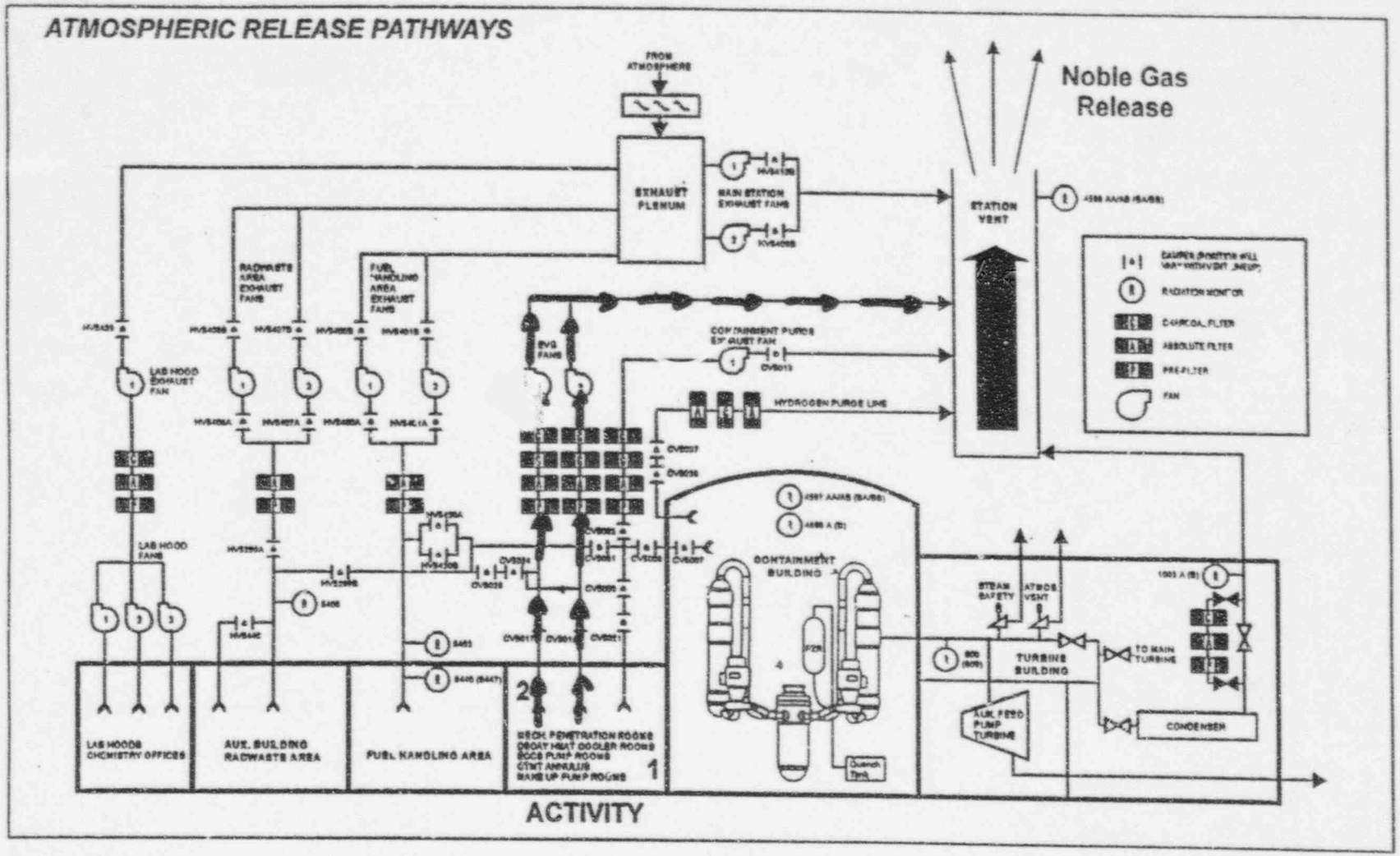
TABLE 6.3-2

Players should be cognizant of the following conditions in order to consider downgrading from the emergency and commencing reentry/recovery discussions:

1. Plant vent radiation monitors descrease to negligible levels.
2. A source of decay heat removal is available.
3. The primary system is cooled down and pressurized.
4. All required notifications have been made.
5. TSC and ECC agree that downgrading is appropriate.
6. State and County Officials concur.

OFFSITE RELEASE PATH

FIGURE 6.3-1



1. An Emergency Core Cooling Line ruptures in #2 Mechanical Penetration Room (MPR).
2. The Emergency Ventilation System transports the radioactivity out of the MPR to the Station Vent.

DAVIS-BESSE DAILY STATUS

Close of Business September 19, 1995

DRILL ONLY - DAVIS-BESSE DAILY STATUS - DRILL ONLY

SEPTEMBER 19, 1995

REACTOR

Mode	1
Power (%)	100
Cycle 10 EFPD	400

GENERATOR

Gross Output (MW)	927
Net Generation 24 hrs (MWH)	20947
Heat Rate (Uncorrected) (BTU/KW-HR)	10206

LEAKAGE

RCS Identified	0.09 gpm
RCS Unidentified	0.00 gpm
Primary-Secondary	<0.1 gpd

PROTECTED SAFETY TRAIN

- Train #2; Train #1 Work Week.

SAFETY

- 103 days since last OSHA Recordable.
- 211 days since last Lost Time Accident.

PERFORMANCE MEASURES

- One Licensee Event Report (year-to-date).
- The plant has been on-line 365 continuous days.

COMPLETED EVENTS

- Diesel Fire Pump Control Room Hand Switch replacement.
- Instrument air dryer 3 and 4 returned to service following preventive maintenance.

PLANNED EVENTS

- 1-1 Emergency Diesel Generator is inoperable for fuel oil day tank cleaning and air starting motor replacement.

PLANT PROBLEMS

- Maintenance Work Order documentation deficiencies.

PLANT CHEMISTRY

- Primary: Iodine 131 concentration is 7.01 E-01 uCi/gm.
- Secondary: 24 hour average dissolved oxygen in the Condensate System is 3.2 ppb. The industry median value is ≤ 3.3 ppb.
  The Moisture Separator Reheater Demineralizer Skid is in service.
  #1 and #2 Moisture Separator Reheater Drains are going forward to the Feedwater heaters.
  Feedwater sodium level is 0.22 ppb. The industry median value is ≤ 0.30 ppb.

DAVIS-BESSE DAILY STATUS

Close of Business September 19, 1995 (con't)

TECHNICAL SPECIFICATION ACTION STATEMENTS

System	Tech. Spec. Number	Date/Time Action is Required	Prevent Restart	PCAQR Written	Estimated Completion	Additional Information
1-1 Emergency Diesel Generator	3.8.1.1	9/21/95 0200	YES	YES	18 Hours	Perform A.C. Source S.T. every 8 hours

* denotes intentional entry

RISK SIGNIFICANT OR TRENDED SYSTEM UNAVAILABILITY STATUS

System	Date/Time Removed from Service	Estimated Completion Date	Date/Time Returned to Service	Additional Information
None				

OPERATIONS EQUIPMENT CONCERNS

Date Identified	Equipment Description	MWO Number	ECD
None			

MAINTENANCE STATUS

- 68 Work Requests.
- 93 Maintenance Work Orders.

PERRY NUCLEAR POWER PLANT STATUS

Mode: 1
Power (%): 100
Gross Output (MW): 1214
Continuous days on-line: 139

SITE ANNOUNCEMENTS

None.

DAVIS-BESSE DAILY STATUS

0600 September 20, 1995

DRILL ONLY - DAVIS-BESSE DAILY STATUS - DRILL ONLY

SEPTEMBER 20, 1995

REACTOR		GENERATOR		LEAKAGE	
Mode	1	Gross Output (MW)	927	RCS Identified	0.09 gpm
Power (%)	100			RCS Unidentified	0.00 gpm
Cycle 10 EFPD	401	Net Generation 24 hrs (MWH)	20947	Primary-Secondary	<0.1 gpd
		Heat Rate (Uncorrected) (BTU/KW-HR)	10206		

PROTECTED SAFETY TRAIN

- Train #2; Train #1 Work Week.

SAFETY

- 104 days since last OSHA Recordable.
- 212 days since last Lost Time Accident.

PERFORMANCE MEASURES

- One Licensee Event Report (year-to-date).
- The plant has been on-line 366 continuous days.

COMPLETED EVENTS

- Diesel Fire Pump Control Room Hand Switch replacement.
- Instrument air dryer 3 and 4 returned to service following preventive maintenance.
- Cleaned and filled 1-1 Emergency Diesel Generator day tank.
- Replaced 1-1 Emergency Diesel Generator air start motor.

PLANNED EVENTS

- 1-1 Emergency Diesel Generator post-maintenance testing.
- Arrange spent fuel assemblies in spent fuel using fuel handling bridge mono-rail system.

PLANT PROBLEMS

- Maintenance Work Order documentation deficiencies.
- Fuel handling bridge fuel mast has failed.

PLANT CHEMISTRY

Primary: Iodine 131 concentration is 7.01 E-01 uCi/gm.

Secondary: 24 hour average dissolved oxygen in the Condensate System is 3.2 ppb. The industry median value is $\leq$ 3.3 ppb.

The Moisture Separator Reheater Demineralizer Skid is in service.

#1 and #2 Moisture Separator Reheater Drains are going forward to the Feedwater heaters.

Feedwater sodium level is 0.22 ppb. The industry median value is $\leq$ 0.30 ppb.

DAVIS-BESSE DAILY STATUS

0600 September 20, 1995 (con't)

TECHNICAL SPECIFICATION ACTION STATEMENTS

System	Tech. Spec. Number	Date/Time Action is Required	Prevent Restart	PCAQR Written	Estimated Completion	Additional Information
1-1 Emergency Diesel Generator	3.8.1.1	9/21/95 0200	YES	YES	18 Hours	Perform A.C. Source S.T. every 8 hours

* denotes intentional entry

RISK SIGNIFICANT OR TRENDED SYSTEM UNAVAILABILITY STATUS

System	Date/Time Removed from Service	Estimated Completion Date	Date/Time Returned to Service	Additional Information
None				

OPERATIONS EQUIPMENT CONCERNS

Date Identified	Equipment Description	MWO Number	ECD
None			

MAINTENANCE STATUS

- 75 Work Requests.
- 107 Maintenance Work Orders.

PERRY NUCLEAR POWER PLANT STATUS

Mode: 1
Power (%): 100
Gross Output (MW): 1214
Continuous days on-line: 140

SITE ANNOUNCEMENTS

None.

6.4 NON-UTILITY OUT-OF-SEQUENCE EVENTS FOR OTTAWA COUNTY

Day	Time	Activity
Monday	1830	Backup Route Alerting; Supplemental Route Alerting (Harris-Elmore Fire & EMS)
Tuesday	1830	Backup Route Alerting; Supplemental Route Alerting (Carroll Twp. Fire Dept.)
Tuesday	1830	Emergency Worker Monitoring and Decontamination (Port Clinton Fire Dept.)
Wednesday	0800	Perimeter/Access Control (Ottawa County Engineer; Highway Garage)
Wednesday	1000	Perimeter/Access Control; Traffic Control (Port Clinton Police)
Wednesday	1830	Backup Route Alerting/ Supplemental Route Alerting (Portage Fire District)
Thursday	0900	Schools (Genoa Area Schools)
Thursday	1030	Schools (Benton-Carroll-Salem Schools)

6.4 NON-UTILITY OUT-OF-SEQUENCE EVENTS FOR LUCAS COUNTY

Day	Time	Activity
Wednesday	1000	Schools (Oregon School District)
Wednesday	1300	Perimeter/Access Control Traffic Control (Lucas County Sheriff)
Wednesday	1830	Emergency Worker Monitoring and Decontamination (Jerusalem Fire Department)
Wednesday	1830	Medical Services - Transport (Jerusalem Fire Dept.)
Wednesday	1900	Evacuee Monitoring and Decontamination (Oregon Fire Dept.; Eisenhower Middle School)
Wednesday	1930	Reception Center Registration (Eisenhower Middle School)
Wednesday	1930	Congregate Care (Fassett Middle School)
Thursday	0800	Medical Services - Facilities (St. Charles Hospital)

6.4 NON-UTILITY OUT-OF-SEQUENCE EVENTS FOR ERIE COUNTY

Day	Time	Activity
Wednesday	0700	EOC (Not Evaluated)
Wednesday	1730	Evacuee Monitoring and Decontamination/Vehicle Monitoring and Decontamination (Sandusky High School)
Wednesday	1730	Reception Center Registration (Sandusky High School)
Wednesday	1830	Congregate Care (Perkins High School)

7.0 PLANT CUE CARDS AND OPERATIONS DATA

This section provides message and data necessary to describe the scenario conditions to the Players at the plant.

7.1 PLANT CUE CARDS

This section provides Player messages that setup the initial conditions and assist in controlling the progress of the scenario at the plant.

7.2 PLANT PARAMETERS SUMMARY

This section provides plant equipment parameter indications in a tabular format for ease of review and for ease of locating a particular instrument reading in a timely manner.

7.3 PLANT PARAMETERS SHEETS

This section provides individual Control Room equipment data sheets to be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

7.4 CONTROL ROOM ALARM PANELS

This section provides individual Control Room annunciator alarm sheets to be passed out to Players in the event the Control Room Simulator becomes unavailable to conduct the Exercise.

7.1 PLANT CUE CARDS

The Cue Cards that follow assist in controlling the progress of the scenario. Controllers should issue the Cue Cards at the times indicated unless directed otherwise by the Lead Drill Controller.

Cards indicated with an "X" following their number are for contingency purposes and should not be issued unless the conditions for issuing the cue card are met.

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 1

TO: Control Room Simulator Staff TIME: 06:30

T: 00/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Temperature is in the mid 40's with winds 30 degrees at 4 MPH.

Refer to the Simulator control boards and the "Drill Only" Davis-Besse Daily Status for the initial operating conditions.

Special Guidelines

1. All communications outside of the Simulator must include the phrase "This is a Drill".

2. Players at the Simulator, TSC, and ECC are not required to wear arm bands.

3. All contacts to non-participating agencies, facilities or organizations you would normally make based on the events that occur in the scenario are to be made to the Control Cell using the Drill Phone List.

4. When the Station alarm is needed as part of Gai-Tronics announcements, contact the Control Room Controller at extension 8500 to perform these actions.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 1

TO: Lead Exercise Controller

TIME: 06:30

T: 00/00

ANTICIPATED RESPONSE:

Players should review the Daily Status Sheet and the 100% power steady state operating conditions indicated on the Simulator control boards.

INSTRUCTIONS:

1. Provide initial briefing to the Simulator personnel. Ensure they have a clear understanding of the initial conditions indicated on the Daily Status.
2. Ensure Players have a copy of the Drill Phone List.
3. Have all participants at the Simulator sign the attendance sheet.
4. Contact the Controller at the real Control Room. Verify that the Shift Supervisor has been briefed and the Exercise Authorization Form has been approved.
5. Direct the Control Room Controller to initiate Cue Card No. 3 for the initial Plant Gai-Tronics announcement.
6. Ensure that activation of the ERO pager drill code occurs at approximately 06:40.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 2

TO: On-Shift Maint., Continuous Service Chem, & RP; OSC Manager and Staff

TIME: 06:30

T: 00/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

INITIAL CONDITIONS

The plant is operating in Mode 1 at 100% power with all systems in automatic. Plant chemistry is in specification and stable. For the past 365 days, the plant has been operating at or above 90% power. The core is at end of life at 400 EFPD. #1-1 EDG is inoperable due to cleaning of #1-1 EDG day tank and air motor replacement. Maintenance on #1-1 EDG is complete. Valve and breaker lineups are complete. #1-1 EDG is ready for Post-Maintenance Testing.

All systems are operating normally.

The temperature is in the low 40's with winds from 30 degrees 4 MPH.

Drill participants for today are:

- Shift Supervisor _____
- Shift Manager _____
- RP Supervisor _____
- Chem Supervisor _____
- Maintenance Supervisor _____

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 2

TO: OSC Controller(s)

TIME: 06:30

T: 00/00

ANTICIPATED RESPONSE:

INSTRUCTIONS:

Fill in the names of the participants before handing out this cue card.

Provide this Cue Card to the On-Shift Maintenance, pre-designated Chemistry and Radiation Protection personnel who are to participate with the Control Room Simulator at the start of the Exercise.

Later, upon OSC activation, provide this Cue Card to the OSC Manager and his staff.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 3

TO: Control Room Staff TIME: 06:40

T: 00/10

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

The DBNPS 1995 Exercise will be conducted today. With the exception of making Exercise announcements that include sounding the Station alarms, all Control Room activities will be conducted at the Simulator. All efforts will be made to minimize your involvement.

Make the following Gai-Tronics announcement twice:

"ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. THE 1995 EMERGENCY EXERCISE IS COMMENCING. ALL ANNOUNCEMENTS PROCEEDED BY 'THIS IS A DRILL' ARE FOR PARTICIPANTS ONLY. IF AN ACTUAL EMERGENCY OCCURS, AN ANNOUNCEMENT WILL BE MADE THAT THE EXERCISE HAS BEEN SUSPENDED UNTIL FURTHER NOTICE. ALL PERSONNEL ARE REQUESTED TO MINIMIZE THE USE OF THE GAI-TRONICS UNTIL THE EXERCISE HAS BEEN TERMINATED."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 3

TO: Control Room Controller

TIME: 06:40

T: 00/10

ANTICIPATED RESPONSE:

A Control Room staff member can make the announcement.

INSTRUCTIONS:

1. Contact the Lead Exercise Controller at the Simulator and inform him that the start of Exercise has been announced over the Station Gai-Tronics

Note: The Control Room Controller should monitor the announcement for clarity and notify the Lead Controller if it is inaudible. Should the Gai-Tronics at the Simulator fail to work, the Control Room Controller must then resume responsibility for performing this announcement from the real Control Room.

Note: Following the ALERT declaration and facility activation, the Control Room Controller should monitor the Technical Data Loop with the headset on mute in order to remain cognizant of Player actions as the Exercise progresses.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 4

TO: Chemistry Technician TIME: 07:13

T: 00/43

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

RCS sample indicates I-131 concentration is 400 µCi/gm.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 4

TO: OSC Controller

TIME: 07:43

T: 00/43

ANTICIPATED RESPONSE:

Reports the results of the Chemistry sample to the Control Room.

INSTRUCTIONS:

1. Provide the information regarding the RCS chemistry sample to the Chemistry Technician.

2. Chemistry data is contained in Section 8.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Exercise CUE CARD NO. 5x

TO: Chemistry Technician TIME: 07:13

T: 00/43

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

The past 30 days Iodine data is:

				IODINES				
DATE	TIME	% POWER	I-131	I-132	I-133	I-134	I-135	DEI-131
			uCi/gm	uCi/gm	uCi/gm	uCi/gm	uCi/gm	uCi/gm
20-Aug-95	0815	100	1.59E-02	3.82E-02	3.40E-02	5.68E-02	4.57E-02	3.12E-02
21-Aug-95	0840	100	1.73E-02	3.83E-02	3.55E-02	5.30E-02	4.16E-02	3.27E-02
22-Aug-95	0048	100	1.90E-02	3.95E-02	3.54E-02	5.64E-02	4.29E-02	3.45E-02
23-Aug-95	0955	100	2.47E-02	4.00E-02	3.78E-02	5.84E-02	4.16E-02	4.08E-02
24-Aug-95	0753	100	1.36E-02	3.77E-02	3.28E-02	5.62E-02	4.32E-02	2.84E-02
25-Aug-95	1225	100	2.49E-02	3.64E-02	3.53E-02	5.06E-02	4.25E-02	4.01E-02
26-Aug-95	0820	100	2.70E-02	4.05E-02	4.12E-02	5.74E-02	4.71E-02	4.46E-02
27-Aug-95	0840	100	2.81E-02	4.42E-02	4.12E-02	5.46E-02	4.75E-02	4.57E-02
28-Aug-95	0840	100	2.86E-02	4.42E-02	4.39E-02	6.22E-02	4.81E-02	4.71E-02
29-Aug-95	0900	100	2.89E-02	4.35E-02	4.47E-02	5.32E-02	5.06E-02	4.77E-02
30-Aug-95	0820	100	2.91E-02	4.10E-02	4.30E-02	5.88E-02	4.81E-02	4.72E-02
31-Aug-95	0740	100	3.31E-02	4.84E-02	4.87E-02	6.18E-02	5.05E-02	5.33E-02
1-Sep-95	1225	100	3.97E-02	4.36E-02	4.06E-02	6.00E-02	4.47E-02	5.70E-02
2-Sep-95	0800	100	4.99E-02	4.42E-02	4.15E-02	6.81E-02	4.94E-02	6.80E-02
3-Sep-95	0746	100	3.87E-02	4.15E-02	3.92E-02	5.98E-02	4.67E-02	7.09E-02
4-Sep-95	0050	100	5.62E-02	4.74E-02	6.01E-02	5.24E-02	4.53E-02	7.89E-02
5-Sep-95	0850	100	6.38E-02	5.14E-02	7.29E-02	5.12E-02	4.90E-02	9.03E-02
6-Sep-95	0145	100	5.89E-02	4.11E-02	7.54E-02	4.99E-02	4.54E-02	8.63E-02
7-Sep-95	0135	100	6.48E-02	8.00E-02	1.26E-01	7.26E-02	1.09E-02	1.12E-01
8-Sep-95	1220	100	7.13E-02	4.60E-02	5.07E-02	6.59E-02	5.10E-02	9.20E-02
9-Sep-95	0825	100	8.09E-02	4.43E-02	5.07E-02	5.85E-02	5.11E-02	1.02E-01
10-Sep-95	0800	100	8.16E-02	4.39E-02	5.43E-02	6.22E-02	4.94E-02	1.03E-01
11-Sep-95	0752	100	8.62E-02	4.68E-02	5.41E-02	6.43E-02	5.14E-02	1.08E-01
12-Sep-95	0800	100	9.31E-02	1.81E-01	1.70E-01	2.15E-01	1.97E-01	1.66E-01
13-Sep-95	0403	100	1.06E-01	1.41E-01	1.27E-01	1.75E-01	1.49E-01	1.61E-01
14-Sep-95	0816	100	1.23E-01	9.28E-02	2.23E-01	6.57E-02	1.56E-01	2.01E-01
15-Sep-95	1205	100	3.30E-01	1.28E-01	3.75E-01	4.60E-02	2.35E-01	4.57E-01
16-Sep-95	0735	100	3.48E-01	1.28E-01	4.05E-01	3.26E-02	2.27E-01	4.81E-01
17-Sep-95	0740	100	3.90E-01	1.29E-01	4.07E-01	3.40E-02	1.76E-01	5.20E-01
18-Sep-95	0800	100	6.52E-01	3.72E-01	4.35E-01	9.30E-02	1.40E-01	7.51E-01
19-Sep-95	0815	100	7.01E-01	4.84E-01	5.12E-01	1.21E-01	1.43E-01	8.71E-01

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 5x

TO: OSC Controller

TIME: 07:13

T: 00/43

ANTICIPATED RESPONSE:

Chemistry Technician reviews past Iodine concentration and, if requested, reports to the Control Room.

INSTRUCTIONS:

1. Provide this Cue Card when the Chemistry Technician has found the Chemistry Log Book and Iodine data.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Exercise CUE CARD NO. 6x

TO: CRS Shift Supervisor TIME: 07:25

T: 00/55

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Decrease reactor power ~ 2.5 MW/Minute.

This rate of power decrease must be used in order to keep the Exercise sequence of events on schedule.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 6x

TO: Simulator Controller

TIME: 07:25

T: 00/55

ANTICIPATED RESPONSE:

The CRS Shift Supervisor will direct a plant shutdown at ≤ 17%/hour.

INSTRUCTIONS:

1. If the Control Room Simulator (CRS) Operators contact Operations Department for directions on the rate decrease, the Simulator IF Controller will give 2.5 MW/Minute.

2. Hand this Cue Card out if the CRS Operators choose:

   a. Not to shutdown the plant
   or
   b. To shutdown the plant at a rate 2.5 MW/Minute.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise

CUE CARD NO. 7

TO: Control Room Staff

TIME: 07:30

T: 01/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Perform the following actions when directed by the Lead Exercise Controller and informed that an ALERT has been declared.

Announce "THIS IS A DRILL, THIS IS A DRILL."

Sound the Initiate Emergency Procedures Alarm. Make the following announcement:

"THIS IS A DRILL.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN ALERT HAS BEEN DECLARED. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. ALL NONESSENTIAL PERSONNEL CONTINUE YOUR WORK ACTIVITIES AND LISTEN FOR FURTHER INSTRUCTIONS.

THIS IS A DRILL.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN ALERT HAS BEEN DECLARED. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. ALL NONESSENTIAL PERSONNEL CONTINUE YOUR WORK ACTIVITIES AND LISTEN FOR FURTHER INSTRUCTIONS.

THE ALERT IS DUE TO HIGH IODINE ACTIVITY IN THE REACTOR COOLANT SYSTEM.

THIS IS A DRILL."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 7

TO: Control Room Controller

TIME: 07:30

T: 01/00

ANTICIPATED RESPONSE:

A Control Room staff member can sound the alarm and make the announcements.

INSTRUCTIONS:

1. Make this announcement when contacted by a Simulator Controller. This contact may occur as early as 07:15 or as late as 07:45.
2. Coordinate this action with the real Shift Supervisor.
3. Protected Area Assembly will be simulated during the ALERT classification.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise

CUE CARD NO: 8

TO: NRC Liaison

TIME: 07:30+

T: 01/00+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

"THIS IS A DRILL."

"THIS IS THE NRC. WE HAVE BEEN INFORMED THAT THE PHONE LINES FOR THE EMERGENCY RESPONSE DATA SYSTEM IS EXPERIENCING PROBLEMS."

"THIS IS A DRILL."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 8

TO: Controll Cell

TIME: 07:30+

T: 01/00+

ANTICIPATED RESPONSE:

NRC Liaison will fax copies of ERDS, as required.

INSTRUCTIONS:

1. Provide this information 5 minutes after;

a. the Technical Support Center has been activated
OR
b. ERDS has been activated.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 9

TO: Emergency Director
Emergency Security Manager

TIME: 07:30+

T: 01/00+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

For the purposes of the Exercise, relax access restrictions to the Owner Controlled Area and Protected Area.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 9

TO: Simulator Controller
Security Controller

TIME: 07:30+

T: 01/00+

ANTICIPATED RESPONSE:

Normal access to the Owner Controlled Area (OCA) and Protected Area (PA) is restored.

INSTRUCTIONS:

Give this message to the Emergency Director after OCA and PA access control has been demonstrated. Use personal judgment to determine when access control has been demonstrated.

NOTE: If traffic backs up with more than six vehicles at the OCA gate, at your discretion access can be restored sooner.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 10

TO: Emergency Director, Emergency Plant Manager, Emergency Security Manager, OSC Manager

TIME: 07:30+

T: 01/00+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

"Simulate" the following actions:

1. Dismissal of training classes.
2. Sending non-essential contractors and visitors home.

Visitor tours should not be canceled, however, access to emergency facilities should be restricted. Only Controller/Evaluators, Players and authorized Observers should be permitted access to the emergency facilities.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 10

TO: ECC, TSC, Security and OSC Controllers

TIME: 07:30+

T: 01/00+

ANTICIPATED RESPONSE:

Training classes and tours are not disrupted.

INSTRUCTIONS:

Try to maintain normal Station operations. Exercise activities should have minimal impact on most Station activities.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 11

TO: Protected Area Assembly Area Coordinators TIME: 07:30+

T: 01/00+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

1. Assembly is being simulated at this time. Inform any personnel who arrives at the Assembly Area to return to their work area.

2. Inform the Emergency Facility Service Manager that:

   a. PSF 1st floor Assembly Area Coordinator report 50 people assembled (simulated).

   b. PSF 3rd floor Assembly Area Coordinator report 133 people assembled (simulated).

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 11

TO: OSC Controller

TIME: 07:30+

T: 01/00+

ANTICIPATED RESPONSE:

Return personnel to work. Inform Emergency Facilities Services Manager of the number of people who have assembled.

INSTRUCTIONS:

Give this Cue Card to each Assembly Area Coordinator in the Protected Area.

1. PSF 1st Floor: approximately 23 minutes after the ALERT Gai-tronic announcement.
2. PSF 3rd Floor: approximately 28 minutes after the ALERT Gai-tronic announcement.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise

CUE CARD NO. 12x

TO: Emergency Director
(Shift Supervisor at Simulator)

TIME: 07:45

T: 01/15

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Declare an ALERT in accordance with EAL 1.B.2.

An ALERT must be declared at this time in order to keep the Exercise sequence of events on schedule.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 12x

TO: Lead Exercise Controller

TIME: 07:45

T: 01/15

ANTICIPATED RESPONSE:

Shift Supervisor will declare an ALERT and carry out actions per procedure RA-EP-01700.

INSTRUCTIONS:

Provide this Cue Card to the CRS Shift Supervisor only if an ALERT has not been declared by this time. If an ALERT has already been declared, then disregard this message.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 13

TO: Control Room Staff TIME: 09:00

T: 02/30

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Perform the following actions when directed by the Lead Exercise Controller and informed that a SITE AREA EMERGENCY has been declared.

Announce "THIS IS A DRILL, THIS IS A DRILL."

Sound the Initiate Emergency Procedures Alarm. Make the following announcement:

"THIS IS A DRILL, THIS IS A DRILL.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: A SITE AREA EMERGENCY HAS BEEN DECLARED. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. ALL NONESSENTIAL PERSONNEL WITHIN THE PROTECTED AREA EVACUATE TO THE TRAINING CENTER ASSEMBLY AREA IMMEDIATELY.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: A SITE AREA EMERGENCY HAS BEEN DECLARED. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. ALL NONESSENTIAL PERSONNEL WITHIN THE PROTECTED AREA EVACUATE TO THE TRAINING CENTER ASSEMBLY AREA IMMEDIATELY.

THE SITE AREA EMERGENCY IS DUE TO A FUEL HANDLING ACCIDENT IN THE SPENT FUEL POOL.

THIS IS A DRILL."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 13

TO: Control Room Controller and
PPF Assembly Area Controller

TIME: 09:00

T: 02/30

ANTICIPATED RESPONSE:

A Control Room staff member can sound the alarm and make the announcements.

INSTRUCTIONS:

For Control Room Controller:

1. Make this announcement when contacted by a Simulator Controller. This contact may occur as early as 08:55 or as late as 09:25.
2. Coordinate this action with the real Shift Supervisor.

For PPF Assembly Area Controller:

1. As non-essential personnel exit the Personnel Processing Facility, direct them to assemble in the PPF Parking Lot instead of the Training Center.

2. Once accountability is completed, release the assembled personnel to return to their normal work locations.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 14

TO: Control Cell TIME: 09:00

T: 02/30

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Inform the Emergency Facilities Service Manager (EFSM):

Note: Take 2-5 minutes between phone calls from Assembly Area coordinators to the ESFM.

1. "This is the Training Center Assembly Area Coordinator, an additional 236 individuals have arrived (simulated) at the Training Center from the Protected Area."

2. "This is the DBAB 1st floor Assembly Area Coordinator, 36 individuals have arrived (simulated) to this Assembly Area."

3. "This is the DBAB 2nd floor Assembly Area Coordinator, 52 individuals have arrived (simulated) to this Assembly Area."

4. "This is the DBAB Annex Assembly Area Coordinator, 76 individuals have arrived (simulated) to this Assembly Area."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 14

TO: Control Cell

TIME: 09:00

T: 02/00

ANTICIPATED RESPONSE:

The Emergency Offsite Manager is informed of the assembly status.

INSTRUCTIONS:

1. Issue this Cue Card after the Training Center Assembly Area Coordinators have reported their initial assembly numbers.

2. Phone calls from DBAB and DBAB Annex Assemble Area Coordinators to ESFM should start approximately 15 minutes after the SITE AREA EMERGENCY Gai-tronic announcement.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 15x

TO: Emergency Director (at ECC) TIME: 09:15

T: 02/45

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Declare a SITE AREA EMERGENCY in accordance with EAL 6.B.2.

A SITE AREA EMERGENCY must be declared at this time in order to keep the Exercise sequence of events on schedule.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 15X

TO: Emergency Director Controller

TIME: 09:15

T: 02/45

ANTICIPATED RESPONSE:

Emergency Director will declare a SITE AREA EMERGENCY and carry out actions per procedure RA-EP-01800.

INSTRUCTIONS:

Provide this Cue Card to the Emergency Director only if a SITE AREA EMERGENCY has not been declared by this time. If a SITE AREA EMERGENCY has already been declared, then disregard this message.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 16

TO: Victim TIME: 10:00

T: 03/30

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Using the following information to answer questions the person finding you have.

°Victim's name:_____, Supervisor - _____

°Victim status:
1. Contusion to the right side of their forehead
2. Bruised right elbow
3. Laceration to the right knee
4. Conscious and alert, but disoriented
5. Chief complaint: pain in right knee

°Victim is requesting to be transported to Fremont Memorial Hospital.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 16

TO: First Aid Team Controller

TIME: 10:00

T: 03/30

ANTICIPATED RESPONSE:

First Aid Team is notified and responds to the scene.

INSTRUCTIONS:

Fill in the Player's (victim's) name and his Supervisor's name during setup the morning of the Exercise. This will ensure the badge information matches the Cue Card.

Use this Cue Card to initiate the Medical Drill, then utilize the data provided in Section 8.7 to play through the events that will follow.

Note: Mid-County EMS should respond to transport the victim.
Note: Although H. B. Magruder Hospital is the primary hospital facility identified in the procedure, for purposes of the Exercise, Fremont Memorial Hospital will receive and treat the victim.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 17

TO: Control Room Staff TIME: 10:01

T: 03/31

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Perform the following actions when directed by the Lead Exercise Controller and informed that a medical emergency has been declared.

Announce: "THIS IS A DRILL, THIS IS A DRILL."

Sound the Initiate Emergency Procedures Alarm. Make the following announcement:

"THIS IS A DRILL, THIS IS A DRILL."

ATTENTION STATION PERSONNEL; ATTENTION ALL STATION PERSONNEL; A MEDICAL EMERGENCY EXISTS AT THE LOW LEVEL RADWASTE STORAGE FACILITY. FIRST AID TEAM REPORT TO THE LOW LEVEL RADWASTE STORAGE FACILITY.

ATTENTION STATION PERSONNEL; ATTENTION ALL STATION PERSONNEL; A MEDICAL EMERGENCY EXISTS AT THE LOW LEVEL RADWASTE STORAGE FACILITY. FIRST AID TEAM REPORT TO THE LOW LEVEL RADWASTE STORAGE FACILITY.

THIS IS A DRILL".

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 17

TO: Control Room Controller

TIME: 10:01

T: 03/31

ANTICIPATED RESPONSE:

A Control Room staff member can sound the alarm and make the announcement.

INSTRUCTIONS:

1. Make this announcement when contacted by a Simulator Controller. This contact may occur as early as 10:00 or as late as 10:25.
2. Coordinate this action with the real Shift Supervisor.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 18

TO: CAS/SAS Operator TIME: 10:20

T: 03/50

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

DO NOT USE 9-1-1.

Call the Oak Harbor Police Department Dispatcher at 898-2055 to report the simulated medical emergency.

Do NOT contact the victim's family.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 18

TO: CAS/SAS Controller

TIME: 10:20

T: 03/50

ANTICIPATED RESPONSE:

Player will call Oak Harbor Police Dispatcher on non-emergency number.

INSTRUCTIONS:

1. Give this Cue Card to the player when he/she attempts to call Oak Harbor Police Dispatcher.

2. Normally 9-1-1 would be used, however, a non-emergency telephone number will be used. Priority at the Oak Harbor Police Department will be directed to real emergencies.

3. Mid-County EMS should respond to transport the victim.
   Note: If Mid-County EMS cannot respond, notify the Lead Exercise Controller.

4. Although H. B. Magruder Hospital is the primary hospital facility identified in the procedure, for purposes of the Exercise, Fremont Memorial Hospital will receive and treat the victim.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 19

TO: CAS/SAS Operator TIME: 10:30

T: 04/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Notify Fremont Memorial Hospital at 332-7321 with the following information:

"THIS IS A DRILL. THIS IS A DRILL.

A SIMULATED MEDICAL EMERGENCY HAS OCCURRED INSIDE THE PROTECTED AREA AT THE DAVIS-BESSE NUCLEAR POWER STATION. AN AMBULANCE FROM MID-COUNTY EMS WILL BE TRANSPORTING A CONTAMINATED/INJURED PERSON TO FREMONT MEMORIAL HOSPITAL.

THIS IS A DRILL."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 19

TO: CAS/SAS Controller

TIME: 10:30

T: 04/01

ANTICIPATED RESPONSE:

Upon getting the word of the victim's request, the CAS/SAS Operator notifies Fremont Memorial Hospital.

INSTRUCTIONS:

1. They should only perform this action after being contacted by Station personnel that the victim is requesting Fremont Hospital.

2. Controller should ensure that only Fremont Memorial Hospital is contacted.

Note: Although H. B. Magruder Hospital is the primary hospital facility identified in the procedure, for purposes of the Exercise, Fremont Memorial Hospital will receive and treat the victim.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 20

TO: Simulator Reactor Operator TIME: 12:40+

T: 06/10+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

HIS HP2B, HP2B control switch, feels warm to the touch.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 20

TO: Simulator Controller

TIME: 12:40+

T: 06/10+

ANTICIPATED RESPONSE:

Call the OSC to investigate why HP2B is warm.

INSTRUCTIONS:

1. Provide this Cue Card to the Reactor Operator.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 21

TO: Control Room Staff TIME: 12:40

T: 06/10

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Perform the following actions when directed by the Lead Exercise Controller and informed that a GENERAL EMERGENCY has been declared.

Announce: "THIS IS A DRILL, THIS IS A DRILL.

Sound the Initiate Emergency Procedure alarm. Make the following announcement:

"THIS IS A DRILL.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL; A GENERAL EMERGENCY HAS BEEN DECLARED. NO EATING, DRINKING OR SMOKING UNTIL FURTHER NOTICE. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. OWNER CONTROLLED AREA EVACUATION IS BEING SIMULATED.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL; A GENERAL EMERGENCY HAS BEEN DECLARED. NO EATING, DRINKING OR SMOKING UNTIL FURTHER NOTICE. ALL MEMBERS OF THE ONSITE EMERGENCY ORGANIZATION REPORT TO YOUR DESIGNATED EMERGENCY RESPONSE FACILITIES. OWNER CONTROLLED AREA EVACUATION IS BEING SIMULATED.

THE GENERAL EMERGENCY IS DUE TO:

1) LOSS OF 2 OF THE 3 FISSION PRODUCT BARRIERS.

OR

2) PROJECTED RADIATION LEVELS AT THE SITE BOUNDARY

NOTE: ONLY ANNOUNCE THE ONE THAT IS APPLICABLE.

THIS IS A DRILL".

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 21

TO: Control Room Controller

TIME: 12:40

T: 06/10

ANTICIPATED RESPONSE:

A Control Room staff member can sound the alarm and make the announcement.

INSTRUCTIONS:

1. Make this announcement when contacted by a Simulator Controller. This contact may occur as early as 12:20 or as late as 12:50.
2. Coordinate this action with the real Shift Supervisor.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 22

TO: Emergency Director, Emergency Plant Manager, Emergency Offsite Manager, and Emergency Security Manager

TIME: 12:40+

T: 06/10+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

1. OFFSITE EVACUATION IS BEING SIMULATED.
2. Perform your actions in accordance with the applicable procedure.
3. DO NOT MAKE ANY PUBLIC ANNOUNCEMENTS OF THE EVACUATION.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 22

TO: ECC Controller, TSC Controller, Security Controller

TIME: 12:40+

T: 06/10+

ANTICIPATED RESPONSE:

Perform actions for site evacuation.

INSTRUCTIONS:

1. Allow PLAYERS to perform their actions in accordance with applicable procedure. DO NOT allow them to make an announcement concerning Site Evacuation.

   NOTE: Cue Card #20 identifies the OCA evacuation is being simulated.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 23

TO: ECC Equipment Operator TIME: 12:40+

T: 06/10+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

With the exception of 1107, 1211, 1401, and 8903, all siren lights indicate green.

Sirens 1107, 1211, 1401, and 8903 lights indicate white.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 23

TO: ECC Controller

TIME: 12:40+

T: 06/10+

ANTICIPATED RESPONSE:

ECC Equipment Operator checks Siren Status Map for siren activation.

INSTRUCTIONS:

1. Give this Cue Card out after the ECC Equipment Operator checks the Siren Status Map.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 24

TO: ECC Equipment Operator TIME: 12:40+

T: 06/10+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Status Logger Printout indicates:

DATE	TIME	TYPE	DTMF MESSAGE	MESSAGE DESCRIPTION
09-20-95	NOW	TR	0911107C	STATUS REQUEST
09-20-95	NOW	RC	0911107DDDD	INTRUSION OFF AC OFF M1 OFF M2 OFF M3 OFF 0 VOLTS
09-20-95	NOW	TR	0911211C	STATUS REQUEST
09-20-95	NOW	RC	0911211DDDD	INTRUSION OFF AC OFF M1 OFF M2 OFF M3 OFF 0 VOLTS
09-20-95	NOW	TR	0911401C	STATUS REQUEST
09-20-95	NOW	RC	0911401DDDD	INTRUSION OFF AC OFF M1 OFF M2 OFF M3 OFF 0 VOLTS
09-20-95	NOW	TR	0918903C	STATUS REQUEST
09-20-95	NOW	RC	0918903DDDD	INTRUSION OFF AC OFF M1 OFF M2 OFF M3 OFF 0 VOLTS

(ALL OTHER SIRENS INDICATE)

09-20-95	NOW	TR	SIREN NO. C	STATUS REQUEST
09-20-95	NOW	RC	SIREN NO. DC68	INTRUSION OFF AC ON M1 ON M2 ON M3 ON 115 VOLTS

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 24

TO: ECC Controller

TIME: 12:40+

T: 08/10+

ANTICIPATED RESPONSE:

ECC Equipment Operator will, upon request, print out the Status Logger Printout.

INSTRUCTIONS:

1. If printout is requested, provide Cue Card.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 25x

TO: Emergency Director (at ECC) TIME: 12:55

T: 06/25

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Declare a GENERAL EMERGENCY in accordance with EAL 1.C.1.

A GENERAL EMERGENCY must be declared at this time in order to keep the Exercise sequence of events on schedule.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 25x

TO: Emergency Director Controller

TIME: 12:55

T: 06/25

ANTICIPATED RESPONSE:

Emergency Director will declare a GENERAL EMERGENCY and carry out actions per procedure RA-EP-01800.

INSTRUCTIONS:

Provide this Cue Card to the Emergency Director only if a GENERAL EMERGENCY has not been declared by this time. If a GENERAL EMERGENCY has already been declared, the disregard this message.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 26X

TO: Dose Assessment Coordinator TIME: 14:30

T: 08/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Estimate the Total Population Exposure.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 26X

TO: ECC Controller

TIME: 14:30

T: 08/00

ANTICIPATED RESPONSE:

Use HP-EP-02240, Offsite Dose Assessment, Attachment 8, to estimate total population dose.

INSTRUCTIONS:

1. Provide this Cue Card if total population dose estimates are not started.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 27x

TO: Emergency Director TIME: 14:30

T: 08/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

For purposes of the Exercise, begin declassification discussions at this time.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 27x

TO: ECC Controller

TIME: 14:30

T: 08/00

ANTICIPATED RESPONSE:

Players review current plant conditions and consider down-grading the classification through discussion with the TSC staff.

INSTRUCTIONS:

If declassification discussions have already been initiated, do not issue this message.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 28

TO: Emergency Director TIME: 15:30

T: 09/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

At the minimum, the following individuals should attend the recovery meeting in DBAB Rooms 209/210

- Emergency Director
- Emergency Plant Manager
- Emergency RP Manager
- Emergency Security Manager
- Company Spokesperson Representative *
- Recovery Advisor
- Emergency Offsite Manager
- TSC Engineering Manager
- Dose Assessment Coordinator
- OSC Manager
- NRC Liaison
- Emergency Assistant Plant Manager

* Due to the distance to the JPIC, for purposes of the Exercise, an alternate to the Company Spokesperson will be present at the recovery meeting.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 28

TO: ECC Controller

TIME: 15:30

T: 09/00

ANTICIPATED RESPONSE:

The preliminary reentry/recovery meeting is held.

INSTRUCTIONS:

Issue this Cue Card to limit the extent of reentry/recovery activities.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 29

TO: Control Room Staff TIME: 15:30

T: 09/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

The DBNPS 1995 Emergency Exercise has been completed. Make the following Gai-Tronics announcement:

"ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL: THE 1995 EMERGENCY EXERCISE HAS ENDED.

ATTENTION ALL PERSONNEL, THE 1995 EMERGENCY EXERCISE HAS ENDED. REGARD ALL FUTURE ALARMS AND ANNOUNCEMENTS."

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 29

TO: Control Room Controller

TIME: 15:30

T: 09/00

ANTICIPATED RESPONSE:

A Control Room staff member should make the announcement.

INSTRUCTIONS:

1. Make this announcement when contacted by the Lead Exercise Controller.
2. Gather all materials used during the Exercise and return it to the Lead Exercise Controller.
3. If instructed by the Lead Exercise Controller, have a Control Room staff member contact the NRC via the red phone to inform the NRC that the Exercise activities for Davis-Besse have ended for the day.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. 30

TO: All Facility Managers TIME: 15:30

T: 09/00

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

The DBNPS 1995 Exercise has ended. Do not erase the status boards. Players associated with and located outside the facility should be contacted and directed to return to the facility. Take a short break, however, during this time, instruct Players that if they have any comments or recommendations to write them down so they can be discussed during the critique and forwarded to Emergency Preparedness.

Once everyone has returned to the facility, conduct a critique. Refer to the status boards as necessary to review specific conditions or situations.

When the critique is over, erase the status boards and gather all facility logs and report forms for the Lead Controller.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. 30

TO: All Controllers

TIME: 15:30

T: 09/00

ANTICIPATED RESPONSE:

The Exercise ends and facility critiques are performed.

INSTRUCTIONS:

1. Stop the Exercise play when directed by the Lead Exercise Controller.
2. Ensure individuals involved with reentry/recovery discussions are sent to Rooms 209/210 per Cue Card No. 19.
3. Ensure all facility logs and report forms are returned to the Emergency Preparedness Group.
4. All Exercise-related forms (i.e., Attendance Sheets, Drill Phone List, Data Sheets, etc.) should be removed from the facilities so that they don't get mixed in with the real forms and procedures.
5. All radiological equipment (i.e., dosimeters, TLDs, survey meters, etc.) should be returned to their storage location, and properly placed in storage.
6. Wall status boards should be erased and any chairs, tables or other miscellaneous equipment used during the Exercise should be returned to their original condition or location.

****

THIS IS A DRILL

****

7.2 PLANT PARAMETERS SUMMARY

This section provides plant equipment parameter indications in a tabular format for ease of review and for ease of locating a particular instrument reading in a timely manner.

PAGES 7-64 THROUGH 7-70 ARE RESERVED FOR PLANT PARAMETER SUMMARY

7.3 PLANT PARAMETERS SHEETS

This section provides individual Control Room parameter data sheets to be out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

PAGES 7-72 THROUGH 7-110 ARE RESERVED FOR PLANT PARAMETER SHEETS

7.4 CONTROL ROOM ALARM PANELS

This section provides individual Control Room annunciator alarm sheets to be passed out to Players in the event the Control Room Simulator becomes unavailable to conduct the Exercise.

If the Simulator is running, it will automatically provide all operational alarms as events progress. Controllers should not provide hardcopy or verbal alarm data to the Players as long as the Simulator is running. Players should respond to the alarm conditions as they would normally.

If the Simulator should malfunction however, during the course of the Exercise, Controllers are then permitted to release the data provided in this section.

CONTROL ROOM ALARM DATA SHEET - TIME 0705

2

	LETDOWN / MAKEUP			BA
1	R785 LETDOWN RAD HI	P736 MU PMP 1 LUBE OIL PRESS LO	P760 MU PMP 2 LUBE OIL PRESS LO	T032 BA ADD TK 1 TEMP
2	P720 LETDOWN PRESS HI	M L760 MU TK LVL HI	M L762 MU TK LVL LO	T034 BA ADD TK 2 TEMP
3	M T715 LETDOWN TEMP HI	P764 MU TK PRESS HI	P765 MU TK PRESS LO	T037 BA HEATED ROOM TEMP LO
4	M P718 LETDOWN OR MU FILT DELTA P HI	F739 MU FLOW HI TRN 1	F741 MU FLOW HI TRN 2	L033 BA ADD TK 1 LVL
5			F737 BATCH MU FLOW HI	L035 BA ADD TK 2 LVL
6				
	A (1)	B (2)	C (3)	D (4)

In Alarm

CONTROL ROOM ALARM DATA SHEET - TIME 0855

9 - PLANT SERVICES

	VENT	WTR	HEATING		AIR		FIRE
1	M R346 CREVS TRAIN 1 RAD HI	M Q990 DEMIN WTR STRG TK 2 TRBL		M Q010 AUX BLR TRIP	M Q976 STA AIR CMPSR 1 TRIP	P500 INSTR AIR HDR PRESS LO	M Q978 FIRE OR RADIATION TRBL ← In Alarm
2	M R347 CREVS TRAIN 2 RAD HI	M Q992 STA DEMIN WTR TREATMENT SYS TRBL		M Q009 AUX BLR SYS TRBL	M Q977 STA AIR CMPSR 2 TRBL/TRIP	M Q405 EMER INSTR AIR CMPSR TRBL/TRIP	Q442 FIRE WTR ELEC PMP ON
3	M R840 UNIT VENT RAD HI R	M Q991 STA WTR PRE-TREATMENT SYS TRBL		M L020 AUX BLR DRUM LVL	P939 STA AIR HDR PRESS LO	T390 EMER INSTR AIR CMPSR AFTCLR TEMP HI	Q440 FIRE WTR DSL PMP ON
4	M R900 VAC SYS DISCH RAD HI		T912 HW HTG SUPPLY LINE TEMP LO	M L024 AUX STM CNDS TKS/ FLASH TK LVL HI	T910 STA AIR CMPSR 1 AFTCLR TEMP HI	M Q975 INSTR AIR DRYER TRBL	M Q441 FIRE WTR DSL PMP SYS TRBL
5	T945 LAB HOOD EXH FILT TEMP HI		M F680 HW HTG SUPPLY LINE FLOW	M L379 DSL OIL STRG TK LVL	T911 STA AIR CMPSR 2 AFTCLR TEMP HI	P706 N2 HDR PRESS	P431 FIRE WTR TURB BLDG PRESS LO
6			T936 SEC HW HTG RECIRC HX OUTLET TEMP HI	M L701 NEW LUBE OIL STRG TK LVL		T411 FIRE WTR STRG TK TEMP LO	L431 FIRE WTR STRG TK LVL
	A (1)	B (2)	C (3)	D (4)	E (5)	F (6)	G (7)

ALARM PANEL 9

CONTROL ROOM ALARM DATA SHEET - TIME 1215

4

In Alarm

	CTMT	RX COOLANT		PZR	
1	M R300 CTMT RAD HI R	T736 SUBCOOL MARGIN LO		Z768 PZR RLF VLV OPEN	L770 PZR LO LVL HTR TRIP
2	M P310 CTMT PRESS HI R	T706 HOT LEG TEMP HI	F716 HOT LEG TOTAL FLOW LO	P710 PZR QUENCH TK PRESS HI	L771 PZR LVL LO
3	M L319 CTMT NORM SUMP LVL HI R	F726 LOOP 1 HOT LEG FLOW LO	F733 LOOP 2 HOT LEG FLOW LO	L704 PZR QUENCH TK LVL HI	L767 PZR LVL HI
4	M P319 CTMT TO ANNULUS DELTA P HI/LO	M P723 HOT LEG PRESS HI	M P731 HOT LEG PRESS LO	L705 PZR QUENCH TK LVL LO	M Q764 PZR HTR SOURCE FAULT R
5	P320 CTMT PURGE EXH FILT DELTA P HI	M L795 RCS LVL LO / LO-LO R	T712 LOOP 1 VS 2 COLD LEG DELTA T HI		
6	Z296 CTMT EMER LOCK OPEN				
	A (1)	B (2)	C (3)	D (4)	E (5)

ALARM PANEL 4

CONTROL ROOM ALARM DATA SHEET - TIME 1225

9 - PLANT SERVICES

	VENT	WTR	HEATING		AIR		FIRE
1	M R346 CREVS TRAIN 1 RAD HI	M Q990 DEMIN WTR STRG TK 2 TRBL		M Q010 AUX BLR TRIP	M Q976 STA AIR CMPSR 1 TRIP	P500 INSTR AIR HDR PRESS LO	M Q978 FIRE OR RADIATION TRBL
2	M R347 CREVS TRAIN 2 RAD HI	M Q992 STA DEMIN WTR TREATMENT SYS TRBL		M Q009 AUX BLR SYS TRBL	M Q977 STA AIR CMPSR 2 TRBL/TRIP	M Q405 EMER INSTR AIR CMPSR TRBL/TRIP	Q442 FIRE WTR ELEC PMP ON
In Alarm → 3	M R840 UNIT VENT RAD HI R	M Q991 STA WTR PRE-TREATMENT SYS TRBL		M L020 AUX BLR DRUM LVL	P939 STA AIR HDR PRESS LO	T390 EMER INSTR AIR CMPSR AFTCLR TEMP HI	Q440 FIRE WTR DSL PMP ON
4	M R900 VAC SYS DISCH RAD HI		T912 HW HTG SUPPLY LINE TEMP LO	M L024 AUX STM CNDS TKS/ FLASH TK LVL HI	T910 STA AIR CMPSR 1 AFTCLR TEMP HI	M Q975 INSTR AIR DRYER TRBL	M Q441 FIRE WTR DSL PMP SYS TRBL
5	T945 LAB HOOD EXH FILT TEMP HI		M F880 HW HTG SUPPLY LINE FLOW	M L379 DSL OIL STRG TK LVL	T911 STA AIR CMPSR 2 AFTCLR TEMP HI	P706 N2 HDR PRESS	P431 FIRE WTR TURB BLDG PRESS LO
6			T936 SEC HW HTG RECIRC HX OUTLET TEMP HI	M L701 NEW LUBE OIL STRG TK LVL		T411 FIRE WTR STRG TK TEMP LO	L431 FIRE WTR STRG TK LVL
	A (1)	B (2)	C (3)	D (4)	E (5)	F (6)	G (7)

ALARM PANEL 9

8.0 IN-PLANT RADIOLOGICAL, RADIOCHEMISTRY AND MEDICAL DATA

This section provides in-plant and site dose rate information, radiochemistry and post accident sampling information, and medical information for Controller use during site emergency response team missions.

8.1 IN-PLANT RADIATION MONITORS SUMMARY

This section provides radiation monitor indications in a tabular format for ease of review and for ease of locating a particular monitor's reading in a timely manner.

8.2 RADIATION ELEMENT (RE) DATA SHEETS

This section provides individual radiation monitor data sheets to be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

8.3 PLANT RADIATION MAPS

This section provides Controller guidance to any In-plant Controller who may be sent out with a Player during the conduct of the Exercise. The maps display radiation levels based on time in the event for all locations within the plant.

8.4 RADIOCHEMISTRY DATA SUMMARY

This section provides radiochemistry data in a tabular format for ease of review and for ease of evaluating the content assumed for a specific radionuclide.

8.5 RADIOCHEMISTRY DATA SHEETS

This section provides individual radiochemistry data sheets to be passed out to Players during predesignated time frames should the identified samples be taken during conduct of the Exercise.

8.6 POST ACCIDENT SAMPLING DATA (PASS)

Post Accident Sampling is not an Exercise Objective.

8.7 MEDICAL DRILL DATA

This section provides information for Controllers to use when monitoring Player activities during the medical emergency.

8.8 MEDICAL DRILL CUE CARDS

This section provides Cue Cards that will be needed to provide medical information to Players who are responding to the medical emergency.

8.1 IN-PLANT RADIATION MONITORS SUMMARY

This section provides values of the in-plant fixed radiation monitors for Controller use when simulating accident radiation conditions. This information was developed in conjunction with the Plant Simulator for consistency of data.

PAGES 8-3 THROUGH 8-12 ARE RESERVED FOR IN-PLANT RADIATION MONITOR SUMMARY

8.2 RADIATION ELEMENT (RE) DATA SHEETS

This section provides individual radiation monitor data sheets to be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

These data sheets should only be used when directed by the Lead Exercise Controller.

PAGES 8-14 THROUGH 8-50 ARE RESERVED FOR RE DATA SHEETS

8.3 PLANT RADIATION MAPS

The radiation data sheets in Section 8.2 contain "fixed" monitor data relative to the radiation monitor display panels located at the Control Room Simulator. In this section, the fixed monitor readings are correlated to the "general area" readings which would be seen by emergency response team members with survey meters.

The readings are presented on plant maps for ease of use by Controllers. A map is provided for each elevation where response teams may be dispatched. This includes:

- Auxiliary Building elevations 545′, 565′, 585′, 603′, 623′ & 643′
- Turbine Building elevations 567′, 585′, 603′, 623′
- Protected Area ground elevation

If the Players go inside #2 Mechanical Penetration Room (MPR), #4 MPR, or #2 Emergency Core Cooling Room, the Controller should use the following guidelines:

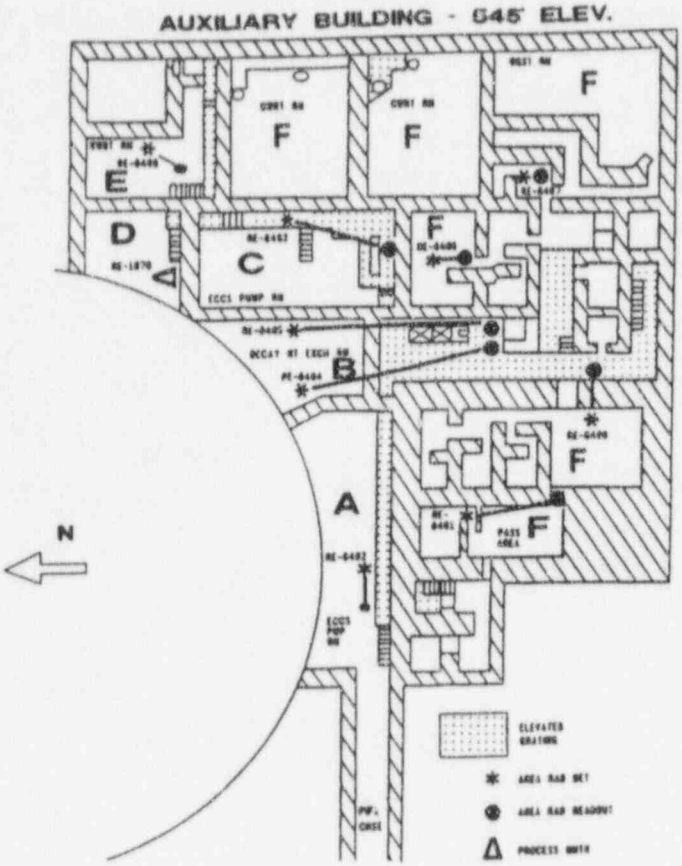
- Open and closed window readings will be different. The open window reading in these rooms should be given as a factor of 2 higher than the readings shown on the plant radiation maps in this section.
- All collected and analyzed air samples taken within these rooms will have results consistent with data provided on the radiation maps.
- Results from contamination surveys (i.e., swipes) performed within these areas will be consistent with the data provided on the radiation maps with interpolation based on location and Controller judgement.

For all other areas of the plant, Controllers should use the following guidelines when transmitting radiological information to the Players:

- All open and closed window readings will be the same.
- All collected and analyzed air samples taken within the plant will have results of "as read".
- All results from contamination surveys (i.e., swipes) performed within the plant (but outside the Mechanical Penetration Rooms) will be "as read".

Dosimeter readings can be extrapolated by taking the time an individual remains in an area, times the dose rate from the corresponding time block for the area, plus any additional exposure data if the individual was in any other area for approximately 15 minutes or greater. Controllers should not overload themselves with this calculation. If time does not permit a quick extrapolation to be performed, Controllers can simply raise the Player's dosimeter reading by a small amount over their previous reading (e.g., 10mR) for Exercise simulation purposes.

8.3 PLANT RADIATION MAPS (con't)



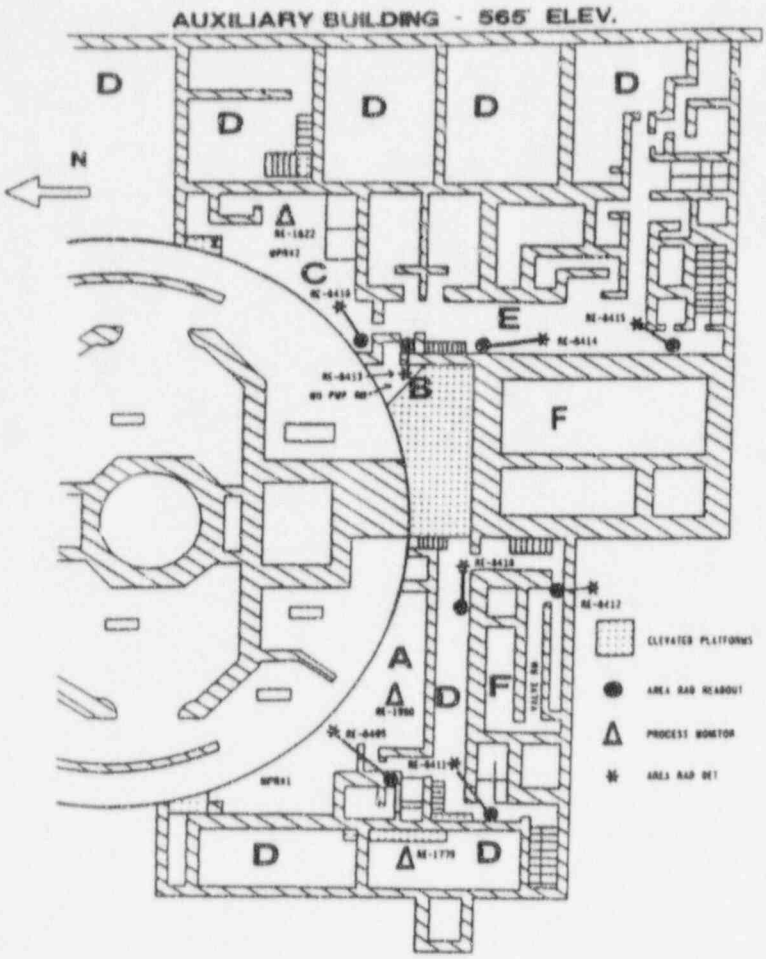
1. DOSE RATE INFORMATION — AUXILIARY BUILDING - 545' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0630-1230	As Read	As Read	As Read	As Read	As Read	As Read	1. 1225 Pipe break in #2 MPR.
1230-1245	As Read	As Read	1000-1250	As Read	As Read	As Read	
1245-1300	As Read	As Read	1000-1350	100-200	3000	As Read	2. EVS draws radioactivity through #4 MPR through
1300-1330	4-5	5-6	1250-2500	100-200	6000-10000	As Read	annulus.
1330-1430	7-8	6-9	3500	100-200	12000-19000	As Read	3. SFP accident rad levels remain constant
1430-1500	7-8	8-9	1500-850	100-200	19000	As Read	for duration of scenario.
1500-1630	7-8	9-9	200-100	100-50	19000	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1230	As Read	As Read	As Read	As Read	
1230-1315	5.4E-4	6.0E-5	6.9E-7	As Read	
1315-1330	1.0E-2	2.5E-4	1.0E-6	As Read	
1330-1345	1.52	6.8E-2	3.8E-6	As Read	
1345-1400	1.52	6.8E-2	4.0E-5	As Read	
1400-1430	1E-1	5.6E-5	7.2E-6	As Read	
1430-1500	6.3E-2	4.3E-2	9.0E-7	As Read	

8.3 PLANT RADIATION MAPS (con't)



1. DOSE RATE INFORMATION — AUXILIARY BUILDING - 565' ELEVATION

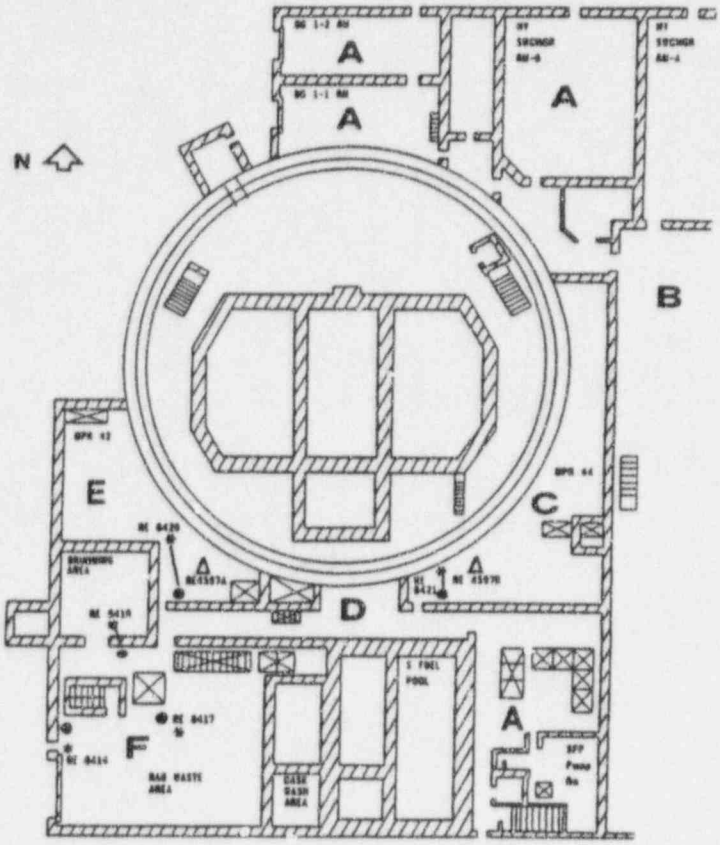
Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0630-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	1000-1100	8300-8400	As Read	1250-1550	As Read	
1300-1400	300-600	1100	8400-8500	As Read	1500	As Read	
1400-1430	600-700	1100	8400-1500	As Read	1550-400	As Read	Leak in #2 MPR terminated at 1400.
1430-1500	700	300-100	1500-250	As Read	400-50	As Read	
1500-1600	700	As Read	250-7	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1230	As Read	As Read	As Read		Levels in #2 MPR
1230-1315	6.3E-1	7.2E-5	8.1E-7		
1315-1330	1.2E-2	4.0E-4	3.4E-6		
1330-1345	1.52	6.8E-2	3.8E-6		
1345-1400	1.52	6.8E-2	4.0E-5		
1400-1430	1.0E-1	5.6E-3	7.2E-6		
1430-1500	6.3E-2	4.3E-2	9.0E-7		

8.3 PLANT RADIATION MAPS (con't)

AUXILIARY BUILDING - 585' ELEV.



1. DOSE RATE INFORMATION

AUXILIARY BUILDING - 585' ELEVATION

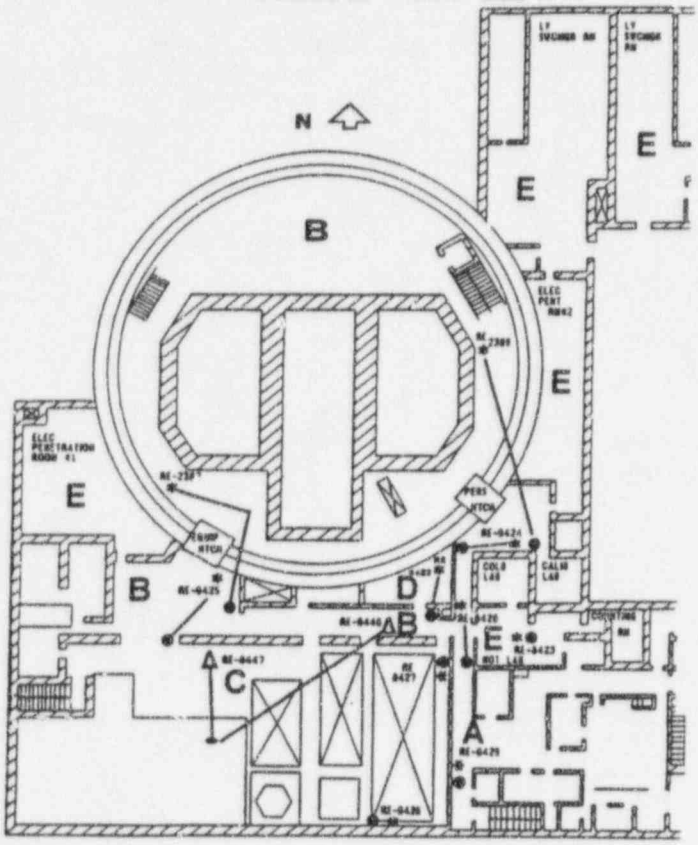
Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0630-0900	As Read	As Read	As Read	As Read	As Read	As Read	
0900-1230	As Read	As Read	As Read	5-10	As Read	100-110	SFP accidents occurs @ 0850
1230-1300	As Read	As Read	<000-4200	100-150	As Read	100-110	
1300-1400	As Read	As Read	4200-4100	100-150	2-5	100-110	Pipe break in S2 MPR occurs @ 1225
1400-1430	As Read	As Read	4100-1000	150-50	5-7	100-110	
1430-1500	As Read	As Read	1000-100	5-10	5-7	100-110	
1500-1600	As Read	As Read	100-7	5-10	5-7	100-110	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1230	As Read	As Read	As Read	As Read	Levels in S4 MPR
1230-1315	8.2E-05	4.1E-07	1.0E-09		
1315-1330	2.5E-03	1.3E-05	3.3E-08		
1330-1345	3.2E-02	1.6E-04	4.0E-07		
1345-1400	1.0E-02	5.0E-05	1.3E-07		
1400-1420	1.0E-03	5.0E-06	1.3E-08		
1430-1500	2.5E-04	1.3E-06	3.3E-09		

8.3 PLANT RADIATION MAPS (con't)

AUXILIARY BUILDING - 603' ELEV.



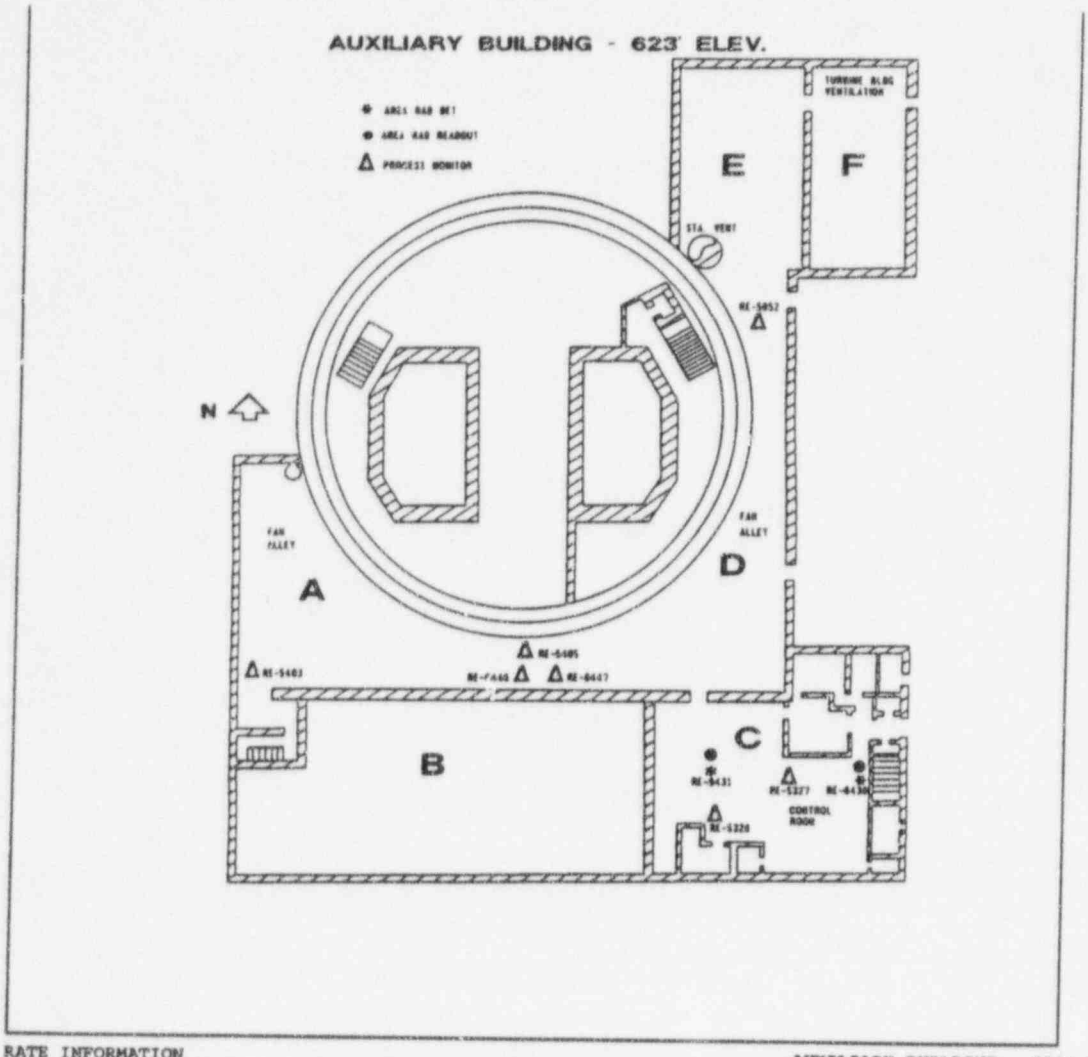
1. DOSE RATE INFORMATION — AUXILIARY BUILDING - 603' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0630-0900	As Read	As Read	As Read	As Read	As Read	N/A	SFP accident occurs @ 0650
0900-1600	125	1000	7000	75	As Read	N/A	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1230	As Read	As Read	As Read	As Read	
1230-1315	3.58	As Read	As Read	As Read	
1315-1330	3.58	As Read	As Read	As Read	
1330-1345	3.58	As Read	As Read	As Read	
1345-1400	3.58	As Read	As Read	As Read	
1400-1430	3.58	As Read	As Read	As Read	
1430-1500	3.58	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)



1. DOSE RATE INFORMATION

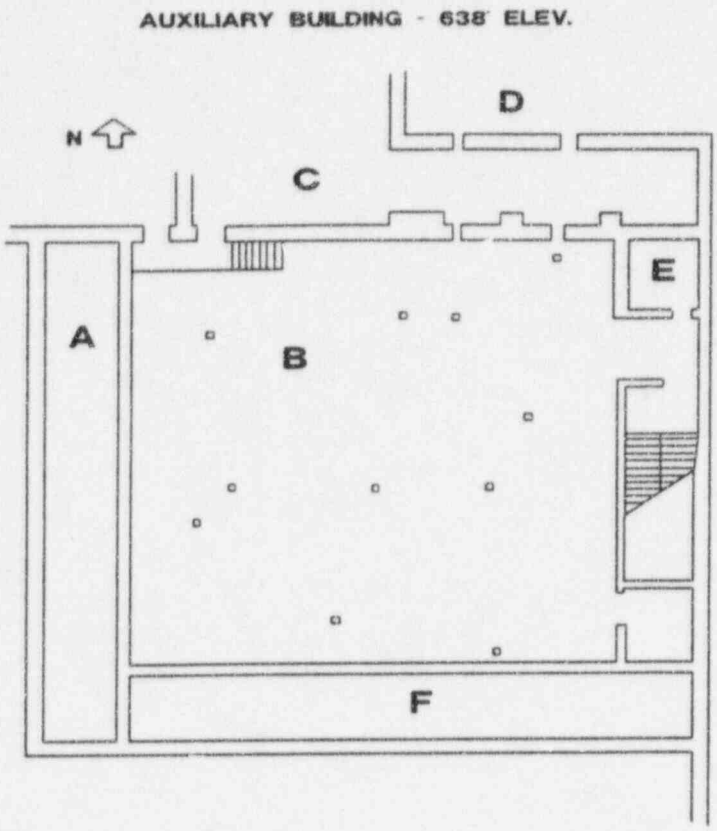
AUXILIARY BUILDING - 623' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	As Read	As Read	As Read	5-450	As Read	At 1230 rad increases near Station Vent from
1300-1400	As Read	As Read	As Read	As Read	450	As Read	shine as release begins.
1400-1500	As Read	As Read	As Read	As Read	450-2	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read		

8.3 PLANT RADIATION MAPS (con't)



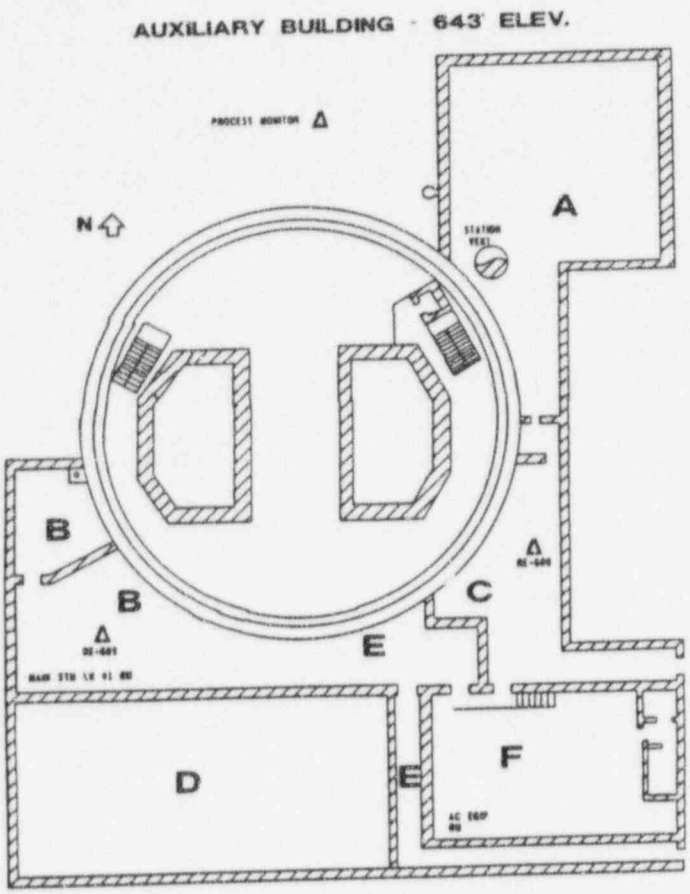
1. DOSE RATE INFORMATION — AUXILIARY BUILDING - 638' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	
1300-1400	As Read	As Read	As Read	As Read	As Read	As Read	
1400-1500	As Read	As Read	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)



AUXILIARY BUILDING - 643' ELEVATION

1. DOSE RATE INFORMATION

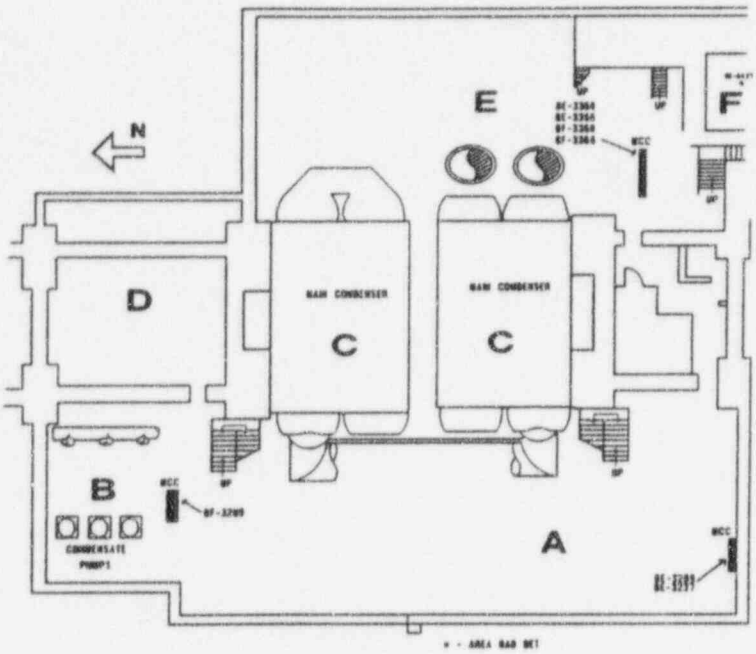
Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	
1300-1400	5-450	As Read	As Read	As Read	As Read	As Read	
1400-1500	450-2	As Read	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)

TURBINE BUILDING - 567' ELEV.



1. DOSE RATE INFORMATION

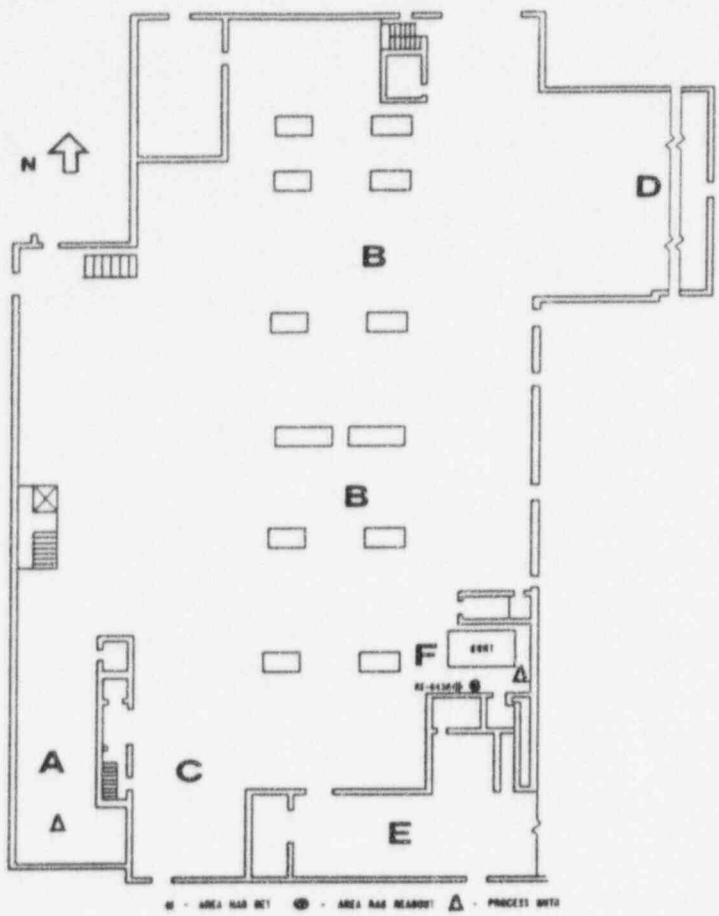
TURBINE BUILDING - 567' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	1. No rad level changes should occur in the Turbine Building, since a Steam Generator tube leak does not occur and since the Turbine Building is upwind of the radiation release point.
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	
1300-1400	As Read	As Read	As Read	As Read	As Read	As Read	
1400-1500	As Read	As Read	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	1. Hi airborne activity does not occur in the Turbine Building due to the reasons stated above.
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	2. Be on the lookout for the spread of contamination from the Mechanical Penetration Rooms due to inappropriate actions or precautions taken by the Players.
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)



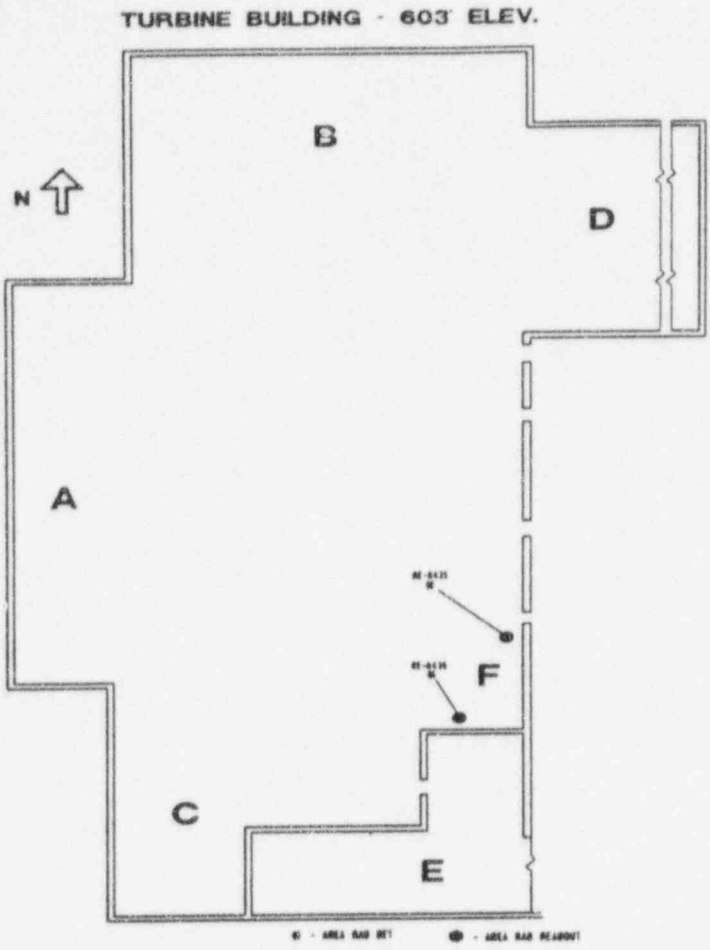
1. DOSE RATE INFORMATION — TURBINE BUILDING - 585' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	1. No rad level changes should occur in the
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	Turbine Building, since a Steam Generator tube
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	leak does not occur and since the Turbine
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	Building is upwind of the radiation release
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	point.
1300-1400	As Read	As Read	As Read	As Read	As Read	As Read	
1400-1500	As Read	As Read	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	1. Hi airborne activity does not occur in the
1300-1315	As Read	As Read	As Read	As Read	Turbine Building due to the reasons stated
1315-1330	As Read	As Read	As Read	As Read	above.
1330-1345	As Read	As Read	As Read	As Read	2. Be on the lookout for the spread of contamina-
1345-1400	As Read	As Read	As Read	As Read	tion from the Mechanical Penetration Rooms due
1400-1430	As Read	As Read	As Read	As Read	to inappropriate actions or precautions taken
1430-1500	As Read	As Read	As Read	As Read	by the Players.

8.3 PLANT RADIATION MAPS (con't)



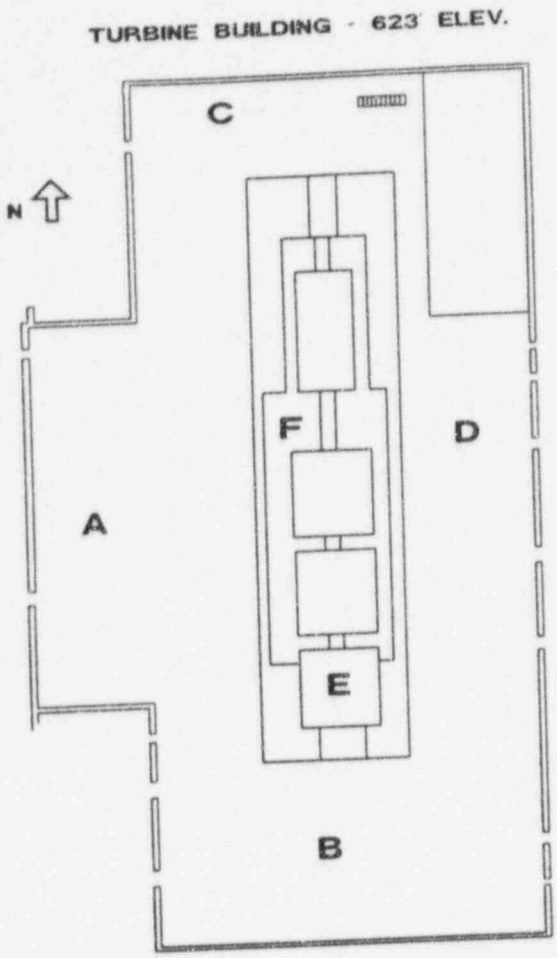
1. DOSE RATE INFORMATION — TURBINE BUILDING - 603' ELEVATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	1. No rad level changes should occur in the
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	Turbine Building, since a Steam Generator tube
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	leak does not occur and since the Turbine
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	Building is upwind of the radiation release
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	point.
1300-1400	As Read	As Read	As Read	As Read	As Read	As Read	
1400-1500	As Read	As Read	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	1. Hi airborne activity does not occur in the
1300-1315	As Read	As Read	As Read	As Read	Turbine Building due to the reasons stated
1315-1330	As Read	As Read	As Read	As Read	above.
1330-1345	As Read	As Read	As Read	As Read	2. Be on the lookout for the spread of contamina-
1345-1400	As Read	As Read	As Read	As Read	tion from the Mechanical Penetration Rooms due
1400-1430	As Read	As Read	As Read	As Read	to inappropriate actions or precautions taken
1430-1500	As Read	As Read	As Read	As Read	by the Players.

8.3 PLANT RADIATION MAPS (con't)



TURBINE BUILDING - 623' ELEVATION

1. DOSE RATE INFORMATION

Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	1. No rad level changes should occur in the Turbine Building, since a Steam Generator tube leak does not occur and since the Turbine Building is upwind of the radiation release point.
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	As Read	As Read	As Read	As Read	As Read	As Read	
1300-1400	As Read	As Read	5-250	As Read	As Read	As Read	2. The 'C' readings are due to shine from the Station Vent Kamen skids located in this area.
1400-1500	As Read	As Read	250-20	As Read	As Read	As Read	

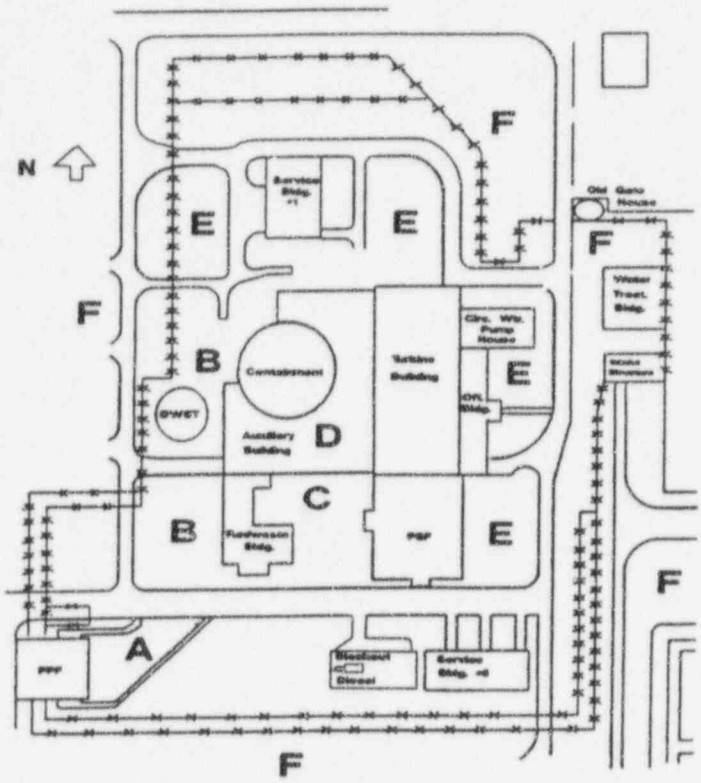
2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	1. Hi airborne activity does not occur in the Turbine Building due to the reasons stated above.
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	2. Be on the lookout for the spread of contamination from the Mechanical Penetration Rooms due to inappropriate actions or precautions taken by the Players.
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)

PROTECTED AREA

585' ELEV. (Grade Level)



1. DOSE RATE INFORMATION

PROTECTED AREA - 585' ELEVATION (GRADE LEVEL)

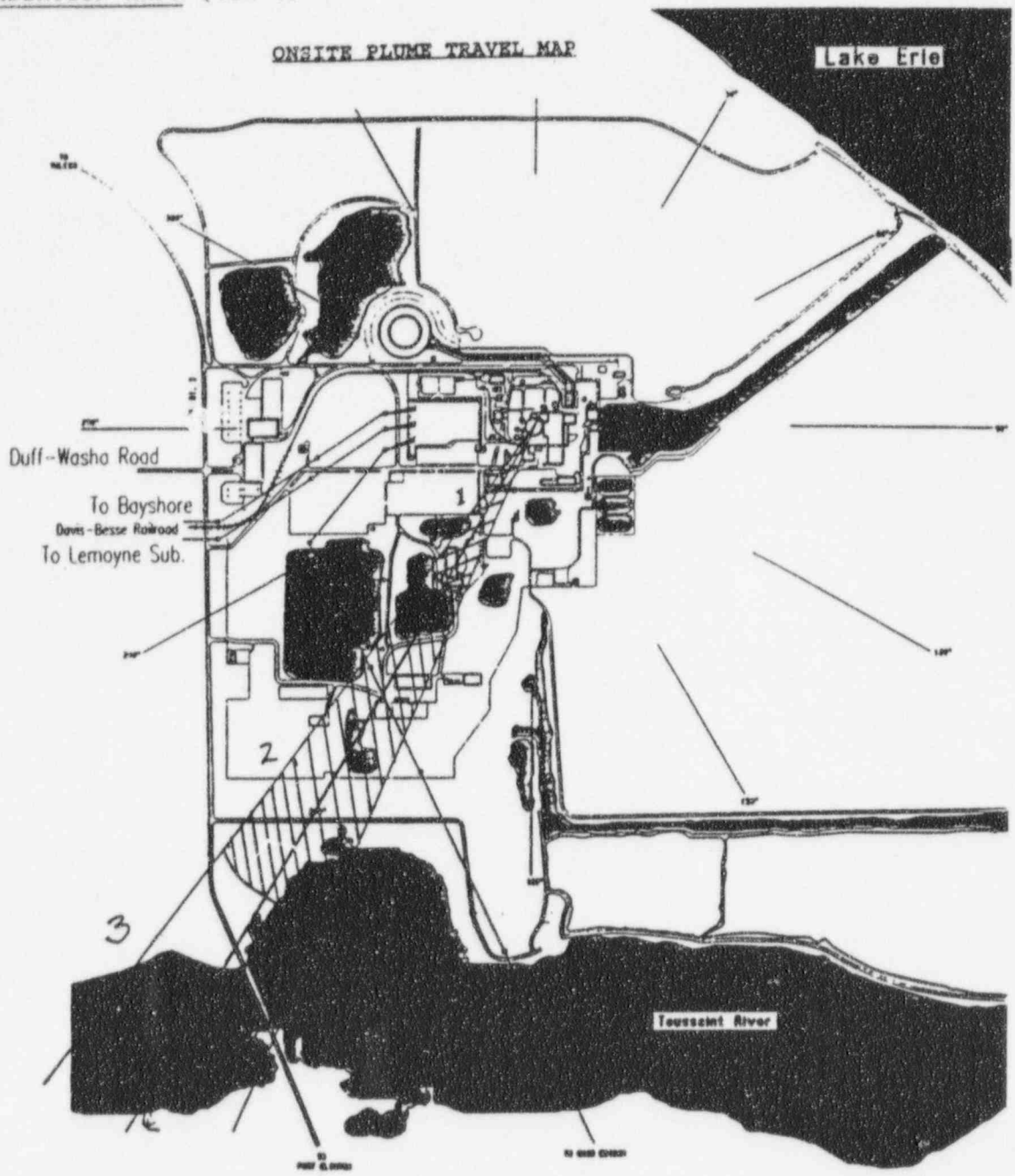
Time	Dose Rates in mRem/hr						General Notes
Hours	A	B	C	D	E	F	
0800-1100	As Read	As Read	As Read	As Read	As Read	As Read	1. No rad level changes should occur in the Turbine Building, since a Steam Generator tube leak does not occur and since the Turbine Building is upwind of the radiation release point.
1100-1130	As Read	As Read	As Read	As Read	As Read	As Read	
1130-1200	As Read	As Read	As Read	As Read	As Read	As Read	
1200-1230	As Read	As Read	As Read	As Read	As Read	As Read	
1230-1300	See Note 2	See Note 2	As Read	As Read	As Read	As Read	
1300-1400	See Note 2	See Note 2	As Read	As Read	As Read	As Read	2. Refer to Onsite Plume Map for radiation levels in this area due to Station Vent release.
1400-1500	See Note 2	See Note 2	As Read	As Read	As Read	As Read	

2. AIRBORNE CONCENTRATIONS AND CONTAMINATION LEVELS

Time	Noble Gas	Iodines	Partic.	Contamination Levels in CPM	General Notes
Hours	µCi/cc	µCi/cc	µCi/cc		
0800-1300	As Read	As Read	As Read	As Read	1. Hi airborne activity does not occur in the Turbine Building due to the reasons stated above.
1300-1315	As Read	As Read	As Read	As Read	
1315-1330	As Read	As Read	As Read	As Read	
1330-1345	As Read	As Read	As Read	As Read	2. Be on the lookout for the spread of contamination from the Mechanical Penetration Rooms due to inappropriate actions or precautions taken by the Players.
1345-1400	As Read	As Read	As Read	As Read	
1400-1430	As Read	As Read	As Read	As Read	
1430-1500	As Read	As Read	As Read	As Read	

8.3 PLANT RADIATION MAPS (con't)

ONSITE PLUME TRAVEL MAP



Note: The plume does not touch ground until Location 3.

Plume Location/Time	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1/1230-1245	4800	4300	As Read	As Read	As Read
2/1230-1245	As Read	As Read	As Read	As Read	As Read
1/1245-1300	8600	8300	As Read	As Read	As Read
2/1245-1300	3400	3200	As Read	As Read	As Read
1/1300-1405	8500	8300	As Read	As Read	As Read
2/1300-1405	5600	5400	As Read	As Read	As Read
1/after 1405	As Read	As Read	As Read	As Read	As Read
2/after 1405	As Read	As Read	As Read	As Read	As Read
3	(Refer to offsite maps in Section 9.4)				

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8.4 RADIOCHEMISTRY DATA SUMMARY

Thirty-five minutes into the start of the Exercise, Control Room annunciator "LETDOWN RAD HI" will alarm. As the scenario progresses, approximately 35% gap activity will be released from the fuel.

Up until this time (0705), sample analysis on either the primary or secondary plant can be performed using the normal sampling systems. This data can be found in section 6.3 of this manual.

After 0705, samples will have to be taken using the Post Accident Sampling System (PASS). A summary of the data for PASS samples are provided on the following pages.

Since Post Accident Sampling is not an Exercise Objectives a Post Accident Sample will not be taken. Data sheets are provided for information.

8.4 RADIOCHEMISTRY DATA SUMMARY (con't)

RADIOCHEMISTRY DATA SUMMARY

REACTOR COOLANT AND PRESSURIZER SAMPLE

ACTIVITY CONCENTRATION (uCi/g) AT INDICATED TIME

Isotope	Sample 1 0900-1100	Sample 2 1100-1300	Sample 3 After 1300
Kr-85m	2.46E+01	7.03E+01	5.98E+01
Kr-85	2.40E+02	6.88E+02	5.84E+02
Kr-87	1.35E+01	3.85E+01	3.27E+01
Kr-88	4.33E+01	1.23E+02	1.05E+02
Xe-133	4.14E+03	1.18E+04	1.00E+04
Xe-135	4.28E+01	1.22E+02	1.04E+02
I-131	6.47E+02	1.85E+03	1.57E+03
I-132	4.15E+01	1.18E+02	1.00E+02
I-133	1.35E+02	3.87E+02	3.29E+02
I-134	7.73E+00	2.21E+01	1.87E+01
I-135	4.28E+01	1.22E+02	1.04E+02
Cs-134	6.64E+02	1.89E+03	1.61E+03
Cs-137	9.22E+02	2.63E+03	2.24E+03
Cs-138	1.18E+01	3.39E+01	2.88E+01
Te-132	7.73E+00	1.87E+01	1.43E+01
Mo-99	6.75E+01	1.64E+02	1.25E+02
Ru-103	7.12E+00	1.73E+01	1.32E+01
Sr-91	7.32E-01	1.77E+00	1.36E+00
Sr-92	1.62E-01	3.95E-01	3.02E-01
Ba-140	1.30E-08	1.30E-08	1.30E-08
Y-91	1.51E+00	3.69E+00	2.82E+00
La-140	1.76E+00	4.33E+00	3.31E+00
Ce-144	1.82E+00	4.43E+00	3.38E+00
Gross Noble Gas	4.50E+03	1.28E+04	1.08E+04
Gross Iodines	8.74E+02	2.49E+03	2.12E+03
Gross Particulates	1.68E+03	4.76E+03	4.04E+03
Dose Equivalent I-131	6.88E+02	1.96E+03	1.67E+03
Sample Pressure (PSIA)	2143	2143	2143
Temperature (°F)	115.0	115.0	115.0
RCS Pressure (PSIA)	2148	2148	2148
Temperature (°F)	549	549	549
PZR Temperature (°F)	648	648	648
Boron (PPM)	250	250	672

8.4 RADIOCHEMISTRY DATA SUMMARY (con't)

RADIOCHEMISTRY DATA SUMMARY

CONTAINMENT ATMOSPHERE SAMPLE

ACTIVITY CONCENTRATION (uCi/cc) AT INDICATED TIME

Isotope	Sample 1 0900-1100	Sample 2 1100-1300	Sample 3 After 1300
Kr-85m	0.00E+00	1.00E-01	8.50E-02
Kr-85	0.00E+00	9.78E-01	8.31E-01
Kr-87	0.00E+00	5.48E-02	4.66E-02
Kr-88	0.00E+00	1.76E-01	1.49E-01
Xe-133	0.00E+00	1.68E+01	1.43E+01
Xe-135	0.00E+00	1.74E-01	1.48E-01
I-131	0.00E+00	9.07E-03	7.71E-03
I-132	0.00E+00	5.81E-04	4.94E-04
I-133	0.00E+00	1.90E-03	1.61E-03
I-134	0.00E+00	1.08E-04	9.20E-05
I-135	0.00E+00	6.00E-04	5.10E-04
Cs-134	0.00E+00	1.86E+00	1.58E+00
Cs-137	0.00E+00	2.58E+00	2.19E+00
Cs-138	0.00E+00	3.32E-02	2.82E-02
Te-132	0.00E+00	1.84E-02	1.40E-02
Mo-99	0.00E+00	1.60E-01	1.23E-01
Ru-103	0.00E+00	1.69E-02	1.29E-02
Sr-91	0.00E+00	1.74E-03	1.33E-03
Sr-92	0.00E+00	3.87E-04	2.96E-04
Ba-140	0.00E+00	1.27E-11	1.27E-11
Y-91	0.00E+00	3.61E-03	2.76E-03
La-140	0.00E+00	4.24E-03	3.24E-03
Ce-144	0.00E+00	4.34E-03	3.32E-03
	========	========	========
Gross Noble Gas	0.00E+00	1.82E+01	1.55E+01
Gross Iodines	0.00E+00	1.22E-02	1.04E-02
Gross Particulates	0.00E+00	4.68E+00	3.95E+00
Sample Pressure (PSIA)	13	13	17
Temperature (°F)	74	75	130
TMT Pressure (PSIA)	15	15	19
Temperature (°F)	89	90	145

Drill Use Only

8.4 RADIOCHEMISTRY DATA SUMMARY (con't)

RADIOCHEMISTRY DATA SUMMARY

CONTAINMENT SUMP

ACTIVITY CONCENTRATION (uCi/g) AT INDICATED TIME

Isotope	Sample 1 0900-1100	Sample 2 1100-1300	Sample 3 After 1300
Kr-85m	0.00E+00	2.90E+01	2.47E+01
Kr-85	0.00E+00	2.84E+02	2.41E+02
Kr-87	0.00E+00	1.59E+01	1.35E+01
Kr-88	0.00E+00	5.11E+01	4.35E+01
Xe-133	0.00E+00	4.89E+03	4.16E+03
Xe-135	0.00E+00	5.06E+01	4.30E+01
I-131	0.00E+00	6.12E+02	4.97E+02
I-132	0.00E+00	3.92E+01	3.18E+01
I-133	0.00E+00	1.28E+02	1.04E+02
I-134	0.00E+00	7.30E+00	5.93E+00
I-135	0.00E+00	4.05E+01	3.29E+01
Cs-134	0.00E+00	7.84E+02	6.66E+02
Cs-137	0.00E+00	1.08E+03	9.26E+02
Cs-138	0.00E+00	1.40E+01	1.19E+01
Te-132	0.00E+00	7.76E+00	5.93E+00
Mo-99	0.00E+00	6.78E+01	5.18E+01
Ru-103	0.00E+00	7.15E+00	5.46E+00
Sr-91	0.00E+00	7.35E-01	5.62E-01
Sr-92	0.00E+00	1.63E-01	1.24E-01
Ba-140	0.00E+00	5.37E-09	5.37E-09
Y-91	0.00E+00	1.52E+00	1.16E+00
La-140	0.00E+00	1.79E+00	1.36E+00
Ce-144	0.00E+00	1.83E+00	1.40E+00
Gross Noble Gas	0.00E+00	5.32E+03	4.52E+03
Gross Iodines	0.00E+00	8.27E+02	6.71E+02
Gross Particulates	0.00E+00	1.96E+03	1.67E+03
Sample Pressure (PSIA)	12	12	16
Temperature (°F)	74	75	130
Building Pressure (PSIA)	17	17	21
Temperature (°F)	91	92	147

Drill Use Only

8.4 RADIOCHEMISTRY DATA SUMMARY (con't)

RADIOCHEMISTRY DATA SUMMARY

STATION VENT

ACTIVITY CONCENTRATION (uCi/cc) AT INDICATED TIME

Isotope	Sample 1 0900-1300	Sample 2 1300-1400	Sample 3 1400-1415
Kr-85m	0.00E+00	5.48E-02	3.29E-02
Kr-85	0.00E+00	5.36E-01	3.21E-01
Kr-87	0.00E+00	3.00E-02	1.80E-02
Kr-88	0.00E+00	9.65E-02	5.79E-02
Xe-133	0.00E+00	9.23E+00	5.54E+00
Xe-135	0.00E+00	9.55E-02	5.73E-02
I-131	0.00E+00	2.48E-04	1.49E-04
I-132	0.00E+00	1.59E-05	9.57E-06
I-133	0.00E+00	5.21E-05	3.12E-05
I-134	0.00E+00	2.97E-06	1.78E-06
I-135	0.00E+00	1.64E-05	9.88E-06
Cs-134	0.00E+00	5.10E-02	3.06E-02
Cs-137	0.00E+00	7.08E-02	4.25E-02
Cs-138	0.00E+00	9.12E-04	5.47E-04
Te-132	0.00E+00	5.54E-04	3.16E-04
Mo-99	0.00E+00	4.84E-03	2.76E-03
Ru-103	0.00E+00	5.10E-04	2.91E-04
Sr-91	0.00E+00	5.25E-05	3.00E-05
Sr-92	0.00E+00	1.16E-05	6.67E-06
Ba-140	0.00E+00	0.00E+00	0.00E+00
Y-91	0.00E+00	1.08E-04	6.22E-05
La-140	0.00E+00	1.27E-04	7.31E-05
Ce-144	0.00E+00	1.30E-04	7.47E-05
Gross Noble Gas	0.00E+00	1.00E+01	6.02E+00
Gross Iodines	0.00E+00	3.35E-04	2.01E-04
Gross Particulates	0.00E+00	1.29E-01	7.72E-02

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

This section provides individual radiochemistry data sheets to be passed out to Players during predesignated time frames should the identified samples be taken during conduct of the Exercise.

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

REACTOR COOLANT/PRESSURIZER SAMPLE 1

Isotope	Activity Concentration (uCi/g)
Kr-85m	2.46E+01
Kr-85	2.40E+02
Kr-87	1.35E+01
Kr-88	4.33E+01
Xe-133	4.14E+03
Xe-135	4.28E+01
I-131	6.47E+02
I-132	4.15E+01
I-133	1.35E+02
I-134	7.73E+00
I-135	4.28E+01
Cs-134	6.64E+02
Cs-137	9.22E+02
Cs-138	1.18E+01
Te-132	7.73E+00
Mo-99	6.75E+01
Ru-103	7.12E+00
Sr-91	7.32E-01
Sr-92	1.62E-01
Ba-140	1.30E-08
Y-91	1.51E+00
La-140	1.78E+00
Ce-144	1.82E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

REACTOR COOLANT/PRESSURIZER SAMPLE 2

Isotope	Activity Concentration (uCi/g)
Kr-85m	7.03E+01
Kr-85	6.88E+02
Kr-87	3.85E+01
Kr-88	1.23E+02
Xe-133	1.18E+04
Xe-135	1.22E+02
I-131	1.85E+03
I-132	1.18E+02
I-133	3.87E+02
I-134	2.21E+01
I-135	1.22E+02
Cs-134	1.89E+03
Cs-137	2.63E+03
Cs-138	3.39E+01
Te-132	1.87E+01
Mo-99	1.64E+02
Ru-103	1.73E+01
Sr-91	1.77E+00
Sr-92	3.95E-01
Ba-140	1.30E-08
Y-91	3.69E+00
La-140	4.33E+00
Ce-144	4.43E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

REACTOR COOLANT/PRESSURIZER SAMPLE 3

Isotope	Activity Concentration (uCi/g)
Kr-85m	5.98E+01
Kr-85	5.84E+02
Kr-87	3.27E+01
Kr-88	1.05E+02
Xe-133	1.00E+04
Xe-135	1.04E+02
I-131	1.57E+03
I-132	1.00E+02
I-133	3.29E+02
I-134	1.87E+01
I-135	1.04E+02
Cs-134	1.61E+03
Cs-137	2.24E+03
Cs-138	2.88E+01
Te-132	1.43E+01
Mo-99	1.25E+02
Ru-103	1.32E+01
Sr-91	1.36E+00
Sr-92	3.02E-01
Ba-140	1.30E-08
Y-91	2.82E+00
La-140	3.31E+00
Ce-144	3.38E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT ATMOSPHERE SAMPLE 1

Isotope	Activity Concentration (uCi/cc)
Kr-85m	0.00E+00
Kr-85	0.00E+00
Kr-87	0.00E+00
Kr-88	0.00E+00
Xe-133	0.00E+00
Xe-135	0.00E+00
I-131	0.00E+00
I-132	0.00E+00
I-133	0.00E+00
I-134	0.00E+00
I-135	0.00E+00
Cs-134	0.00E+00
Cs-137	0.00E+00
Cs-138	0.00E+00
Te-132	0.00E+00
Mo-99	0.00E+00
Ru-103	0.00E+00
Sr-91	0.00E+00
Sr-92	0.00E+00
Ba-140	0.00E+00
Y-91	0.00E+00
La-140	0.00E+00
Ce-144	0.00E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT ATMOSPHERE SAMPLE 2

Isotope	Activity Concentration (uCi/cc)
Kr-85m	1.00E-01
Kr-85	9.78E-01
Kr-87	5.48E-02
Kr-88	1.76E-01
Xe-133	1.68E+01
Xe-135	1.74E-01
I-131	9.07E-03
I-132	5.81E-04
I-133	1.90E-03
I-134	1.08E-04
I-135	6.00E-04
Cs-134	1.86E+00
Cs-137	2.58E+00
Cs-138	3.32E-02
Te-132	1.84E-02
Mo-99	1.60E-01
Ru-103	1.69E-02
Sr-91	1.74E-03
Sr-92	3.87E-04
Ba-140	1.27E-11
Y-91	3.61E-03
La-140	4.24E-03
Ce-144	4.34E-03

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT ATMOSPHERE SAMPLE 3

Isotope	Activity Concentration (uCi/cc)
Kr-85m	8.50E-02
Kr-85	8.31E-01
Kr-87	4.66E-02
Kr-88	1.49E-01
Xe-133	1.43E+01
Xe-135	1.48E-01
I-131	7.71E-03
I-132	4.94E-04
I-133	1.61E-03
I-134	9.20E-05
I-135	5.10E-04
Cs-134	1.58E+00
Cs-137	2.19E+00
Cs-138	2.82E-02
Te-132	1.40E-02
Mo-99	1.23E-01
Ru-103	1.29E-02
Sr-91	1.33E-03
Sr-92	2.96E-04
Ba-140	1.27E-11
Y-91	2.76E-03
La-140	3.24E-03
Ce-144	3.32E-03

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT SUMP SAMPLE 1

Isotope	Activity Concentration (uCi/g)
I-131	0.00E+00
I-132	0.00E+00
I-133	0.00E+00
I-134	0.00E+00
I-135	0.00E+00
Cs-134	0.00E+00
Cs-137	0.00E+00
Cs-138	0.00E+00
Te-132	0.00E+00
Mo-99	0.00E+00
Ru-103	0.00E+00
Sr-91	0.00E+00
Sr-92	0.00E+00
Ba-140	0.00E+00
Y-91	0.00E+00
La-140	0.00E+00
Ce-144	0.00E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT SUMP SAMPLE 2

Isotope	Activity Concentration (uCi/g)
I-131	2.90E+01
I-132	2.84E+02
I-133	1.59E+01
I-134	5.11E+01
I-135	4.89E+03
Cs-134	5.06E+01
Cs-137	6.12E+02
Cs-138	3.92E+01
Te-132	1.28E+02
Mo-99	7.30E+00
Ru-103	4.05E+01
Sr-91	7.84E+02
Sr-92	1.08E+03
Ba-140	1.40E+01
Y-91	7.76E+00
La-140	6.78E+01
Ce-144	7.15E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

CONTAINMENT SUMP SAMPLE 3

Isotope	Activity Concentration (uCi/g)
I-131	2.47E+01
I-132	2.41E+02
I-133	1.35E+01
I-134	4.35E+01
I-135	4.16E+03
Cs-134	4.30E+01
Cs-137	4.97E+02
Cs-138	3.18E+01
Te-132	1.04E+02
Mo-99	5.93E+00
Ru-103	3.29E+01
Sr-91	6.66E+02
Sr-92	9.26E+02
Ba-140	1.19E+01
Y-91	5.93E+00
La-140	5.18E+01
Ce-144	5.46E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

STATION VENT SAMPLE

Isotope	Activity Concentration (uCi/cc)
Kr-85m	0.00E+00
Kr-85	0.00E+00
Kr-87	0.00E+00
Kr-88	0.00E+00
Xe-133	0.00E+00
Xe-135	0.00E+00
I-131	0.00E+00
I-132	0.00E+00
I-133	0.00E+00
I-134	0.00E+00
I-135	0.00E+00
Cs-134	0.00E+00
Cs-137	0.00E+00
Cs-138	0.00E+00
Te-132	0.00E+00
Mo-99	0.00E+00
Ru-103	0.00E+00
Sr-91	0.00E+00
Sr-92	0.00E+00
Ba-140	0.00E+00
Y-91	0.00E+00
La-140	0.00E+00
Ce-144	0.00E+00

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

STATION VENT SAMPLE 2

Isotope	Activity Concentration (uCi/cc)
Kr-85m	5.48E-02
Kr-85	5.36E-01
Kr-87	3.00E-02
Kr-88	9.65E-02
Xe-133	9.23E+00
Xe-135	9.55E-02
I-131	2.48E-04
I-132	1.59E-05
I-133	5.21E-05
I-134	2.97E-06
I-135	1.64E-05
Cs-134	5.10E-02
Cs-137	7.08E-02
Cs-138	9.12E-04
Te-132	5.54E-04
Mo-99	4.84E-03
Ru-103	5.10E-04
Sr-91	5.25E-05
Sr-92	1.16E-05
Ba-140	0.00E+00
Y-91	1.08E-04
La-140	1.27E-04
Ce-144	1.30E-04

********** THIS IS A DRILL **********

8.5 RADIOCHEMISTRY DATA SHEETS (con't)

RADIOCHEMISTRY DATA SHEET

********** THIS IS A DRILL **********

STATION VENT SAMPLE 3

Isotope	Activity Concentration (uCi/cc)
Kr-85m	3.29E-02
Kr-85	3.21E-01
Kr-87	1.80E-02
Kr-88	5.79E-02
Xe-133	5.54E+00
Xe-135	5.73E-02
I-131	1.49E-04
I-132	9.57E-06
I-133	3.12E-05
I-134	1.78E-06
I-135	9.88E-06
Cs-134	3.06E-02
Cs-137	4.25E-02
Cs-138	5.47E-04
Te-132	3.16E-04
Mo-99	2.76E-03
Ru-103	2.91E-04
Sr-91	3.00E-05
Sr-92	6.67E-06
Ba-140	0.00E+00
Y-91	6.22E-05
La-140	7.31E-05
Ce-144	7.47E-05

********** THIS IS A DRILL **********

8.6 POST ACCIDENT SAMPLING DATA

The scenario postulates up to 35% gap activity released into the primary coolant following damage to the fuel rods. Prior to this event all chemistry samples (if any are taken) could be via the normal sampling methods and equipment. Data for this early period in the scenario can be found in Section 6.3. Once the gap activity has been released into the coolant, however, sampling will have to be performed using the Post Accident Sampling System (PASS) due to the high radiation levels incurred while taking the sample.

Following the gap activity release, the plant indications provided by the Simulator will prompt the Players to be concerned about what is happening and to determine the source term that exists inside the Containment building. The PASS can be used to obtain this type of information and thus PASS sample guidance and information is provided.

In this section, Controllers are provided representative radiological survey forms applicable to PASS activities. A sample is not required to be performed as part of this year's Exercise scope.

8.6 POST ACCIDENT SAMPLING DATA (con't)

RADIATION PROTECTION SURVEY FORM
ED 7995

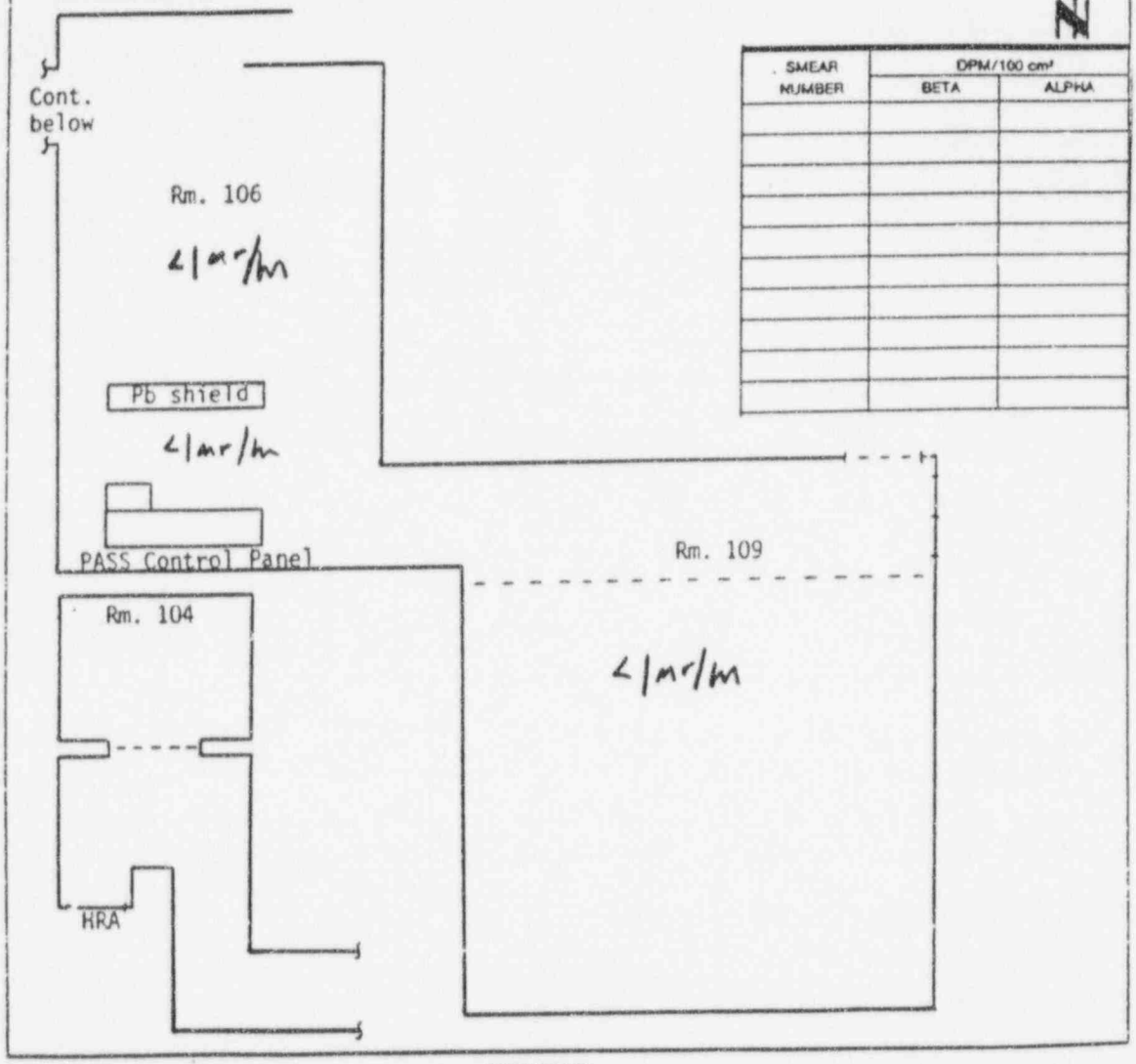
SURVEY NUMBER	RWP NUMBER
95-XXXXX	95-XXXX

BUILDING	ELEVATION	AREA/ROOM/SYSTEM	DATE	TIME
AUX	545'	MAINT. WORK AREA P.A.S.S. PANEL AREA-106-109	9/20/95	0600

PURPOSE: Rad Survey "BEFORE" PASS Sample

% POWER: 100

LEGEND: [ ] - HOTSPOT
All radiation readings are in mrem/hr unless otherwise noted.
O - SMEAR Δ - NEUTRON β⁻ - BETA □ - AIR SAMPLE ★ - CONTACT / - */30 cm
RA - RADIATION AREA HRA - HIGH RADIATION AREA CA - CONTAMINATED AREA HCA - HIGH CONTAMINATION AREA



SMEAR NUMBER	DPM/100 cm² BETA	DPM/100 cm² ALPHA

INSTRUMENTS USED

MODEL NUMBER	ID NUMBER	CAL DUE DATE
RO2A	2.7.139	9-30-95

PREPARED BY: NAME (Print) Rex Dilet SIGNATURE Rex Dilet DATE 9.20.95
APPROVED BY: NAME (Print) Jim Keler SIGNATURE Jim Keler DATE 9.20.95
REVIEWED BY: NAME (Print) AL Bons SIGNATURE Al Bons DATE 9.20.95

PAGE ____ OF ____ PAGES

8.6 POST ACCIDENT SAMPLING DATA (con't)

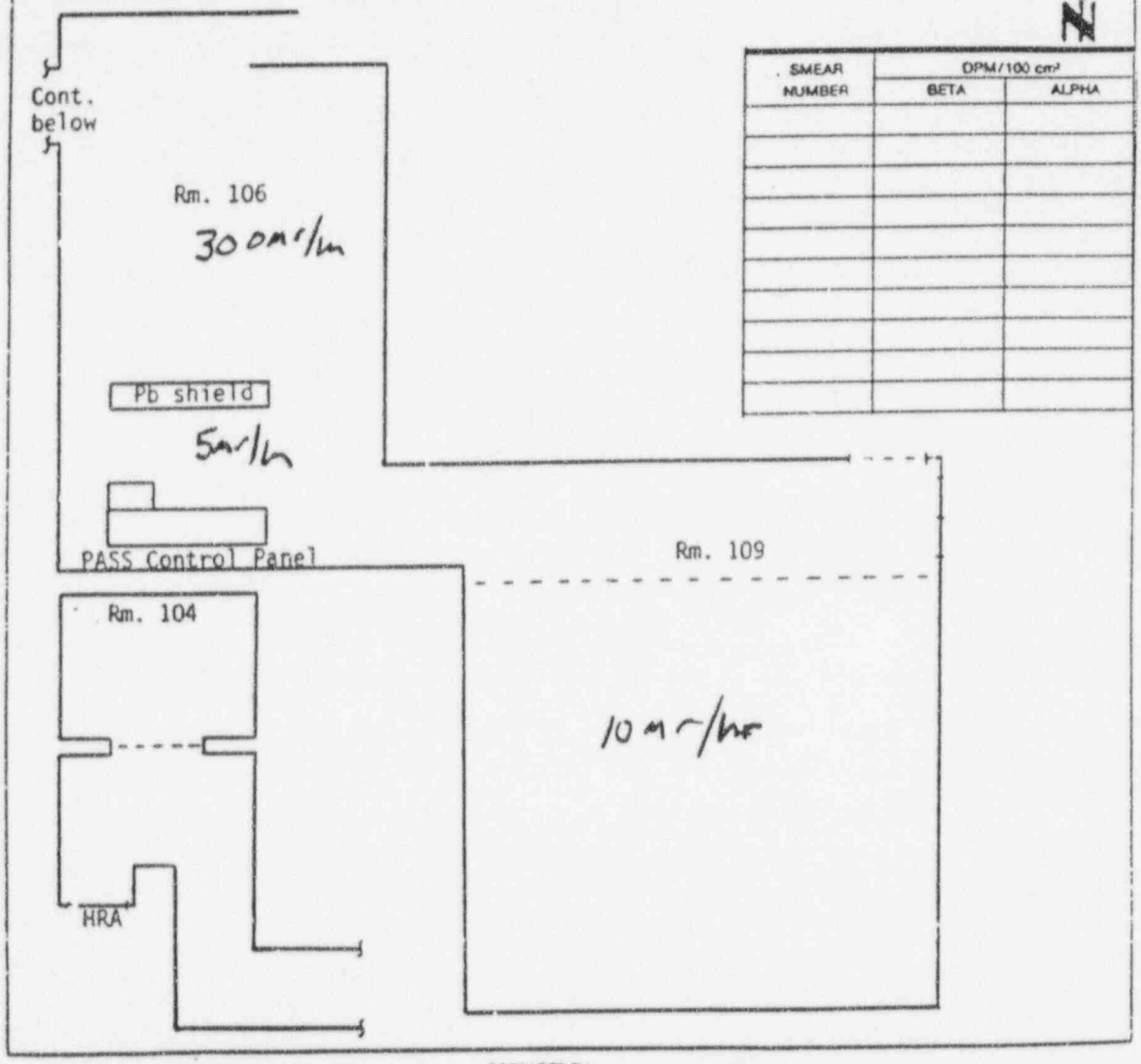
RADIATION PROTECTION SURVEY FORM
ED 7995

SURVEY NUMBER	RWP NUMBER
95-XXXX	95-XXXX

BUILDING	ELEVATION	AREA/ROOM/SYSTEM	DATE	TIME
AUX	545'	MAINT. WORK AREA P.A.S.S. PANEL AREA-106-109	9.20.95	1300

PURPOSE: Rad Survey "DURING" PASS Sample — % POWER: 100

LEGEND: [ ] - HOTSPOT
All radiation readings are in mrem/hr unless otherwise noted.
O - SMEAR Δ - NEUTRON β⁻ - BETA □ - AIR SAMPLE ★ - CONTACT / - */30 cm
RA - RADIATION AREA HRA - HIGH RADIATION AREA CA - CONTAMINATED AREA HCA - HIGH CONTAMINATION AREA



SMEAR NUMBER	DPM/100 cm² BETA	DPM/100 cm² ALPHA

INSTRUMENTS USED

MODEL NUMBER	ID NUMBER	CAL DUE DATE
RO2A	2.7.138	9.30.95

	NAME (Print)	SIGNATURE	DATE
PREPARED BY:	REX Dilet	Rex Dilet	9.20.95
APPROVED BY:	JIM Kelex	Jim Kelex	9.20.95
REVIEWED BY:	Al Bons	Al Bons	9.20.95

PAGE ____ OF ____ PAGES

8.6 POST ACCIDENT SAMPLING DATA (con't)

RADIATION PROTECTION SURVEY FORM
ED 7995

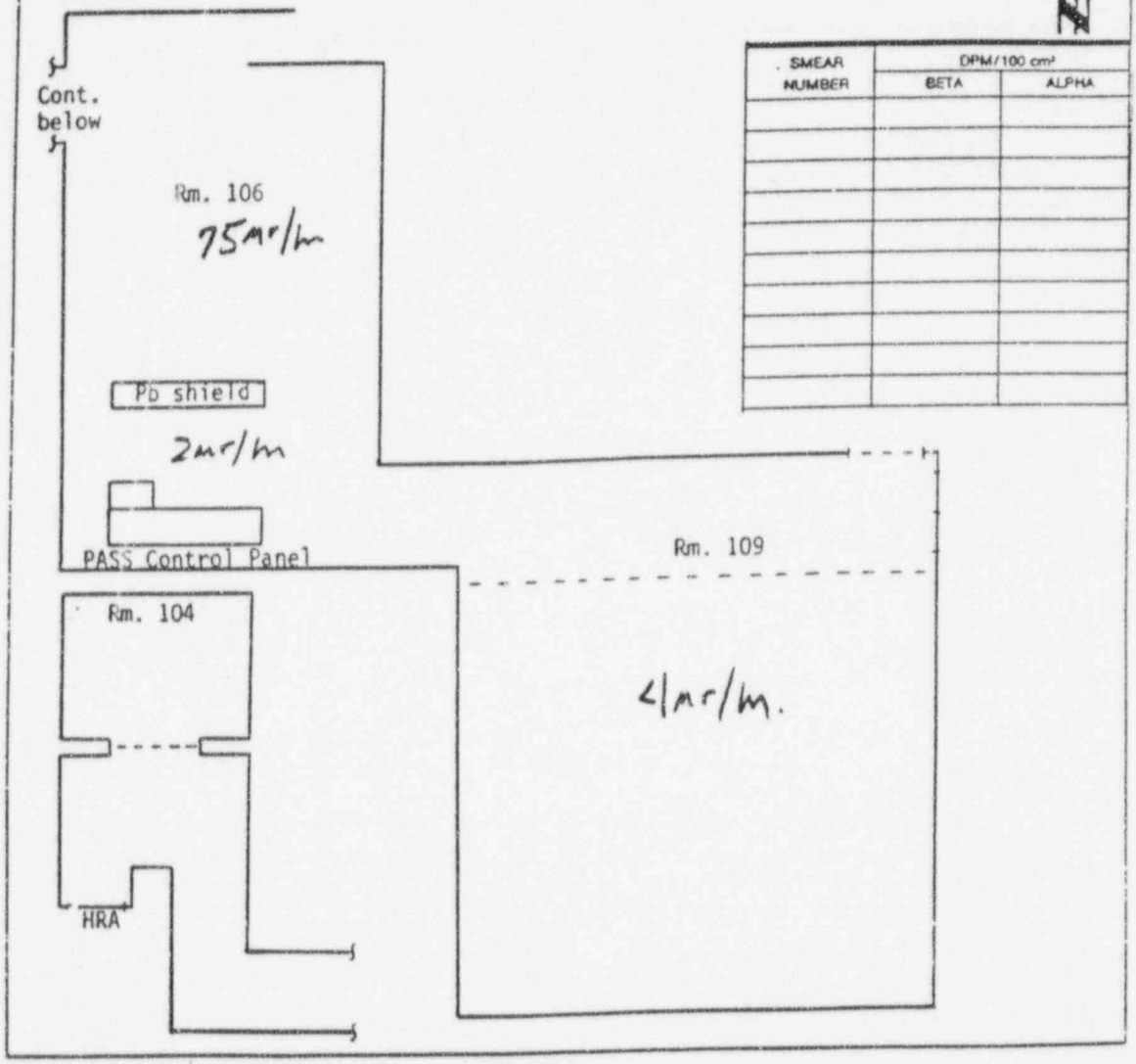
SURVEY NUMBER: 95-YYYY
R.W.P. NUMBER: 95-YY

BUILDING	ELEVATION	AREA/ROOM/SYSTEM	DATE	TIME
AUX	545'	MAINT. WORK AREA P.A.S.S. PANEL AREA-106-109	9.20.95	1500

PURPOSE: RAD SURVEY "AFTER" PASS SAMPLE

% POWER:

LEGEND: [ ] - HOTSPOT
All radiation readings are in mrem/hr unless otherwise noted.
O - SMEAR Δ - NEUTRON β - BETA □ - AIR SAMPLE ★ - CONTACT / - */30 cm
RA - RADIATION AREA HRA - HIGH RADIATION AREA CA - CONTAMINATED AREA HCA - HIGH CONTAMINATION AREA



SMEAR NUMBER	DPM/100 cm² BETA	DPM/100 cm² ALPHA

INSTRUMENTS USED

MODEL NUMBER	ID NUMBER	CAL DUE DATE
RO2A	2.7.138	9.30.95

PREPARED BY: NAME (PRINT) KEX DILET SIGNATURE Kex Dilet DATE 9.20.95
APPROVED BY: NAME (PRINT) JIM KELEX SIGNATURE Jim Kelex DATE 9.20.95
REVIEWED BY: NAME (PRINT) AL BONS SIGNATURE Al Bons DATE 9.20.95

PAGE ____ OF ____ PAGES

8.6 POST ACCIDENT SAMPLING DATA (con't)

PROCEDURE CONTINUATION SHEET
ED 7171A

SUBJECT	EFFECTIVE DATE	PAGE	NO.
EMERGENCY RADIOLOGICAL CONTROL ORGANIZATION ACTIVATION AND RESPONSE	NOV 28 1989	16 OF 20	HS-EP-02610 R3

ATTACHMENT 2: PASS CHECKLIST

CHECKLIST FOR PASS LIQUID SAMPLE

NOTE

Refer to HS-EP-02620, Emergency Exposure Control and KI Distribution, if the decision to take the sample results in operator exposure ≥1250 mRem.

The TSC shall determine the radiological hazards associated with obtaining a PASS liquid sample in accordance with DB-CH-06000, Post Accident Radiological Sampling and Analysis and DB-CH-00007, Post Accident Radiological Sampling and Analysis, by:

1. Requesting the OSC to obtain current radiological conditions in appropriate areas.

2. Performing an evaluation based on projected dose rates after sampling.

3. Determination of operator dose shall be made as follows:

	Activity	Area Dose Rate (mRem/hr)	Time (hrs)	Calc. Dose (mRem)
a.	Dress out in preparation for obtaining the liquid PASS samples, including briefing.	0.1 (x)	0.5	0.05
b.	Transit to PASS skid from Chem. Lab.	12 (x)	0.04	0.48
c.	Initial PASS system checkout and lineup.	15 (x)	0.57	8.55
d.	PASS system sample purge up to sample cave isolation.	400 (x)	0.17	68.0
e.	Degas sample, collect gaseous and liquid samples in vials and put vials in transport containers.	20 (x)	0.17	3.4
f.	Demineralized water flush of sample cave and sample needles.	90 (x)	0.20	18.0

8.6 POST ACCIDENT SAMPLING DATA (con't)

PROCEDURE CONTINUATION SHEET
ED 7171A

SUBJECT	EFFECTIVE DATE	PAGE	NO.
EMERGENCY RADIOLOGICAL CONTROL ORGANIZATION ACTIVATION AND RESPONSE	NOV 28 1989	17 OF 20	HS-EP-02610 R3

ATTACHMENT 2: PASS CHECKLIST (Continued)

CHECKLIST FOR PASS LIQUID SAMPLE (Continued)

	Activity	Area Dose Rate (mRem/hr)	Time (hrs)	Calc. Dose (mRem)
g.	PASS skid and mimic board sample valve lineup check.	150 (x)	0.03	4.5
h.	Transit to lab with transport container.	175 (x)	0.07	12.25
i.	Preparation of liquid and gaseous gamma spectroscopy samples.	130 (x)	0.07	9.1
j.	Gamma spectroscopy samples analysis.	180 (x)	0.17	30.6
k.	Boron analysis.	80 (x)	0.83	66.4
l.	Store remaining samples and waste.	70 (x)	0.03	2.1
			Total	223.4 mRem

If the total projected calculated dose to the operator from area dose rates is less than 1250 mRem, recommend a sample be taken and obtain the Emergency Plant Manager's approval to draw the sample.

If the projected calculated dose exceeds 1250 mRem, recommend a sample not be taken until the dose rates are reduced.

8.7 MEDICAL DRILL DATA

This section of the Exercise Manual has been developed to test the coordinated response capabilities of the onsite medical organization, a local EMS group, and a local support hospital in the handling and treatment of a containminated injured individual. This activity will satisfy annual MS-1 Medical Drill requirements.

The event begins at time 1000 in the Low Level Radwaste Storage Facility where a victim will be pre-staged and simulating locating a fuel handling tool (refer to Figure 8.7-1).

While climbing out of an LSA box where he was looking for a tool, the victim falls. He suffers contaminated injuries, including a contusion to the forehead, a bruised right elbow and a lacerated right knee (refer to Figures 8.7-2 thru 8.7-4).

A survey map is provided to show area radiation/contamination levels, (refer to Figure 8.7-5).

A Search and Rescue Team Member comes upon the scene and notifies the Control Room Simulator. The Station First Aid Team responds. The Controller at the scene should issue vital signs and radiation survey information per the medical cue cards in Section 8.8.

Security (CAS/SAS) will notify the Oak Harbor Police Department Dispatcher, who will in turn notify the Mid-county EMS (refer to Figure 8.7-6), since it will be simulated that Carroll Township EMS is on another call or is otherwise unavailable.

Note: Normally 9-1-1 would be used, however, a non-emergency telephone number will be used for this Exercise. 9-1-1 service at the Oak Harbor Police Department must remain open in the event of any real emergencies that may occur the day of the Exercise.

When the ambulance arrives onsite, a brief timeout will be taken to allow the ambulance crew to be processed into the Protected Area by normal methods. During an actual emergency, a security guard will issue badges and dosimetry in the ambulance while it is enroute to the PSF.

Timeouts will be taken as the EMT's and victim leave the RRA and the ambulance leaves the Protected Area after picking up the patient, to allow normal outprocessing for the crew, patient, any Controllers, Observers, and/or Evaluators.

The ambulance will be directed to transport the patient to Fremont for a demonstration by Fremont Memorial Hospital (refer to Figures 8.7-7 and 8.7-8). Normally Magruder Hospital would be used to treat the victim. However, for the purpose of this Exercise and to demonstrate the capabilities of the Fremont Memorial Hospital, it will be simulated that the victim has requested the change.

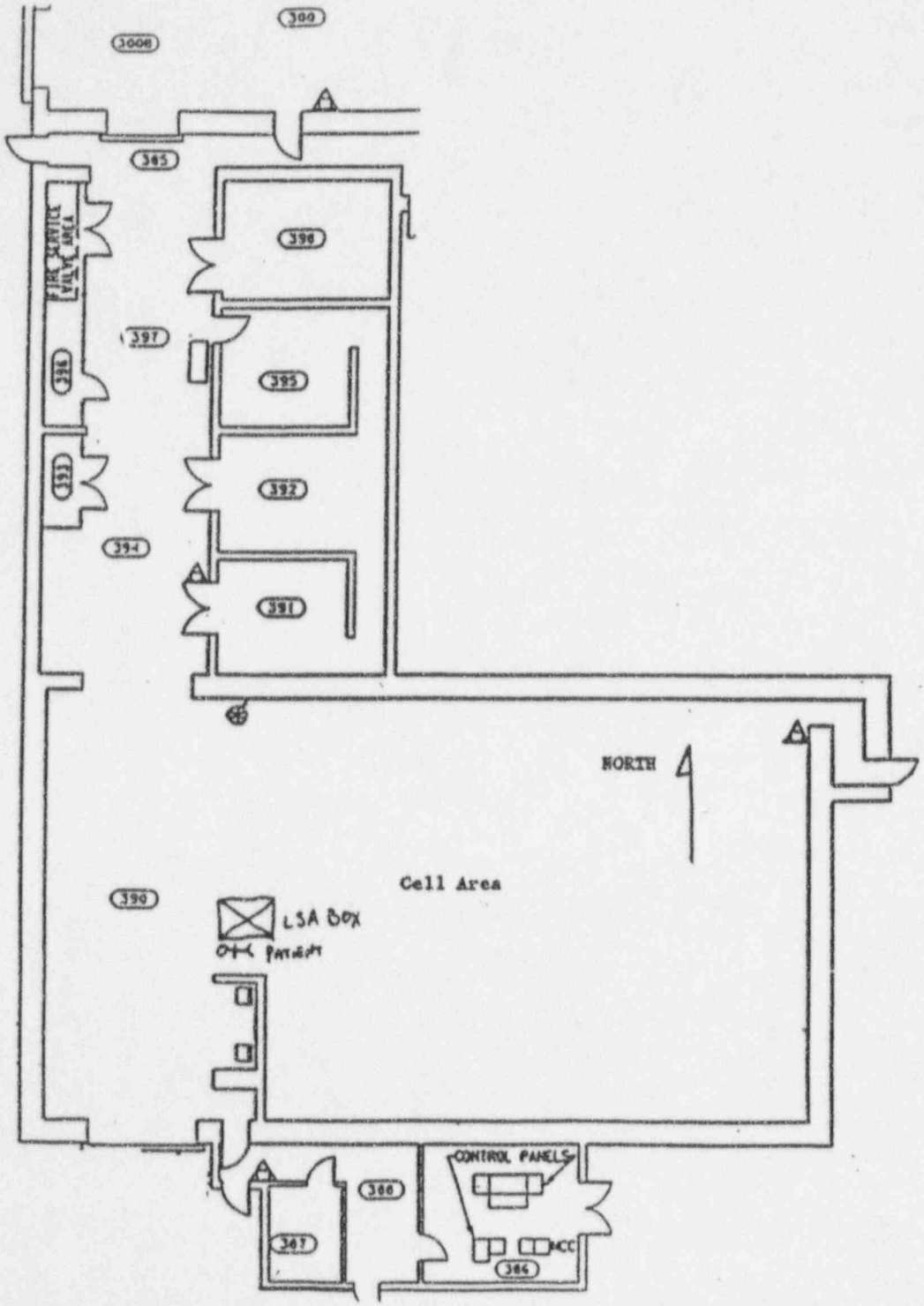
8.7 MEDICAL DRILL DATA (con't)

Prior to release of the ambulance, the EMT's, their vehicle and equipment should be surveyed for contamination. The stretcher/backboard (used to carry the victim) will be simulated to be contaminated (refer to Figure 8.7-9). A brief decon demonstration should be performed before releasing the ambulance.

Refer to Table 8.7-1 for a timeline of the above events.

8.7 MEDICAL DRILL DATA (con't)

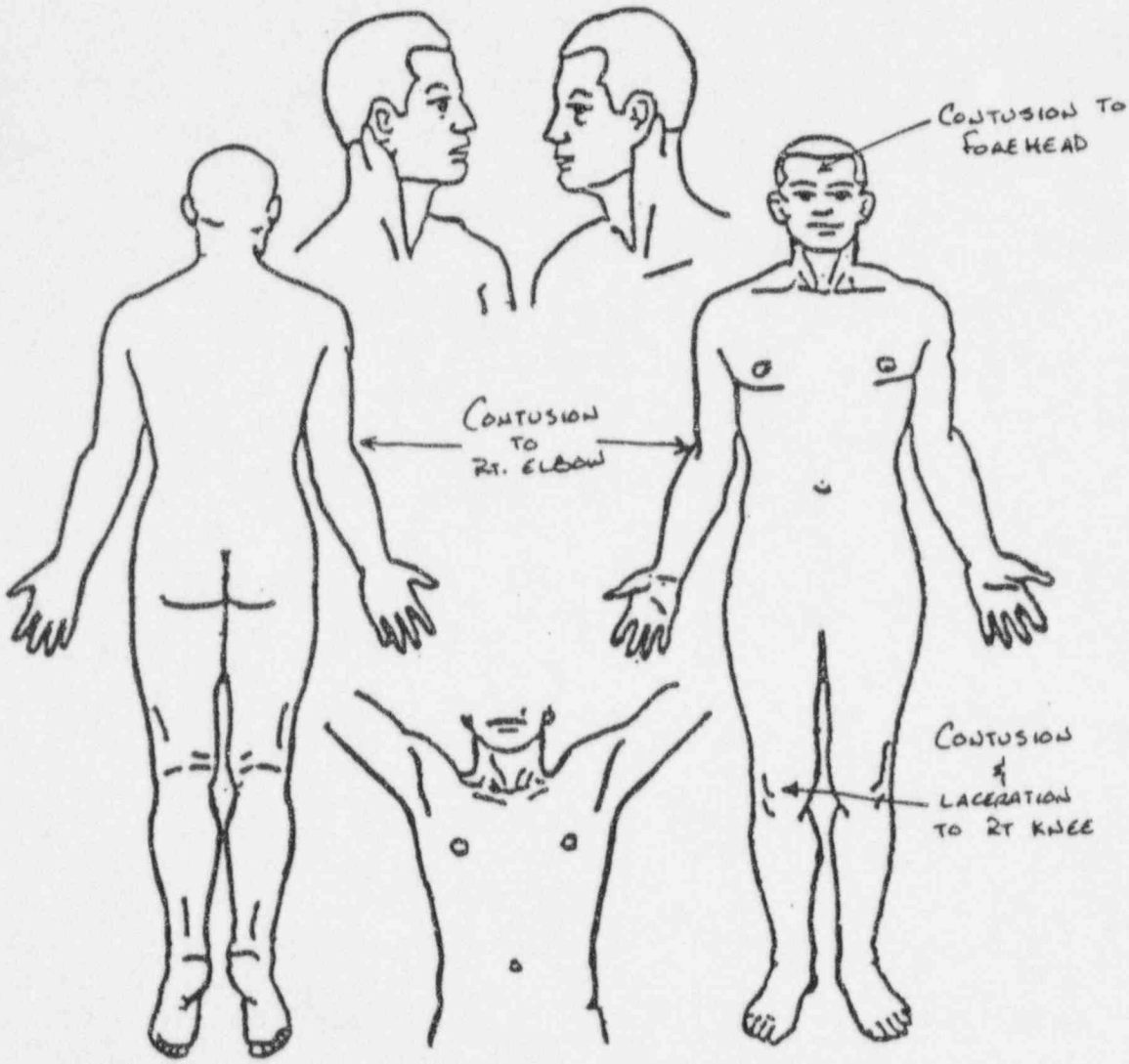
FIGURE 8.7-1



8.7 MEDICAL DRILL DATA (con't)

FIGURE 8.7-2

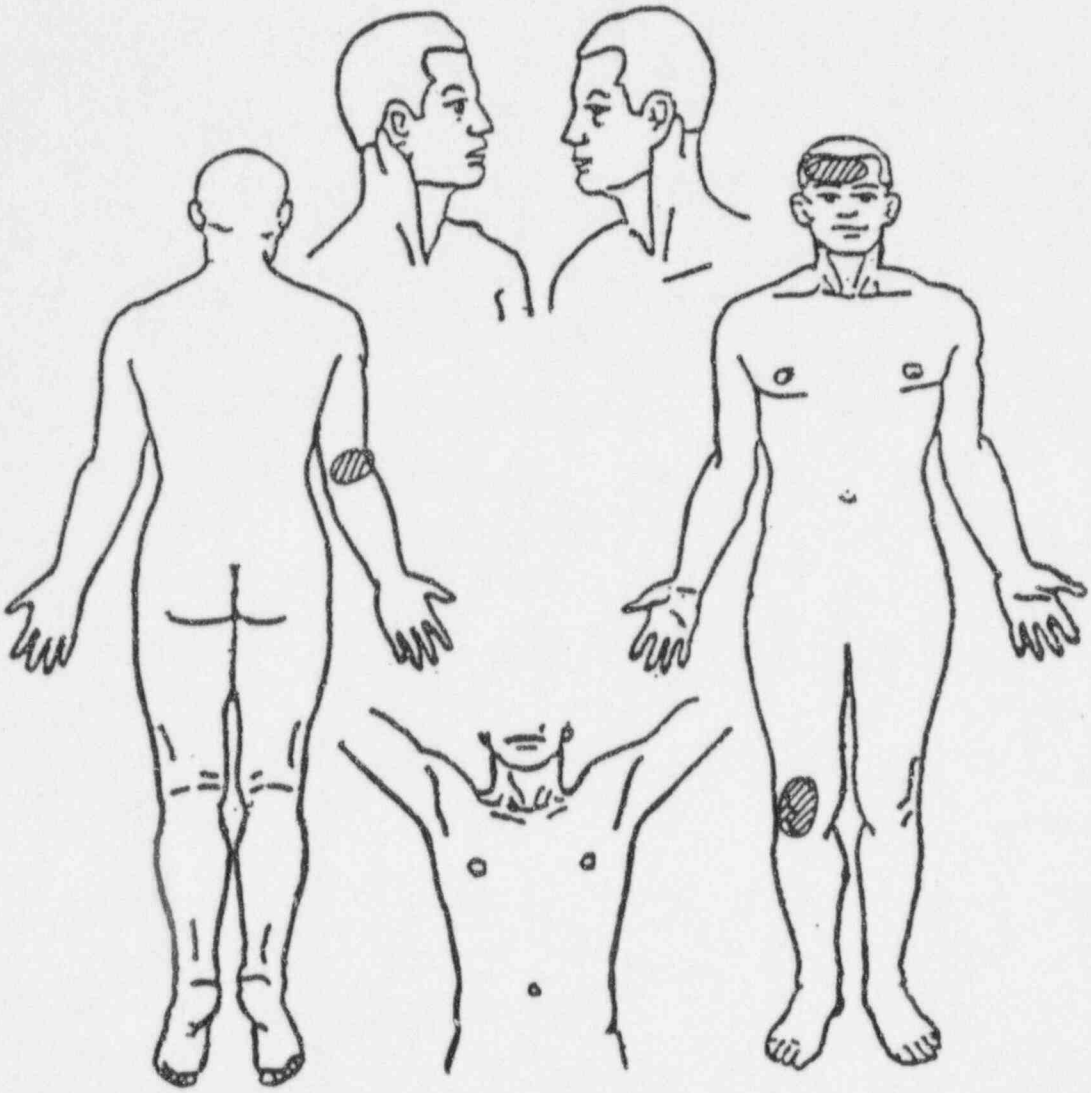
PATIENT INJURIES



8.7 MEDICAL DRILL DATA (con't)

FIGURE 8.7-3

PATIENT CONTAMINATION LEVELS

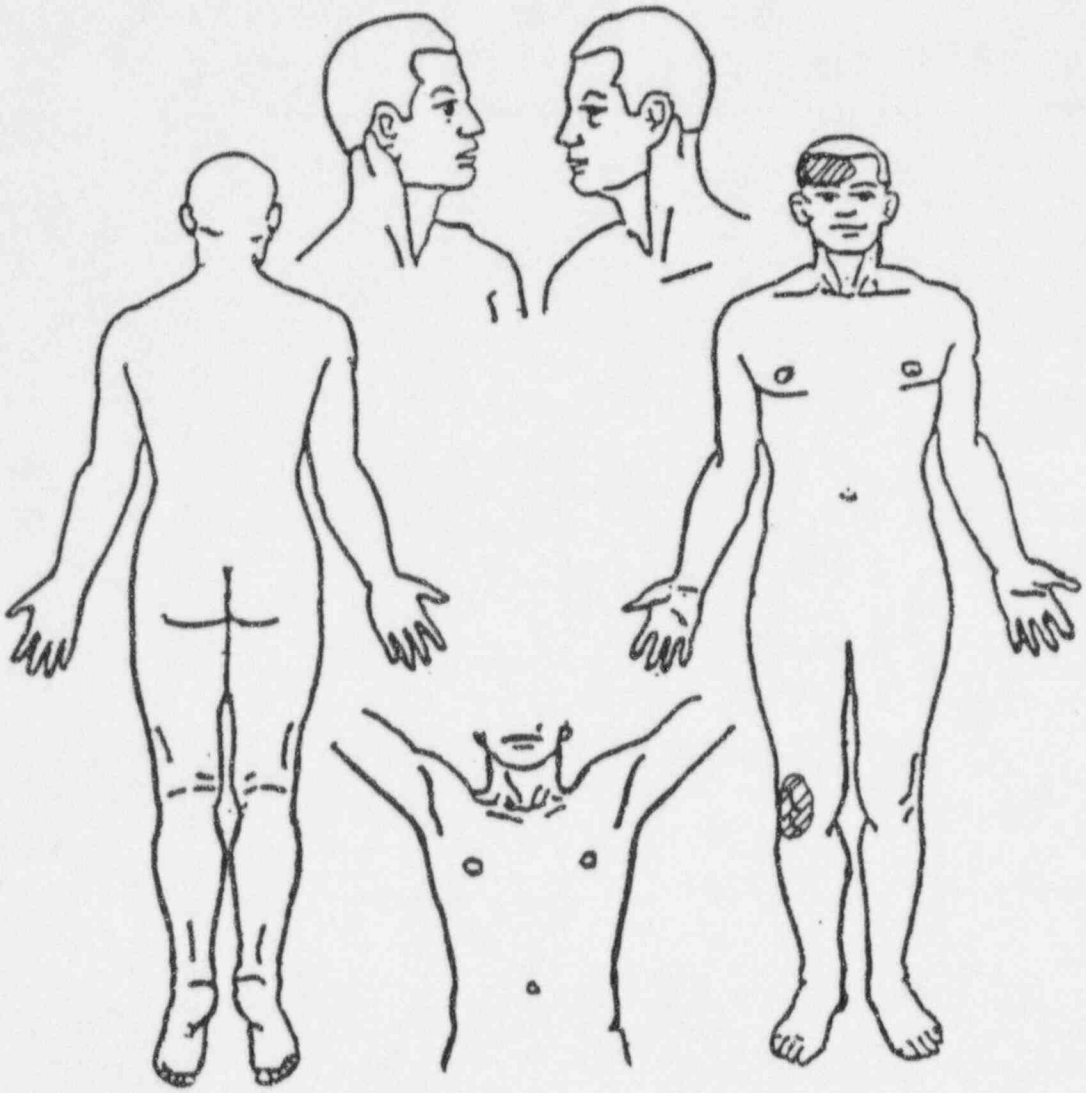


	INITIAL READING WITH PCS ON	AFTER PCS REMOVED
RT SIDE OF FOREHEAD	2000 CPM	200 CPM
RT ELBOW	BKGD	BKGD
RT KNEE	3000 CPM	2000 CPM

8.7 MEDICAL DRILL DATA (con't)

FIGURE 8.7-4

PATIENT CONTAMINATION LEVELS



	AFTER FIRST DECON	AFTER SECOND DECON
RT SIDE OF FOREHEAD	BKGD	BKGD
RT KNEE	1000 CPM	BKGD

8.7 MEDICAL DRILL DATA (con't)

FIGURE 8.7-5

RADIATION PROTECTION SURVEY FORM
ED 7895

SURVEY NUMBER	R.W.P. NUMBER
95-10192 10	95-10002

BUILDING	ELEVATION	AREA/ROOM/SYSTEM	DATE	TIME
LLRWSF	585'	DAW CELL AREA & TRUCK BAY	9-15-95	1715

PURPOSE	% POWER
MONTHLY M-13	100

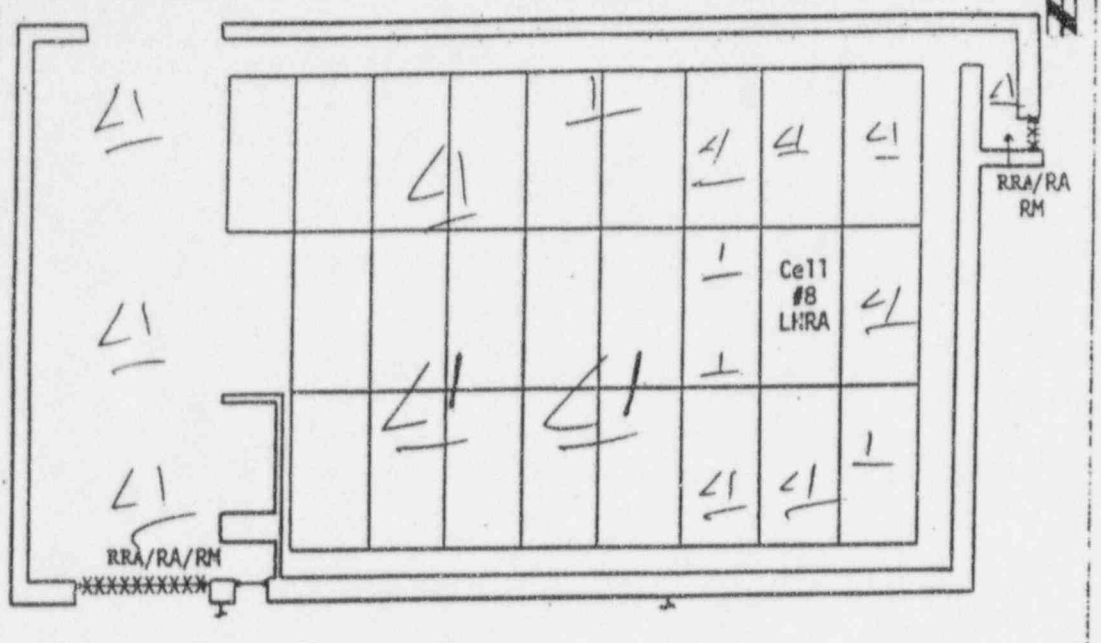
LEGEND

All radiation readings are in mrem/hr unless otherwise noted.

○ - SMEAR △ - NEUTRON β⁻ - BETA □ - AIR SAMPLE ★ - CONTACT

RA - RADIATION AREA HRA - HIGH RADIATION AREA CA - CONTAMINATED AREA HCA - HIGH CONTAMINATION AREA

RM - RADIOACTIVE MATERIAL LHRA - LOCKED HIGH RADIATION AREA



MASSLIN SMEAR OF
CLEAN FLOOR AREA:
<1000 DPM/PROBE AREA

INSTRUMENTS USED

MODEL NUMBER	ID NUMBER	CAL DUE DATE
Friskfed	27282	10-22-95
RSO-5	27276	9-27-95

PREPARED BY:

NAME (Print)	SIGNATURE	DATE
Bill Martin		9-15-95

APPROVED BY:

NAME (Print)	SIGNATURE	DATE
Peck		9/15/95

REVIEWED BY:

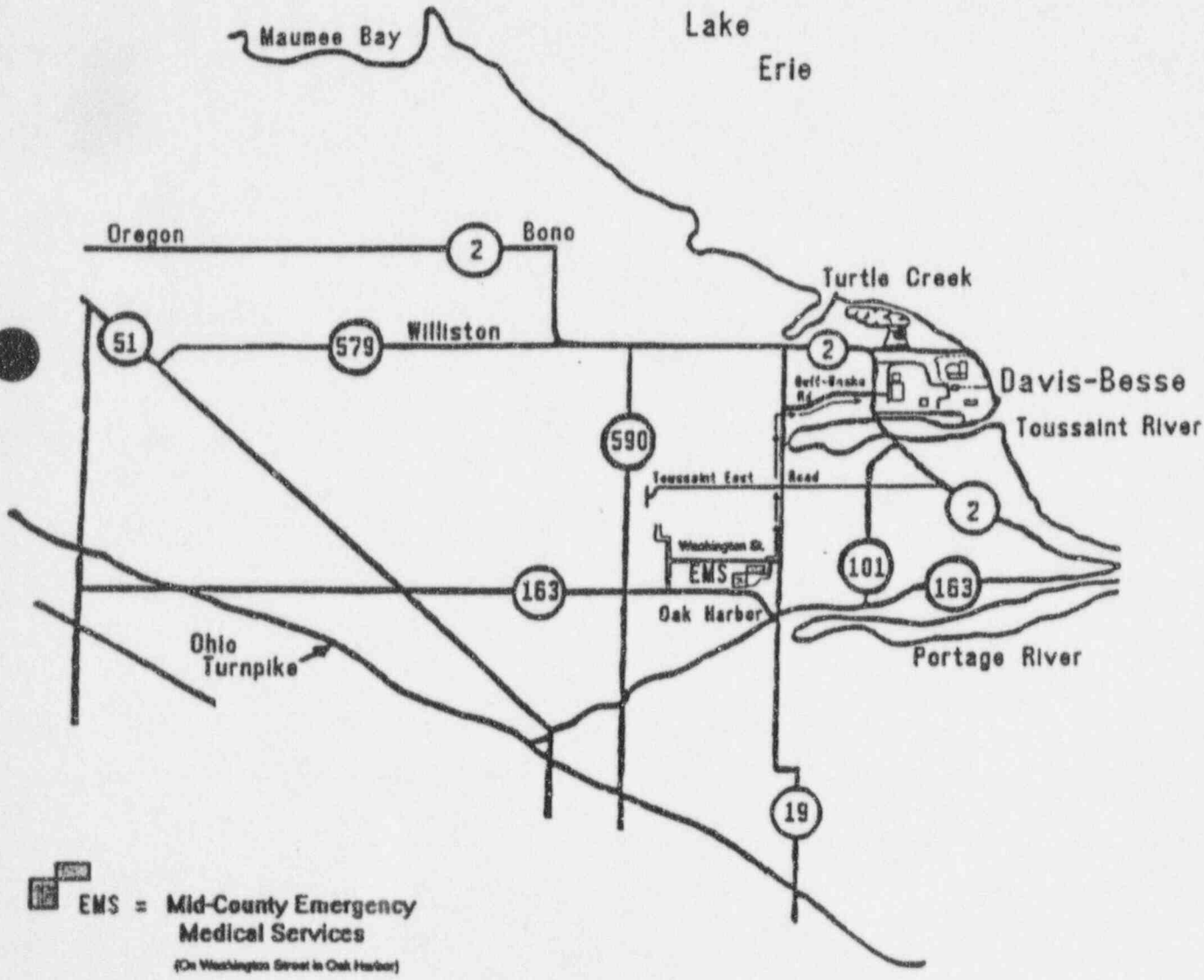
NAME (Print)	SIGNATURE	DATE

PAGE 1 OF 2 PAGES

8.7 MEDICAL DRILL DATA (con't)

MID-COUNTY EMS

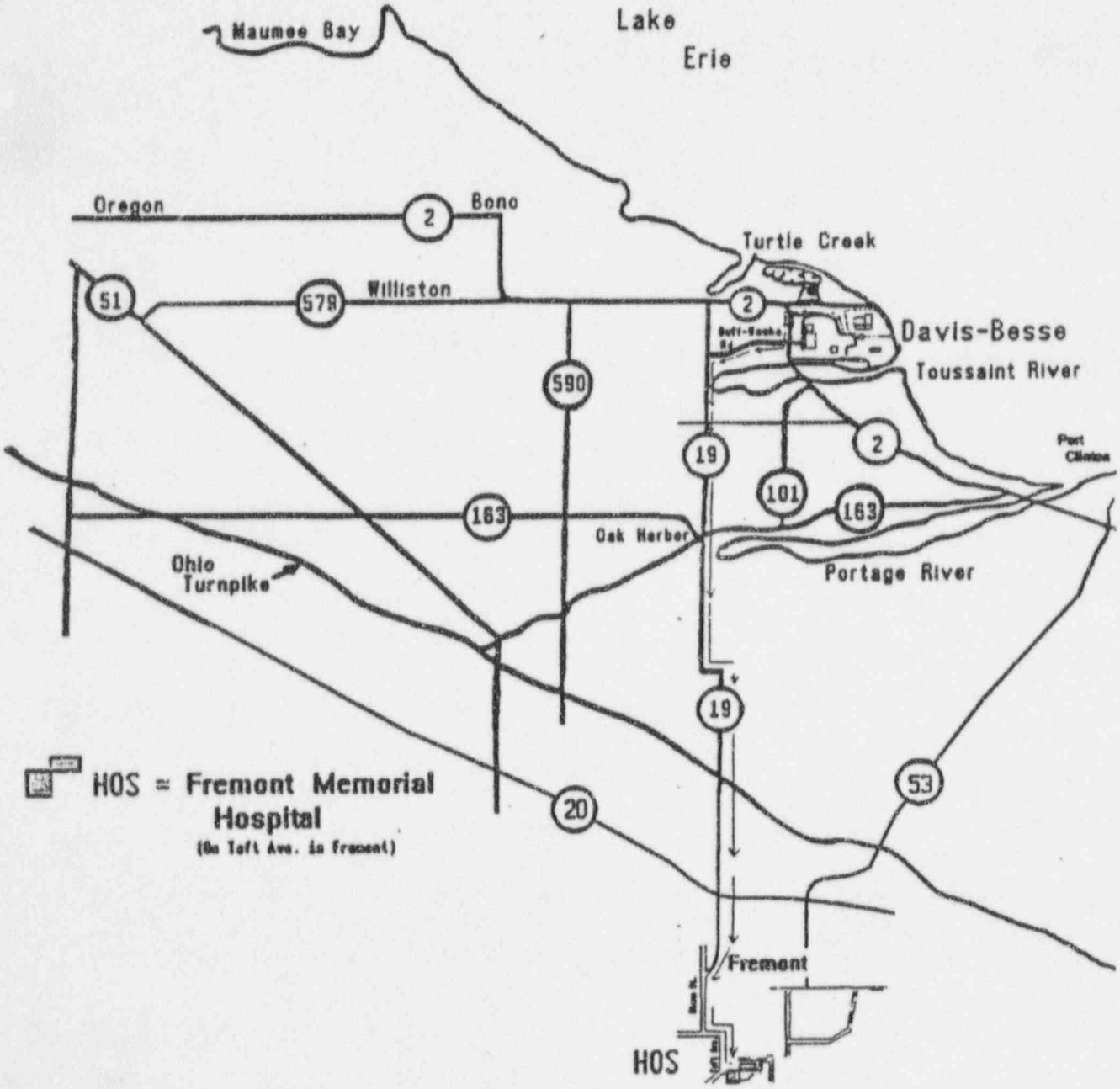
FIGURE 8.7-6



8.7 MEDICAL DRILL DATA (con't)

FREMONT MEMORIAL HOSPITAL LOCATION

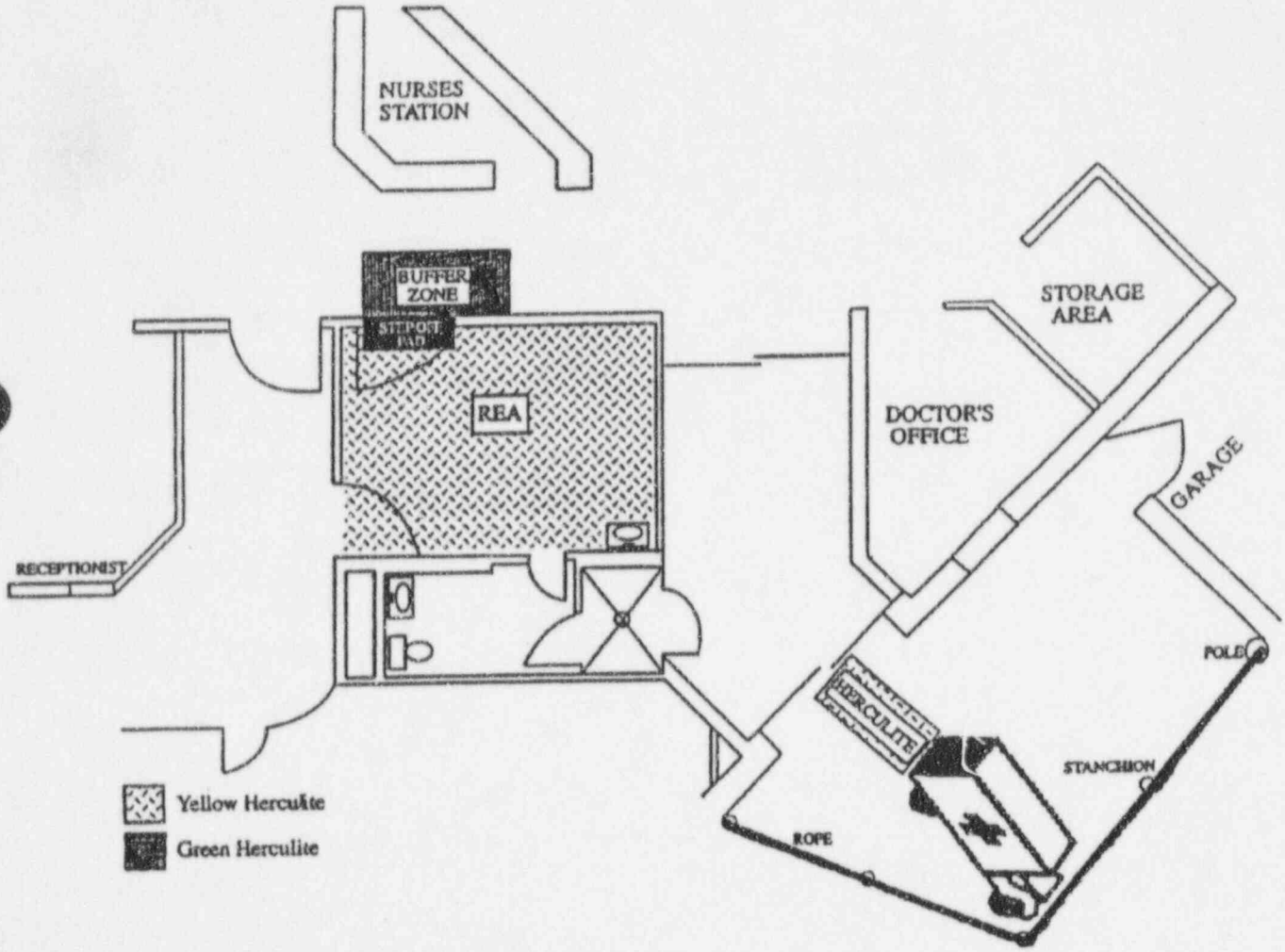
FIGURE 8.7-7



8.7 MEDICAL DRILL DATA (con't)

FREMONT MEMORIAL HOSPITAL RADIATION EMERGENCY AREA

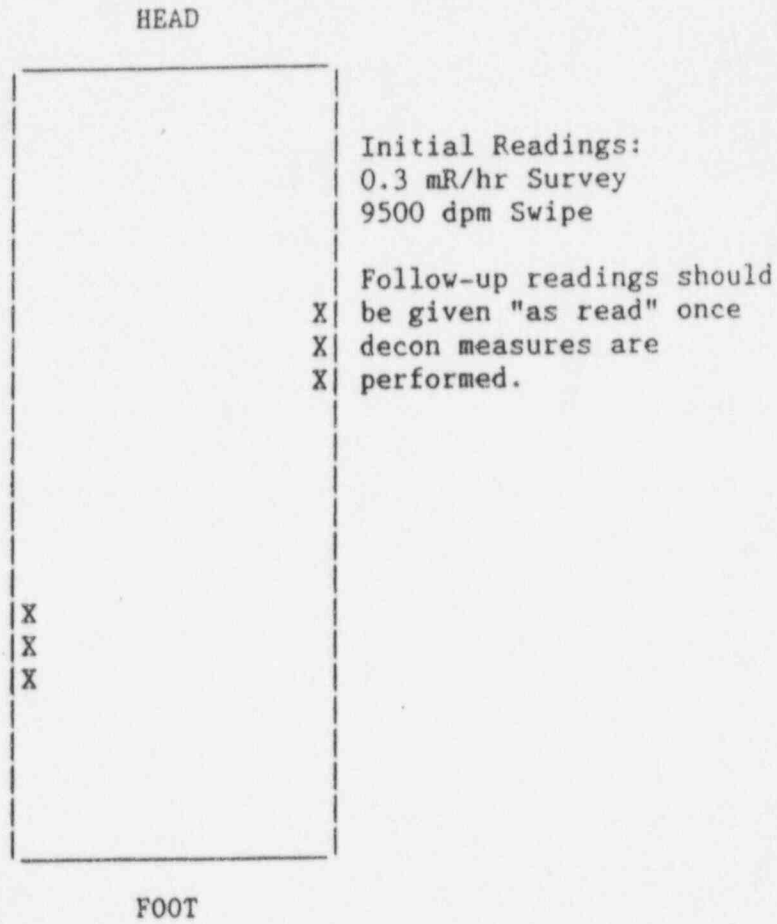
FIGURE 8.7-8



8.7 MEDICAL DRILL DATA (con't)

STRETCHER/BACKBOARD CONTAMINATION

FIGURE 8.7-9



XXXX
XXXX = Area of contamination on backboard.

Should be noted by Rad Tech "clearing" equipment for return to EMS.

MEDICAL EVENTS TIMELINE

TABLE 8.7-1

T-Time	Real Time	
00/00	1000	Worker is found injured.
00/01	1001	Search and Rescue Team Member notifies Control Room (Simulator).
00/02	1002	Control Room sounds the Initiate Emergency Procedures alarm.
00/10	1010	First Aid Team and Radiation Protection personnel arrive on scene and commence patient assessment and treatment.
00/15	1015	First Aid Team Leader requests offsite medical assistance, also advises the Control Room the injured victim is contaminated and provides a brief assessment of injuries, injured's name and employer.
00/20	1020	SAS notifies Oak Harbor Police Department Dispatcher of need to dispatch ambulance to respond to contaminated injury at Davis-Besse. SAS also notifies Fremont Memorial Hospital of impending arrival of contaminated injured victim.
00/21	1021	The Oak Harbor Police Dispatcher tones out Mid-County EMS since Carroll Township EMS is (simulated) to be out on another call.
00/30	1030	Fremont Memorial Hospital personnel begin setting up the Radiation Emergency Area for receipt of the contaminated victim.
00/40	1040	Mid-County EMS arrives onsite, picks up security escort and contamination control kit at the Personnel Processing Facility.
00/45	1045	Mid-County EMS arrives at injury scene. First Aid Team turns over victim (i.e., patient) for EMS assessment and treatment.
01/00	1100	Mid-County EMS leaves scene with patient.
01/05	1105	Mid-County EMS leaves site boundary for Fremont Memorial Hospital.
01/30	1130	Mid-County EMS arrives at Fremont Memorial Hospital.
01/35	1135	Patient is taken to Hospital Radiation Emergency Area for treatment and decontamination.
01/40	1140	Patient in Radiation Emergency Area. Stabilization and decontamination begins.

MEDICAL EVENTS TIMELINE

TABLE 8.7-1 (Continued)

T-Time	Real Time	
02/10	1210	Mid-County EMS personnel and equipment (including the ambulance) are monitored, deconned and released.
02/20	1220	Patient decontamination is completed.
02/25	1225	Patient is transported to Emergency Room Area for final treatment and hospital admittance.
02/45	1245	Hospital personnel exit Radiation Emergency Area.
02/50	1250	Medical Drill is terminated at the hospital.

8.8 MEDICAL DRILL CUE CARDS

This section provides cue cards that will be needed to relay injured victim data to Players who are responding to the medical emergency.

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-1

TO: First Aid Team TIME: 10:10

T: 00/10

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Initial medical data:

RESP - 18 PULSE - 100, Regular/Strong SKIN - Normal

B/P - 138/78 PUPILS - Equal/Reactive

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-1

TO: FAT Controller

TIME: 10:10

T: 00/10

ANTICIPATED RESPONSE:

Treatment provided to victim.

INSTRUCTIONS:

Initially have victim in the Low Level Radwaste Storage Facility, Elevation 585' (refer to Figure 8.7-1) Provide the information from this cue card after the team arrives and begins to assess victim's vital signs.

The victim should be dressed out with moulage that indicates (refer to figure 8.7-2):

1. Contusion to the forehead
2. Bruised right elbow
3. Lacerated knee

The individual playing the part of the victim should indicate being conscious, but irritated.

Injury summary: Chief complaint - disoriented and pain in right knee. The knee shows some bruising, deformation, swelling, and light bleeding Additional injuries: slight bruise to right elbow and a contusion to the forehead. No physical indication of neck or back injury.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise

CUE CARD NO. MD-1a

TO: Oak Harbor Police Dispatcher

TIME: 10:15

T: 00/15

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

For purposes of the Exercise:

DISPATCH MID-COUNTY EMS TO DAVIS-BESSE NUCLEAR POWER STATION.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD 1a

TO: Oak Harbor Police Dispatcher Controller

TIME: 10:15

T: 00/15

ANTICIPATED RESPONSE:

Oak Harbor Police Department Dispatcher dispatches an EMS squad to Davis-Besse.

INSTRUCTIONS:

1. Normally Carroll Township is dispatched to Davis-Besse Nuclear Power Station. For purposes of the Exercise, the Mid-County EMS squad will be dispatched.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-2

TO: Rad Protection Technician TIME: 10:10

T: 00/10

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Initial radiological data (in cpm):

FACE - BKGD	HAIR - BKGD.	CHEST - BKGD	BACK - BKGD.
R ARM - BKGD	L ARM - BKGD.	R LEG - BKGD	L LEG - BKGD.
HAND - BKGD	R. KNEE - 3K	FOREHEAD - 2K	

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-2

TO: RP Controller

TIME: 10:10

T: 00/10

ANTICIPATED RESPONSE:

Surveys and determines victim to be contaminated.

INSTRUCTIONS:

Provide cue card information after the RP Tech arrives and begins to survey the victim. The cue card itself should not be handed to the RP Tech, instead provide the readings as the survey meter is passed over the contaminated areas of the victim's body (refer to Figure 8.7-3). These areas include the upper right knee, the right elbow and the forehead.

If the RP Tech requests the area survey map, provide Figure 8.7-5.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-3

TO: Mid-County EMS TIME: 10:45

T: 00/45

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Medical data after treatment:

RESP - 16 PULSE - 92, Regular/Strong SKIN - Normal

B/P - 136/78 PUPILS - Equal Reactive

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-3

TO: EMT Controller

TIME: 10:45

T: 00/45

ANTICIPATED RESPONSE:

Victim (patient) is stabilized and immobilized, i.e., readied for transport.

INSTRUCTIONS:

Provide information after EMT's from Mid-County begin examining victim.

The victim should indicate being conscious and alert.

Injury Summary: Patient is alert and disoriented. Chief complaint continues to be pain in the right knee. Patient is stable and immobilized; ready for transport.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-4

TO: Rad Protection Technician TIME: 10:50

T: 00/50

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Radiological data in cpm (with clothes on):

FACE - BKGD.	HAIR - BKGD.	CHEST - BKGD.	BACK - BKGD.
R ARM - BKGD.	L ARM - BKGD.	R LEG - BKGD.	L LEG - BKGD.
HAND - BKGD.	R. KNEE - 3K	FOREHEAD - 2K	

Radiological data in cpm (if clothes removed):

FACE - BKGD.	HAIR - BKGD.	CHEST - BKGD.	BACK - BKGD.
R ARM - BKGD.	L ARM - BKGD.	R LEG - BKGD.	L LEG - BKGD.
HAND - BKGD.	R. KNEE - 2K	FOREHEAD - 2K	

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-4

TO: RP Controller

TIME: 10:50

T: 00/50

ANTICIPATED RESPONSE:

Victim is readied for "clean" transfer to ambulance.

INSTRUCTIONS:

Provide information as appropriate to the victim's condition, i.e., with clothes on or if outer clothes have been removed.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-5

TO: Mid-County EMS TIME: 11:05

T: 01/05

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Medical data while in transit to hospital:

RESP - 16	PULSE - 80, Regular/Strong	SKIN - Normal
B/P - 128/76	PUPILS - Equal/Reactive	

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-5

TO: EMT Controller

TIME: 11:05

T: 01/05

ANTICIPATED RESPONSE:

Patient is maintained stable and vital signs are monitored during transport to Fremont Memorial Hospital.

INSTRUCTIONS:

Provide information as necessary during drive to Fremont Memorial Hospital.

The patient should indicate remaining conscious and alert.

Note: Radiological data is provided on cue card MD-4.

Injury Summary: Patient is alert and oriented. Pain continues in the right knee. Patient has motor and sensory ability in both extremities. Distal pulse is present, capillary refill is immediate. Patient is stable during transport to Fremont.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-6

TO: Hospital Staff TIME: 11:35

T: 01/35

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Initial medical data at Fremont Memorial Hospital:

RESP - 16 PULSE - 88, Regular/Strong SKIN - Normal

B/P - 130/80 PUPILS - Equal/Reactive

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-6

TO: Hospital Contoller

TIME: 11:35

T: 01/35

ANTICIPATED RESPONSE:

A "clean transfer" should occur from the ambulance to the REA.

Vital signs are checked and initial treatment provided.

INSTRUCTIONS:

Provide this information after the hospital staff begins examining patient.

Note: Radiological data should be provided as on cue card MD-4. Prior to release of the Mid-County EMS, the ambulance backboard should be simulated being contaminated as per Figure 8.7-9.

Injury Summary: Patient remains alert and oriented. Pain continues in right knee. Patient is properly assessed, treated and stabilized for decon.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-7

TO: Hospital Staff TIME: 11:40

T: 01/40

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Medical data:

RESP - 16 PULSE - 88, Regular/Strong SKIN - Normal

B/P - 130/80 PUPILS - Equal/Reactive

Radiological data in cpm after first decon attempt:

FACE - BKGD. HAIR- BKGD. CHEST - BKGD. BACK - BKGD.

R ARM - BKGD. L ARM - BKGD. R LEG - BKGD. L LEG - BKGD.

HAND - BKGD. R. KNEE - 1K FOREHEAD - BKGD.

General contamination is removed; hot spots remain.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-7

TO: Hospital Controller

TIME: 11:40+

T: 01/40+

ANTICIPATED RESPONSE:

Patient is properly treated and stabilized during decon.

INSTRUCTIONS:

Provide information following first decon.

Patient should continue to indicate being conscious and alert; experiences pain from the decon methods used on the contusions and right knee.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS EXERCISE CUE CARD

SCENARIO NO. 1995 Evaluated Exercise CUE CARD NO. MD-8

TO: Hospital Staff TIME: 12:00+

T: 02/00+

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

****

INFORMATION:

Medical data:

RESP - 18 PULSE - 80, Regular/Strong SKIN - Normal

B/P - 130/80 PUPILS - Equal/Reactive

Radiological data in cpm afer final decon:

FACE - BKGD. HAIR - BKGD. CHEST - BKGD. BACK - BKGD.

R ARM - BKGD. L ARM - BKGD. R LEG - BKGD. L LEG - BKGD.

HAND - BKGD. R. KNEE - BKGD. FOREHEAD - BKGD.

Patient successfully deconned to satisfactory levels; is successfully removed from the REA.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. MD-8

TO: Hospital Controller

TIME: 12:00

T: 02/00

ANTICIPATED RESPONSE:

Patient treated, stabilized and deconnned ready to admit as a normal patient.

INSTRUCTIONS:

Provide this information following the final decon.

Patient should continue to indicate being conscious and alert requiring standard medical treatment.

****

THIS IS A DRILL

****

9.2 METEOROLOGICAL DATA SUMMARY

This section contains the meteorological parameters modeled to coincide with the scenario sequence of events.

It has been built into the Simulator data files in order to disseminate it over the Data Acquisition and Display System (DADS) during the drill.* Controllers should not provide hardcopy or verbal meteorological data to the Players as long as the Simulator is running. Players should obtain meteorological data from DADS as they would normally.

If the Simulator should malfunction however, during the course of the drill, controllers are then permitted to release the data provided in this section.

* This is at onsite emergency facilities only. The State of Ohio will receive this information on Cue Cards representing the data they would normally be able to access over the Nuclear Data System (NDS). Controllers at the State EOC in Columbus will issue NDS Cue Cards every 15 minutes.

METEOROLOGICAL CONDITIONS DATA SUMMARY

T:time	Time	100M WD	75M WD	10M WD	100M WS	75M WS	10M WS	100M SD	75M SD	10M SD
00/00	0700	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
00/15	0715	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
00/30	0730	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
00/45	0745	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
01/00	0800	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
01/15	0815	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
01/30	0830	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
01/45	0845	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
02/00	0900	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
02/15	0915	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
02/30	0930	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
02/45	0945	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
03/00	1000	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
03/15	1015	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
03/30	1030	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
03/45	1045	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
04/00	1100	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
04/15	1115	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
04/30	1130	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
04/45	1145	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
05/00	1200	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
05/15	1215	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
05/30	1230	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
05/45	1245	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
06/00	1300	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
06/15	1315	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
06/30	1330	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
06/45	1345	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
07/00	1400	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
07/15	1415	30.0	30.0	30.0	4.0	4.0	4.0	20.2	20.2	19.9
07/30	1430	35.0	35.0	35.0	4.0	4.0	4.0	19.1	19.1	19.5
07/45	1445	40.0	40.0	35.0	4.0	4.0	4.0	19.1	19.1	19.5
08/00	1500	40.0	40.0	40.0	4.0	4.0	4.0	19.5	19.5	19.1
08/15	1515	40.0	40.0	40.0	4.0	4.0	4.0	18.5	18.5	18.0
08/30	1530	40.0	40.0	40.0	4.0	4.0	4.0	18.5	18.5	18.0
08/45	1545	45.0	45.0	45.0	4.0	4.0	4.0	17.8	17.8	17.5
09/00	1600	45.0	45.0	45.0	4.0	4.0	4.0	17.8	17.8	17.5

Time	100-10M Delta T	75-10M Delta T	AMB Temp	100M Dew Pt	10M Dew Pt	Precip
0700	+2.8	+2.5	45.5	47.0	47.0	0.0
0715	+2.8	+2.5	45.5	47.0	47.0	0.0
0730	+2.8	+2.5	45.6	47.0	47.0	0.0
0745	+2.8	+2.5	45.6	47.0	47.0	0.0
0800	+2.8	+2.5	45.7	47.5	47.5	0.0
0815	+2.8	+2.5	45.7	47.8	47.8	0.0
0830	+2.8	+2.5	45.8	47.8	47.8	0.0
0845	+2.8	+2.5	45.8	47.8	47.8	0.0
0900	+2.8	+2.5	45.8	47.8	47.8	0.0
0915	+2.8	+2.5	45.8	47.9	47.9	0.0
0930	+2.8	+2.5	46.0	47.9	47.9	0.0
0945	+2.8	+2.5	46.0	49.0	48.9	0.0
1000	+2.8	+2.5	46.0	49.0	48.9	0.0
1015	+2.8	+2.5	46.1	49.0	48.9	0.0
1030	+2.8	+2.5	46.1	49.0	49.0	0.0
1045	+2.8	+2.5	46.1	49.1	49.0	0.0
1100	+2.8	+2.5	46.1	49.1	49.0	0.0
1115	+2.8	+2.5	46.2	49.1	49.0	0.0
1130	+2.8	+2.5	46.2	49.4	49.0	0.0
1145	+2.8	+2.5	46.2	49.4	49.2	0.0
1200	+2.0	+2.5	46.3	49.4	49.2	0.0
1215	+2.0	+2.5	46.3	49.4	49.2	0.0
1230	+2.0	+1.8	46.3	49.6	49.4	0.0
1245	+2.0	+1.8	46.5	49.6	49.4	0.0
1300	+2.0	+1.8	46.5	49.7	49.4	0.0
1315	+2.0	+1.8	46.5	49.7	49.5	0.0
1345	+2.0	+1.8	46.6	49.8	49.5	0.0
1400	+2.0	+1.8	46.6	49.8	49.5	0.0
1415	+2.0	+1.8	46.7	49.9	49.7	0.0
1430	+2.0	+1.8	46.7	49.9	49.7	0.0
1430	+2.0	+1.8	46.8	49.9	49.7	0.0
1445	+2.0	+1.8	46.8	49.9	49.7	0.0
1500	+2.0	+1.8	46.9	49.9	49.8	0.0
1515	+2.0	+1.8	46.9	49.9	49.8	0.0
1530	+2.0	+1.8	47.1	49.9	49.8	0.0
1545	+2.0	+1.8	47.1	50.0	50.0	0.0
1600	+2.0	+1.8	47.2	50.0	50.0	0.0

METEOROLOGICAL OVERVIEW AND FORECAST INFORMATION

OVERVIEW:

- The day is slightly overcast with temperatures below normal at ~45°F.
- Some precipitation occurs late in the day.
- The Control Room Simulator will display meteorological data based on pre-selected parameters. The data will be provided to other onsite emergency facilities by the Simulator via the Data Acquisition and Display System (DADS) terminals. Data will be provided to the State Dose Assessment Center in Columbus by the use of hard-copy data sheets provided by Controllers every 15 minutes.
- Whereas some of the weather conditions presented in this scenario may be unlikely for the time of year, or the time of day, they are given in order to support the Exercise scenario.

FORECAST:

- Wind direction will be from 30° at wind speeds of 4 mph.
- The winds are expected to shift to the southeast around 2:00 this afternoon.

CONTROL CELL GUIDANCE FOR PROVIDING NWS INFORMATION

TABLE 9.1-1

Instructions:

The Control Cell can release the following information when contacted by Players who need information from the National Weather Service (NWS). This information is normally provided by a telephone answering device at the Toledo Express Airport, however, for the purposes of the Exercise the Control Cell can just read the following information when contacted:

- If a call for the NWS is received in the morning (08:00 AM to 12:00 PM) hours, read the following:

  "THIS IS A DRILL. WEATHER CONDITIONS FOR WEDNESDAY MORNING, SEPTEMBER 20TH...EASTERLY WINDS ARE EXPECTED FROM 3 TO 4 KNOTS, WAVES AROUND 2 FEET. THURSDAY, WINDS FROM 5 TO 7 KNOTS, CREATING WAVES FROM THE SOUTHEAST TO 1 TO 2 FEET....FOR THE TOLEDO AREA, CLOUDY CONDITIONS, AT 47 DEGREES, WITH RELATIVE HUMIDITY AT 73%, BAROMETRIC PRESSURE AT 31.4 INCHES AND RISING. FOR THE AFTERNOON, TEMPERATURES SHOULD REMAIN CONSTANT WITH THE WIND BECOMING SOUTH EASTERLY AT 3 KNOTS...THIS IS THE NATIONAL WEATHER SERVICE AT THE TOLEDO EXPRESS AIRPORT. HAVE A GOOD DAY. THIS IS A DRILL."

- If a call for the NWS is received in the afternoon (12:00 PM to 3:00 PM) hours, read the following:

  "THIS IS A DRILL. WEATHER CONDITIONS FOR WEDNESDAY AFTERNOON, SEPTEMBER 20TH...NORTH EASTERLY WINDS AT 3 TO 4 KNOTS, WAVES AROUND 1 FEET. THURSDAY, WINDS FROM 5 TO 7 KNOTS, CREATING WAVES FROM THE SOUTHEAST TO 1 TO 2 FEET....FOR THE TOLEDO AREA, WE ARE CURRENTLY UNDER CLEARING SKIES, AT 50 DEGREES, WITH RELATIVE HUMIDITY AT 64%, BAROMETRIC PRESSURE AT 30 INCHES AND STEADY. THIS IS THE NATIONAL WEATHER SERVICE AT THE TOLEDO EXPRESS AIRPORT. HAVE A GOOD DAY. THIS IS A DRILL."

9.0 OFFSITE DOSE ASSESSMENT DATA, PLUME MAPS AND PUBLIC INFORMATION CUE CARDS

This section provides meteorological, offsite dose assessment data, and field monitoring response conditions.

9.1 METEOROLOGICAL FORECAST DATA

This section provides a general overview of meteorological conditions postulated for the day of the Exercise.

9.2 METEOROLOGICAL DATA SUMMARY

This section provides meteorological data in a tabular format for ease of review and for ease of locating a particular data point over an extended period of time.

9.3 ECC DOSE ASSESSMENT CENTER CUE CARDS

This section provides individual data sheets of meteorological (and other dose assessment parameters) data which can be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

9.4 RADIATION PLUME MAPS

This section provides controller guidance to any field team Controller who may be sent offsite with Radiation Monitoring Team Players during conduct of the Exercise. The maps display radiation levels based on time in the event for all locations downwind of the plant.

9.5 PUBLIC INFORMATION CUE CARDS

This section provides individual messages pertaining to the Toledo Edison public relations response and can be used to initiate and document actions taken by Players at the Joint Public Information Center.

9.1 METEOROLOGICAL FORECAST DATA

This section provides a general overview of meteorological conditions postulated for the day of the Exercise. This information plays an important role in the scenario for the following reasons:

- Wind conditions affect the dispersion of radionuclides to the environment when the radiation release occurs.
- Overall weather conditions must be factored into the public protective action decision-making process.

The Control Cell, representing the National Weather Service, can provide meteorological forecast data to Players as needed. Refer to Table 9.1-1.

9.3 ECC DOSE ASSESSMENT CENTER CUE CARDS

This section provides individual data sheets of meteorological (and other dose assessment parameters) data which can be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

PAGES 9-8 THROUGH 9-44 ARE RESERVED FOR ECC DOSE ASSESSMENT CENTER CUE CARDS

9.4 RADIATION PLUME MAPS

This section of the manual provides information needed by Controllers to simulate offsite radiation levels due to the radioactive plume that is released during the course of the Exercise.

The release path is: 1) at 0705 the failed fuel detector alarms, Chemistry samples RCS which indicates [I131] at 400 µCi/gm; 2) at 1215 a small leak in CTMT causes Control Room operators to piggy back High Pressure Injection (HPI) with Low Pressure Injection (LPI) afterwhich an HPI line break occurs in #2 Mechanical Penetration Room (MPR); 3) HP2B fails to close and RCS back flows through 2 check valves to the pipe break, causing RCS water to leak into #2 MPR at approximately 1225; 4) the Emergency Ventilation System (EVS) draws the radioactivity from #2 MPR to #4 MPR through the annulus and discharges it to station vent.

The release continues until 1400 when Maintenance personnel succeed in closing HP2B. Residual activity continues to be discharged by EVS until 1415. Thus, release duration can be considered to be 1.75 hours.

Is is assumed that 10% of the radioiodines in the primary coolant are dispersed from the coolant into the Containment atmosphere and potentially available for release to the environment. Normally, the station vent HEPA and charcoal filters play an important role in reducing the radioactive elements that are ultimately released from the plant. For this Exercise, the Station Vent HEPA filter efficiency is assumed to be 95%. Thus any particulates that may have been passed from the Containment building into the penetration rooms are essentially filtered out by the EVS. The charcoal filters are assumed to become saturated and therefore, allow most of the I_2 constituents to be released out the vent.

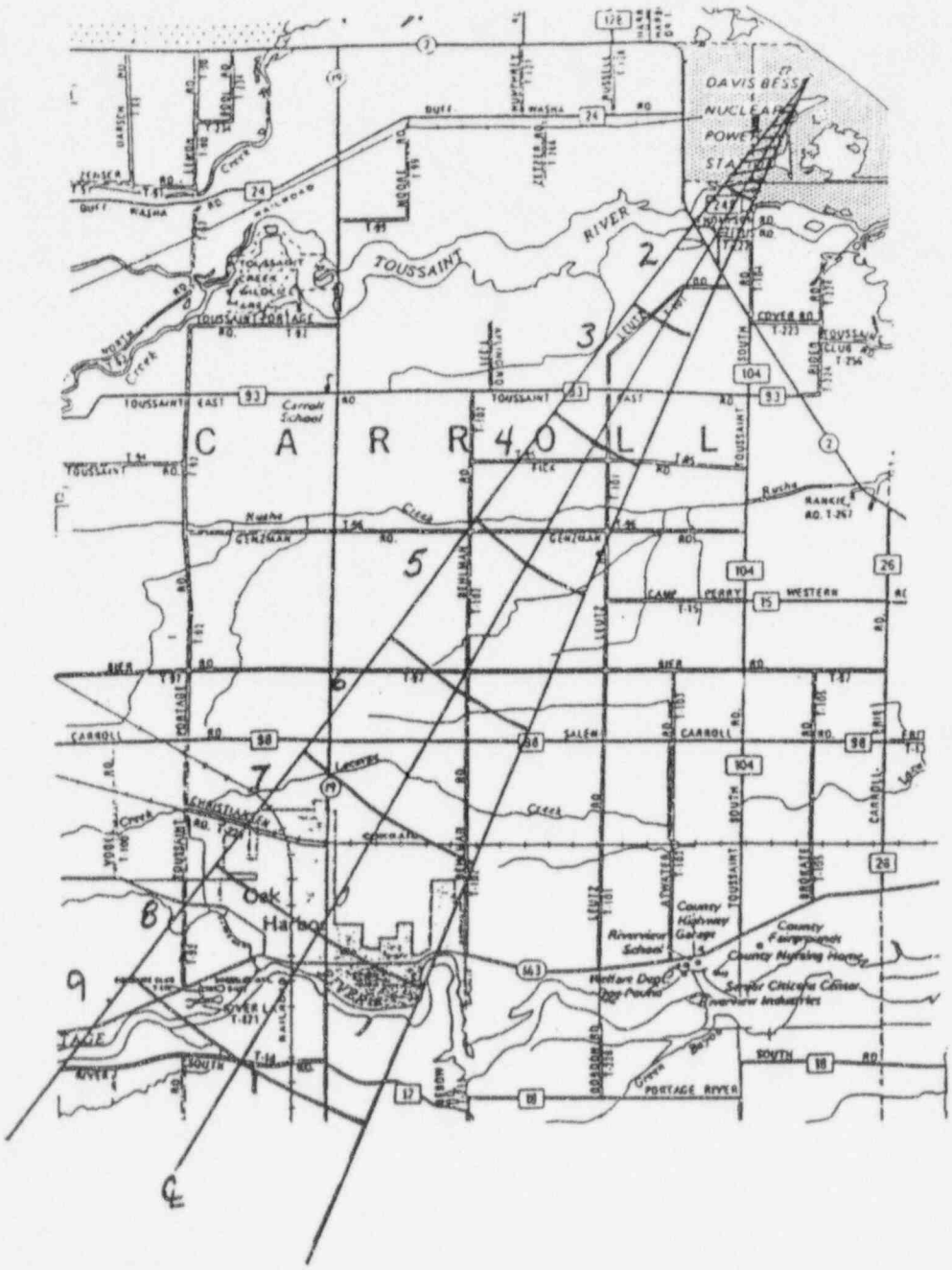
The meteorological conditions which form the basis for plume dispersion characteristics during the release time frame are as follows:

Wind speed	4 MPH
Wind direction (from)	30 degrees
Stability class	F

The Gaussian plume dispersion method was used to plot radioactivity concentrations downwind of the Station Vent. For the purposes of this Exercise, it is assumed the plume does not touch ground until 7/10's of a mile downwind (i.e., across site boundary). Using the lateral diffusion factor (σy) and a 1% plume concentration, the plume width can be determined at a distance of 5 miles downwind as being approximately 1.2 miles wide. These factors determined the size and position of the plume on the maps that follow in this section.

9.4 RADIATION PLUME MAPS (con't)

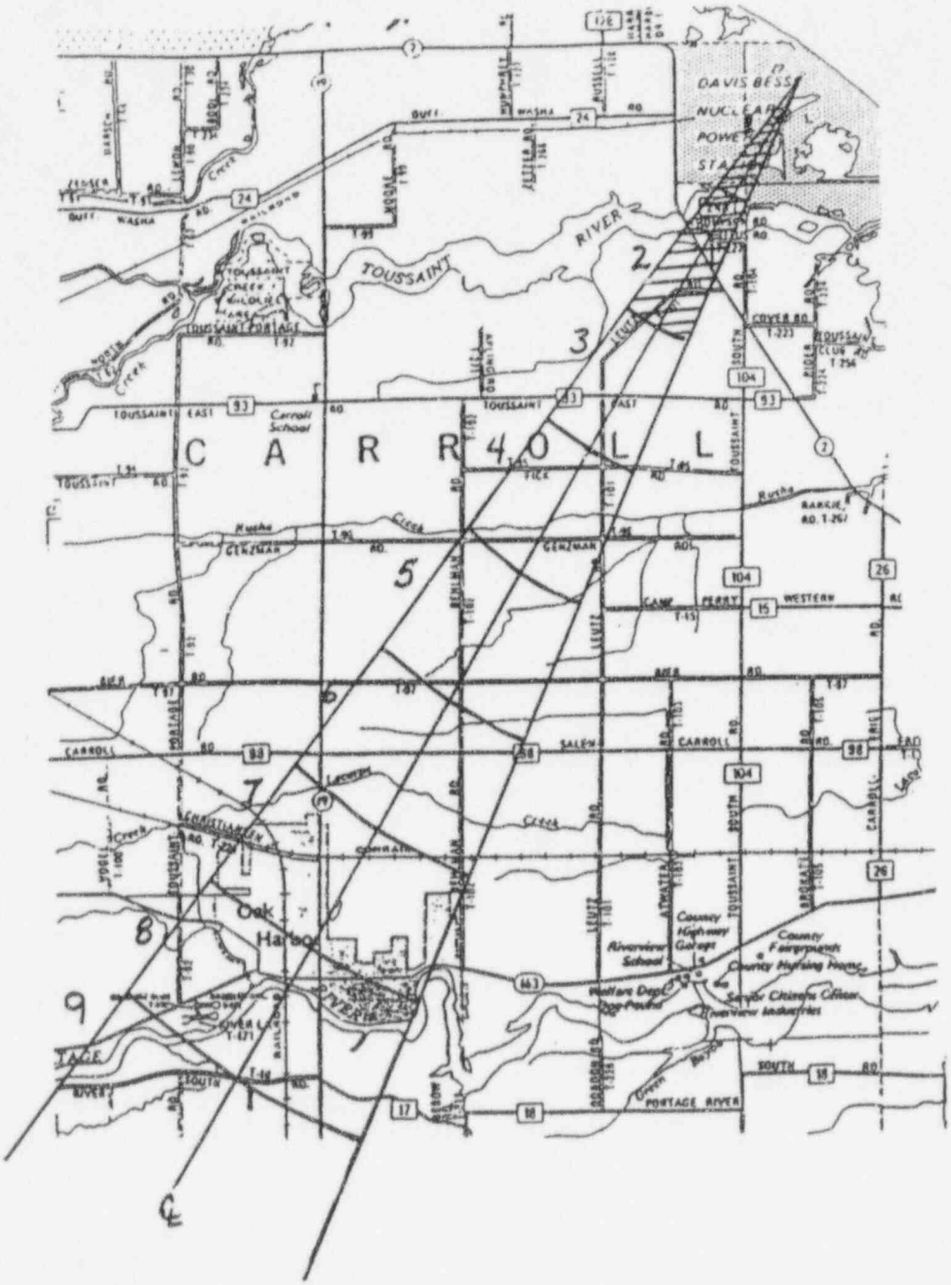
Radioactive Plume Travel Map for Time: 1245 - 1300



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	6" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	As Read	As Read	As Read	As Read	As Read
3	As Read	As Read	As Read	As Read	As Read
4	As Read	As Read	As Read	As Read	As Read
5	As Read	As Read	As Read	As Read	As Read
6	As Read	As Read	As Read	As Read	[illegible]
7	As Read	As Read	As Read	As Read	[illegible]
8	As Read	As Read	As Read	As Read	[illegible]
9	As Read	As Read	As Read	[illegible]	[illegible]

9.4 RADIATION PLUME MAPS (cont't)

Radioactive Plume Travel Map for Time: 1300 - 1315



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1300	1200	1650	As Read	As Read
3	As Read	As Read	As Read	As Read	As Read
4	As Read	As Read	As Read	As Read	As Read
5	As Read	As Read	As Read	As Read	As Read
6	As Read	As Read	As Read	As Read	As Read
[illegible]	As Read	As Read	As Read	As Read	As Read
[illegible]	As Read	As Read	As Read	As Read	As Read
[illegible]	As Read	As Read	As Read	As Read	As Read

Because of the relative short vent height and the potential for building wake effect, downwind dose projections made by the Players will be based on ground level release formulae. Thus, some differences can be expected between dose projected values and the values obtained by the field monitoring teams.

With the release containing primarily noble gases and iodines, all readings for particulates will be "as read". Values for radioiodines will be given by Controllers according to values indicated on the plume travel maps provided. These will be determined by reading the air sample I_2 cartridges using a PRM-6 or SAM-2 meter in CPM. Controllers should indicate whole body readings on the RSO-5 survey meter per the indicated values on the "Radioactivity Plume Travel Maps" provided on the following pages.

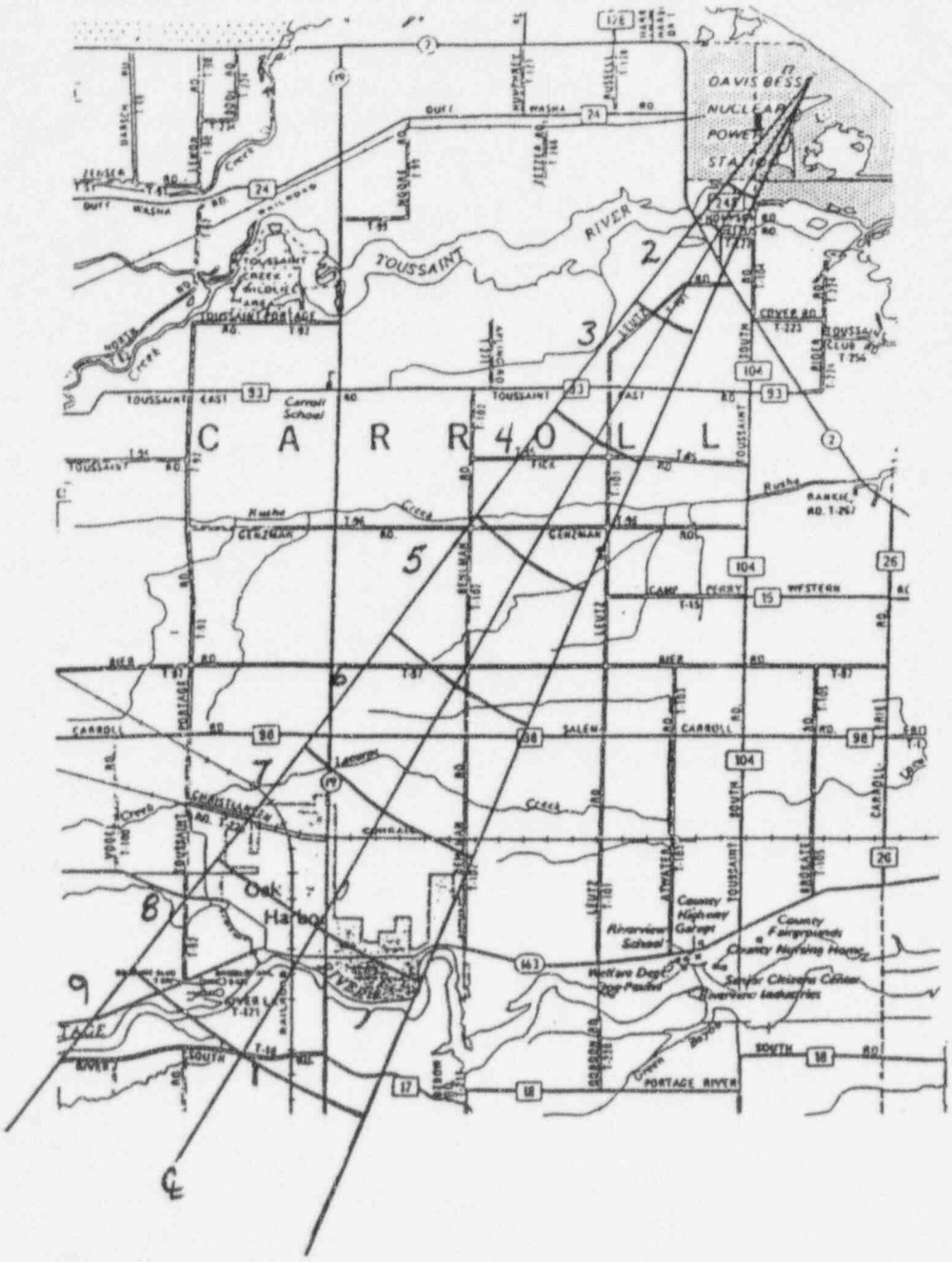
The air sample values (shown in cpm on the Radioactivity Plume Travel Maps) are based on a ten minute air sample, a standard sample taken by the RMT's, and should be relayed to the Players after they leave the plume and count the sample. If Players are directed to take a five minute sample, Controllers should divide the cpm values shown on the maps in half. In the Radiological Testing Laboratory, when a sample is counted on SAM-2, the Controller must take the field reading for the sample and multiply it by 4.73 to come up with the new countrate for the SAM-2.

As has been the practice and training in the past, Controllers must interpolate the readings on the maps to give the Players some indication of plume travel and the variation of radiation levels between the edges of the plume and plume centerline. The edge of the plume as indicated on the maps correlates to 0.2 mRem/hr. controllers should indicate survey meter readings steadily increasing up to the maximum centerline value as is given on the maps, using the roadways on the maps to approximate the plume centerline location.

Dosimeter readings can be extrapolated by taking the time a survey team remains in an area, times the dose rate from the plume map for the corresponding time block for the area, plus any additional exposure if the team had been in any other area for approximately 15 minutes, add 50 mRem to their cumulative dose (i.e., 15 minutes is one quarter of an hour so 200 divided by 4 equals 50). This is cumulative exposure and each Controller can keep track of their team's cumulative dose on the plume maps as the Exercise unfolds. Controllers should not overload themselves with this calculation. If time does not permit a quick extrapolation to be performed, Controllers can simply raise the Player's dosimeter reading by a small amount over their previous reading (e.g., 10mR) just for drill simulation purposes.

9.4 RADIATION PLUME MAPS (con't)

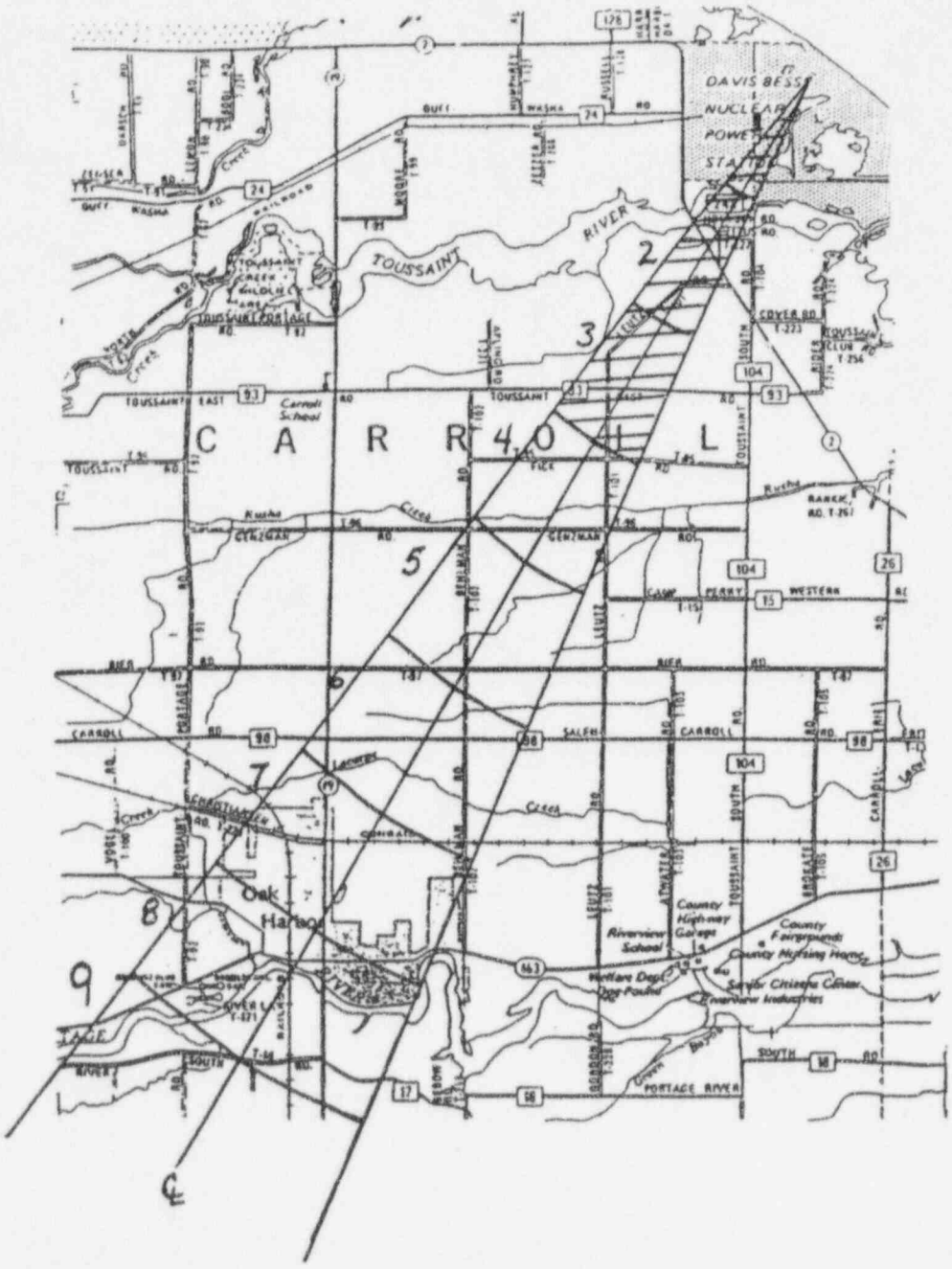
Radioactive Plume Travel Map for Time: 1230 - 1245



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	As Read	As Read	As Read	As Read	As Read
3	As Read	As Read	As Read	As Read	As Read
4	As Read	As Read	As Read	As Read	As Read
5	As Read	As Read	As Read	As Read	As Read
6	As Read	As Read	As Read	As Read	As Read
7	As Read	As Read	As Read	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

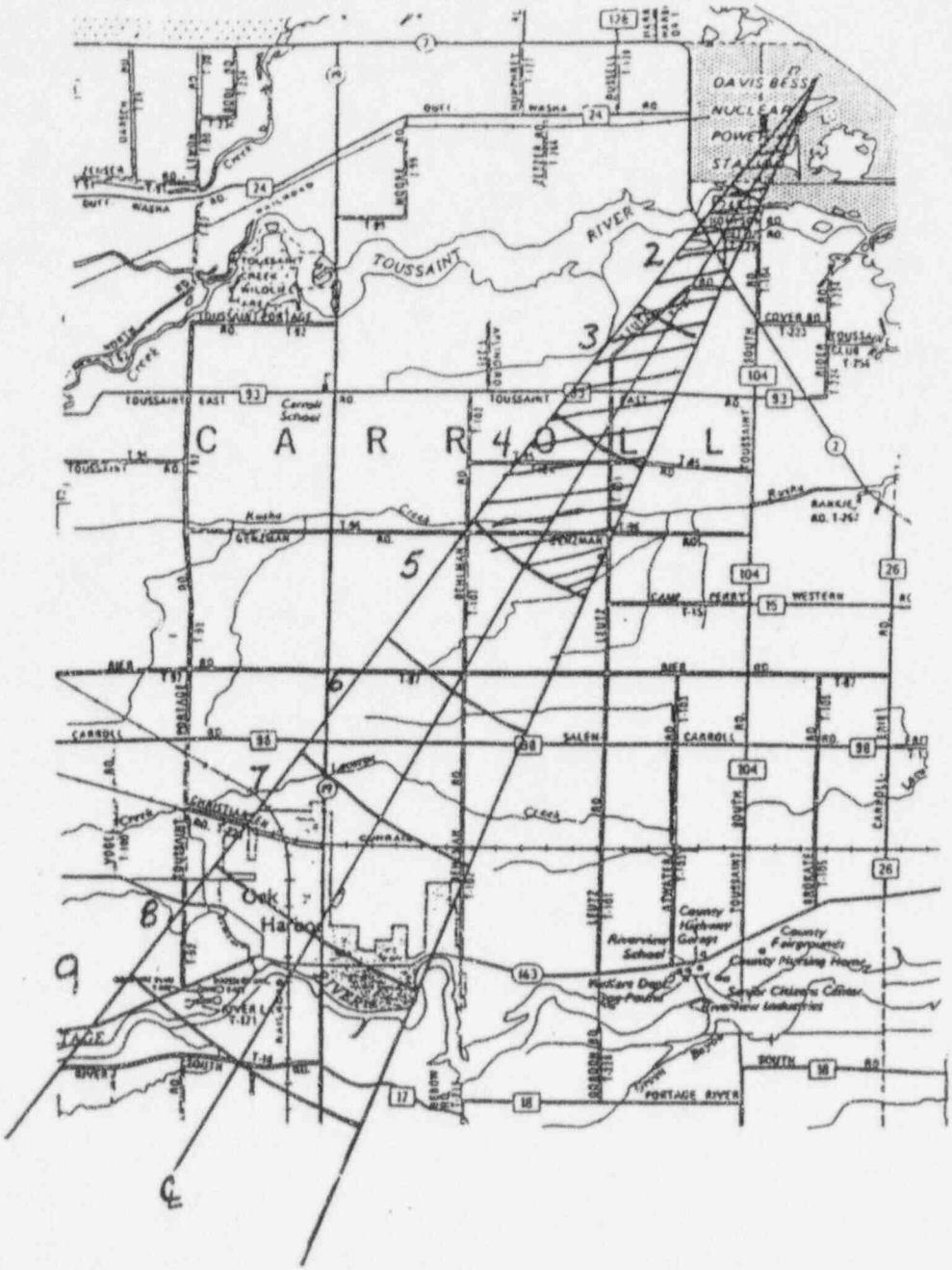
Radioactive Plume Travel Map for Time: 1315 - 1330



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	750	700	1000	As Read	As Read
4	As Read	As Read	As Read	As Read	As Read
5	As Read	As Read	As Read	As Read	As Read
6	As Read	As Read	As Read	As Read	As Read
7	As Read	As Read	As Read	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

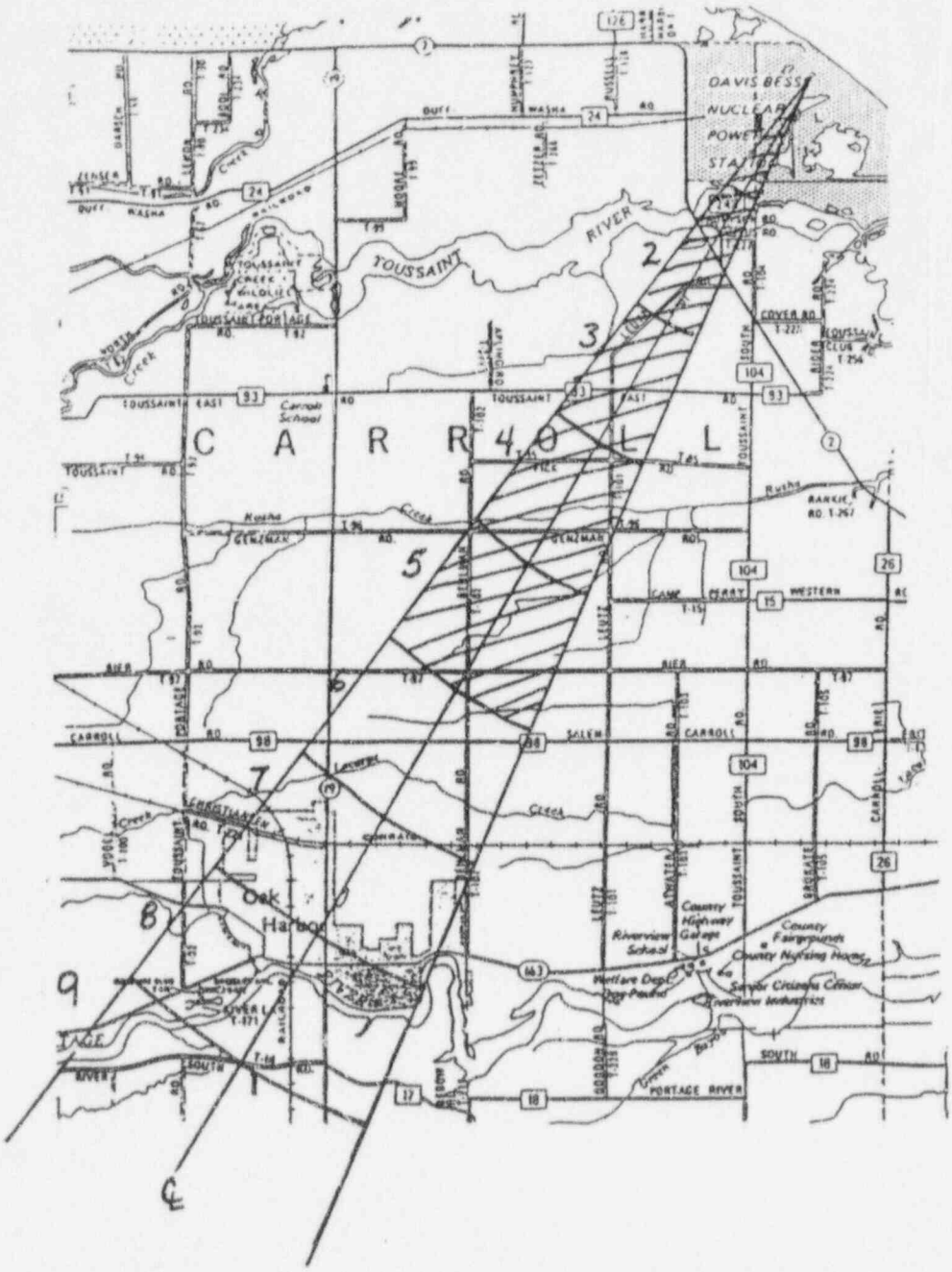
Radioactive Plume Travel Map for Time: 1330 - 1345



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	1200	1100	1550	As Read	As Read
4	550	500	700	As Read	As Read
5	As Read	As Read	As Read	As Read	As Read
6	As Read	As Read	As Read	As Read	As Read
7	As Read	As Read	As Read	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

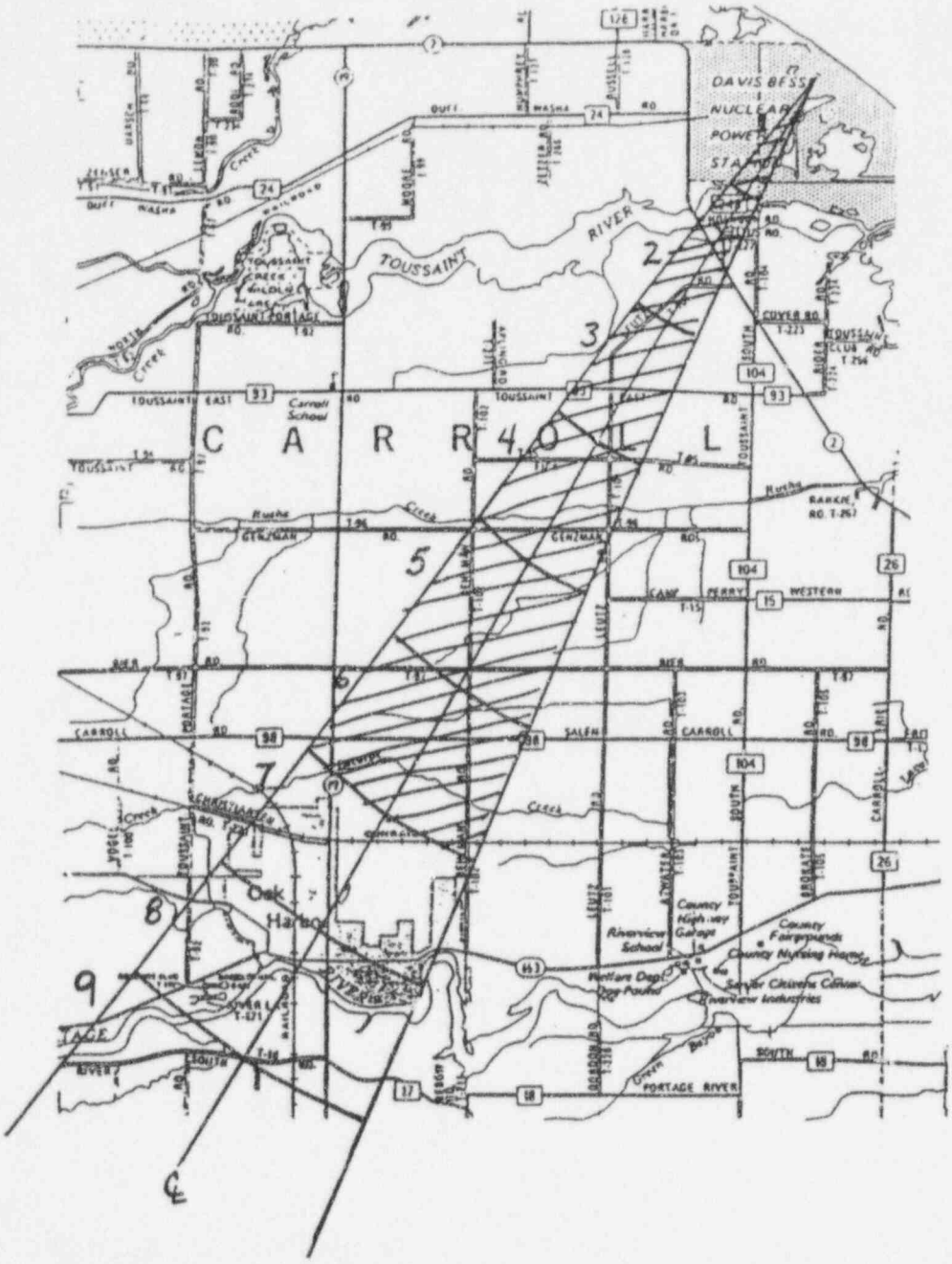
Radioactive Plume Travel Map for Time: 1345 - 1400



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	1200	1100	1550	As Read	As Read
4	800	750	1070	As Read	As Read
5	380	350	510	As Read	As Read
6	As Read	As Read	As Read	As Read	As Read
7	As Read	As Read	As Read	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

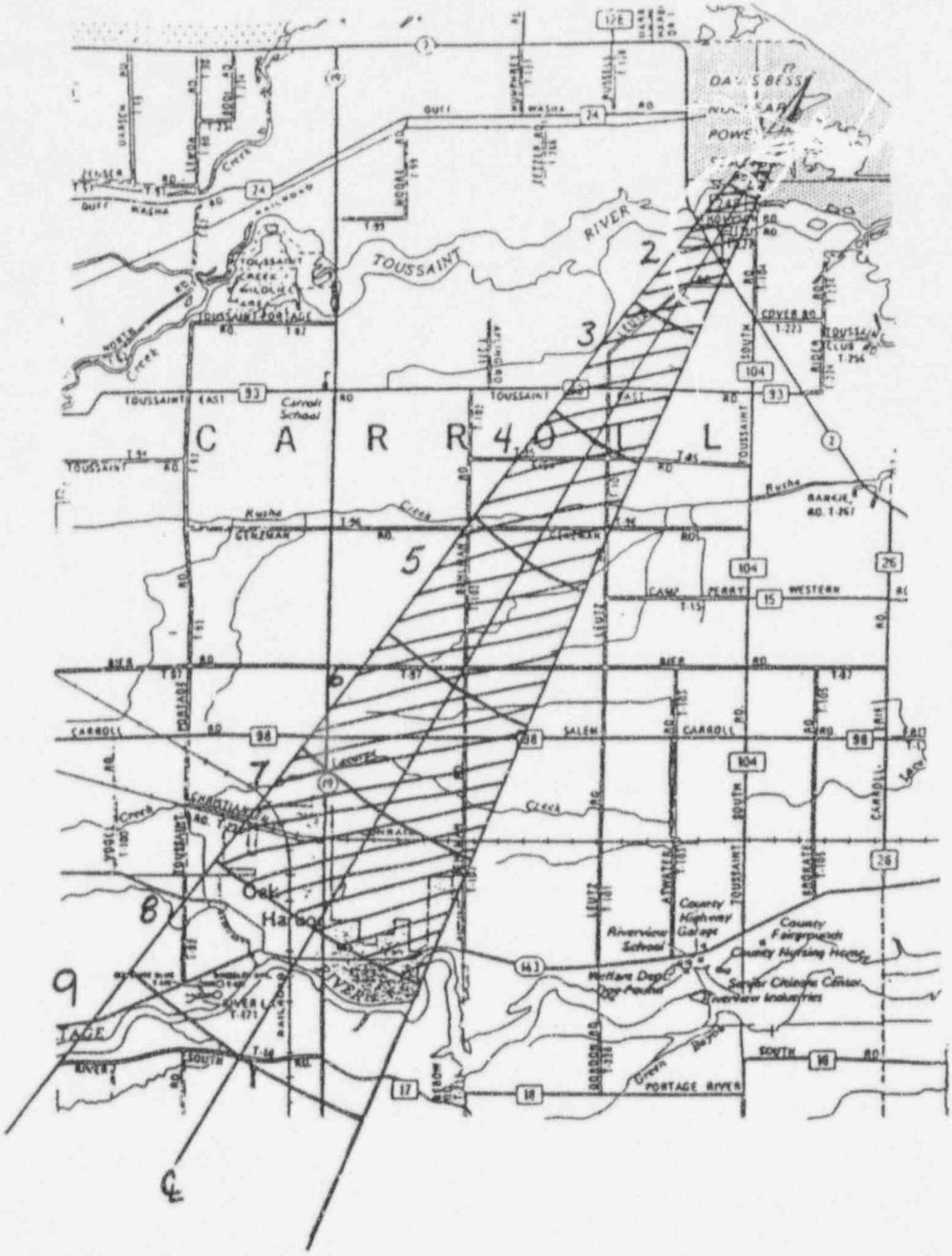
Radioactive Plume Travel Map for Time: 1400 - 1415



Plume Location	Survey Meter in mRem/hr		Samples in cpm		Smears in cpm
	Window Open	Window Closed	Car ge	Filter	8" 'S' swipe
1	(Refer to Onsite M. p in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	1200	1100	1550	As Read	As Read
4	800	750	1070	As Read	As Read
5	600	550	800	As Read	As Read
6	280	250	380	As Read	As Read
7	As Read	As Read	As Read	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

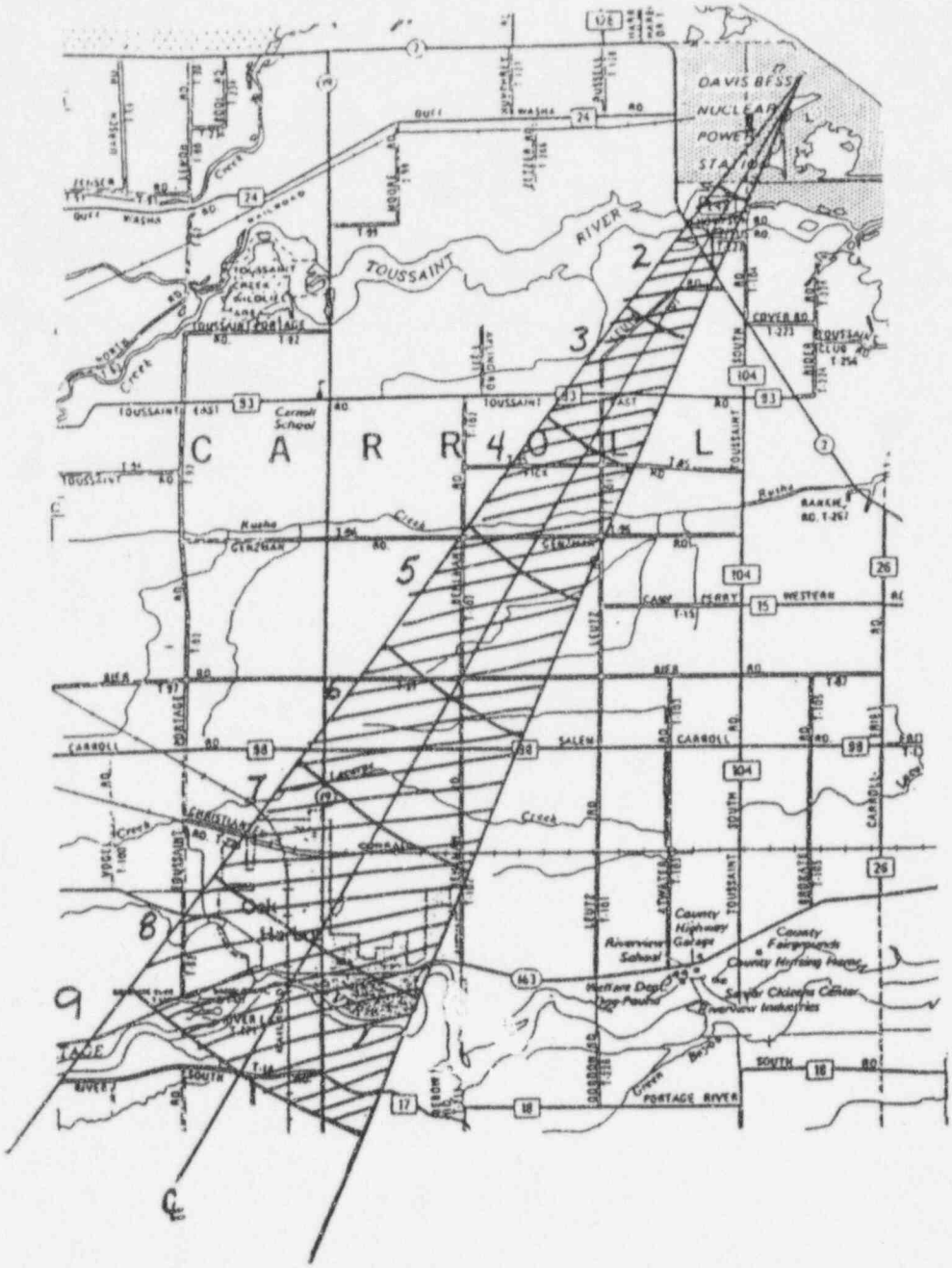
Radioactive Plume Travel Map for Time: 1415 - 1430



Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	1200	1100	1550	As Read	As Read
4	800	750	1070	As Read	As Read
5	600	550	800	As Read	As Read
6	450	400	600	As Read	As Read
7	240	220	320	As Read	As Read
8	As Read	As Read	As Read	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.4 RADIATION PLUME MAPS (con't)

Radioactive Plume Travel Map for Time: 1430 - 1445

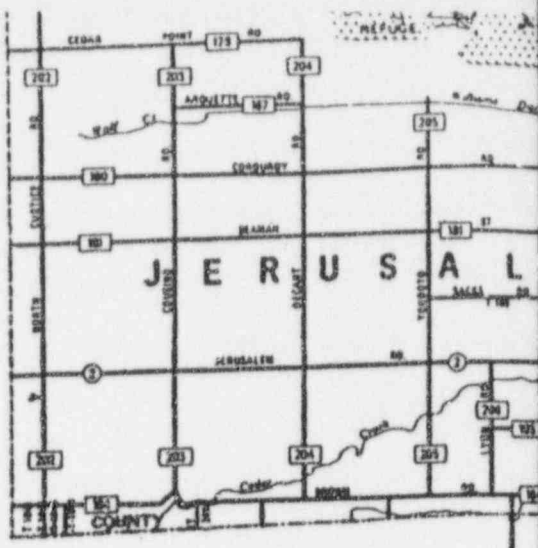


Plume Location	Survey Meter in mRem/hr		Air Samples in cpm		Smears in cpm
	Window Open	Window Closed	Cartridge	Filter	8" 'S' swipe
1	(Refer to Onsite Map in Section 8.3)				
2	1900	1850	2600	As Read	As Read
3	1200	1100	1550	As Read	As Read
4	800	750	1070	As Read	As Read
5	600	550	800	As Read	As Read
6	450	400	600	As Read	As Read
7	370	350	500	As Read	As Read
8	240	220	320	As Read	As Read
9	As Read	As Read	As Read	As Read	As Read

9.5 PUBLIC INFORMATION CUE CARDS

This section provides individual messages pertaining to the Toledo Edison public relations response and can be used to initiate and document actions taken by Players at the Joint Public Information Center.

9.4 RADIATION PLUME MAPS (con't)



OFF SITE RADIOACTIVE DEPOSITION DATA

Following the conclusion of the plant scenario, Ottawa and Lucas counties will participate in a relocation, reentry and return table top exercise. The scenario for this will assume a 24 hour advance in time has taken place. Since the State of Ohio is not demonstrating these objectives, the environmental samples that would normally be taken and the associated analyses needed to support these discussions will be simulated.

One soil sample from two separate locations are simulated to have been taken. The Simulated analyses show that a similar isotopic mix exists between the two samples, and therefore show that the same Dose Conversion Factor (DCF) may be used for both areas were the samples were taken.

A DCF of 130 will be assumed to have been calculated from the isotopic concentrations in the soil samples and from table 7-1 of the Manual Of Protective Action Guides And Protective Actions For Nuclear Incidents (EPA-400).

The Hypothetical radiation levels shown on the map that follows, will be used in conjunction with the DCF to determine the boundaries of the Restricted Area around which the discussions and decisions will center.

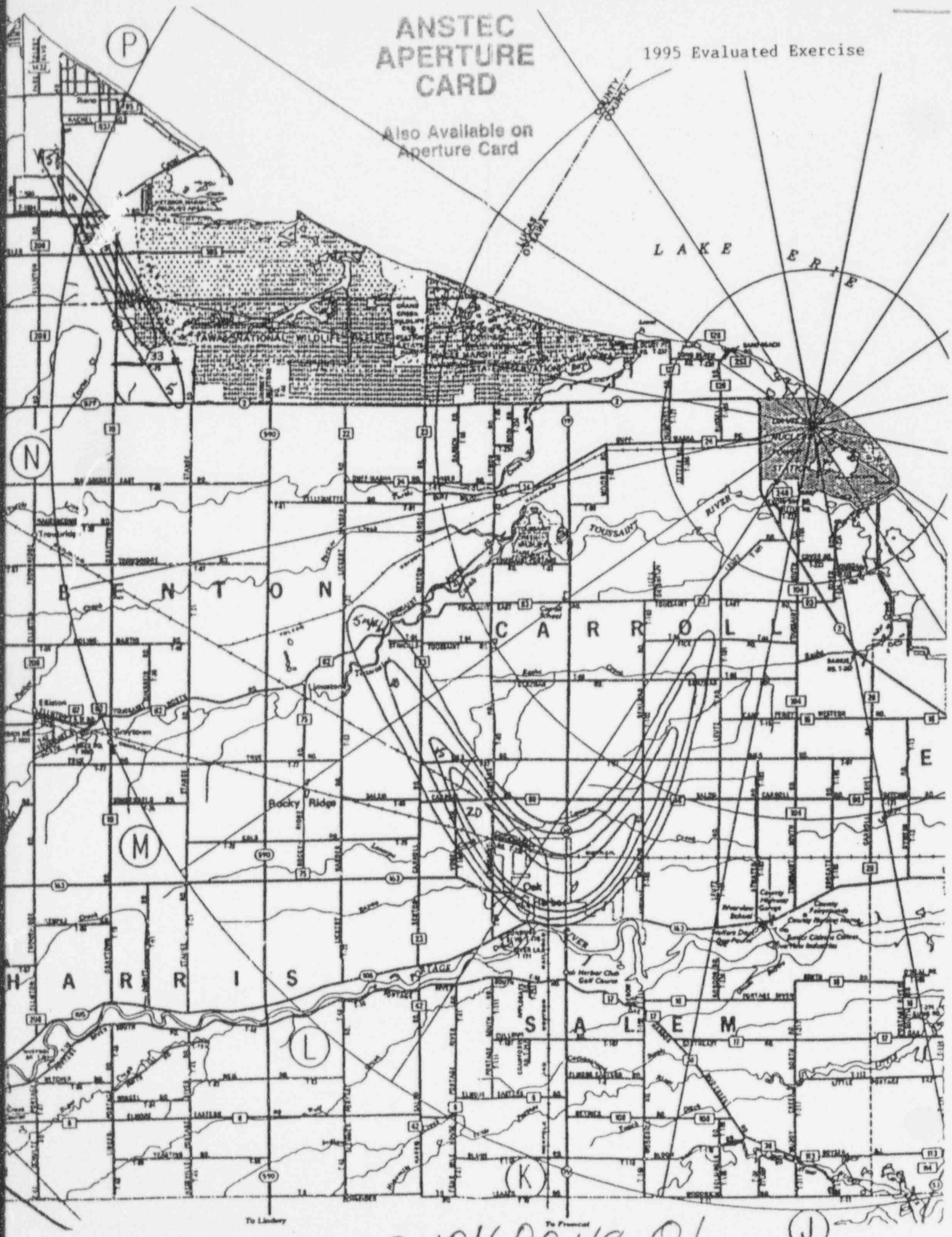
These radiation levels are assumed to have been measured at waist level with a closed window radiation survey instrument. The values supposed for this scenario are not necessarily related to the release data, but are assumed in order to support this aspect of the exercise.

NOTE: ISOPLETHS SHOWN ON THIS MAP INDICATE 5 mRem/hr VARIATIONS IN RADIATION LEVELS MEASURED AT WAIST LEVEL.

ANSTEC
APERTURE
CARD

Also Available on
Aperture Card

1995 Evaluated Exercise



9510160048-01

10.0 EQUIPMENT STATUS AND REPAIR CUE CARDS

This section contains the equipment status and repair information modeled to coincide with the scenario sequence of events. It includes the following information:

10.1 EQUIPMENT STATUS SUMMARY

This section provides equipment operational status in a tabular format for ease of review and for ease of locating a particular piece of equipment's operating condition in a timely manner.

10.2 EQUIPMENT STATUS SHEETS

This section provides individual equipment status sheets to be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

10.3 EQUIPMENT REPAIR DATA

This section provides controller guidance to any OSC Controller who may be sent out with a Repair Team during conduct of the Exercise.

10.4 EQUIPMENT REPAIR CUE CARDS

This section provides cue cards that may be needed to compel Players to complete maintenance evolutions within the allotted time of the sequence of events.

Only equipment data is provided in Section 10. For in-plant radiation levels that personnel may encounter during repair activities, Controllers must refer to Section 8.3 of this manual.

10.1 EQUIPMENT STATUS SUMMARY

This section provides equipment operational status in a tabular format for ease of review and for ease of locating a particular piece of equipment's operating condition in a timely manner.

PAGES 10-3 THROUGH 10-5 ARE RESERVED FOR EQUIPMENT STATUS SUMMARY

10.2 EQUIPMENT STATUS SHEETS

This section provides individual equipment status sheets to be passed out to Players on a 15 minute basis should the Control Room Simulator become unavailable to conduct the Exercise.

The data sheets in this section should only be issued if directed by the Lead Exercise Controller. If the Simulator remains fully operational, data sheets should not be used.

PAGES 10-7 THROUGH 10-43 ARE RESERVED FOR EQUIPMENT STATUS SHEETS

10.3 EQUIPMENT REPAIR DATA

This section contains the equipment repair information modeled to coincide with the scenario sequence of events. It is designed to be provided to the repair personnel/teams who are dispatched from the Operations Support Center (OSC) during the course of the Exercise. Equipment data only is provided in this section. For in-plant radiation levels that personnel may encounter during repair activities, Controllers must refer to Section 8.3 of this manual.

The data in this section is to be used to explain both; 1) equipment out of service during the initial conditions, and 2) malfunctions that occur later during the response and recovery stages of the Exercise. In either case, these events are usually centered around one particular piece of equipment. Thus for this Exercise, the following equipment sections have been prepared:

- Fuel Handling Bridge
- CV5024
- #1-1 Emergency Diesel Generator (EDG)
- HP2B

Initial conditions will have the #1-1 EDG inoperable with post-maintenance testing preparations in progress and no equipment torn down for maintenance. For this reason, no work packages have been assembled to be given to the Players during OSC activation. Typically, the information provided in a work package would include; 1) a Maintenance Work Order (MW), 2) a tagout list, 3) the applicable maintenance procedure, and 4) a parts list. However, since the above equipment failures occur after the start of the Exercise, Players will have to obtain all necessary drawings, procedures, and tags as necessary to respond to these events.

CAUTION: Drill tags are to be hung at the Simulator only. No drill tags are to be displayed or placed on any components in the plant!

HP2B
HIGH PRESSURE INJECTION VALVE

A. INITIAL CONTROLLER INSTRUCTIONS

Valve HP2B is normally closed. When the small Reactor Coolant System (RCS) leak occurs at ~12:15 p.m., the Control Room Simulator (CRS) Operators will line-up the Emergency Core Cooling System (ECCS) for "piggyback" operation in accordance with the procedure. The procedure will have the operators open HP2B. As HP2B opens both the open and close lights will be lit indicating a throttled valve position. As HP2B continues to open the close light will go out. When the CRS Operators attempt to go in the close direction, HP2B will not close. A rupture will occur upstream of HP2B and ECCS two check valves downstream of HP2B will fail open. This will allow Reactor Coolant System water to leak out the the ruptured line and into #2 Mechanical Penetration Room (MPR). This will cause a loss of all three fission product barriers, a release via Emergency Ventilation System to the station vent and to offsite. Emergency Repair Teams will not be able to enter the area due to the contaminated water from the ruptured line and radiation levels.

Possible solutions:

1. Replace the control power fuses.
2. Replace the MCC bucket (breaker)
3. Replace a bad 42/0 coil.
4. Complete electrical and mechanical checks on the motor operator.
5. Check the wiring for a short.
6. Check and replace the HP2B switch in the Control Room.

Solutions 1, 2, 3, and 4 would require Emergency Response Teams to enter the #2 MPR which will not be possible at this time due to the ruptured ECCS line and radiation levels. Solution 5 checks can only be made outside the #2 MPR. The wiring and switch can be checked in the Control Room. A wire will be found burnt through in the Control Room. When this wire is fixed HP2B can be closed, the RCS leak to #2 MPR will stop, and the release will stop.

When the problem is fixed, the Simulator Instructor Facility operator will show proper light indication for HP2B open and close lights.

NOTE: To keep the Exercise on schedule, the wire can only be fixed between 1345 and 1400.

NOTE: If the wire is not found, one of the ECCS check valves will reseat at 1400, stopping the release.

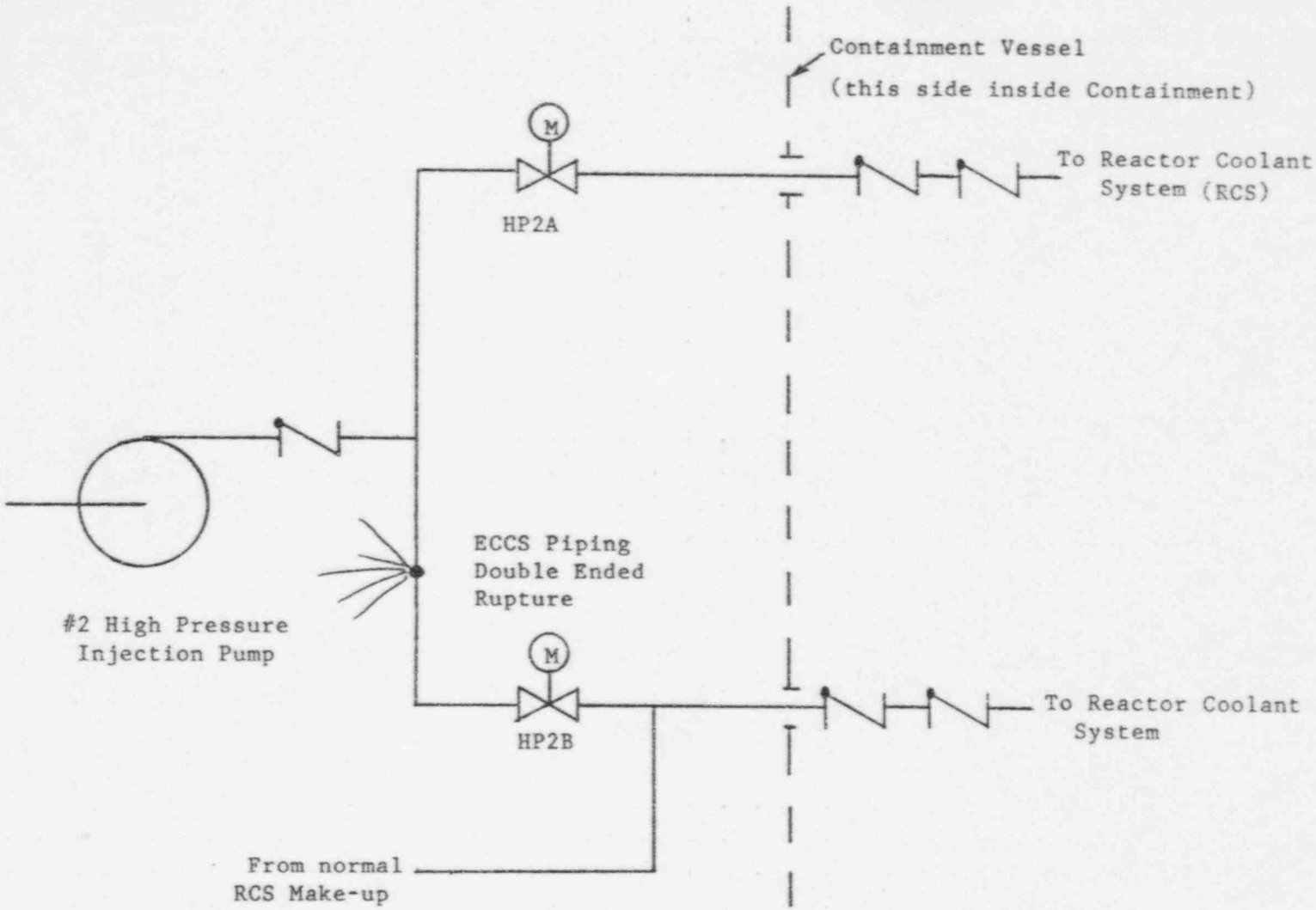
CAUTION: This is a CRITICAL evolution. This valve problem is the initiating event that causes the offsite release to occur. The radiation data in the simulator is based on HP2B staying open until 1400. Closing HP2B will stop the release. Therefore, closing HP2B before 1400 must be approved, prior to its closing, by the Lead Exercise Controller or Skip Cope.

HP2B(cont.)
HIGH PRESSURE INJECTION VALVE

Refer to Cue Card EQ-1 if the door to #2 MPR is opened. EQ-1 describes what can be seen in #2 MPR. Refer to Section 8 of this manual for radiation data.

Refer to ECCS diagram on page 10-45b for ECCS piping rupture location.

ECCS PIPING DIAGRAM



DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. EQ-1

TO: OSC Controller

TIME: 12:30+

T: 06/00+

ANTICIPATED RESPONSE:

The EMT member(s) should feel the door for heat before entry. The EMT member(s) can then open the door to look in.

INSTRUCTIONS:

1. Provide this Cue Card if the OSC sends an EMT to #2 MPR between 1230 and 1400.
2. After 1400, HP2B will be closed and the leak stopped. #2 MPR will still have some steam in it's atmosphere. The longer it is past 1400, the less steam there will be in the atmosphere.
3. Refer to Section 8 of this manual for radiation levels in this area.

****

THIS IS A DRILL

****

DBNPS EMERGENCY PREPAREDNESS CUE CARD (Cont'd)

CUE CARD NO. EQ-1

TO: OSC Controller

TIME: 12:30+

T: 06/00+

ANTICIPATED RESPONSE:

The EMT member(s) should feel the door for heat before entry. The EMT member(s) can then open the door to look in.

INSTRUCTIONS:

1. Provide this Cue Card if the OSC sends an EMT to #2 MPR between 1230 and 1400.
2. After 1400, HP2B will be closed and the leak stopped. #2 MPR will still have some steam in it's atmosphere. The longer it is past 1400, the less steam there will be in the atmosphere.
3. Refer to Section 8 of this manual for radiation levels in this area.

****

THIS IS A DRILL

****

#1-1 EMERGENCY DIESEL GENERATOR

A. INITIAL CONTROLLER INSTRUCTIONS

#1-1 Emergency Diesel Generator (EDG) is in an EDG outage. Maintenance has used 50 hours of the 72 hours allowed by Technical Specification (TS) 3.8.1.1 Action Statement a. The reason for entry into the TS was to perform PM 3386, cleaning of EDG Day Tank, due to the sludge found in the #1-1 EDG Day Tank. Other maintenance done during the EDG outage was the replacement of the north set of air start motors.

Post-maintenance testing will include an idle start/release run and shutdown of the EDG. After the EDG shutdown a timed fast start and load test will be done in accordance with DB-SC-03070, EDG 1 Monthly Test. Between 06:00 a.m. and 06:30 a.m., the #1-1 EDG has had all tags removed, valve and breaker line-ups are completed and the idle/release run and EDG shutdown was completed. The EDG timed fast start and load test will be ready to start at 07:00 a.m.

During DB-SC-03070 the idle start/release run, fuel oil pressure will be lower than normal but within specifications. Refer to Table 1, #1-1 EDG for normal readings and observed readings.

Table 1, #1-1 EDG

Instrument	Normal	Observed
PI 5158, DC MOTOR DRIVEN FO PMP DISCHG	65 psig	40 psig
PI 5159, ENGINE DRIVEN FO PMP DISCHG	75 psig	45 psig
PI 1098, INJECTOR FUEL PRESSURE	50 psig	35 psig

At approximately 07:00 a.m., the #1-1 EDG will be started and will complete the timed run to rated speed satisfactorily. Lower than normal fuel oil pressure will be observed as speed increased. The EDG will then be paralleled to C1 for the load test. As the operator tries to increase load above 1000 kw fuel oil pressure drops and the EDG will not increase load. Refer to Table 2, #1-1 EDG, for observed pressure readings. Local alarm 43-2-D (Fuel System Fault), and Control Room alarm 1-1-A (EDG 1-1) TRBL) will alarm. If the operator opens the EDG output breaker, the EDG returns to 900 RPM with fuel oil pressures returning to those in Table 1 (observed values). Local alarm 43-2-D (Fuel System Fault) and Control Room alarm 1-3-A (EDG 1 TRBL) clear. Each time the operator tries to increase load above 1000 kw, the above sequence of events will occur.

Table 2, #1-1 EDG

Instrument	Observed
PI 5158, DC MOTOR DRIVEN FO PMP DISCHG	5 psig
PI 5159, ENGINE DRIVEN FO PMP DISCHG	10 psig
PI 1098, INJECTOR FUEL PRESSURE	8 psig

#1-1 EMERGENCY DIESEL GENERATOR (cont.)

The reason the load can not be increased, is a rag plugging the outlet line from the #1-1 EDG Day Tank and restricting fuel oil flow. This rag was mistakenly left in the tank after completion of the PM.

POSSIBLE ACTIONS

1. Open valve D0100 and supply #1-1 EDG from #1-2 EDG Day Tank. This violates train separation and should only be done if #1-2 EDG in not available or needed.

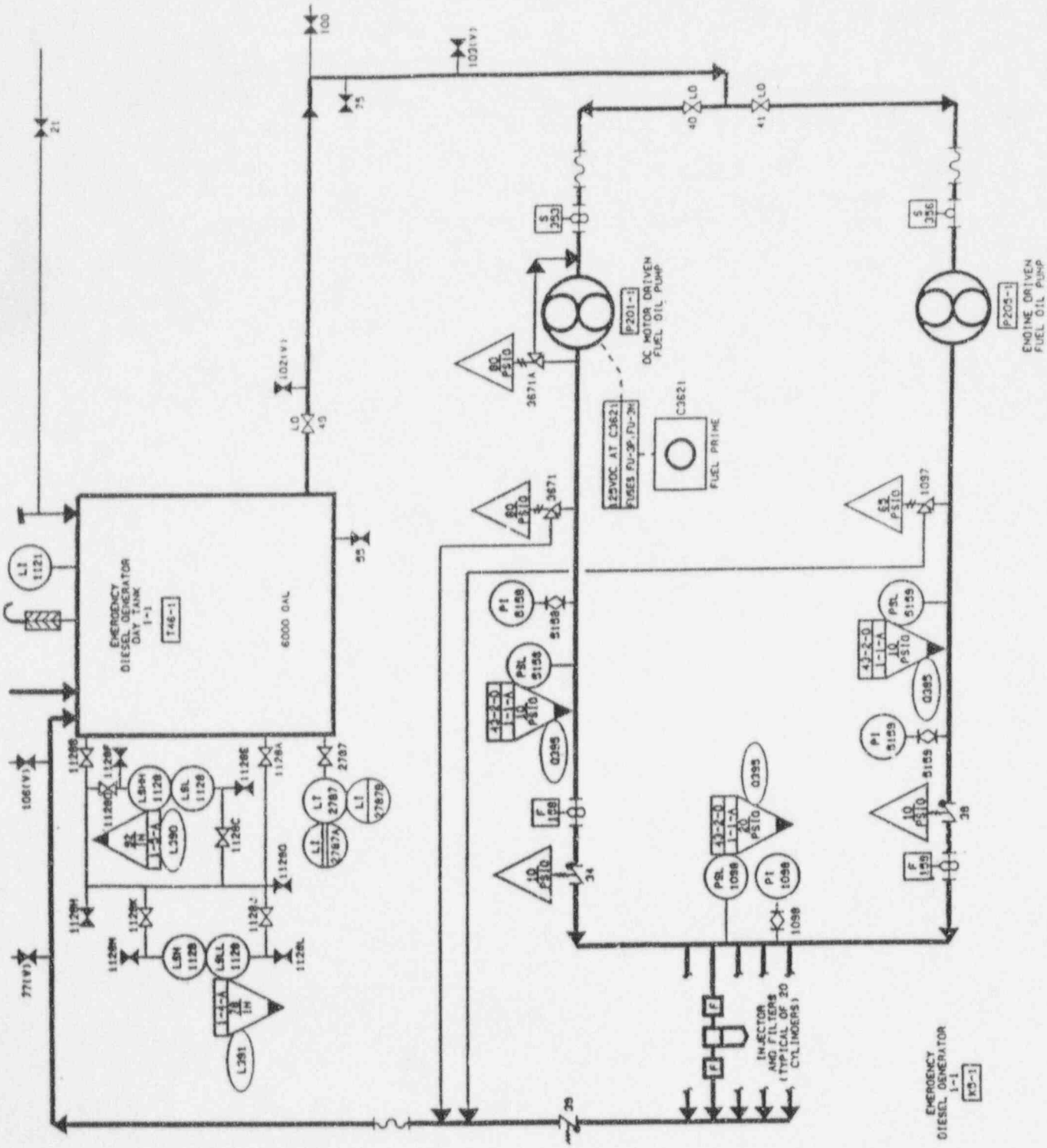
2. Run a hose jumper from connection D055 to the #1-1 EDG fuel oil connection point (e.g. D075, D0103, D0102, etc). See attached drawing of #1-1 EDG Fuel Oil System.

3. Isolate Fuel Oil Filters and replace them. This will not be successful since the plugged line is in the outlet line of the #1-1 EDG Day Tank.

4. Isolate, drain, and inspect the #1-1 EDG Day Tank for inspection. If this is done, it will take approximately 4 hours to complete.

#1-1 EMERGENCY DIESEL GENERATOR

FUEL OIL SYSTEMS



CV5024 BREAKER PROBLEM

A. INITIAL CONTROLLER INSTRUCTIONS

At approximately 09:00 a.m. Fuel Handling Area radiation will increase when a spent (used) fuel assembly is damaged in the Spent Fuel Pool. This will trip RE 8446 and RE 8447 in the Fuel Handling Ventilation System. When RE 8446 and RE 8447 trips; Fuel Handling Ventilation will shutdown and isolate, Station EVS will start, and CV5024 will close. CV5024 closing will be due to foreign material falling across the close contacts in CV5024 supply breaker, BE1239 on MCC E12A. This will cause CV5024 motor operator to receive a continuous close signal, jamming the damper disc into the seat. The closing of CV5024 will prevent cross connecting the Fuel Handling Ventilation System and Station EVS. If BE1239 is repaired, the damper will not open due to the jammed disc. CV5024 can be returned to service after 1:00 pm and correct maintenance activities are completed on damper CV5024 and breaker BD1239.

B. PLAYER INSTRUCTIONS

When asked, provide the following information regarding equipment status:

1. BE1239 (CV5024 breaker)

The breaker is closed, not tripped, no visual signs of damage. The Emergency Response Team (ERT) member from the OSC will open the cubicle door and inspect the breaker. When the close contacts are identified, inform the maintenance worker that a piece of foreign material (conductive) is laying across the close contacts. This piece of foreign material must be removed to open CV5024. ERT/Operators should try to open the damper once the piece of foreign material is removed and the breaker is closed. This will be unsuccessful because of the torque switch being over torqued inside the motor operator (see #3 below).

2. CV5024 Operator (motor)

If the manual lever is engaged on the motor and an attempt is made to turn the handwheel, the handwheel will not turn.

3. CV 5024 Motor Operator

The ERT must open (simulate) the motor and reset the torque switch.

C. FOLLOW-UP INSTRUCTIONS

When the piece of foreign material is removed and the torque switch reset, CV5024 can be operated. **NOTE**: This can not occur before 1:00 p.m.

FUEL HANDLING ACCIDENT IN SPENT FUEL POOL

A. INITIAL CONTROLLER INSTRUCTIONS

To facilitate the loading of new fuel into the Spent Fuel Pool (SFP), the Fuel Storage Handling Bridge is being used to rearrange the location of spent (used) fuel assemblies. The fuel mast engage hydraulic line has failed and the south fuel monorail hoist is being used to raise and lower the fuel. Currently, (~0715) a spent fuel assembly is being raised and is approximately 40 inches withdrawn when the operator feels the south fuel monorail hoist pendant control overheating. The operator lets go of the pendant control and deenergizes the south fuel monorail hoist. At 0730 an ALERT is announced over the Gai-tronics due to High Reactor Coolant System Activity. Refueling personnel evacuate the area and report the problem to the Control Room. After assembly, the Operation Support Center (OSC) should send an Emergency Response Team (ERT) and an operator to investigate the reason for the pendant control overheating. At ~0845, the pendant control has been repaired and fuel assembly withdrawal continues. When the operator enters the trolley platform in preparation for moving, their life vest catches on the bridge control and the bridge moves north (left) in fast speed. **NOTE:** The bridge must be energized to do this task. The fuel assembly that is partially raised is wedged and damaged. Bubbles can be seen rising to the surface of the Spent Fuel Pool. Area radiation monitors alarm. A short time later, RE8446 and RE8447 trip. When RE8446 and RE8447 trip, the Fuel Handling Ventilation System trips. Alignment to the Emergency Ventilation System (EVS) will not occur because CV5024 will close and can not be reopened. All personnel will evacuate the area and the Control Room (CTRM) is notified of the problem. The OSC should assign Radiation Protection personnel to evaluate the radiation problem in the Fuel Handling Area. High radiation and airborne radioactivity will be found. This will prevent personnel from entering the Fuel Handling Area. The CTRM can not cross connect to EVS because CV5024 is closed and will not open. This will prevent purging the Fuel Handling Area with EVS.

B. PLAYER INSTRUCTIONS

When asked, provide the following information regarding equipment status:

1. Fuel Storage Handling Bridge (bridge on SFP side):

   The fuel handling mast engage hydraulic has failed. A work request is in the process of being generated. Maintenance and Nuclear Engineering is looking into the problem. Nuclear Engineering asked for and received permission from the Manager-Operations to use the south fuel monorail hoist to move fuel.

2. When the south fuel monorail hoist pendant control becomes overheated:

   When the pendant control becomes overheated, there will be no visual indication of smoke. If the operator touches any other part of the pendant control it will also feel hot. No other parts, e.g. cable, motor, electrical connectors, etc., feel hot or show damage.

FUEL HANDLING ACCIDENT IN SPENT FUEL POOL (con't)

3. Pendant Control

No visible damage can be seen to the outside of the pendant control. When taken apart, the raise contacts in the pendant control will have come loose from the dends of the wire lugs. Some dark areas can be seen on the pendant contacts, but no damage is apparent. The ERT will reconnect the wire lugs and contacts. The pendant control is reenergized, the fuel assembly withdrawal continues. As the operator (bridge controller) enters the trolley platform in preparation to move the bridge, their life vest strap catches the bridge controls. The bridge moves northward approximately 6 inches in fast speed.

4. Broken Fuel Assembly and Bubbles rising to surface of SFP

When bubbles rise in the SFP, the Fuel Director informs the CTRM of the bubbles rising in the SFP and that all personnel are leaving the SFP area. The used fuel assembly has been crushed and broken opened. It is approximately 60 inches withdrawn. The fuel assembly, NJ05TR at location P016, is from the last batch removed from the reactor during 9RFO.