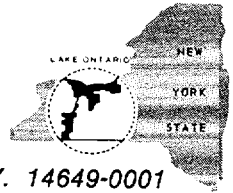




ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001



TELEPHONE  
AREA CODE 716 546-2700

CONFIDENTIAL EXERCISE SCENARIO INFORMATION  
DO NOT DOCKET

April 16, 2001

Mr. David Silk  
U.S. Nuclear Regulatory Commission  
475 Allendale Rd  
King of Prussia PA 19406

Subject: 2001 Emergency Preparedness Exercise Scenario: 65-Day Submittal

Dear Mr. Silk:

Enclosed please find two copies of the 2001 Ginna Emergency Exercise scenario package. We have developed the plant operational parameters using the Ginna simulator, and will use the simulator in a "real time" mode during the Exercise on June 6, 2001. A complete scenario manual containing scenario controller messages and technical data will be available in the event of a simulator malfunction during the Exercise.

Your comments on the scenario package would be appreciated by May 15, 2001 for timely resolution before the graded Exercise is conducted.

Sincerely,

Peter S. Polfleit  
Corporate Nuclear Emergency Planner

**PART I**

**GENERAL INFORMATION**



THE ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

EMERGENCY PREPAREDNESS EXERCISE MANUAL

2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

June 6, 2001

APPROVED BY:

\_\_\_\_\_  
Peter S. Polfleit  
Corporate Nuclear Emergency Planner

Rochester Gas and Electric Corporation

CONTROLLED COPY NO. \_\_\_\_\_

# **ROCHESTER GAS AND ELECTRIC CORPORATION**

## **GINNA STATION**

### **2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE**

#### **FOREWORD**

This Exercise package has been developed to provide the basis for the conduct of a simulated radiological accident at the Ginna Station located in Ontario, New York. Through this Exercise, the capabilities and effectiveness of the Emergency Response Plans for the Rochester Gas and Electric Corporation, the State of New York, and Monroe and Wayne Counties will be evaluated. This package is to be utilized by the Exercise Controllers and observers to initiate, control and evaluate the activities of the participants in the Exercise.

The Rochester Gas and Electric Corporation and the State of New York approve this document as the standard for conduct in performance of the June 6, 2001, Emergency Preparedness Exercise.



# THE ROCHESTER GAS AND ELECTRIC CORPORATION, GINNA STATION

## 2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

### INTRODUCTION

The Nuclear Emergency Response Plan (NERP) describes the emergency response capabilities for a nuclear emergency at the Ginna Station, including support from Federal, State, and local government agencies and private organizations. The Nuclear Emergency Response Plan provides for continuous emergency preparedness, including an annual Exercise.

The purpose of the Plume Exposure Emergency Preparedness Exercise is to activate and evaluate major portions of the emergency response capabilities and other aspects of the Emergency Plan and associated Emergency Plan Implementing Procedures, in accordance with Nuclear Regulatory Commission (NRC) Regulation 10CFR50.47(b) and Appendix E. This Exercise will be with the participation of the State of New York, and the Counties of Wayne and Monroe in order to assess State and Local Government Agency Emergency Response. The conduct and evaluation of the Exercise provide additional training for the Plume Exposure Pathway emergency response organization personnel and a means to further enhance Rochester Gas and Electric Corporation's emergency response capability.

This Exercise Manual has been developed to provide the basis for the conduct of a simulated radiological accident at the Ginna Station facility located in Ontario, New York. This manual is to be utilized by the Exercise Controllers to initiate, control, and evaluate the activities of the participants in the Exercise. Exercise "players" will not have prior knowledge of the nature of the simulated incident or any parts thereof such as radiological plume release information, including times, content, size and weather pattern used.

This Exercise Manual is the control mechanism for the conduct of the Exercise and consists of two parts. Part I provides a general description and overview of the emergency Exercise. Part II contains the scenario and time schedule of simulated plant conditions. The Exercise Manual is subject to a limited, controlled distribution.

## 2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

### SCENARIO DEVELOPMENT COMMITTEE

Bruce Zollner  
Mark Coleman  
Peter Polfleit  
Rick Jenkins  
Pete Bamford  
Ken Gould

## GINNA STATION

### 2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

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## GINNA STATION

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## **GINNA STATION**

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**GINNA STATION**  
**2001 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE**

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## **SECTION 1.0**

### **SCOPE AND OBJECTIVES**

## **1.0 SCOPE AND ONSITE OBJECTIVES - PLUME EXPOSURE PATHWAY**

### **1.1 Scope**

The 2001 Emergency Preparedness Plume Exposure Pathway Exercise will simulate accident events culminating in a radiological accident resulting in the activation of on-site and offsite facilities. The Exercise will involve events that test the effectiveness of the Ginna Station Emergency Preparedness Program and the integrated capabilities of certain elements of the State of New York, Wayne County and Monroe County emergency organizations. The Exercise will include the limited mobilization of state and local resources adequate to verify their capability to respond to an accident at the Ginna Nuclear Power Plant.

### **1.2 Onsite Objectives for the 2001 Ginna Evaluated Plume Exposure Pathway Exercise**

The major objective of the Exercise is to demonstrate the response capabilities of the Rochester Gas and Electric Corporation Emergency Organization. This Exercise will be used to report Emergency Planning Performance Indicators to the Nuclear Regulatory Commission. Within this overall objective, numerous individual objectives are specified as follows:

#### **Major Objectives**

- 1.2.1** Demonstrate the ability to mobilize, staff and activate Emergency Response Facilities promptly. (20 points)
- 1.2.2** Demonstrate the ability to project dosage to the public via plume exposure, based on Plant and field data, and to determine appropriate protective measures, based on plant conditions, Protective Action Guidelines, available shelter, evacuation time estimates, expected release duration, and other appropriate factors. (20 points)
- 1.2.3** Demonstrate the ability to effectively assess incident conditions and to properly classify the incident. (20 points)

#### **Minor Objectives**

- 1.2.4** Demonstrate the ability to fully staff facilities and to maintain staffing on an around-the-clock basis through the use of relief shift rosters (limited shift changes may occur to allow for operational restrictions). (10 points)



- 1.2.5 Demonstrate the ability to make decisions and to coordinate emergency activities. (10 points)
- 1.2.6 Demonstrate the adequacy of facilities and displays and the utilization of procedures to support emergency operations. (5 points)
- 1.2.7 Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel. (10 points)
- 1.2.8 Demonstrate the ability to mobilize and deploy Radiation Survey Teams. (10 points)
- 1.2.9 Demonstrate the appropriate equipment and procedures for determining ambient radiation levels. (5 points)
- 1.2.10 Demonstrate the availability of appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as  $1.0 \text{ E-7 uCi/cc}$  in the presence of noble gases. (5 points)
- 1.2.11 Demonstrate the availability of appropriate equipment and procedures for the collection of environmental samples. (5 points)
- 1.2.12 Demonstrate the ability to notify offsite officials and agencies within 15 minutes of declaration of an emergency. (10 points)
- 1.2.13 Demonstrate the ability to periodically update offsite officials and agencies of the status of the emergency based on data available at Ginna Station. (5 points)
- 1.2.14 Demonstrate the ability to notify emergency support pools as appropriate (i.e., INPO, ANI, etc.). (5 points)
- 1.2.15 Demonstrate the ability to notify onsite personnel using Plant alarms and public address systems. (5 points)
- 1.2.16 Demonstrate the organizational ability and resources necessary to manage an accountability of personnel within the restricted area. (5 points)
- 1.2.17 Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of restricted area personnel. (5 points)
- 1.2.18 Demonstrate the organizational ability and resources necessary to control access to the site. (5 points)

- 1.2.19 Demonstrate the ability to continuously monitor and control emergency workers' exposure. (10 points)
- 1.2.20 Demonstrate the adequacy of facilities and displays to support the Joint Emergency News Center operations. (5 points)
- 1.2.21 Demonstrate the ability to brief the media in a clear, accurate, and timely manner. (5 points)
- 1.2.22 Demonstrate the ability to provide advanced coordination of information released to the public. (5 points)
- 1.2.23 Demonstrate the ability to establish and operate rumor control in a coordinated fashion. (5 points)
- 1.2.24 Demonstrate the adequacy of in-plant post-accident sampling techniques and analysis. (5 points)
- 1.2.25 Demonstrate the ability to develop proposed short term and long term actions to support Plant recovery. (5 points)
- 1.2.26 Demonstrate the ability to isotopically analyze survey team field samples. (5 points)
- 1.2.27 Demonstrate the adequacy of measures taken to correct principal findings and observations identified during the previous exercise. (0 points)
- 1.2.28 Demonstrate the ability to conduct a post-exercise critique, which adequately characterizes licensee performance based upon controller and observer assessments. (0 points)
- 1.2.29 Demonstrate the ability to evacuate and relocate the functions of an emergency response facility. (10 points)

Evaluation: The organization is required to obtain 80% of the total points for a passing grade. The major objectives determine if a remedial exercise should be performed. Minor objectives determine if the secondary processes are effective. Less than 80% on the minor objectives do not require a remedial exercise. The methodology for the NRC performance indicators shall be used.

### 1.3 **Summary of Proposed Activities**

Table 1.1 provides a list of proposed RG&E activities.

**TABLE 1.1**

**2001 GINNA STATION EMERGENCY PREPAREDNESS EXERCISE**  
**(PLUME EXPOSURE)**

**PROPOSED ONSITE ACTIVITIES**

|                                   | <b><u>RG&amp;E</u></b> |
|-----------------------------------|------------------------|
| Notification of Agencies          | Actual                 |
| Call Up of Personnel              | Actual                 |
| Activate Organization             | Actual                 |
| Maintain Security                 | Actual                 |
| Conduct Dose Assessment           | Actual                 |
| Protective Action Recommendations | Actual                 |
| Operate Joint News Center         | Actual                 |
| Dispatch Field Survey Teams       | Actual-4*              |
| Exchange of Field Data            | Actual*                |

**\*Note:** Field teams will be deployed and will demonstrate communications with respective emergency response facilities.

**SIMULATIONS**

- Respiratory protection and protective clothing will be simulated by survey teams outside the protected area. Personnel inside the protected area will don respiratory protection and protective clothing prescribed by Radiation Protection and Chemistry personnel according to postulated scenario plant conditions.
- Controllers should demonstrate the appropriate actions expected by players (e.g. frisking, no eating & drinking during habitability checks).
- In general, Exercise participants should follow applicable plant procedures as closely as possible, and will be stopped by Controllers before actual equipment is manipulated (except PASS). Simulated repairs and other corrective actions should be described to Controller/Evaluators as fully as possible.

**OFFSITE OBJECTIVES AND EXTENT OF PLAY**

Offsite objectives and extent of play are described in the attached document. The offsite objectives and extent of play have been agreed upon by Rochester Gas and Electric Corporation, The New York State Emergency Management Office, The Wayne County Office of Disaster Preparedness and The Monroe County Office of Emergency Preparedness.

**Robert E. Ginna Nuclear Power Plant  
2001 Full Scale Exercise  
Extent of Play Overview**

| <u>Facility/Activity</u>                                   | <u>NYState</u>             | <u>Monroe</u>                 | <u>Wayne</u>                  |
|--|----------------------------|-------------------------------|-------------------------------|
| Warning Point  | actual                     | actual                        | actual                        |
| EOC  | actual                     | actual                        | actual                        |
| EOF  | actual                     | actual                        | actual                        |
| JENC   | actual                     | actual                        | actual                        |
| Reception Center   | n/a                        | actual                        | actual                        |
| Congregate Care  | n/a                        | actual                        | actual                        |
| Emergency Worker PMC                                       | n/a                        | actual                        | actual                        |
| Siren Activation   | n/a                        | simulated                     | simulated                     |
| EAS Formulation  | actual                     | actual                        | actual                        |
| EAS Broadcast  | simulated<br>(1 test only) | simulated<br>(1 test only)    | simulated<br>(1 test only)    |
| Route Alerting   |                            |                               |                               |
| Primary  | n/a                        | n/a                           | n/a                           |
| Backup<br>(Siren/failure)                                  | n/a                        | (1 EOC<br>Discussion)         | (1 EOC<br>Discussion)         |
| Field Monitoring Teams                                     | n/a                        | actual (1)<br>RGE (1)         | actual (1)<br>RGE (1)         |
| Special Population Bus                                     | n/a                        | Interview                     | Interview                     |
| School Evacuation Bus                                      | n/a                        | Interview                     | Interview                     |
| Notification of Hearing<br>Impaired                        | n/a                        | simulated<br>(EOC discussion) | simulated<br>(EOC discussion) |
| Evacuation of Mobility<br>Impaired (Non Institutionalized) | n/a                        | simulated<br>(EOC discussion) | simulated<br>(EOC discussion) |
| Evacuation of Mobility<br>Impaired (Special Population)    | n/a                        | simulated<br>(EOC discussion) | n/a<br>(none in EPZ)          |

| <u>Facility/Activity</u>  | <u>NYState</u> | <u>Monroe</u>                 | <u>Wayne</u>                  |
|---------------------------|----------------|-------------------------------|-------------------------------|
| Traffic Control Points    | n/a            | actual (2)                    | actual (2)                    |
| Impediments to Evacuation | n/a            | simulated<br>(EOC discussion) | simulated<br>(EOC discussion) |
| KI Administration         | discussion     | discussion                    | discussion                    |
| School Interview          | n/a            | actual (1)                    | actual (4)                    |
| Medical Drill             | n/a            | actual                        | n/a                           |
| -Hospital                 |                |                               |                               |
| -Offsite Transport        |                |                               |                               |
| Inventory of Equipment    | n/a            | actual                        | actual                        |
| -Field Team               |                |                               |                               |
| -EW PMC                   |                |                               |                               |
| -RC/CC                    |                |                               |                               |

Footnotes

## OFFSITE EXTENT-OF-PLAY ACTIVITIES SCHEDULE

| RECEPTION CENTERS                  | DATE           | TIME        |
|------------------------------------|----------------|-------------|
| Monroe County, Pittsford-Mendon HS | <u>7/18/01</u> | <u>0800</u> |
| Wayne County, Palmyra-Macedon HS   | <u>6/06/01</u> | <u>1830</u> |

### **CONGREGATE CARE CENTERS**

|                                    |                |             |
|------------------------------------|----------------|-------------|
| Monroe County, Pittsford-Mendon HS | <u>7/18/01</u> | <u>1300</u> |
| Wayne County, Palmyra-Macedon HS   | <u>6/06/01</u> | <u>1830</u> |

### **EMERGENCY WORKER PMC**

|               |                |             |
|---------------|----------------|-------------|
| Monroe County | <u>6/06/01</u> | <u>0800</u> |
| Wayne County  | <u>6/05/01</u> | <u>1000</u> |

### **SPECIAL POPULATION BUS COMPANY INTERVIEWS**

|                    |                |             |
|--------------------|----------------|-------------|
| Monroe County, RTS | <u>5/24/01</u> | <u>0900</u> |
| Wayne County       | <u>TBD</u>     | <u>TBD</u>  |

### **SCHOOL BUS COMPANY INTERVIEWS**

|                               |                |                  |
|-------------------------------|----------------|------------------|
| Monroe County, Webster        | <u>5/25/01</u> | <u>1000</u>      |
| Wayne County, Penfield (WCSD) | <u>5/16/01</u> | <u>0900-1130</u> |
| Williamson                    | <u>5/16/01</u> | <u>0900-1130</u> |
| Sodus                         | <u>5/17/01</u> | <u>0900-1130</u> |
| Marion                        | <u>5/17/01</u> | <u>0900-1130</u> |

## TRAFFIC CONTROL POINTS

|               |                |                  |
|---------------|----------------|------------------|
| Monroe County | <u>5/25/01</u> | <u>1400</u>      |
| Wayne County  | <u>6/16/01</u> | <u>0900-1500</u> |

## SCHOOL INTERVIEWS (EV-2)

|                               |                |                  |
|-------------------------------|----------------|------------------|
| Monroe County                 |                |                  |
| Webster School                | <u>5/25/01</u> | <u>1000</u>      |
| Wayne County                  |                |                  |
| Marion School District        | <u>5/23/01</u> | <u>0800-1600</u> |
| Williamson School District    | <u>5/23/01</u> | <u>0800-1600</u> |
| Wayne Central School District | <u>5/23/01</u> | <u>0800-1600</u> |
| BOCES                         | <u>5/23/01</u> | <u>0800-1600</u> |

## MS-1 EXERCISE

|                                    |                |             |
|------------------------------------|----------------|-------------|
| Monroe County, Pittsford Mendon HS | <u>7/18/01</u> | <u>1400</u> |
|------------------------------------|----------------|-------------|



## **Extent-of-Play Ground Rules**

### **1. REAL LIFE EMERGENCIES TAKE PRIORITY OVER EXERCISE PLAY.**

2. Scenario Development Team will develop free play messages. State Controller will inject the message to the County Emergency Management Director or designee for action.
3. Free play messages for rumor control at the JENC will be developed by the Scenario Development Team. Rumor control messages will be injected at the JENC by a control cell.
4. The State Controller will inject radiological data for any radiological field activities. (Field Teams, EWPMCs, Reception Centers). Monroe County will use radio-controlled survey instrumentation for field team, emergency worker personnel monitoring centers and reception center.

In accordance with the REP Program Strategic Review Initiative 1.5 during tabletop exercises, drills and other demonstrations conducted out-of-sequence from the integrated exercise, If FEMA and the offsite response organizations agree, the FEMA evaluator may have the participants re-demonstrate any activity that is determined to be not satisfactorily demonstrated. This initiative is not applicable to EOC/JENC/EOF demonstrations during the June 6, 2001 exercise.

5. RG& E will set the simulator clock on the computer as to close to real time as possible.

## **Objectives and Extent-of-Play for the June 6, 2001 Ginna Exercise**

### **OBJECTIVE #1: MOBILIZATION OF EMERGENCY PERSONEL**

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

Locations Observed: SEOC,JENC,EOF,MCEOC,WCEOC,MCFA and WCFA

ARCA: None

### **EXTENT-OF-PLAY**

#### **1. WARNING POINTS**

During the exercise, the following three (3) Warning Points will be notified:

- New York State
- Monroe County
- Wayne County

Demonstrations will include:

- Notification telephone calls from the utility via the RECS line including notification times. Back-up systems will be utilized in the event of primary systems failure.
- Notification of the designated agency representatives in accordance with their respective plans and procedures.

Call lists may change on a weekly basis. The latest quarterly revision lists will be available to FEMA one (1) week before the exercise or at the Federal/State evaluators briefing the day before the exercise. The lists will contain the business telephone numbers only. Home telephone numbers and pager numbers are available at the EOC.

- Wayne County will utilize an autodialer system to notify responders.
- There will be no free play messages introduced at the Warning Points.

### **EXTENT OF PLAY AGREEMENT:**

- ECL Notifications from the utility are not verified.

#### **2. EOCs**

All activities associated with the activation and operation of the EOC are to be performed as they would be in an actual emergency. (see below)

Demonstrations will include:

- Notification of staff - Monroe County will be prepositioned, staff rosters available  
- Wayne County will use a call-out
- Timeliness of activation – (see above)

### **EXTENT OF PLAY AGREEMENT:**

- State liaisons will arrive at EOCs when notified of an ECL.
- Utility liaisons will report respective to their respective EOCs when activated by utility.
- ECL notifications from the licensee are not verified.

#### **3. EOF**

All activities associated with activation and operation of EOF are to be performed as they would be in an actual emergency.

Demonstrations will include:

- Notification of staff.
- Timeliness of activation.

### **EXTENT OF PLAY AGREEMENT:**

- State liaisons will report to EOF when notified of an ECL
- County staff will report to EOF when notified of an ECL.

#### 4. JNC

All activities associated with the activation and operation of the JNC are to be performed as they would be in an actual emergency.

Demonstrations will include:

- Ability to fully staff and operate facility in accordance with JENC procedures.

#### **EXTENT OF PLAY AGREEMENT:**

- State JENC staff will report when notified of an ECL.
- County JENC staff will report when notified of an ECL.

## **OBJECTIVE #2: FACILITIES; ACTIVATION, EQUIPMENT AND DISPLAYS**

Demonstrate the adequacy of facilities and their equipment, displays, and other materials to support emergency operations. Demonstrate the ability to activate and staff emergency facilities for emergency operations.

Locations Observed: SEOC, EOF, JENC, WCEOC, MCEOC, WCFA and MCFA

ARCAs: None

### **EXTENT-OF-PLAY**

#### **EXTENT OF PLAY AGREEMENT:**

- Back-up power is available for the State and two County EOCs.
- Maps and displays will vary with each facility and may include printouts.
- Displays regarding ingestion pathway EPZ agricultural information are not applicable to this exercise.
- Displays regarding radiological monitoring points and traffic control points are not applicable to the JENC.
- Displays regarding Congregate Care Centers and special facilities will be listings only.
- At the JENC, the status boards to be updated are located in the utility/state/county workrooms.

### **OBJECTIVE # 3: DIRECTION AND CONTROL**

Demonstrate the ability to direct and control emergency operations.

Locations Observed: SEOC, MCEOC, WCEOC

ARCAs: None

### **EXTENT OF PLAY**

#### **1. EOC**

Demonstrations will include:

- Decision making
  - Coordination with other counties and state;
  - Notification of public (sirens and EAS messages);
  - Protective actions recommendations including consultation with appropriate staff
- Managing an orderly evacuation, if required;
- Messages inserts may include:
  - Siren failure and back-up route alerting;
  - Impediment(s) to evacuation;
  - Requests for transportation assistance;
  - Requests for unmet needs;
  - Notification of local business and
  - Requests for information from local elected officials.

### **EXTENT OF PLAY AGREEMENT:**

- Direct coordination with other jurisdictions applies to the state and two counties only.

#### **OBJECTIVE # 4: COMMUNICATIONS**

Demonstrate the ability to communicate with all appropriate organizations and field personnel.

Locations Observed: SEOC, EOF, JENC, WCEOC, MCEOC, WCFA and MCFA

ARCAs: None

#### **EXTENT-OF-PLAY**

Primary communication systems:

- Radiological Emergency Communication System (RECS)- connects utility with the State and Wayne and Monroe counties
- Executive Hotline- connects State with two counties (conferencing capability);
- Commercial telephones- connect agency representatives at the EOC with their staff in the field, including the EOF and JENC
- Radios-connect the dose assessment staff with the field teams. (Monroe County may utilize cellular phones).

Backup communications systems:

- Amateur Radio (RACES), cellular phones, Monroe only.

#### **EXTENT OF PLAY AGREEMENT:**

- The use of RACES as a back-up to commercial telephones or radios will be demonstrated at the State and two counties.

## **OBJECTIVE #5: EMERGENCY WORKER EXPOSURE CONTROL**

Demonstrate the ability to continuously monitor and control emergency worker exposure.

Locations Observed: SEOC, WCEOC, MCEOC, MCFA and WCFA

ARCAs: 27-99-05-A-02

### **EXTENT- OF- PLAY**

#### **EXTENT OF PLAY AGREEMENT:**

- A TLD will be used as a non-self reading dosimeter.
- Monroe County plans specify: 0-5R outside EPZ, 0-20R inside EPZ.
- Wayne County plans specify 0-5R outside EPZ and 0-20R inside EPZ.
- Monroe County reporting requirements are .5R, 1R, 3R, and 5R (turn back value) inside EPZ, and .2R, 1R, 3R, and 5R (turn back) outside EPZ, 5 R is maximum authorized mission limit.
- Wayne County plan does utilize a turn back limit, emergency workers will report to their supervisors at 1R, 3R and 5R for limiting exposures
- Direct reading dosimeters are read every 15-30 minutes.
- According to plans, supervisors will contact their emergency workers regarding KI administration.
- Monroe County dosimeter maintenance records are maintained with the Radiological office.



## **OBJECTIVE # 6: Field Radiological Monitoring-Ambient Radiation Monitoring**

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

Locations Observed: WCEOC, MCEOC, WCFA and MCFA.

ARCAs: None

### **EXTENT -OF-PLAY**

#### **FIELD MONITORING TEAMS**

Each county in the plume EPZ will dispatch one (1) radiological monitoring team. Each team will be supplied with a controller. The controller will have simulated field data, (Monroe County will use radio-controlled instruments) which is provided to the teams to determine local dose rate readings consistent with the scenario. Each team should have the necessary equipment to determine area gamma dose rates, presence of beta radiation and airborne radioiodine concentrations. The monitoring teams will not be suited in anti-contamination clothing. The clothing will be available for inspection. When multi-channel radios are used, 1 channel is primary, 2<sup>nd</sup> channel is backup.

#### **EXTENT OF PLAY AGREEMENT**

- If a county is not affected by the plume, field monitoring teams may not be able to demonstrate all capabilities in the POR (Points of Review), EEM. However those teams may be asked to demonstrate the capabilities necessary to satisfy the objective.
- An equipment inventory list is available at dispatch location.
- Wayne County uses a Victoreen 450, Monroe County uses Eberline Ro-20 which does not have a check source, does not have an external probe and will not be covered in plastic.
- Field monitoring data is shared in accordance with the MOU signed by RG&E, Wayne County, Monroe County and New York State.
- County Field teams report exposure rate measurement to the EOCs.
- Prior to deployment, field teams are briefed on :
  - PARS
  - Release Status
  - ECLS
  - Meteorological Conditions
- The primary mission of the county field teams is to validate the initial PARs once a release occurs ( e.g. monitoring ERPA boundaries). All Teams can define the plume center line and edges.

## **OBJECTIVE #7: PLUME DOSE PROJECTION**

Demonstrate the ability to project dosage to the public via the plume exposure pathway, based on plant status and field data.

Locations Observed: SEOC, WCEOC, MCEOC

ARCA's: None

## **EXTENT-OF-PLAY**

### **DOSE ASSESSMENT**

All activities associated with dose assessment are to be performed as they would be in an actual emergency. The lead responsibility for dose assessment functions rests with the following :

- New York State - Director, Bureau of Env. Rad Protection
- Monroe County - Radiological Officer
- Wayne County - Radiological Officer

The dose assessment team should direct the field teams to locations consistent with the initial projections of the plume location. The dose assessment team should make determinations of the actual plume based on parameters such as boundaries and center line. Center line data may be provided by the utility & County field teams.

Plume dose projections should be used to develop protective action recommendations which could modify or expand upon the initial PARs. The dose assessment team should demonstrate the capability to provide the dose projection results to the Chief Elected Official responsible for protective action decision making in a manner and a time frame that supports decision making.

Dose assessment and accident evaluation personnel will provide recommendations to the decision maker taking into account all relevant factors including:

- utility recommendations
- independent county dose assessment
- plant conditions

### **EXTENT OF PLAY AGREEMENT:**

- There will be no actual packaging or transport of samples to the laboratory. EOC staff will be questioned regarding means of transportation of air samples to a central point and location of the laboratory, (State Laboratory or Fitzpatrick Environmental Laboratory).

- A scenario dependent noble gas/iodine ratio is used to translate gamma exposure rate measurements from the plume into corresponding radioiodine concentrations.
- Scenario that data will be utilized by all facilities during an exercise.
- Buffalo National Weather Service forecast data will be scenario data.

## **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.

Locations Observed: WCFA and MCFA

ARCA's: None

### **EXTENT-OF-PLAY**

#### **FIELD MONITORING TEAMS:**

Each County will dispatch one team in the plume EPZ. Additional teams will be dispatched by RGE to support each county in accordance with the plan and procedures. Each team will have a controller who will supply simulated field data in accordance with the scenario. (Monroe County will use radio-controlled instruments).

#### **EXTENT-OF-PLAY AGREEMENT:**

If a county is not affected by the plume, field monitoring teams may not be able to demonstrate all capabilities listed in the POR, EEM- Objective 8. However, the team may be asked to perform all capabilities necessary to satisfy the objective.

- Silver zeolite cartridges will be used for air sampling. (Note: purging not necessary for this type of cartridge)
- The teams can be questioned regarding procedures and resources to transport samples to a central point for transfer to the laboratory. There will be no actual transport of samples to the transfer point or the laboratory.
- The teams will not suit up in anti-contamination clothing, however, one member may suit up at FEMA's request following return to the respective EOC.
- The teams will take radiation measurements, some of which may be at the same locations, but at different times in the scenario, and communicate this data per the respective plans.
- Calibration data available from Radiological Officer.

## **OBJECTIVE #9: PLUME PROTECTIVE ACTION DECISION MAKING**

Demonstrate the ability to make timely and appropriate protective action decisions.

Locations Observed: SEOC, MCEOC and WCEOC

ARCA's: None

### **EXTENT-OF-PLAY**

### **EXTENT-OF-AGREEMENT**

All protective action decisions will be coordinated among the counties and the State over the Executive Hotline.

Initial PADs consider dose assessment team recommendations

As specified in the plans, subsequent PADS do not consider:

- Shelter availability
- Relative dose savings between evacuation and sheltering

## **OBJECTIVE #10: ALERT AND NOTIFICATION**

Demonstrate the ability to alert and notify the public within the 10 mile EPZ and begin dissemination of the instructional messages within 15 minutes of each decision by appropriate State or local officials.

Locations Observed: **SEOC, JENC, WCEOC and MCEOC**

ARCAs: None

## **EXTENT-OF-PLAY**

During the exercise there will be simulated siren sounding and no broadcasting of the EAS messages. Federal evaluators will expect to see actual demonstration of all the steps leading to siren sounding and broadcasting the EAS messages within 15 minutes following the decision to alert and notify the public. Recommendations such as park/school closings do not require an EAS message, but rather a news release. For simulated siren activation's, the activation times will be coordinated over the Executive Hotline.

## **EXTENT-OF-PLAY AGREEMENT**

- State and County staff will be prepositioned at JENC.
- EAS messages will be developed and sent to WHAM. There will be no broadcast of EAS messages. There will be only one (1) simulation of airing of the EAS message. This will be the first EAS message. The time to be recorded (clock stopped) is the time at which the EAS message begins to be broadcast (first three words of the talk-up after "this is a drill").
- The first alert and notification sequence will be evaluated regardless of whether or not the accompanying EAS message contains a protective action recommendation.
- Public Inquiry staff will be limited to six people.
- As specified in the plans, there is no primary or supplementary route alerting.
- There will be no actual telephone calls to individuals or institutions.
- If the radio station refuses to voluntarily cooperate during the exercise, this action would not negatively impact the evaluation of this objective.

## **OBJECTIVE #11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION**

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

Locations Observed: SEOC, JENC, WCEOC, and MCEOC

ARCAs: None

### **EXTENT-OF-PLAY**

All activities associated with the activation and operation of the JENC are to be performed as they would be in an actual emergency.

- Ability to coordinate PADs with respective EOCs.
- Ability to formulate clear and accurate EAS messages;
- Ability to initiate the EAS messages (simulated) within the 15 minute timeframe
- Ability to formulate and disseminate follow-up "Special News Broadcasts" to media outlets.

### **EXTENT-OF -PLAY AGREEMENT**

- PIOs at the JENC develop and release emergency information and instructions to the public
- Chief Elected Officials authorize release of EAS messages.
- Pre-scripted EAS messages are contained in the JENC procedures.
- As specified in the JENC procedures, EAS messages may not be re-broadcast.
- EAS message and Special News Broadcasts will be prepared in accordance with JNC plans, policies and procedures.
- Recommendations such as park/school closings do not require an EAS message, but rather a news release.
- All EAS messages are broadcast in English.

## **OBJECTIVE #12: EMERGENCY INFORMATION – MEDIA**

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

Location Observed: JENC

ARCAs: None

### **EXTENT-OF-PLAY**

All activities associated with the operation of the JENC are to be performed as they would be in an actual emergency.

- Ability to operate facility in accordance with JENC procedures;
- Ability to formulate clear and accurate news releases;
- Ability to provide accurate information to media at press briefings.

### **EXTENT-OF-PLAY AGREEMENT:**

- PIOS at the JENC are responsible for media briefings.
- Media kits are provided by licensee and State.



### **OBJECTIVE #13: EMERGENCY INFORMATION – RUMOR CONTROL**

Demonstrate the ability to establish and operate rumor control in a coordinated and timely fashion.

Location Observed: JENC

ARCAs: None

### **EXTENT-OF-PLAY**

All activities associated with the activation and operation of rumor control are to be performed as they would be in an actual emergency.

- Ability to operate rumor control will be demonstrated during the Site Area Emergency and General Emergency levels in accordance with the JENC procedures.

### **EXTENT- OF –PLAY AGREEMENT:**

- There will be at least six calls per operator per hour during the SAE and GE levels.
- At least 5 false or misleading rumors will be included for which corrective measures should be taken.
- Rumor control will be staffed by at least 6 operators with one supervisor.
- Rumor control staff monitors radio and television broadcasts for false or misleading rumors.

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

Locations Observed: SEOC, WCEOC, MCEOC, WCFA and MCFA

ARCAs: None

**EXTENT-OF-PLAY**

The decision making process on whether or not to administer KI to emergency workers will be demonstrated.

Adequate supplies of KI will available at the EOC or other designated location for distribution to emergency workers.

Each county will provide its emergency field workers at risk of exposure supplies of KI and dosimetry equipment prior to dispatch to the field.

**EXTENT-OF-PLAY AGREEMENT:**

- NYS policy does not recommend the use of KI for the general public
- Institutionalized individuals are dealt with in accordance with the plans.

## **OBJECTIVE #15: IMPLEMENTATION OF PROTECTIVE ACTIONS-SPECIAL POPULATIONS**

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

ARCAs: None

### **EXTENT-OF-PLAY**

#### **SPECIAL POPULATION BUS COMPANIES INTERVIEWS General Public**

All bus companies interviews are to be completed out of sequence with the exercise scenario.

Each company will provide a dispatcher and two drivers.

One designated bus company per EPZ county will be interviewed. See offsite extent of play schedule.

The bus drivers are to assemble at their normal dispatch location and are to be assigned appropriate routes and briefed by the dispatcher in accordance with appropriate procedures. The driver will be questioned about the location of pickup points and location of appropriate reception center designated in the route maps/instructions.

#### **DEMONSTRATIONS WILL INCLUDE:**

- One bus dispatcher understand and follow briefing procedures for drivers;
- Two bus drivers receive an informational packet specific to his/her route; (will not run actual routes).
- Bus driver's knowledge of the prescribed route, including pick-up points, dosimetry, KI and location of reception center will be evaluated by interview.

#### **EXTENT-OF-PLAY AGREEMENT**

- During the June 6 exercise, there will be an initial contact with the bus company(ies) (telephone call) by the Monroe EOC RTS representative and Wayne County Highway Superintendent. All subsequent calls will be simulated. The MC-RTS & WCHS will perform all other actions in accordance with the plan.

### **OBJECTIVE 15: NOTIFICATION OF HEARING IMPAIRED**

During the exercise, the hearing impaired list will be available for inspection at each EOC. The list will be reviewed, but not retained by the evaluator.

The responsible agency in each agency simulate the alert and notification of hearing impaired individuals by describing the following:

- Notification procedures;
- Means of notification;

### **EXTENT-OF-PLAY**

- There will be no actual notification of hearing impaired individuals during the exercise

### **OBJECTIVE 15: EVACUATION OF NON INSTITUTIONALIZED MOBILITY IMPAIRED INDIVIDUALS**

During the exercise, the list of non-institutionalized mobility impaired individuals will be available for inspection at each EOC. The lists will be reviewed, but not retained.

The responsible agency in each EOC will describe the following:

- Notification procedures;
- Type of disability and transportation resource requirements;
- Availability of appropriate transportation for evacuation.

### **EXTENT-OF-PLAY AGREEMENT**

- There will be no actual dispatch of vehicles for transport of non-institutionalized mobility impaired individuals.
- During the exercise there will be no contact of mobility impaired individuals on the list.

## **OBJECTIVE #16: IMPLEMENTATION OF PROTECTIVE ACTIONS SCHOOLS**

Demonstrate the ability and resources necessary to implement protective actions for school children within the plume EPZ.

Locations Observed: WCEOC, MCEOC, WCFA, and MCFA

ARCA: None

### **EXTENT-OF-PLAY**

#### **SCHOOL EVACUATION BUS COMPANY INTERVIEWS**

All bus companies are to be demonstrated out of sequence with the exercise scenario. Each company will provide a dispatcher and two drivers to be interviewed by FEMA. See offsite extent-of-play activities schedule.

Bus routes to be discussed will be pre-designated. A controller will provide the bus routes to the bus dispatcher for briefing of the drivers.

The bus drivers are to assemble at their normal dispatch location and are to be assigned appropriate routes and briefed by the dispatcher in accordance with procedures. The bus drivers will be questioned about the location of the school to be evacuated and the location of the school reception center designated in the plan.

Demonstrations will include:

One bus dispatcher understands and provides briefings for drivers;

Two bus drivers receive information packet specific to route; (bus route will not be run).

### **EXTENT-OF-PLAY AGREEMENT**

- During the exercise there will be initial contact with the bus company(ies) (telephone call) by the Transportation Coordinator. The Coordinator will perform all other actions in accordance with plan.
- Protective actions for schools are decided upon by the Chief elected Official (EOC discussion).
- Parents are notified of school cancellations in accordance with respective county plans.
- Bus dispatchers communicate with drivers enroute (discussion).
- Routes will be discussed at schools, including route to reception/student center.

## **SCHOOL INTERVIEWS**

One school per district will be interviewed. Interviews will be conducted out of sequence. The interviews will utilize the EV-2 checklist. The interviews will be conducted in accordance with the offsite extent of play activities schedule.

## **EXTENT-OF-PLAY AGREEMENT**

The interviews will demonstrate the following

- Availability of written plans and procedures
- How parents are kept informed about the plans, procedures and reception centers
- Chain of command that would be involved during an evacuation.
- Wayne County-interviews with Superintendent of Schools and BOCES principal.
- Monroe-interview with Webster School District Emergency Coordinator and Transportation Director.

## **OBJECTIVE #17: TRAFFIC AND ACCESS CONTROL**

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

Locations Observed: MCEOC, WCEOC, MCFA and WCFA

ARCAs: None

## **EXTENT-OF-PLAY**

### **TRAFFIC CONTROL POINTS (TCPS)**

Two Traffic Control Points in each county will be demonstrated at mutually agreed upon locations. The interview schedule will be listed in the activities list.

Monroe County – Zone Sargent and two Officers. Wayne County will provide one officer and State Police will provide one officer. Wayne County and Department of State Police have dosimetry, dispatch from E-911 will be simulated. The State controller will select a TCP assigned to that agency and provide that information for briefing of the officer.

During the interviews the law enforcement agency should be prepared to discuss the following:

- How promptly TCPs could be staffed (from time of notification);
- Appropriate dosimetry
- KI procedures and authorization for administration of KI
- Location of Reception Centers.
- Location of Emergency PMC
- No heavy equipment or trucks will be dispatched
- No barricades or signs will be placed
- Police Officers will be released upon completion



### **IMPEDIMENTS TO EVACUATION:**

The demonstration of resources necessary to deal with impediments to evacuation will be simulated.

Each EPZ county, EOC will demonstrate the organizational ability to deal with three (3) impediments to evacuation.

State controllers in the EOC will input free play message for traffic impediments

The EOC staff needs to be able to assess the significance of the impediments, re-route traffic (if appropriate), identify resources that are required for removal, discuss how dosimetry will be provided to workers in the EPZ, estimate time of arrival of resources to the scene and estimate time for clearing

### **EXTENT-OF-PLAY AGREEMENT**

- No equipment will be deployed to the field
- This demonstration will not involve the actual contact of resource providers or dispatching of emergency vehicles to the simulated event.

**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.

Locations Observed: WCFA, MCFA

ARCAs: None

**EXTENT-OF-PLAY**

All facilities are to be demonstrated out of sequence with the exercise scenario, see the offsite extent play activities schedule.

Reception Centers will not be set-up in advance. Demonstrations will include

- Arrival of staff
- Setting-up
- Operations
- Equipment Inventory (Monroe County)

**EXTENT-OF-PLAY AGREEMENT**

- One registration station with 2 personnel registering at least 2 individuals each, Monroe County registration is a function of Congregate Care.
- One portal monitoring station monitoring at least 6 individuals
- One personnel decon station with 2 monitors to simulate at least one personnel decon
- One vehicle monitoring station with at least one monitor monitoring at least 2 vehicles
- One vehicle decon station with at least 1 monitor to simulate at least 2 vehicle decons
- Monitors will not suit up in anti-contamination clothing, in accordance with plans.
- Other staff will be demonstrated through the use of rosters.

## **OBJECTIVE # 19: CONGREGATE CARE**

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

Locations Observed: MCFA, WCFA

## **EXTENT-OF PLAY**

All facilities will be demonstrated out of sequence with the exercise.

One congregate care center per county will be opened in accordance with each county's plan. (Congregate Care centers are operated by ARC). See offsite extent-of-play activities schedule.

Each center will demonstrate the following staffing

- Shelter Manager
- Registrar
- Support staff (1)
- Communicator
- Shelter supplies will be discussion only

## **OBJECTIVE #20 MEDICAL SERVICES – TRANSPORTATION**

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

Locations Observed: MCFA

ARCAs: None

### **EXTENT-OF-PLAY**

There will be a medical drill conducted at Pittsford Mendon High School.

The drill will demonstrate the adequacy of ambulance providers and procedures for handling contaminated injured individuals.

The functions to be demonstrated include: (1) prompt arrival at the scene; (2) initial medical assessment to determine the problem (i.e., life-threatening injury or other type of injury; (3) radiological monitoring ( may be done by EMS or Reception Center staff or hospital staff), (4) contamination control procedures and (5) transport to the appropriate medical facility (discussion only).

### **EXTENT-OF-PLAY AGREEMENT**

- Prepositioning of ambulance at Pittsford Mendon High School
- One ambulance crew, one monitor, one recorder
- Radio – Controlled Survey instruments may be used for demonstration
- Communications from the scene to hospital will be simulated
- Contaminated materials will be handled in accordance with county plan

## **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.

Locations Observed: MCFA

ARCAs: None

## **EXTENT-OF-PLAY**

The medical drill scenario will necessitate transporting the victim to the hospital. A person will play the role of the victim; he or she will be transported to a hospital designated in the plan. However, the use of flashing lights and sirens for exercise play is not authorized.

The drill must also demonstrate the adequacy of hospital facilities and procedures for handling contaminated injured individuals. The demonstration should include:

- Effective preparation for the arrival of the victim, including appropriate contamination control measures;
- Setting appropriate priorities between contamination control and medical treatment;
- The hospital personnel should survey and simulate decontamination of the victim.

**OBJECTIVE #22 : DECONTAMINATION- EMERGENCY WORKERS, EQUIPMENT AND VEHICLES**

Demonstrate the adequacy of procedures for decontamination of emergency workers, equipment, vehicles and materials used for disposal of contaminated waste.

Locations Observed: WCFA and MCFA

ARCAs: None

**EXTENT-OF-PLAY**

See off-site extent-of-play agreement schedule.

Each county will set up and demonstrate one EWPMC for local emergency workers.

- Monroe County--- 145 Culver Road Armory
- Wayne County----County Fire Training Facility

Emergency Worker PMCs will not be set-up in advance. Demonstrations will include:

- Arrival of Staff
- Setting-up
- Operations
- Equipment Inventory

Each PMC will be setup as it would be in an actual emergency, with all route markings and contamination control measures in place with the exception that floors may not be covered in paper/plastic. Procedures and techniques for monitoring emergency workers will be demonstrated. Staff will be provided to simulate emergency workers.

**EXTENT-OF-PLAY AGREEMENT:**

- Liquid waste from decontamination does not have to be contained and can be discharged to a sanitary sewer or directed as run-off, per FEMA policy and NYS Sanitary Code, Part 16.
- 90 sec/person monitoring speed for hand held instrumentation is not applicable to EWPMC.

- One lane for vehicle monitoring with at least 1 monitor monitoring at least 2 vehicles.
- One vehicle decon station with at least 1 monitor to simulate at least 1 vehicle decon.
- One personnel monitoring station to monitor at least 2 individuals.
- One personnel decon station with at least 1 monitor to simulate at least 2 personnel decons.
- Other staff will be demonstrated through the use of rosters.
- Monitors will not suit up in anti-contamination clothing, although one monitor may suit up at FEMA's request.
- Monroe County may use radio-controlled survey instruments.
- Monroe is activated at ALERT or >, Wayne is activated at SAE or >.
- Automobile Air Intake filters will not be monitored.
- Communications to EOC's will be simulated, RACES personnel will be available for discussion.
- Fixed contamination action levels will be in accordance with respective plans.

**The following objectives are not included for this exercise:**

**Objective 23:**            Supplementary Assistance (Federal/Other)

Date demonstrated – May 1999      Next required demonstration-2005

## Objective 24: Post Emergency Sampling

Date demonstrated – May 1999      Next required demonstration-2005

## Objective 25: Laboratory Operations

Date demonstrated – May 1999      Next required demonstration-2005

**Objective 26:** Ingestion Exposure Pathway – Dose Projection and Protective Action Decision Making

Date demonstrated – May 1999      Next required demonstration-2005

**Objective 27:** Ingestion Exposure Pathway-Dose Protective Action Implementation

Date demonstrated – May 1999      Next required demonstration-2005

**Objective 28:** Relocation, Re-Entry and Return – Decision Making

Date demonstrated – May 1999      Next required demonstration-2005

**Objective 29:** Relocation, Re-entry and return-Implementation

Date demonstrated-May 1999      Next required demonstration-2005

**Objective 30:** Continuous, 24-Hour Staffing

Date demonstrated –November 1999 Next required demonstration-2005

**Objective 31:** Offsite Support for the Evacuation of Onsite Personnel

Date demonstrated-November 1999    Next required demonstration-2005

**Objective 32:** Unannounced Exercise or Drill

Date demonstrated-1996                      Next required demonstration-2002

**Objective 33:** Off-Hours Exercise or Drill

Date demonstrated-1996                      Next required demonstration-2002



**SECTION 2.0**  
**EXERCISE INFORMATION**

## **2.0      EXERCISE INFORMATION**

### **2.1      Exercise Participants**

The participants in the Exercise will include the following:

#### **2.1.1      ROCHESTER GAS AND ELECTRIC CORPORATION**

##### **A.   Facilities Management and Support Personnel**

1. Simulator Control Room
2. Technical Support Center (TSC)
3. Operations Support Center (OSC)
4. Survey Center (SC)
5. Emergency Operations Facility (EOF)
6. Joint Emergency News Center (JENC)
7. Engineering Support Center (ESC)

##### **B.   Emergency Response Teams**

1. Radiation Survey Teams (ST's)
  2. First Aid Team (if necessary)
  3. Maintenance Assessment and Repair Teams
  4. Security Force
  5. Post Accident Sampling System (PASS) Team
  6. Radiation Protection/Chemistry Support
  7. Fire Brigade (if necessary)

#### **2.1.2      OFFSITE AGENCIES/ORGANIZATIONS**

Participation of the following agencies/organizations is expected:

##### **A.   Federal**

1. Nuclear Regulatory Commission
2. National Weather Service
3. Other Supporting Federal Agencies

**B. State**

1. New York State Emergency Management Office
2. New York State Department of Health
3. New York State Police
4. Other Supporting State Agencies

**C. Local**

1. Wayne County Emergency Management Agency
2. Monroe County office of Emergency Preparedness
3. Other Supporting County Agencies

**2.2 Exercise Organization**

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

**2.2.1** The Exercise Coordinator will coordinate Exercise preparations including the development of the scenario and controller input messages. He will control all aspects of the conduct of the Exercise, prepare a consolidated evaluation and critique report at the conclusion of the Exercise, and prepare and follow up on an itemized list of corrective actions recommended as a result of the evaluation and critique.

**2.2.2** Controllers are qualified personnel selected to perform functions as follows:

- A.** A Lead Controller is assigned to each emergency response facility. The Lead Controller is responsible for all Controller, Evaluator and Observer activities for that facility and, if appropriate, its associated teams. Controllers for teams or sub areas of a facility report to the Lead Controller of that facility.

- B.** The Controllers will deliver "Exercise Messages" as necessary to the designated players, observe exercise participants at their assigned locations, and prepare evaluation forms. Controllers/Observers will submit written feedback to the Lead Controller, who in turn summarizes all comments for submittal to the Exercise Coordinator prior to the scheduled critique. The Controllers will be provided a list of instructions for the Exercise scenario prior to commencing the exercise.

Controllers will be identified by wearing shirts, green shirts with white lettering stating "Controller".

**2.2.3** Participants include Ginna Station and other Rochester Gas and Electric Corporation personnel assigned to perform emergency functions, as described in the Emergency Plan and Implementing Procedures. Participants from offsite organizations and agencies (County and State) are described in their respective Emergency Plans and Standard Operating Procedures.

**2.2.4** Observers from the Rochester Gas and Electric Corporation and other organizations may be assigned on a limited basis, for the sole purpose of observing Exercise activities for personal education. They will not be provided scenario information.

Observers will be identified by wearing a badge that indicates "observer".

Requests to participate as an observer should be made in writing and contain the observer's full name, home address, phone number and organization affiliation. Requests to participate as an observer must be submitted to the RG&E Corporate Nuclear Emergency Planner (CNEP) no later than one week before the exercise.

**EMERGENCY RESPONSE FACILITIES**

The Rochester Gas and Electric Corporation Emergency Response Facilities activated during a exercise or exercise are:

**A. Simulator Control Room**

Ginna Simulator Control Room response measures will be under the direction of the Exercise Shift Supervisor. The Simulator Control Room is located in the Simulator Building next to the Ginna Training Center.

**B. Technical Support Center (TSC)**

When emergency conditions escalate to an Alert status or higher, coordination of the emergency response will shift from the Simulator Control Room to the TSC. The TSC Director relieves the Shift Supervisor as Emergency Coordinator and directs activities from the TSC. The TSC is the location from which technical support personnel utilize information on Plant status to support emergency actions. The TSC serves as the primary communications source to the NRC, OSC, EOF and offsite agencies, and will perform other functions of the EOF until the EOF is activated.

**C. Operations Support Center**

The OSC, which is co-located with the TSC, provides a location where emergency response maintenance planning is coordinated. The OSC will be activated at an Alert or higher, and may be activated for an Unusual Event at the discretion of the Emergency Coordinator.

**D. Operations Support Center Satellite**

The OSC Satellite is located in the Service Building Basement and provides a location where Maintenance Assessment and repair personnel establish teams. The teams are utilized for repair and corrective action to mitigate an event.

**E. Emergency Operations Facility (EOF)**

The EOF, which is located in the basement of 49 East Avenue in Rochester, will be activated for emergency conditions classified as an Alert or greater. The EOF/Recovery Manager directs the activities of the EOF/Recovery Organization from the EOF.

The TSC Emergency Coordinator reports to the EOF/Recovery Manager. The EOF is the command post for coordination of response measures with offsite organizations, assessment of radiological and environmental conditions and determination of recommended protective actions for the public. The EOF also provides direction and management of recovery operations.

**F. Joint Emergency News Center (JENC)**

The JENC, which is located at 89 East Avenue in Rochester, provides the point of contact for the coordinated release of news and information to the news media and the general public. The JENC is staffed by RG&E Corporation, County, State and Federal officials and will be activated for emergency conditions classified as an Alert or greater.

**G. Engineering Support Center (ESC)**

The ESC is located in the Robert E. Smith Engineering Building on site at Ginna. Engineering support is provided to Technical staff in the ESC. The ESC is equipped with plant data systems, communication and technical resources necessary to assist the TSC.

**H. Survey Center (SC)**

The Survey Center is located in the Training Center basement and provides for Survey Teams to inventory and load the necessary equipment to perform radiological surveys. Once the teams have completed pre-operational checks, they are dispatched to pre-designated survey routes.

## **2.4      Exercise Conduct**

### **2.4.1    Overview**

The Exercise will simulate an abnormal radiological incident at Ginna Station.

During the course of the Exercise, in order to evaluate coordination with appropriate State and local agencies, incidents will arise which require response by offsite emergency response organizations/agencies. The Exercise will also simulate an offsite radiological release that will require deployment of Ginna Station, Wayne County and Monroe County radiological survey teams for offsite monitoring.

The conduct of the Exercise will demonstrate the effectiveness of selected organizations, personnel, functions, and/or activities that exercise Emergency Plans and Implementing Procedures. Recovery/Re-entry discussions and planning will be evaluated prior to terminating the exercise.

### **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
- Mobilization of emergency response organizations
- Corrective actions
- Activation/Operation of emergency response facilities and equipment
- Administrative activities
- Protective Action Recommendations

#### 2.4.3 Communications

The Exercise will also demonstrate the effective use of communication systems. The use of various telephone systems and radio will be demonstrated throughout the exercise.

RG&E radiation survey teams are equipped with portable radios, and are provided cellular telephones for back-up communications. Survey team controllers are encouraged to use the cellular telephones if clarifications of controller instructions are required while in the field.

#### 2.4.4 Controllers

Lead Controllers will be stationed in the Simulator Control Room, OSC, ESC, Survey Center, TSC, EOF, JENC and County EOCs. Only Lead Controllers have the authority to modify Exercise messages or initiate free play messages.

- A. The Simulator Control Room will be the central point for organization of Exercise messages and is the key to ensuring that the Exercise progresses on schedule. Since it is necessary that the emergency escalate to the General Emergency, it may be necessary to postulate non-credible situations. The operators will accept the Exercise conditions as displayed. If corrective actions are postulated that would terminate the emergency, they should be identified to the Lead Controller in the affected facility and the scenario will progress as designed. The Exercise participants are expected to "free play" the scenario to the extent practical. Notifications of, and communication with, supervisors, plant management and offsite agencies will be made in accordance with the Emergency Plan Implementing Procedures.



- B. The TSC will be the coordination point for onsite emergency response activities. TSC personnel will also coordinate offsite emergency response activities until activation of the EOF. TSC and EOF personnel will be aware that if the Exercise is to proceed as planned, and if the offsite organizations are to be exercised, it may be necessary to postulate non-credible situations. This is done to ensure that various aspects of the onsite and offsite emergency response organizations are tested. TSC and EOF personnel will accept Exercise conditions as presented. The intended response is not to explain why a situation could not occur, but to react as though it did occur. If corrective actions are postulated that would terminate the emergency, they should be noted to the Lead Controller.

The Exercise participants in the TSC and EOF are expected to "free play" the scenario to the extent practical. Notifications of, and communication with, supervisors, plant management and offsite agencies should be made in accordance with the Emergency Plant Implementing Procedures. The scenario is designed to activate on-site and offsite emergency response capabilities.

The Lead Controller may inject other information or change a message to ensure that the Exercise progresses as planned.

#### 2.4.5

#### **Participants**

The success of the exercise is largely dependent upon participant action, knowledge of appropriate Emergency Plan and Implementing Procedures and an understanding of the purpose of the exercise. Initial conditions that will affect Player action will be provided to the participants at the time the exercise begins. However, most of the elements of the exercise will be introduced through the use of controlled exercise message forms and messages generated by participants as a result of the particular emergency activity performed. Participants, therefore, are responsible for initiating actions during the exercise in accordance with instructions, responsibilities and tasks for their particular function. Each participant will advise his/her Controller prior to performing required emergency actions during the play of simulated activities to ensure that the participants is credited for his/her actions.

Participants are reminded not to be excessively concerned with the mechanics or cause of the exercise scenario. This exercise is designed to evaluate the Emergency Plan, Implementing Procedures and emergency preparedness training program and not the probability, feasibility or detailed mechanics of the simulated accident. Additionally, this exercise is a training vehicle for Rochester Gas and Electric Corporation personnel to practice coordinating with outside organizations in a simulated emergency environment. Participants should note needed and submit feedback to the appropriate Controller at the conclusion of the Exercise.

## **2.5      Precautions and Limitations**

This section provides rules and guidelines for exercise controllers and observers. A pre-exercise briefing will be held with all the controllers and observers identified in this manual.

- A. Should an actual emergency arise during the conduct of this exercise, all activities and communications related to the exercise will be suspended. It will be the responsibility of any exercise controller or observer that becomes aware of an actual emergency to suspend exercise response in his/her immediate area and inform the Lead Controller of the situation. Upon notification of an actual emergency, the Lead Controller will notify all other Controllers/Observers to suspend exercise activities. The Lead Exercise Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the exercise.
- B. Should, at any time during the course of this exercise, a Exercise Controller or Observer witnesses a exercise participant undertake any action which would, in the opinion of the Controller/Observer, place either an individual or component in an unsafe condition, the Controller/Observer is responsible for intervening in the individual's actions. Upon termination of the activity, the Controller/Observer is responsible for contacting the Lead Exercise Controller and informing him of the situation. The Lead Exercise Controller will make a determination whether to continue, place a temporary hold on, or terminate the Exercise.
- C. No pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems will be required for the Exercise.
- D. Manipulation of any Plant operating systems (except for the PASS system), valves, breakers, or controls in response to this Exercise will be simulated.
- E. All repair activities associated with this exercise will be simulated. Exercise extreme caution around operating equipment.

- F. All telephone, radio and public address announcements related to the exercise must begin and end with, "This is a Exercise". Should a Controller or Observer witness an Exercise participant not observing this practice, it is the Controller's/Observer's responsibility to remind the individual of the need to follow this procedure.
- G. Any response involving vehicles (ambulance, fire, police/security or field monitoring teams), shall observe all motor vehicle operating laws. (posted speed limits, stop lights/signs, one way streets, etc.).
- H. Should onsite security actions be required in response to this exercise, participants shall cooperate as directed by the Security Force. Security representatives shall be prudent and tolerant in their actions.
- I. Exercise participants are required to inject as much realism into the exercise as is consistent with safe performance; however, caution must be used to prevent over-reaction.
- J. Care must be taken to assure that any non-participating individuals who may observe exercise activities or overhear exercise communications are not misled into believing that an actual emergency exists. Exercise Controller's and Observer's who are aware of an individual, or group of individuals, 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.

**Evaluation and Critique**

The Exercise will be evaluated by Controllers/Observers who have expertise in, or qualifications to evaluate the activity in their assigned location. Controllers/Observers will evaluate Exercise performance on the basis of requirements contained in the Emergency Plan Implementing Procedures and Exercise messages. Controllers/Observers will prepare evaluation forms and provide recommendations on corrective actions to the Exercise Coordinator.

Following the exercise, the Exercise Coordinator will conduct a post-Exercise critique. Deficiencies in the Emergency Plan, will be identified through the critique process. The deficiencies will be documented by the Exercise Coordinator and corrected through the Corrective Action Tracking System (CATS).

Controller and Observer information is contained in Section 5.0.

The schedule for the critiques is shown in Section 6.0.

## **SECTION 3.0**

### **TRAVEL INFORMATION**

### 3.0

### **TRAVEL INFORMATION**

This section of the Ginna Station Exercise Manual provides travel information to those individuals from RG&E, other utilities, local/State/Federal government, and/or other organizations who will participate/observe the Drill.

Permission for Visitors to observe the Exercise must be obtained from:

**Mr. Peter Polfleit  
Corporate Nuclear Emergency Planner  
Rochester Gas and Electric Corporation  
89 East Avenue  
Rochester, NY 14649-0001.**

### 3.1

#### **Directions to Ginna Nuclear Station**

Ginna Station is located on the southern shore of Lake Ontario in Wayne County, New York, approximately 24 miles northeast of Rochester, New York (see Figure 3.1).

#### 3.1.1

##### **Air**

Several airlines provide passenger service to the Rochester-Monroe County Airport.

#### 3.1.2

##### **Car**

- A. Several car rental agencies are available at the Rochester-Monroe County Airport to provide rental vehicles for ground transportation to Ginna Station.
- B. Persons traveling from the Rochester-Monroe County Airport. Exit the airport. Take a right onto Brooks Avenue. Exit immediately to the right onto Route 390 South. Proceed to Route 590 North ( Route 390 splits to Route 390 South and Route 590 North ). Take Route 590 North to Route 104 East. Follow Route 104 East to Route 350 (Ontario Center Road). Turn left (North) and proceed to Ginna Station. Total distance is approximately 40 miles.

3.2        **Directions to the EOF( 49 East Avenue ) and JENC ( 89 East Avenue )**

3.2.1      **Air**

Several airlines provide passenger service to the Rochester-Monroe County Airport.

3.2.2      **Car**

**From the Monroe County Airport.** Exit the Rochester-Monroe County Airport, take a right onto Brooks Avenue. Turn left onto 390 North. Exit onto 490 East toward the City. From the left hand lane of Route 490, exit onto the Inner Loop (East). Exit the Inner Loop at the East Avenue ramp. Proceed to the first signal light. Turn right onto East Avenue. Follow East Avenue to the corner of East Avenue and Chestnut Street.

**From the Thruway ( Route 90 )Traveling West,** use Exit 45 ( Route 490 ). Take Route 490 and exit at Clinton Avenue. Turn right onto Woodbury Blvd. Take Woodbury Blvd. To Chestnut St. Turn left on Chestnut St. Take Chestnut St. to East Avenue.

**From the Thruway traveling East,** use Exit 47 ( Route 490 ). Take Route 490 to Rochester. From the left hand lane of Route 490, exit onto the Inner Loop (East). Exit the Inner Loop at the East Avenue ramp. Proceed to the first signal light. Turn right onto East Avenue. Follow East Avenue to the corner of East Avenue and Chestnut Street.

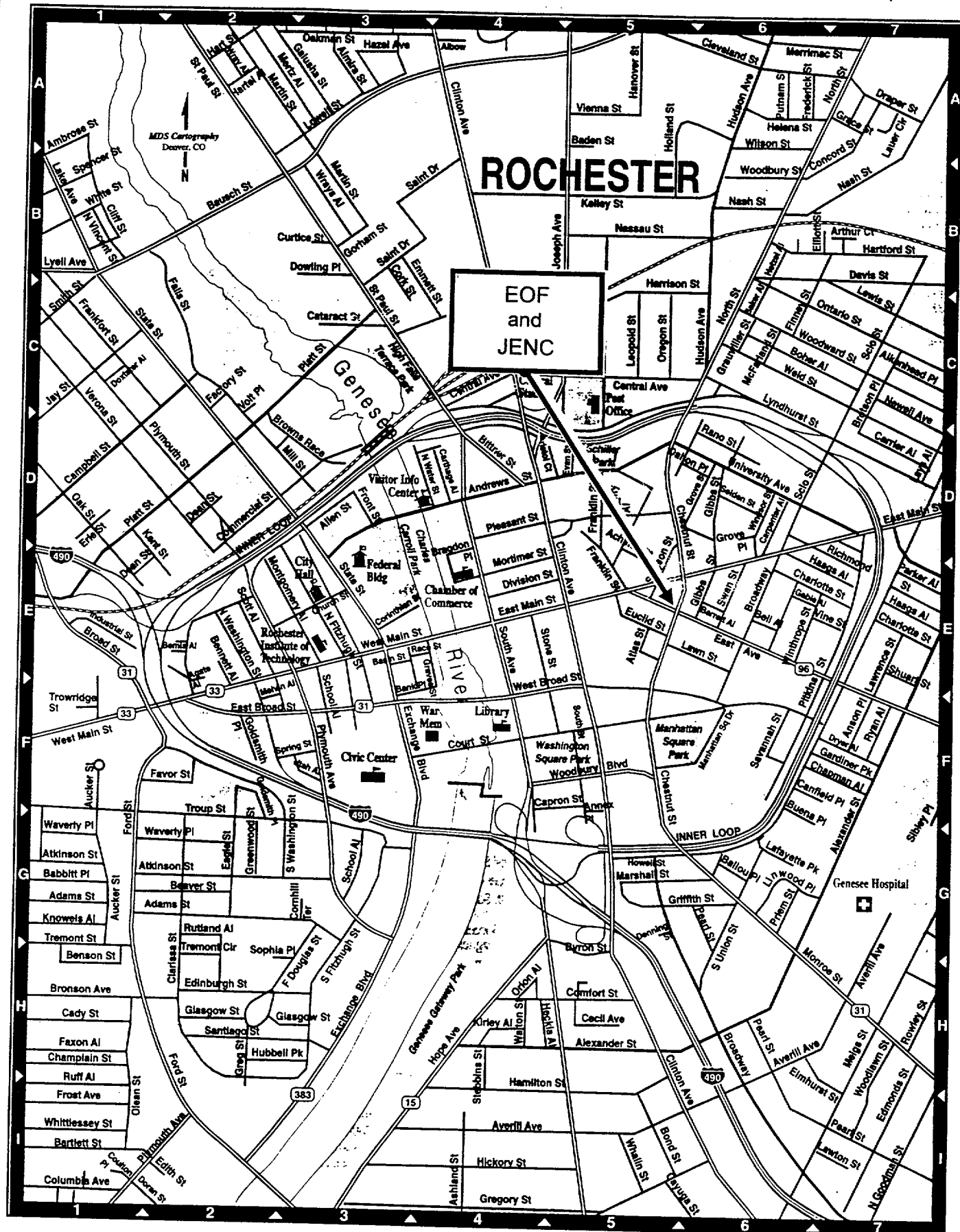
3.2.3      The Emergency Operations Facility (EOF) and JENC are at the intersection of East Avenue and Chestnut Street (black square on map). EOF is at 49 East Avenue. The JENC is at 89 East Avenue (see Figure 3.2).

3.3        **Accommodations**

Hotel/motel accommodations may be obtained at the following locations:

|                                  |                |
|----------------------------------|----------------|
| Depot Hotel, Pittsford           | (716) 381-9900 |
| Marriott Hotel, Greece           | (716) 225-6880 |
| Red Roof Inn, Henrietta          | (716) 359-1100 |
| Brookwood Inn, Pittsford         | (716) 248-9000 |
| Woodcliff Lodge, Perinton        | (716) 248-4810 |
| Holiday Inn, Henrietta           | (716) 457-1510 |
| Hyatt, 125 E. Main St. Rochester | (716) 546-1234 |

# Area Maps

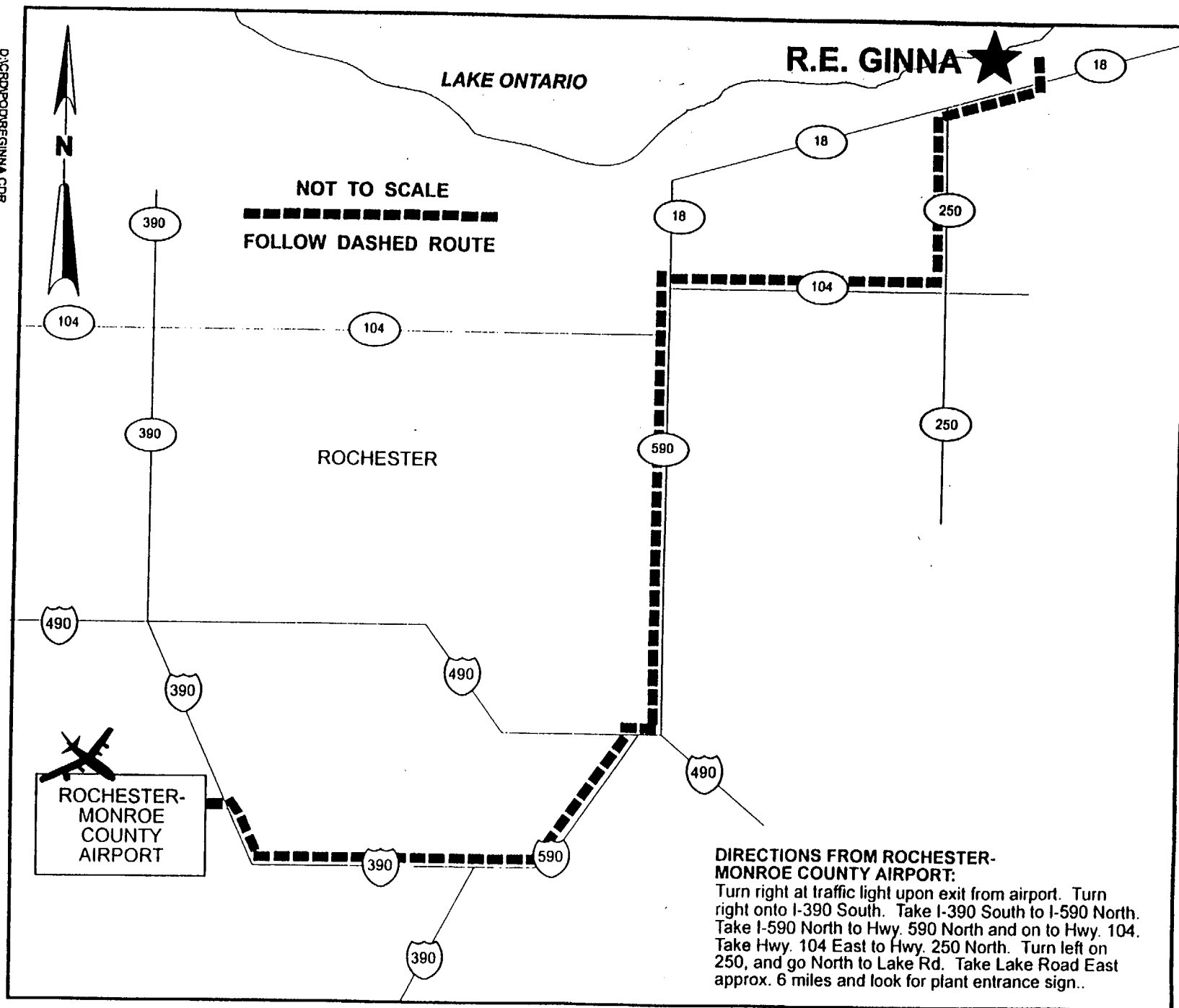


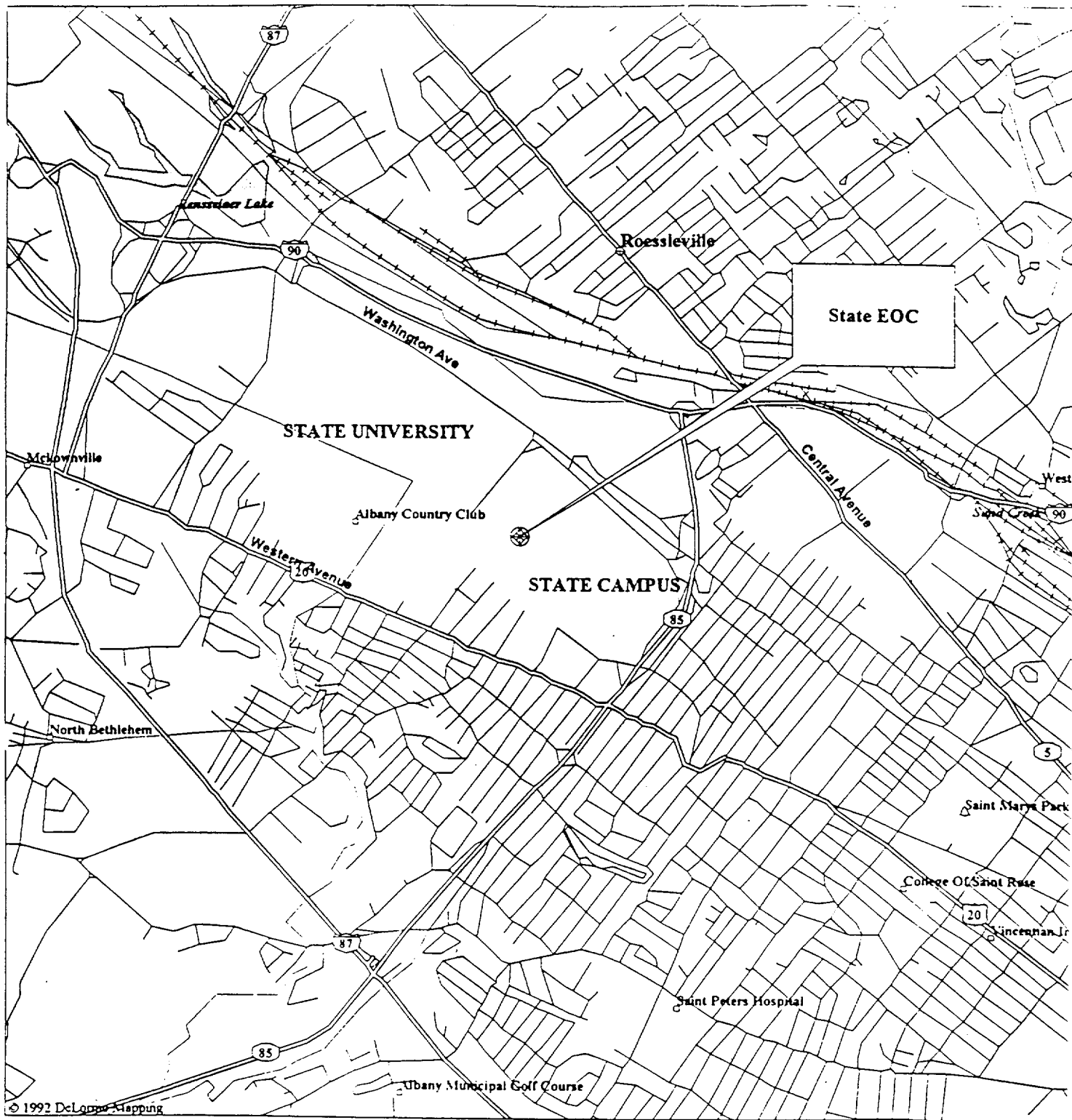


PLANT: **R.E. GINNA**

LOCATION: Ontario, NY

MEMBER UTILITY: **Rochester Gas & Electric Corporation**





# LEGEND

- |                  |                    |
|------------------|--------------------|
| State route      | Interstate highway |
| Marker           | State highway      |
| Large town       | U.S. highway       |
| Park             | Railroad           |
| Interstate route | River              |
| U.S. route       | Shoreline          |
| Boundary         | Open water         |
| Road             |                    |

Scale 1:31,250 (at center)

2000 Feet

1000 Meters

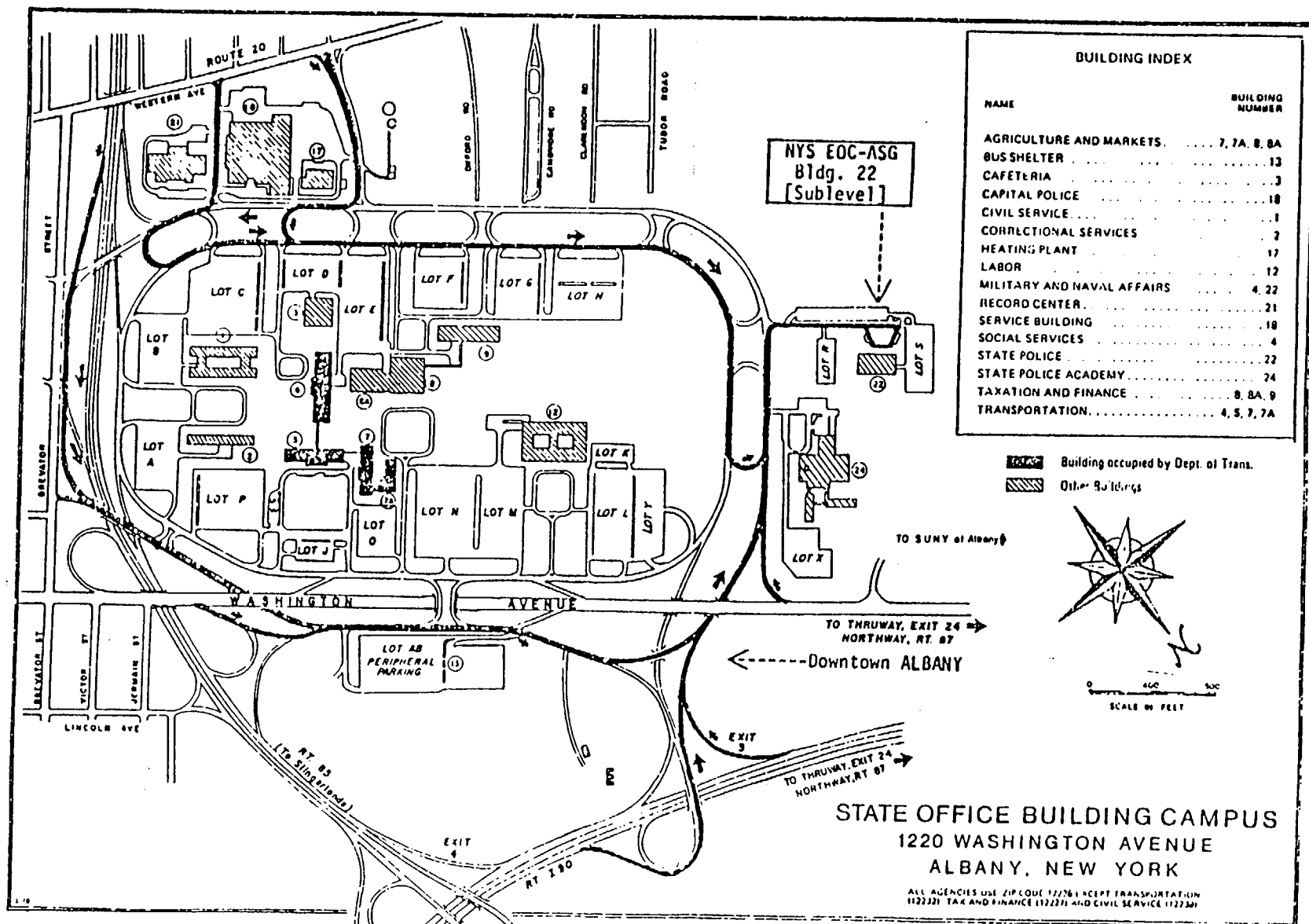
Procedure D-1

STATE EOC

Mag 14.00

Tue Jun 08 14:05:14 1993

Attachment 1



1

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\* FROM THE SOUTH or WEST take the N.Y.S. Thruway (I-87 Northbound/I-90 Eastbound) to Exit 24. After the toll booth proceed straight on I-90 to Exit 3.

\* FROM THE NORTH take the Adirondack Northway (I-87) South to Exit 1E. Proceed East on I-90 to Exit 3.

\* FROM DOWNTOWN ALBANY take I-90 Westbound to Exit 3.

\* FROM DOWNTOWN ALBANY take Washington Avenue to Western

## **SECTION 4.0**

### **REFERENCES/ABBREVIATIONS - ACRONYMS**

**4.1      References**

- 4.1.1**      10 CFR 50.47, 50.54, Appendix E
- 4.1.2**      44 CFR 350.9
- 4.1.3**      NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- 4.1.4**      RG&E Nuclear Emergency Response Plan (NERP)
- 4.1.5**      Ginna Station Radiation Emergency Plan Implementing Procedures (EPIPS)
- 4.1.6**      Ginna Station License and Technical Specifications
- 4.1.7**      Ginna Station Piping and Instrumentation Drawings
- 4.1.8**      New York State Radiological Emergency Response Plan
- 4.1.9**      Monroe County Emergency Preparedness Plan
- 4.1.10**    Wayne County Radiological Response Plan

**Abbreviations - Acronyms**

|          |  |
|----------|--|
| A/E      | Architect Engineer                           |
| ALARA    | As Low As Reasonably Achievable              |
| AOV      | Air-Operated Valve                           |
| ARMS     | Area Radiation Monitor(s)                    |
| ARV      | Atmospheric Relief Valve                     |
| ATWS     | Anticipated Transient Without Scram          |
| BAST     | Boric Acid Storage Tank                      |
| CD       | Civil Defense                                |
| CFR      | Code of Federal Regulations                  |
| CV       | Containment                                  |
| CR       | Control Room                                 |
| DOE      | Department of Energy                         |
| DOE-IRAP | DOE Interagency Radiological Assistance Plan |
| EAL(s)   | Emergency Action Level(s)                    |
| EAS      | Emergency Alert System                       |
| EC       | Emergency Coordinator                        |
| ECL(s)   | Emergency Classification Level(s)            |
| EOC      | Emergency Operations Center                  |
| EOF      | Emergency Operations Facility                |
| EPA      | Environmental Protection Agency              |
| EPC      | Emergency Planning Coordinator               |
| EPIP(s)  | Emergency Plan Implementation Procedure(s)   |
| EPZ      | Emergency Planning Zone                      |
| ERF(s)   | Emergency Response Facility(s)               |
| ERDS     | Emergency Response Data System               |
| ERPA     | Emergency Response Planning Area             |
| ESC      | Engineering Support Center                   |
| FEMA     | Federal Emergency Management Agency          |
| FRERP    | Federal Radiological Emergency Response Plan |
| GS       | Ginna Station                                |
| HALM     | High Alarm                                   |
| HP       | Health Physicist                             |
| HPN      | Health Physics Network                       |
| HVAC     | Heating Ventilation Air Conditioning         |
| INHB     | Inhibited (Alarm Suppressed)                 |
| INPO     | Institute of Nuclear Power Operations        |
| JENC     | Joint Emergency News Center                  |
| KI       | Potassium Iodide                             |
| LALM     | Low Alarm                                    |
| LCO      | Limited Condition of Operation               |
| LOCA     | Loss of Coolant Accident                     |

**Abbreviations - Acronyms (Cont'd)**

|        |  |
|--------|--|
| LWR    | Light Water Reactor                    |
| MOV    | Motor-Operated Valve                   |
| PIO    | Public Information Officer             |
| MPC    | Maximum Permissible Concentration      |
| NERP   | Nuclear Emergency Response Plan        |
| NRC    | Nuclear Regulatory Commission          |
| OSC    | Operational Support Center             |
| OOS    | Out of Service (on site)               |
| OOS    | Out of Sequence (off site)             |
| PAG(s) | Protective Action Guide(s)             |
| PAR(s) | Protective Action Recommendation(s)    |
| PASS   | Post Accident Sampling System          |
| PWR    | Pressurized Water Reactor              |
| RCP    | Reactor Coolant Pump                   |
| RCS    | Reactor Coolant System                 |
| RHR    | Residual Heat Removal                  |
| RG&E   | Rochester Gas and Electric Corporation |
| RP     | Radiation Protection                   |
| RST    | Radiation Survey Team                  |
| SAMG   | Severe Accident Management Guidelines  |
| SC     | Survey Center                          |
| SCM    | Simulator Control Room                 |
| SI     | Safety Injection                       |
| SPING  | High Range Effluent Monitor            |
| TSC    | Technical Support Center               |

## **SECTION 5.0**

### **CONTROLLER AND EVALUATOR INFORMATION**



## 5.0

### **CONTROLLER AND EVALUATOR INSTRUCTIONS**

Each Controller and Evaluator should be familiar with the following:

- a. The basic objectives of the Exercise.
- b. The assumptions and precautions being taken.
- c. The Exercise scenario, including the initiating events and the expected course of actions to be taken.
- d. The various locations that will be involved and the specific items to be observed when at those locations.
- e. The purpose and importance of the evaluation checklist and record sheets.

## 5.1

### **Controller Instructions**

- 5.1.1 Controllers will position themselves at their assigned locations prior to the activation of the facility for which they have responsibility (see Section 5.3).
- 5.1.2 Communications will be tested to ensure satisfactory communications among Controllers prior to Exercise commencement. All watches and clocks will be synchronized with the Ginna Simulator Time.
- 5.1.3 All Controllers will comply with instructions from the Lead Controller.
- 5.1.4 Each Controller will have copies of the messages controlling the progress of the Exercise scenario. No message shall be delivered out of sequence or other than as written unless specifically authorized by the Lead Controller.
- 5.1.5 Messages controlling the progress of the scenario are noted with a number. Contingency messages are noted with a number followed by the letter "X" (e.g., 10X).
- 5.1.6 Each Controller will have copies of time-related plant data sheets. Data sheets will be distributed only if the Simulator experiences a sustained malfunction. The decision to use these sheets will be made by the lead Exercise controller. Radiological information will also be displayed on the Simulator. Radiological survey information and meteorological data will be provided by controllers at locations where it is normally available.

- 5.1.7 Controllers will not provide information to the Players regarding scenario development or resolution of problem areas encountered in the course of the simulated emergency. The Exercise participants are expected to obtain information through their own organizations and Exercise their own judgement in determining response actions and resolving problems.
- 5.1.8 Some Players may insist that certain parts of the scenario are unrealistic. The Lead Controllers have the sole authority to clarify any questions regarding scenario content.
- 5.1.9 Each Controller will take detailed notes regarding the progress of the Exercise and the responses of the Exercise participants at their respective assigned locations. Each Controller will carefully note the arrival and departure time for participants, the times at which major activities or milestones occur and problem areas encountered. The Controllers will retain their notes for the purposes of reconstructing the Exercise chronology and preparing a written evaluation of the Exercise.
- 5.1.10 Controllers should display the same behavior as the players. This includes **No eating drinking or smoking and frisking upon entering the TSC or Survey Center.** The controllers should let the players enter the facility first and follow their actions. **Controllers are not to enter first and frisk. This is prompting.**

## 5.2 Evaluation Instructions

Each Controller/Evaluator will take detailed notes regarding the progress of the Exercise and the response of the Exercise participants at their respective assigned locations. Each Controller/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 guiding and directing improvement. The rating scale is as follows:

### Good

Personnel and equipment generally performed better than expected. Any errors or problems were minor and easily correctable.

### 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.

NA - Not applicable to the situation or not observed.

Controller/Evaluator comments should consider the demonstration of the following facility and team evaluation elements:

#### **5.2.1 Facility**

- o Accurate and timely determination of emergency action and classification levels.
- o Timely activation and staffing for each classification level.
- o Familiarity of personnel with appropriate emergency instructions, duties and responsibilities.
- o Timely notification of Rochester Gas and Electric Corporation, local, State and Federal personnel/agencies (information updates performed).
- o Adequacy of internal information systems (i.e., message handling, displays, status boards and maps).
- o Properly controlled documentation and accurate, timely record-keeping.
- o Utilization of correct communications procedures and techniques.
- o Capability of facility supervisors/directors to interface with personnel and coordinate facility activities.
- o Consideration of personnel safety (exposure control).
- o Adequacy of interface between emergency response facilities.
- o Adequacy of equipment and supplies.

- o Timely initiation of onsite protective/corrective actions.
- o Development of protective action recommendations.
- o Radiological surveys and assessment of plant damage and hazardous conditions performed.
- o Timely request of emergency support services.
- o Coordinated, accurate and orderly dissemination of information to the news media.
- o Proper assumption of command and control.

#### **5.2.2 Team**

- o Timely notification and activation.
- o Adequacy of staffing.
- o Familiarity with appropriate emergency procedures, duties and responsibilities.
- o Availability and utilization of proper equipment.
- o Performance of contamination/decontamination control.
- o Proper interface with emergency support personnel.
- o Utilization of correct communications instructions and techniques.
- o Availability of referenced documents to team members.
- o Utilization of proper radiological control practices (i.e., access control, protective clothing, shielding, stay time).
- o Performance of radiological surveys.
- o Timely and proper performance of damage assessment.
- o Properly maintained survey records and maps.
- o Adequacy of briefing sessions prior to dispatch.

- o Direction and control by team leaders.
- o Timely requests for offsite assistance if required.
- o Coordination and interface between emergency response team members.
- o Proper interfaces with plant supervisory personnel.  
Controllers/Observers will record their comments for the purpose of reconstructing the Exercise chronology and preparing a written evaluation of the Exercise.

### **5.3      Personnel Assignments**

Table 5.1 lists the personnel assignments for the on-site Controller organization.

### **5.4      Evaluation Packages**

The Team Dimensional Training (TDT) evaluation packages will be provided to the appropriate Controllers/Observers at the pre- Exercise briefing:

**TABLE 5.1**

The following personnel have been designated to act as Controllers during the 2001 Exercise activities:

| <b><u>Facility</u></b>  | <b><u>Controllers</u></b>   |
|---|---|
| Control Room (Simulator)  | Jim Zulawski (lead)<br>Rick Jenkins   |
| Control Room (Real)   | Shift Supervisor  |
| <u>TSC:</u><br>Lead<br>Technical/Ops. Assessment<br>Auxiliary Operators<br>Engineering Support Center<br>Security<br>Dose Assessment/RP<br>Admin/Communications | Tom Alexander<br>Bill Everett/John O'Toole<br>Kirk Hayes/Ken Corl<br>Terry Schuler<br>Ron Teed/Dave Palmer<br>Greg Jones<br>Frank Cordaro |
| <u>OSC:</u><br>I&C Maintenance<br>Mechanical Maintenance<br>Electrical Maintenance  | Mike Mann<br>Jamie Miller<br>Dick Baker   |
| <u>SC:</u><br>Lead<br>Team #1<br>Team #2<br>Team #3<br>Team #4<br>Team #5<br>Team #6  | Jim Knorr<br>Tom Therkildsen<br>Bob Wilson<br>Marv Green<br>Jon Blair<br>Fred Schwind<br>Jerry Edler                                      |
| <u>EOF:</u><br>Lead<br>Operations/Technical<br>Dose Assessment<br>County/State/NRC Operations<br>Survey Team  | Peter Polfleit<br>Bob Carroll<br>Tony Hedges<br>Al Jones<br>Tom Langdon   |

JENC:

Lead

Lee Loomis  
Brian Stanfield  
Joyce Curran  
Rick Meier  
Dan Kuhn

NATIONAL WEATHER SERVICE (Buffalo):

Lead

S. Levine (NWS/NOAA)

**GINNA STATION  
2001 EMERGENCY EXERCISE**

5.5 PUBLIC INFORMATION, RUMOR CONTROL AND SPOUSE PHONE  
QUESTIONS FOR THE EVALUATED EXERCISE

A significant aspect of emergency response is to provide the news media and general public with accurate and timely information about the incident. Public perception and reaction are influenced by the information relayed to them. To ensure that the Rochester Gas and Electric Corporation Emergency Organization is prepared to deal with outside inquiries during an incident at the Ginna Station, the Exercise provides certain elements that test Public Information and Rumor Control activities. During the course of the Exercise, the Joint Emergency News Center (JENC) will be activated and Exercised. The RG&E "Spouse Phone" will also be manned by the RG&E Medical Department.

Exercise Controllers have been selected to test the Rumor Control and News Media Contact Staffs, as well as the JENC. Controllers will act as concerned citizens, employees, employee relatives and as members of the media, posing questions to the staffs. When acting as members of the media, controllers shall make up a name and a media outlet (print or electronic) located outside of the Rochester area. Each time a rumor control message is delivered, a different fictitious name and address will be given. The phone number to be given will be the number from which the Exercise controller is calling so as to allow the county Rumor Control person(s) to return calls with appropriate information, if necessary. The Exercise controllers should maintain the theme of each rumor control message and answer inquiries of the counties' Rumor Control persons appropriately.

The following pages denote questions that these controllers can use. The questions are grouped by time in relation to the events specified in the Exercise Scenario. The Controllers are allowed to use questions previously utilized. The lead JENC Controller shall verify that the Exercise is adhering to schedule, otherwise time adjustments will be necessary. Space is provided for controllers to make notes on the response. Controllers need not use the questions herein; free play is encouraged. However, controllers must not get carried away with unusual or pointless questions.



When calling in questions, always precede questions with "THIS IS AN EXERCISE". If you are playing a reporter at the JENC, free play questions based on the information given during the briefing. Additionally, ask questions about RG&E, the State or counties, Ginna Station, radiation, state/county/utility interface, protective actions, etc. Questions and relevant telephone numbers will be distributed at the special Pre-Exercise Controllers Briefing.

Attachment 1 lists Public Information questions generally for RG&E;

Attachment 2 lists County Rumor Control Questions;

Attachment 3 lists questions for simulated press corps individuals.

Attachment 4 lists questions for testing the "Spouse Phone" in the RG&E Medical Department.

**GINNA STATION  
2001 EMERGENCY EXERCISE**

**ATTACHMENT 1**

**PUBLIC INFORMATION QUESTIONS**

**TIME**

0915

- This is \_\_\_\_\_ from Radio Station WHCU. We've heard that there is an incident at the Ginna Nuclear Plant. Can you tell us what is happening?
- My husband's a Wayne County Sheriff's Deputy. He said he's heard that there's a problem at the nuclear plant. I'm worried that they're going to send him out there. What is happening there?
- This is \_\_\_\_\_ from the Associated Press. I understand that you have an incident at the Ginna Nuclear Plant. What's going on up there?
  - How extensive is the problem?
  - Where did the trouble start in the plant?
  - Is it under control?
  - What's the status of the plant?
  - Are any workers injured?
  - Any radiation exposures to the workers?
  - Is the safety of the public threatened?
  - When will you have a press conference?
  - We'd like to send someone to the plant..Where do they go?

0930

- This is \_\_\_\_\_ from Radio Station WJRR. We have a report you have a problem at the Ginna Station. Would you tell our listeners the story?
- Could the problem become as serious as Chernobyl?
- Is the plant experiencing a meltdown? How do you know?
- Any injuries? Any radioactive contamination released?
- Who is in charge of the emergency?
- Did you declare an emergency?
- Was the reactor damaged?
- Did you evacuate the site? Why not?
- Are you going to evacuate the public living by the plant?
- Is the reactor under control?
- Do you have a press conference scheduled?
- I just heard sirens. How can I tell the difference between the fire siren and the nuclear sirens?

0945

- What is happening at Ginna?
- Any deaths or serious injuries?
- Have the federal authorities been notified?
- Have State and local officials been notified? Which agencies are involved?
- Is there any danger to the public?
- What is going on at Ginna?
- What are you doing to fix the problem?
- Are you evacuating the site?
- Are you going to tell the pregnant women and children to evacuate the area around the plant like the Governor of Pennsylvania did at TMI?
- Has Governor Pataki been notified?
- Are the sirens going to all go off?
- I heard that when you evacuate people that you bring in the National Guard to shoot any looters. Is that true?

1000

- I've heard you declared an "ALERT". What's that? What happened?
  - How did the problems start?
  - Has anyone been killed? Any injuries?
  - The situation seems to be getting worse...is this true?
- I work at Nine Mile Point Unit II.
  - I'm confused about what's going on at Ginna...is the leak into Containment or to the outside atmosphere?
  - Are the plant safety systems working?
  - How much radiation is being released?
  - Do you need any help from us?

This is Mr. Jay DeLass, Biddy Basketball president in Wayne County. I heard there was a major accident at Ginna and I was wondering if I should call the children's parents and cancel tonight's games.

This is Channel 13 news. How long do you expect that the emergency will continue? We're gathering a team to send to the Joint Emergency News Center and they should be there with 30 minutes. Will the News Center still be activated?

1015

- What is the significance of an "ALERT"?
- How bad is that?
- Have government officials been called?
- What will the Governor do?
- What is RG&E doing?
- Didn't Ginna have a problem several years ago?
- Who do I talk to for getting more information about
- I've got a large farm in Ontario and I need to know what should I do?
- Where would I get more stored feed for my cattle if my
- I think I heard the sirens...do I need to evacuate?
- I'm the Fire Chief for the Walworth Fire Department, I've had several calls from some of the townspeople trying to relay messages to family members who work at Ginna. Everyone is concerned because no one is answering the telephones. What do you want me to tell these people?
- This is Sam Mead, assignment editor at CNN. We are preempting our programming to cover the event at Ginna. Who do I talk to about being designated as the provider of network pool coverage?

1030

- I have heard that you declared a "Nuclear Alert". Is this true?
- How much of the plant has been damaged?
- Is there is a release?
- Has anyone been killed around the plant?
- Have the authorities been informed?
- Can't you just shut a valve or something?
- This is James Roder. I'm President of the Webster PTA, should we cancel tonight's meeting?
- I heard that your Ginna nuclear plant is shutdown. I'm looking at brokering some power. How much do you need?
- This is Governor Patacki's press secretary, Karen Holt. He is having a press conference in 15 minutes and he wants a statement from a Senior RG&E Official.

1100

- What does a General Emergency mean? Doesn't that mean a meltdown is happening?
- Is this accident similar to the one you had in 1982?
- Why didn't we have more warning about this problem before now?
- When will the NRC take over the plant?
- Will you evacuate people around the plant?
- In simple terms, what are they doing to control this
- Will there be a big release, or has one started?
- Is this as bad as Chernobyl?
- This is Rick Papas of Papas Construction. A state trooper gave me this number to call and get some information. I've got a five man crew working on a new house at Lake Road and Slocum Road. Is it okay for them to continue to work there with all of this accident stuff happening? We have a tight schedule and we cannot afford any more delays.
- This is Bob Gunner of FoxNews. We need to have a spokesperson on the phone for an update on the event. I'll hold the line.

1130

- This is Sam Goody with ABC. I want the most up to date information. We have interrupted our normal broadcast with a special report. We have nothing new. What is the latest information? I need to set someone up for an interview.
- Are farm animals safe?
- What about the crops and orchards around the plant?
- Are you releasing radiation? What are the levels?
- How are you checking radiation around the plant?
- Should we get out if we live in the 10-mile zone?
- My father is in the Maplewood Nursing Home in Webster.
- How long will this emergency last?
- If we evacuate, how long do we have to stay away?
- Is this like the movie "China Syndrome" come true?
- Is it true that you gave advance warning to families of RG&E workers?
- This is WABC in NYC. We are sending a crew upstate to Rochester. How many miles past White Plains do we have to drive?
- This is Sam Right of CBS. I need to get a statement from the Corporate Spokesperson and I need it now! If I don't get someone, I'll make something up. My job is at stake!

1200

- How much radiation is being released?
  - Is the radiation like bomb fallout? How dangerous is it?
  - Who is in charge of the emergency?
  - When will the next press briefing be held?
  - Where is the radiation heading?
  - What protective actions have been recommended?
  - Whom should I call for further information concerning Wayne (Monroe) County?
  - If we're evacuated, will my house ever be safe to return
  - Who gets the bill for all of this? Who's liable?
  - How did the problem start ?
  - Is this plant similar to Chernobyl or TMI?
  - How much radiation is being released off site?
  - What protective actions are in effect for Wayne (Monroe) County?
  - If I have to evacuate, can I return whenever I want to?
  - This is Tom Mahoney with USA Today. What is your internet site?
- 
- This is \_\_\_\_\_ from WKBZ TV in Buffalo.
    - How many people live in the 10-mile zone?
    - What are you going to do to fix the situation?
    - When is the next press briefing?
    - How many media are at the News Center?
    - What agencies are at the News Center?
    - Where is the wind going?
    - Who's in charge of the emergency?
    - Can the press go to the Ginna plant?
- 
- My dog is at a vets office in Penfield on Atlantic Avenue. What's being done to safeguard him?

1230

- I'm Jim Johnson from Ontario County. My neighbor said they expect the contamination to blow all the way down here.
  - What should I do about my turf farm?
  - If I can't sell the turf from my farm, who's going to pay me for my losses?
- Is the release over?
- How bad was it?
- How large an area is contaminated... for how long?
- Is the area around Ginna uninhabitable now?
- Is the government going to have to relocate everyone permanently?
- Where do I go to have my family and cars tested for radiation?
- What are electric rates going to be because of this?
- Where are you going to get power if Ginna is out of service?
- Are the shareholders going to have to pay for this?
- Should I sell my RG&E stock?
- What effect will this have on RG&E stock?
- What was your stock selling for this morning?
- What is your stock selling for now?



ATTACHMENT 2

**RUMOR CONTROL MESSAGES**  
**FOR MONROE COUNTY**

TIME

0920

- I hear there's an emergency at the nuclear power plant.
- How will I know if we have to leave?
- I'm \_\_\_\_\_ of Radio Station WWLE. You're on our "LIVE LINE" and could you tell our listeners what's happening at the Ginna Nuclear plant?
- How much damage did the problem do to the plant?
- What does the County Executive intend to recommend to the public?

0930

- Has any radiation been leaked yet?
- How can you be sure? Are you checking it?
- How can I find out when there is a release?
- If I have to evacuate, how much money will I need to take? Where will we be sent to sleep? Who will watch our house?

1000

- My daughter is at the Webster Library. How will she know about this?
- Can I drive over there to look for her?
- We've lost our emergency information handbook and need one right away. Will one of the emergency people you have deliver one to us?
- Where is the best place to take pictures of the plant if something "big" happens?

1100

- If there's an evacuation, I'm going to need help with my two infant twins. Can you help me?
- I need to talk to the County Executive. What's his number? I need to know what to do.
- Is RG&E telling us the truth?

1115

- I live near the plant and heard there is "NUCLEAR ALERT".
- Are you checking the radiation levels outside?
- Did the New York Malitia people do this?
- What's this I hear about a radiation leak at Ginna?
- Was that because of a big explosion or something? How many got hurt and who's running the plant now?
- The electric sockets in my warmer than usual. Is that because of the radiation that is being released from the nuclear plant?
- Somebody told me the Ginna workers bail out from the plant when there's a leak.
- I've been told that the radiation actually melted the asphalt on the plant entrance road. I own a driveway repair company. How do I bid on the repairs?

1130

- My wife is concerned because she doesn't think you county disaster people are being told everything by RG&E. I can't even get a straight answer on my monthly electric bill. What's really going on?
- This is the Wall Street Journal. The Security and Exchange Commission has suspended trading on RG&E stock. When is RG&E recommending that trading be resumed?
- Where is the County getting its information from?
- Can you tell RG&E to shut down the plant?

Are you going to demand a "Nuclear Free Zone" from now on?

- I don't trust the power plant people; they'd lie to save their own skins.
  - Do you have anybody checking on them?
- Is the County Legislature going to look into this accident and stop Ginna from starting up again?

Where is all the radioactive waste going to go now from this accident?

- Should I close my restaurant due to the accident at Ginna Station? I'm over by the Bay.
- What are we supposed to do?
- Who do I call to find out if we're going to have to leave?
- Who will pay for the lost income?
- How come you people are not giving out iodine like they did when Chernobyl blew up?
- This is Mike DiGravio from DiGravio's deli. I am catering a lunch at the Ginna training center today. What is the safest route for me to deliver the food and if I can't deliver the food, who is going to pay for it?

1200

- I heard nobody at Ginna can fix this plant accident! Is it true that the Feds are coming to take over?
- Are they gonna stop the release?  
Whats happening to all the school kids in Webster School District?
- I heard the siren but nobody said which way to go. My neighbor says the siren means to leave your house immediately. Is he right?
- What do I do? I live on Schlegel Road near the Elementary School.
- I hear that the Maplewood Nursing Home will evacuate its patients. My father is in there. Where will he be when it's over so I can go make sure he's okay?

1230

- I'm leaving now. Where do I go for temporary housing? I live on Jackson Road near Ridge Road.
- I'm evacuating now. Which way is safe to travel? We live near Salt Road and Atlantic Avenue. We need temporary housing. I've got 5 kids with me.
- I am supposed to leave but don't have a place to stay. Which school can I stay at? I live on Lake Road near Basket Road.
- How do I get there?
- Who's going to pay my expenses?
- Who do I call to get a check for my expenses?
- This is Barb Harriman at the Plank Rd elementary school in Webster. Parents are calling in and asking us to send their kids home right away so they can get them out of the area. Should we be evacuating schools?

1300

- Is it true that the milk is now poisoned? Where are we supposed to get our milk now?
- We don't have any money or a car. How do we get away from the radiation?
- Where do we live and eat?

I live up on Five Mile Line Road by the R.L. Thomas School.

- I heard the accident at the Ginna Station is getting worse.
- Are we gonna be moved out of our homes after this?
- Why haven't you made the announcement on TV?
- What is the Governor doing?
- Who's in charge of handling this accident anyway?
- What is the status of the problem that occurred this
- What caused the problem?
- I've heard that the reactor is destroyed. Is this true?
- Do you have insurance?
- Who will pay for this?
- My homeowner's insurance states that I am not covered for nuclear accidents!
- I'm calling from Penn Yan ...I just heard about the Ginna problem and we're coming home from vacation - We live
- Can we go home or should we stay over another night?
- I'm low on cash...is there some way I can get some expense money from RG&E's insurance company?

**RUMOR CONTROL MESSAGES**  
**FOR WAYNE COUNTY**

TIME

0915

- I hear there's an emergency at the nuclear power plant.
- How will I know if my family and I need to do something?
- I'm Jane Thomas of Radio Station WZZZ. Can you tell our listeners what's happening at the Ginna Nuclear plant? You're live on our "MORNING SOUND-OFF SHOW". Go ahead..
- How much damage did the explosion do to the plant?
- What does Wayne County intend to recommend to the public?
- Will you have a press conference?

0930

- Has any radiation been released yet?
- How can you be sure?
- How can I find out when there is a release?

0945

- My daughter and a friend are out shopping at Ames Plaza in Ontario. They're probably near the plant.
- How are they going to be warned about the plant problem?
- Can I go there to warn them?
- My mother works in the office at the Freewill Elementary
- How do they know there's problem?
- Are they safe?

1015

- We've lost our emergency information handbook and need one right away. Will one of the emergency people you have deliver one to us?
- We live near Kenyon Road and Ontario Center Road- are we going to have to evacuate? We're very close to Ginna!
- Where are we supposed to go if we're told to leave?
- I don't have any health insurance. My throat started to really hurt this morning when the nuclear plant started having problems. Where can I go for free medical attention?

1100

- If there's an evacuation, I'm going to need help with my father who is bedridden due to a heart attack last month. Can you help me?
  - We live in a one-story woodframe house. The calendar we supposed to apply only to brick buildings with thick
  - I wanna talk to Marvin Decker or someone in charge! I need to know what's going on and what to do.
  - My power just went out! Is that because of the accident at Ginna? When can I expect to get my power back?
  - I live near the plant and don't want that nuclear stuff falling on my house.
  - Can we go outside? Are we in danger?
  - Are you people checking the radiation?
  - My son's eyes are red and watering, could this be from the radiation leak at Ginna?
  - What's this I hear about a release at Ginna? Is that what caused the plant to send everybody home?
  - How many got hurt and who's gonna run the plant now?
- (Note: This caller is under the mistaken impression that Ginna has been abandoned and is now out of control.)

1130

- My wife is concerned because she doesn't think you county disaster people know what you're doing! I told her not to worry because the County Chairman knows how to run the plant because he's practiced it before. Just one thing, why doesn't he turn it off before we get melted down?
- Is Wayne County going to be declared a disaster area?
- Is this accident as bad as Chernobyl or TMI?
- Where do the school kids go?
- Should I close my business due to the accident? Who will pay for the lost income?

(The business is Route 104 near Knickerbocker Road).

1200

- What are we supposed to do - leave or stay put?
- We live in Marion - is there radiation heading this way?
- What can I tell my neighbor to calm her down?
- One of my neighbors chickens just died. Is it because of the accident at Ginna? How many more of our farm animals have to die before we get compensated by RG&E?
- Should I cover my vegetable garden to protect it from
- I heard nobody at Ginna knows what the hell is going on! Is it true that State people are coming to take over?
- We heard the Governor is coming to take charge of Ginna.
- Are the crops going to be condemned because of the contamination?
- This is Karen Gibbons at the Humpty Dumpty Day Care Center on Ridge Rd in Ontario. Parents are calling me and coming to get their kids, saying the radiation is coming this way. Should I take the rest of the kids and run? I don't have enough car seats to take all of the kids and I can't take only some of them. What should I do?
- I heard with the radiation leak at Ginna that you have banned fishing on Lake Ontario. I have a charter out of Sodus Point for today. Are you guys going to compensate me?

1230

I heard the siren but nobody said which way to go. My neighbor, says the siren doesn't mean to go; you're supposed to hide in your basement!

Which is it? We don't have a basement!

How am I going to feed my family for the next several

My car's in the shop for repair...could I get

I'm leaving now. Can I pick my daughter up? She's got a job at the Ontario Manor Motel in Ontario.

I live in Walworth...we just had a problem a few weeks ago with the drinking water. Are we going to have to boil our drinking water again

1300 o

- I think I am supposed to leave but don't have a place to stay. I live in Wayne ERPA Number 2 near the plant.
- Which county shelter can I stay at? How do I get there?
- Who do I call to get a check for my expenses?
- Can I get my family and car checked for radiation?
- I heard the accident at the Ginna Station hasn't been stopped.
- When are we gonna be allowed to go home?
- Why haven't you made the announcement on TV?
- What is the County Chairman doing about Ginna?
- Has he taken charge of this thing yet?
- Will the County shut Ginna down for good?

1330

- What is the Ginna problem that occurred this morning?
- I've heard that the reactor has a hole in it. Is this true?
- Were we supposed to hear the sirens?
- Is there a place where we can buy "anti-radiation" pills to protect against the fallout?
- Do they make you immune against radiation?
- My neighbor says we should take potassium or eat shellfish or something. What are you keeping from us?
- Does the County have insurance for such a disaster?
- My homeowners insurance states I'm not covered for nuclear accidents! What do I do now?
- I'm calling from Syracuse...I got my family out of our house in Pultneyville this morning. when will it be safe to go home again?
- Can we be monitored for nuclear radiation somewhere?



### ATTACHMENT 3

#### PRESS CORPS QUESTIONS

- What back-up safety systems are available and working at Ginna?
- How bad a leak occurred? Where did it go?
- Is the reactor stable and under control?
- Is this plant similar to TMI?
- Were any workers contaminated?
- I heard that the stock exchanges have stopped trading on RG&E stock. Do you know when it will resume trading and how much lower the starting price will be?
- How much radiation was released around the plant?
- I heard that New York State Electric and Gas was going to buy your company. Is that still going to happen?
- What protective actions are in effect for Wayne (Monroe) County?
- How many people live in Wayne (Monroe) County?
- What are you going to do to fix the situation?
- Since Westinghouse built both Ginna and Three Mile Island, do you think that Westinghouse will get out of the utility business?
- I'm from MSNBC. We are sending a helicopter to Ginna for some exclusive footage of the site. Which direction should it approach to minimize its radiation exposure?
- When is the next press briefing?
- How many media are at the News Center?
- What agencies are at the News Center?
- Where is the wind going?
- When will plant operators be available for interviews?
- Who's in charge of the emergency?
- For any news organization wishing to take footage of Ginna, who do we see at the plant gate?
- How will home-bound mobility impaired or nursing home patients be protected?
- What exactly does "sheltering" involve..does this apply to any type of home?
- Does RG&E have enough power without Ginna to supply its customers?
- How is the plant getting power now to run its safety systems?
- Will the shareholders or ratepayers absorb the cost of this mishap?
- Is this the same type of problem that Ginna experienced in 1982?
- Who will pay for all the damage to personal property from this accident?
- After cleaning up the radioactive waste from this accident, where does it all get sent? Has RG&E significantly added to the State's low-level waste crisis?
- Why doesn't RG&E distribute potassium iodide to the public?...do RG&E people get it?
- How will this problem affect your stock price?
- How close have you come to a meltdown?
- How do you know the extent of damage to the Ginna reactor?

## ATTACHMENT 4

### "SPOUSE PHONE " QUESTIONS

0915

- My husband is a mechanic at Ginna Station, and I've heard they've had an emergency. How serious is it?
- How long is this accident expected to go on?
- Do you know if workers have evacuated the plant?
- Are the workers all okay?
- When will my husband be home?

0945

- This is JANE CORDARO. My husband, Frank is at Ginna Station or East Avenue. I need to get a message to him. We live 2 miles from the plant and may need to evacuate.
- Do you know for sure if we will have to evacuate?
- If we evacuate, tell Frank that the kids and I will go to my parents house.

1015

- My husband works in the Ginna Training Department. I
- My neighbor told me there was a problem with possible
- Has everyone evacuated the plant?
- Were any of the employees hurt?
- How can I reach my husband? I just need to know he's

1045

- My son is an operator at Ginna.
- What's happening at the plant?
- How bad is it?
- Are the workers in danger?
- Are they keeping the people at Ginna?

1115

- My husband works at Ginna in Health Physics.
- Where are the plant workers now... have they left the plant?
- How can I reach my husband if he doesn't call soon?
- I'm worried about him since he had a medical problem just two years ago. This stress could be very bad for him.

1130

- My husband called me this morning and said there was a problem at the plant, and said he'd keep me posted. I haven't heard anything from him for 3 hours.
- He's on one of the survey teams...are they safe?
- Will the workers be relieved and allowed to come home today?
- My wife works at Ginna and she is pregnant. If anything happens to the baby will RG&E cover the costs? What is the company doing to ensure her safety?

1200

- My husband works at Ginna, and is there now. I've been listening to the news....is it as bad as it sounds?
- What's really going on?
- Do they have the accident under control yet?
- How badly have the workers been exposed to radiation?
- Do they expect the plant will ever start up again?
- Can I drive to the plant and drop off a change of clothes for my husband if he's got to stay overnight?

## **SECTION 6.0**

### **SCHEDULE OF EVENTS**

## SECTION 6.0

### 2001 GINNA PLUME EXPOSURE PATHWAY EXERCISE

#### SCHEDULE OF EVENTS

| <u>DATE</u> | <u>TIME</u> | <u>GROUPS</u>            | <u>ACTIVITY</u>                 |
|-------------|-------------|--------------------------|---------------------------------|
| 6/4         | 9-10        | ALL (EOF)                | PLAYER BRIEFING                 |
|             | 2-3         | ALL<br>(GTC AUDITORIUM)  | PLAYER BRIEFING                 |
| 6/5         | 8-11        | AS ASSIGNED              | CONTROLLER BRIEFING             |
|             | 1-3         | NRC EVALUATORS           | SCENARIO BRIEFING               |
| 6/6         | ??-??       | ALL                      | 2001 EXERCISE                   |
| 6/7         | 8-10        | CONTROLLERS              | PRE-CRITIQUE MEETING            |
|             | 10-11       | ALL                      | RG&E CORPORATE CRITIQUE         |
|             | 11-12       | ALL                      | NRC CRITIQUE                    |
| 6/8         | 10-12       | OFFSITE AGENCIES<br>RG&E | FEMA CRITIQUE                   |
|             | 1-2         | NRC / FEMA               | PUBLIC MEETING / MEDIA BRIEFING |

## **SECTION 7.0**

### **EXERCISE SCENARIO**

**GINNA STATION  
2001 EMERGENCY PREPAREDNESS EXERCISE**

**INITIAL CONDITIONS**

1. The R.E. Ginna Nuclear Power Plant is operating at approximately 100% rated thermal power. The Plant has been on line continuously for 9 months.
2. Equilibrium Primary Coolant Isotopic activity as of 0300 hours (6/6/01) is provided in Table 9.2 of scenario section 9.3. Total activity is 0.2  $\mu\text{Ci/gm}$ . Chemistry log sheet will be available from the controller.
3. General Weather conditions are partly cloudy with no current precipitation. For purposes of the exercise, additional meteorological information in the simulator control room should be obtained from the plant process computer system (PPCS).
4. The reactor core has a burn up of 9000 MWD/MTU and RCS boron concentration is 777ppm. Boric Acid Storage Tanks boron concentration is 14,000ppm.
5. The "C" Standby Auxiliary Feedwater pump is out of service due to valve 9700A being cut out and replaced due to a failure to close during PT-36Q-C. There was a problem with the check valve where the disc would not re-seat properly. The pump is in pull-stop and held. Also valves 9629A, 9701A and 9710A are held closed. An A-52.4 has been submitted. The pump has been out of service for 24 hours.
6. Diesel Air Compressor is out of service for annual maintenance. An A-52.12 has been submitted.
7. The "B" Residual Heat Removal pump is out of service due to high vibrations. A new rotating element is being installed. The pump is in pull-stop and held. Valves 704B and 850B are held closed. An A-52.4 has been submitted.
8. New record highs have been set for electric power usage for the past 2 days. Today is expected to set a new record for usage.
9. The "C" Safety Injection pump is out of service. Sparking was observed from the motor while filling the accumulator. The sparking was due to a motor rotor bar cracking problems. The pump has been out for 6 hours. The motor is removed and sent out for repairs. It is scheduled to be returned in 24 hours. The pump is in pull-stop and held. Valves 871 A & B and 1815 A & B are all held closed. An A-52.4 has been submitted.

**GINNA STATION  
2001 EMERGENCY PREPAREDNESS EXERCISE**

**ONSITE SEQUENCE OF EVENTS**

| <u>APPROPRIATE<br/>TIME</u> | <u>SCENARIO<br/>TIME</u> | <u>EVENT DESCRIPTION</u>  |
|-----------------------------|--------------------------|---|
| 06:45                       | -00:15                   | Initial conditions established.   |
| 07:00                       | 00:00                    | Announcement to commence annual exercise.   |
| 07:35                       | +00:35                   | <p>Level transmitter (LT-428) fails low causing letdown isolation.</p> <p><u>Anticipated results</u><br/>Operators should receive the following annunciators: F-4 "PZR level deviation" F-6 "PZR heater breaker trip", F-11 "PZR low level" and F-14 "Charging pump speed". Operators should defeat the channel per ER-INST.1 and restore letdown per S-3.2E.</p>   |
| 07:55                       | +00:55                   | <p>A thermal barrier leak develops on the "B" Reactor Coolant Pump. Operators receive annunciator B-10 "RCP 1B Labyr seal low Diff pressure" and an alarm on R-17 "Component Cooling".</p> <p><u>Anticipated results</u><br/>Operators should observe increasing level in the Component Cooling Water (CCW) surge tank. Operators should close the Thermal Barrier CCW return valve (MOV-754A) to isolate the leak.</p> |
| 08:00                       | +01:00                   | <p>MOV-754B is shut by this time.</p> <p><u>Anticipated results</u><br/>The CCW surge tank level has stabilized and Labyrinth seal DP has returned to normal.</p>   |



| APPROPRIATE<br>TIME             | SCENARIO<br>TIME | EVENT DESCRIPTION  |
|---------------------------------|------------------|--|
| 08:20<br>SITE AREA<br>EMERGENCY | +01:20           | <p>A large feedline break occurs on the "A" feedline. All Auxiliary Feedwater (AFW) pumps fail to start due to the high-energy break. The "D" SAFW pump fails to start due to the breaker for the "B" MDAFW pump failing closed. Collateral damage causes failure of other components such as air line breaks and Feed Regulating valve problems.</p> <p><u>Anticipated results</u><br/>Operators will respond to the event by implementing procedure E-0 in response to the reactor trip and then transition to FR-H.1 for a loss of heat sink.</p> <p>A SITE AREA EMERGENCY should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification". EAL number 1.3.1 "ORANGE or RED path in F-0.3, HEAT SINK".</p> <p>Operators should implement procedure EPIP 1-3 "Site Area Emergency".</p> <p>Procedure EPIP 1-6 "Site Evacuation" should be implemented to evacuate unessential personnel from the plant.</p> <p>If a Site Area Emergency is not declared in approximately 15 minutes, a contingency message should be given out to declare it.</p> |
| 09:05                           | +02:05           | <p>Due to the containment isolation signal, containment radiation monitors R-2 and R-7 increase to approximately 200 mR/hr due to the thermal barrier leak into the CCW system causing the relief valve on the CCW system to lift inside containment.</p> <p><u>Anticipated results</u><br/>The plant should determine that the only method to isolate the leak is to make an entry into containment. The plant should discuss what precautions would be required to enter containment.</p> <p>Operators should be using procedural guidance to determine that the only option available to cool the core is to feed and bleed the reactor coolant system.</p> <p>The TSC, OSC, ESC, EOF, JENC and Survey Center should be activated and checking operational readiness.</p>   |

| <u>APPROPRIATE TIME</u>       | <u>SCENARIO TIME</u> | <u>EVENT DESCRIPTION</u>   |
|-------------------------------|----------------------|--|
| 9:25                          | +02:25               | <p>The plant should be determining that the feed and bleed of the reactor coolant system is not adequate to remove the heat from the reactor and that core exit thermocouple (CET) temperatures are increasing.</p> <p><u>Anticipated results</u><br/>The TSC should have all of the minimum functions staffed and should be making preparations to assume command and control from the control room</p>   |
| 10:20                         | +03:20               | <p>Core Exit Thermocouple temperatures exceed 700°F.</p> <p><u>Anticipated Results</u><br/>Operators enter procedure FR-C.1 and depressurize the "B" Steam Generator to atmospheric pressure to attempt to cool the core and provide more cooling options.</p>   |
| 10:35<br>GENERAL<br>EMERGENCY | +03:35               | <p>Operators determine that the FR procedure were not effective.</p> <p><u>Anticipated results</u><br/>A GENERAL EMERGENCY should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification". EAL number 1.2.2 "RED path in F-0.2 "CORE COOLING and Functional restoration procedures not effective within 15 minutes"</p> <p>Operators should implement procedure EPIP 1-4 "General Emergency" and implement EPIP 2-1 to recommend protective actions to offsite authorities. (The RED path will be entered due to the RCS temperature of 700F, not the 1200F temperature)</p> |
| 11:12                         | +04:12               | <p>The "D" SAFW pump is restored.</p> <p><u>Anticipated results</u><br/>Operators start to feed the "B" Steam Generator and open the associated ARV to remove heat from the reactor core.</p>  |
| 11:15                         | +04:15               | <p>Due to the thermal shock of the cold water in the "B" S/G, a primary to secondary leak develops in the "B" S/G. Since there is no other method to remove heat from the reactor core, the plant will have to continue to steam the "B" S/G.</p> <p>A release to the environment starts. The release path is a primary to secondary leak in the "B" S/G and an open Atmospheric Relief Valve (ARV) on the "B" S/G.</p> <p><u>Anticipated results</u><br/>Dose projections should be performed. Results should be verified by survey teams in the field.</p>   |

| <u>APPROPRIATE<br/>TIME</u> | <u>SCENARIO<br/>TIME</u> | <u>EVENT DESCRIPTION</u>  |
|-----------------------------|--------------------------|---|
| 12:00                       | +05:00                   | <p>The plant should be continuing cooldown on the "B" Steam Generator.</p> <p><u>Anticipated results</u><br/> The plant should be determining if they can isolate the "B" Steam Generator ARV (They cannot due to the damage from the feedwater line break). The plant should also be assessing if they can fill the "A" Steam Generator to cool the core.</p> <p>The plant should discuss how they plan to transition from FR-C.1 to procedure E-3</p> |
| 12:45                       | +05:45                   | <p>The reactor coolant system temperatures allow the plant to cool down on RHR and stop the release from the "B" Steam Generator ARV.</p> <p><u>Anticipated results</u><br/> The plant terminates the release. Survey teams conduct surveys to ensure that the release has ended</p> <p>Recovery/Re-entry discussions commence.</p>   |
| 13:00                       | +06:00                   | Terminate the exercise when all objectives are met  |

## **SECTION 8.0**

### **MESSAGE FORMS / DATA SHEETS**

Time: 06:45  
Message: 1

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Review initial conditions and plant status with the drill operating crew.
2. Review exercise precautions/limitations and any exercise activities that are not normal (i.e. extent of offsite participation, simulations, abnormal conditions to conduct exercise)
3. Ensure that the operating crew understands that the exercise is not to interfere with safe plant operation.

**Actions Expected:**

1. Participants should review initial conditions, turnover sheets, and applicable procedures.

Time: 07:00  
Message: 2

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room Shift Supervisor

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Make the following PA announcement after sounding the "Attention" signal:

"Attention, Attention all personnel. The Ginna Nuclear Station is now starting its 1996 Emergency Preparedness Exercise. All Exercise messages must be started and ended with 'This is an Exercise'." (Announce twice)

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Ensure that the PA announcement is made.

**Actions Expected:**

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.08134-04 | INHB  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 99.59      | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2249.      | GOOD  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 50.3       | GOOD  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 41.8       | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 726.       | GOOD  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 726.       | GOOD  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .19        | GOOD  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.6        | GOOD  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 588.9      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 588.9      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 532.9      | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 532.9      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.2      | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 599.3      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1454.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 7.5        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 187.       | GOO* | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 65.7       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 64.9       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -.8        | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.08929+00 | GOOD | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 2.23872+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.44062-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.87497+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.21795+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.79096+02 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.62379+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.40130+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 88.6       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 91.8       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 91.8       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 91.8       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 91.8       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVEL 6FT TEMP #17  | 95.1       | GOOD | DEGF   |

Time: 07:15  
Message: 3

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.08134-04 | INHB  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 99.59      | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2249.      | GOOD  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 50.2       | GOOD  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 42.4       | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 726.       | GOOD  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 726.       | GOOD  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .09        | GOOD  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.6        | GOOD  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 588.9      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 588.9      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 532.9      | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 532.9      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.0      | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 598.7      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1454.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 3.2        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 176.       | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 53.0       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 51.1       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.9       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.16271+00 | GOOD  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 2.20039+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 8.75990-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.22240+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.49540+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.77463+02 | GOOD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.24741+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.51135+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.05041+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.85923+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.72469+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 87.5       | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 89.7       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 89.7       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 89.7       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 89.7       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 92.1       | GOOD  | DEGF   |

Time: 07:30  
Message: 4

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.08134-04 | INHB | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 99.57      | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2249.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 50.2       | GOOD | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 14 TSBTC    | INCORE TC SUBCOOLED MARGIN        | 41.8       | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 726.       | GOOD | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 726.       | GOOD | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .08        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 588.9      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 588.9      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 532.9      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 532.9      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 560.9      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.2      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 599.0      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1454.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 3.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 153.       | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 54.1       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 52.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.8       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.08929+00 | GOOD  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 2.23872+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.27899-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.90904+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.21795+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.79096+02 | GOOD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.72469+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.40130+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 85.5       | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 88.4       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 88.4       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 88.4       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 88.4       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 91.3       | GOOD  | DEGF   |

Time: 07:35  
Message: 5

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\* THIS IS AN EXERCISE \*\*\*

Operators should receive the following annunciators:

- F-4 "PZR level deviation"
- F-6 "PZR heater breaker trip"
- F-11 "PZR low level"
- F-14 "Charging pump speed".

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Level transmitter (LT-428) fails low causing letdown isolation.

**Actions Expected:**

1. Operators should defeat the channel per ER-INST.1 and restore letdown per S-3.2E.

## **GINNA STATION**

### **JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

##### **Activity: Failure of level transmitter LT-428**

The control room operators receive indications that the LT-428 has failed.

##### **Controller Notes:**

1. The level transmitter is allowed to be returned to service.

##### **Actions Expected:**

1. Maintenance will assemble a repair team of electricians to trouble shoot transmitter.
2. Planner will start paperwork for possible repair/troubleshooting of transmitter.
3. The repair team should troubleshoot the pump and determine that the TBD has failed.
4. Report will be made to the Maintenance Manager on the condition of the transmitter.
5. Planners check on parts and procedures to repair the transmitter.

Time: 07:45  
Message: 6

**GINNA STATION**

**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.10940-04 | INHB | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 99.72      | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2263.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 62.9       | HWR* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 43.3       | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 727.       | GOOD | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 727.       | GOOD | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .08        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 589.1      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 589.1      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 533.0      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 533.0      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 561.0      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 561.0      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.0      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 599.0      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1604.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 4.2        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 131.       | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 55.9       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 54.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.6       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.96397-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.22587+00 | GOOD  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.15478+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.77828+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.49513-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.87497+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.35488+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.94116+02 | GOOD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.43820+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.34009+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.90903+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.62379+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.40130+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 83.8       | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 87.7       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 87.7       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 87.7       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 87.7       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 91.5       | GOOD  | DEGF   |

Time: 07:55  
Message: 7

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Operators receive annunciators and alarms

- B-10 "RCP 1B Labyr seal low Diff pressure"
- E-16 "RMS Process Monitor High Activity"
- R-17 "Component Cooling".

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. A thermal barrier leak develops on the "B" Reactor Coolant Pump.

**Actions Expected:**

1. Operators should observe increasing level in the Component Cooling Water (CCW) surge tank.
2. Operators should close the Thermal Barrier CCW return valve (MOV-754A) to isolate the leak.



## **GINNA STATION**

### **JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

##### **Activity: Thermal barrier leak on the "A" RCP**

The control room operators receive indications that there is a thermal barrier leak on the "A" RCP.

##### **Controller Notes:**

1.

##### **Actions Expected:**

1. The plant should determine that a containment entry is required to fix the thermal barrier leak.
2. Discussions should commence on containment entry requirements.

Time: 08:00  
Message: 8

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. MOV-754B is shut by this time.
2. The CCW surge tank level has stabilized and Labyrinth seal DP has returned to normal.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.10940-04 | INHB | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 99.93      | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2235.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 51.0       | GOOD | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 40.9       | GOOD | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 728.       | GOOD | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 728.       | GOOD | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .09        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 589.5      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 589.5      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 533.3      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 533.3      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 561.4      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 561.4      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.0      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 598.1      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 0.    | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 0.    | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | OFF   | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | OFF   | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 P0619    | COMPONENT COOLING LOOP TOTAL FLW | 1454.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 4.8        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 108.       | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 57.8       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 56.4       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.4       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.22587+00 | GOOD | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 2.23872+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.12009-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.94328+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.54306+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.69402+02 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.05041+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.08554+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.40934+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 82.7       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 87.3       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 87.3       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 87.3       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 87.3       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 92.0       | GOOD | DEGF   |

Time: 08:15  
Message: 9

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | NOT TRIP   | GOOD  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 6.10940-04 | INHB  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.11213-04 | INHB  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | 100.01     | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2252.      | GOOD  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 48.4       | GOOD* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 100.1      | GOOD  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 100.1      | GOOD  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | NOT TRIP   | GOOD  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 42.0       | GOOD* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | 52.1       | GOOD  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 729.       | GOOD  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 729.       | GOOD  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | NOT TRIP   | GOOD  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | NOT TRIP   | GOOD  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | NOT TRIP   | GOOD  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | TRIPPED    | GOOD  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | TRIPPED    | GOOD  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .09        | GOOD  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 589.5      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 589.5      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 533.3      | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 533.3      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 561.4      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 561.4      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 100.3      | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 599.5      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | CLOSED     | GOOD  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | CLOSED     | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 59.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 59.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1438.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.3        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 86.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 59.7       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 58.4       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.21309+00 | GOOD | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 2.05352+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.54992-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.80728+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 5.54306+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.71001+02 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.05041+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.58405+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.17308+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | .00000+00  | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 82.1       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 87.4       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 87.4       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 87.4       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 87.4       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 92.5       | GOOD | DEGF   |

Time: 08:20  
Message: 10

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\* THIS IS AN EXERCISE \*\*\*

Numerous annunciator alarms are received.  
The reactor trips.

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. A large feedline break occurs on the "A" feedline. All Auxiliary Feedwater (AFW) pumps fail to start due to the high-energy break. The "D" SAFW pump fails to start due to the breaker for the "B" MDAFW pump failing closed. Collateral damage causes failure of other components such as air line breaks and Feed Regulating valve problems.

**Actions Expected:**

1. Operators will respond to the event by implementing procedure E-0 in response to the reactor trip and then transition to FR-H.1 for a loss of heat sink.
2. A SITE AREA EMERGENCY should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification". EAL number 1.3.1 "ORANGE or RED path in F-0.3, HEAT SINK".
3. Operators should implement procedure EPIP 1-3 "Site Area Emergency".
4. Procedure EPIP 1-6 "Site Evacuation" should be implemented to evacuate unessential personnel from the plant.

Time: 08:30  
Message: 11

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Reactor trip response continues in the control room.
2. Operators should determine that they have no method to add water to the steam generators to remove heat from the core. Their only option will be to feed and bleed the reactor coolant system to remove heat from the reactor core.
3. The onsite responders should have arrived in their facilities, are starting their activation procedures and are gathering information about the event

## **GINNA STATION**

### **JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

#### **Activity: Return of "D" Standby Auxiliary Feedwater Pump**

The control room operators receive indications that the "B" Auxiliary Feedwater pump breaker is not tripped.

#### **Controller Notes:**

1. The "D" SAFW pump cannot be returned until 11:12.

#### **Actions Expected:**

1. The electricians will jumper out the interlock that prevents the "D" SAFW pump from starting if the "B" AFW pump breaker is closed
2. The OSC will assemble a repair team of electricians to jumper out the interlock.
4. The repair team should jumper out the interlock.
5. Report will be made to the Maintenance Manager on the condition of the jumper.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.00000+00 | INHB  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.00000+00 | INHB  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 7.14493-10 | GOOD  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 7.69128-10 | GOOD  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2116.      | GOOD  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 46.5       | GOO*  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 23.4       | INHB  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 2.7        | INHB  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 75.8       | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 16 LSCB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 1057.      | HALM  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 1039.      | GOOD  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .08        | GOOD  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 560.7      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 552.8      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 555.4      | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 554.4      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 558.0      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 553.6      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 107.6      | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 561.1      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 58.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 57.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1776.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 92.0       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.06538+00 | GOOD | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.62181+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.11659+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.86967+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 1.99239+02 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.05041+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.34009+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.27808+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.01548-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 1.76788-03 | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 6.92365-04 | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 81.9       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 86.6       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 86.6       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 86.6       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 86.6       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 91.4       | GOOD | DEGF   |

Time: 08:35  
Message: 12X

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Declare a Site Area Emergency per EPIP 1-0  
EAL number 1.3.1 "ORANGE or RED path in F-0.3, HEAT SINK".

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if a Site Area Emergency has not been declared.
2. Do not deliver if emergency classifications are in progress.

**Actions Expected:**

1. An Site Area Emergency should be declared in accordance with EPIP 1-0, EAL # 1.3.1
2. Operators should implement EPIP 1-3 "Site Area Emergency"



Time: 08:45  
Message: 13

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Containment area monitors (R-2 and R-7) should start increasing at this time. This is due to the loss of air to keep AOV-754B closed. This opens relief valve 758B. A leak starts into containment.

**Actions Expected:**

1. Feed and bleed operations continue.
2. The TSC Dose Assessment should realize that the moisture from the feedwater line break may affect the plant vent effluent radiation monitors and containment atmosphere radiation monitors.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 2.73841+02 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 2.81513+02 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.28233-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.30617-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2261.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 55.8       | GOO* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 4.8        | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 4.8        | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 70.5       | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 1058.      | HALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 1058.      | HALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .02        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.8        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 579.9      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 579.7      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 558.9      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 556.6      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 569.4      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 568.1      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 107.9      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 579.7      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 58.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 57.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1814.      | GOOD | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 92.0       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 1.80925+01 | GOOD | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.25170+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.44062-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.11659+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.86967+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 8.43820+01 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.05041+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.08554+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.09731+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.16936-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.16936-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 3.79469-03 | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 3.25749-03 | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 81.9       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 85.9       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 85.9       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 85.9       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 85.9       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 89.7       | GOOD | DEGF   |

Time: 09:00  
Message: 14

**GINNA STATION**

**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Containment radiation monitors R-2 and R-7 increase to approximately 200 mR/hr due to the thermal barrier leak into the CCW system causing the relief valve on the CCW system (758B) to lift inside containment.

**Actions Expected:**

1. The TSC, OSC, ESC, EOF, JENC and Survey Center should be activated and checking operational readiness.
2. Feed and bleed operations continue in order to cool the core.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 2.71956+02 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 2.71019+02 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.27643-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.30016-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2266.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 48.5       | GOO* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 4.3        | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 4.3        | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBETC  | INCORE TC SUBCOOLED MARGIN        | 73.4       | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 1055.      | HALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 1055.      | HALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .00        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.9        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 577.5      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 577.3      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 557.7      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 556.9      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 567.6      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 567.1      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 108.0      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 577.8      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 58.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 57.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | OFF   | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | OFF   | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1669.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.9       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 5.37031+01 | HALM | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.13501+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.27899-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.29371+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.86967+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 3.43756+01 | GOOD | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.24741+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.08554+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 4.20485+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.54705-01 | GOOD | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.54705-01 | GOOD | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87523-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 3.99210-03 | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 3.99210-03 | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 82.5       | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 85.9       | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 85.9       | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 85.9       | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 85.9       | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 89.2       | GOOD | DEGF   |



Time: 09:15  
Message: 15

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators continue feed and bleed of the RCS to cool the core.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 2.59118+02 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 2.69152+02 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.26474-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.28825-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2255.      | GOOD | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 48.1       | GOO* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 4.3        | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 4.3        | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 70.9       | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 1051.      | HALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 1052.      | HALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .00        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 1.7        | GOOD | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 579.0      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 578.8      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 563.9      | HALM | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 558.7      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 571.5      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 568.7      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 107.9      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 579.1      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 0.    | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 0.    | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 84.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 82.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | ON    | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | ON    | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1389.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.8       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.51188+02 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.02920+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.11659+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.86967+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 1.34702+01 | GOOD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.03297+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.05041+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.74218+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 7.42912-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 7.42912-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87151-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 4.06464-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 4.15699-03 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 96.1       | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 92.6       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 92.6       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 92.6       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 92.6       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 89.2       | GOOD  | DEGF   |

Time: 09:30  
Message: 16

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Plant operators should determine that the feed and bleed operation is not adequate to remove enough heat from the reactor and that CET temperatures are increasing.
2. The TSC should have all the minimum functions staffed and should be making preparations to assume command and control from the control room.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 2.54682+02 | GOOD  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 2.55563+02 | GOOD  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.25893-11 | GOOD  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.28233-11 | GOOD  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 1812.      | LALM  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | .0         | LEN*  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 3.4        | INHB  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 4.8        | INHB  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 14 TSBTC    | INCORE TC SUBCOOLED MARGIN        | 32.8       | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 1036.      | GOOD  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 1036.      | GOOD  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 1.74       | HWRN  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 10.2       | HALM  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 586.9      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 586.9      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 583.1      | HALM  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 564.7      | HALM  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 585.0      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 575.8      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 107.8      | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 586.8      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1333.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.8       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 9.60504+02 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.06537+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.22572-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.94328+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.58405+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 7.58577+00 | GOOD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.32140+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.79096+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 1.50379+00 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 1.50379+00 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.40130+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 2.17671-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 2.46051-03 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 138.3      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 125.4      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 125.4      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 125.4      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 125.4      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 112.6      | GOOD  | DEGF   |



Time: 09:45  
Message: 17

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Feed and bleed operations continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                              | VALUE      | QUAL | E. U. |
|----------|--|------------|------|-------|
| 1        | ATWS ANTICIPATED TRANSIENT W/O SCRAM     | NO ATWS    | GOOD |       |
| 2        | RXT REACTOR TRIP BREAKER STATUS          | RX TRIPPED | ALRM |       |
| 3        | N31 SOURCE RANGE DETECTOR N-31           | 2.43500+02 | GOOD | CPS   |
| 4        | N32 SOURCE RANGE DETECTOR N-32           | 2.38505+02 | GOOD | CPS   |
| 5        | N35 INTERMEDIATE RANGE DETECTOR N-35     | 1.24738-11 | GOOD | AMP   |
| 6        | N36 INTERMEDIATE RANGE DETECTOR N-36     | 1.27057-11 | GOOD | AMP   |
| 7        | NP AVERAGE NUCLEAR POWER                 | .00        | GOOD | %     |
| 8        | PRCS REACTOR COOLANT SYSTEM AVG PRESS    | 2326.      | LALM | PSIG  |
| 9        | LPZR PRESSURIZER AVERAGE LEVEL           | 55.4       | GOO* | %     |
| 10       | FRCLA REACTOR COOLANT LOOP A AVG FLOW    | 4.3        | INH* | %     |
| 11       | FRCLB REACTOR COOLANT LOOP B AVG FLOW    | 3.9        | INH* | %     |
| 12       | RXT16 RCPA BREAKER CAUSE RX TRIP         | TRIPPED    | ALRM |       |
| 13       | RXT17 RCPB BREAKER CAUSE RX TRIP         | TRIPPED    | ALRM |       |
| 14       | TSUBTC INCORE TC SUBCOOLED MARGIN        | 34.7       | GOO* | DEGF  |
| 15       | LSGA STM GEN A NARROW RANGE AVG LEVEL    | .0         | LENG | %     |
| 16       | LSGB STM GEN B NARROW RANGE AVG LEVEL    | .0         | LENG | %     |
| 17       | PSGA STM GEN A AVERAGE PRESSURE          | 843.       | GOOD | PSIG  |
| 18       | PSGB STM GEN B AVERAGE PRESSURE          | 843.       | GOOD | PSIG  |
| 19       | GENBKR1 GENERATOR ON LINE BREAKER 1G1372 | TRIPPED    | ALRM |       |
| 20       | GENBKR2 GENERATOR ON LINE BREAKER 9X1372 | TRIPPED    | ALRM |       |
| 21       | BUS11A BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22       | BUS11B BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23       | BUS12A NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24       | BUS12B NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25       | B11A12A BUS 11A TO 12A TIE BREAKER       | NOT TRIP   | ALRM |       |
| 26       | B11B12B BUS 11B TO 12B TIE BREAKER       | NOT TRIP   | ALRM |       |
| 27       | PCV CONTAINMENT AVERAGE PRESSURE         | 1.05       | HWRN | PSIG  |
| 28       | LSUMPA CONTAINMENT SUMP A AVERAGE LEVEL  | 10.3       | HALM | FEET  |
| 29       | L0942E SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30       | L0943E SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31       | L0942D SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32       | L0943D SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33       | L0942C SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34       | L0943C SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35       | L0942B SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36       | L0943B SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37       | L0942A SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38       | L0943A SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39       | T0409A RCLA HOT LEG TEMPERATURE          | 620.4      | GOOD | DEGF  |
| 40       | T0410A RCLB HOT LEG TEMPERATURE          | 620.4      | GOOD | DEGF  |
| 41       | T0409B RCLA COLD LEG TEMPERATURE         | 609.3      | HALM | DEGF  |
| 42       | T0410B RCLB COLD LEG TEMPERATURE         | 613.6      | HALM | DEGF  |
| 43       | TAVGAWID RCLA TAVG (THOT/TCOLD WIDE RNG) | 614.9      | GOOD | DEGF  |
| 44       | TAVGBWID RCLB TAVG (THOT/TCOLD WIDE RNG) | 617.0      | GOOD | DEGF  |
| 45       | LRV REACTOR VESSEL AVERAGE LEVEL         | 108.4      | GOOD | %     |
| 46       | TCCORE E1.1 INCORE TC AVERAGE TEMP       | 619.6      | HWRN | DEGF  |
| 47       | FAUXFWA S/G A TOTAL AUX FEEDWATER FLOW   | 2.         | GOOD | GPM   |
| 48       | FAUXFWB S/G B TOTAL AUX FEEDWATER FLOW   | 2.         | GOOD | GPM   |
| 49       | BKR081 MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50       | BKR082 MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51       | V3505 AUX FW PUMP STEAM SUPPLY VALVE A   | OPEN       | ALRM |       |
| 52       | V3504 AUX FW PUMP STEAM SUPPLY VALVE B   | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1395.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.8       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.36514+02 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.94259+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.54992-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.11659+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.58405+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.32140+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.85923+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.43261+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 9.27231-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 9.27231-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 1.80009-04 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.80009-04 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 138.9      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 120.0      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 119.9      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 120.0      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 119.9      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 101.0      | GOOD  | DEGF   |

Time: 10:00  
Message: 18

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Feed and bleed operations continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION | VALUE                             | QUAL       | E. U.     |
|----------|-------------|-----------------------------------|------------|-----------|
| 1        | ATWS        | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD      |
| 2        | RXT         | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM      |
| 3        | N31         | SOURCE RANGE DETECTOR N-31        | 3.68552+02 | GOOD CPS  |
| 4        | N32         | SOURCE RANGE DETECTOR N-32        | 3.73679+02 | GOOD CPS  |
| 5        | N35         | INTERMEDIATE RANGE DETECTOR N-35  | 1.38676-11 | GOOD AMP  |
| 6        | N36         | INTERMEDIATE RANGE DETECTOR N-36  | 1.41906-11 | GOOD AMP  |
| 7        | NP          | AVERAGE NUCLEAR POWER             | .00        | GOOD %    |
| 8        | PRCS        | REACTOR COOLANT SYSTEM AVG PRESS  | 2220.      | HALM PSIG |
| 9        | LPZR        | PRESSURIZER AVERAGE LEVEL         | 100.0      | HEN* %    |
| 10       | FRCLA       | REACTOR COOLANT LOOP A AVG FLOW   | 3.9        | INHB %    |
| 11       | FRCLB       | REACTOR COOLANT LOOP B AVG FLOW   | 3.9        | INHB %    |
| 12       | RXT16       | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 13       | RXT17       | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 14       | TSUBTC      | INCORE TC SUBCOOLED MARGIN        | 2.5        | LAL* DEGF |
| 15       | LSGA        | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 16       | LSGB        | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 17       | PSGA        | STM GEN A AVERAGE PRESSURE        | 703.       | GOOD PSIG |
| 18       | PSGB        | STM GEN B AVERAGE PRESSURE        | 703.       | GOOD PSIG |
| 19       | GENBKR1     | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM      |
| 20       | GENBKR2     | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM      |
| 21       | BUS11A      | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 22       | BUS11B      | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 23       | BUS12A      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 24       | BUS12B      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 25       | B11A12A     | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM      |
| 26       | B11B12B     | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM      |
| 27       | PCV         | CONTAINMENT AVERAGE PRESSURE      | .81        | GOOD PSIG |
| 28       | LSUMPA      | CONTAINMENT SUMP A AVERAGE LEVEL  | 10.3       | HALM FEET |
| 29       | L0942E      | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD      |
| 30       | L0943E      | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD      |
| 31       | L0942D      | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD      |
| 32       | L0943D      | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD      |
| 33       | L0942C      | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD      |
| 34       | L0943C      | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD      |
| 35       | L0942B      | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD      |
| 36       | L0943B      | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD      |
| 37       | L0942A      | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD      |
| 38       | L0943A      | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD      |
| 39       | T0409A      | RCLA HOT LEG TEMPERATURE          | 646.0      | GOOD DEGF |
| 40       | T0410A      | RCLB HOT LEG TEMPERATURE          | 646.2      | GOOD DEGF |
| 41       | T0409B      | RCLA COLD LEG TEMPERATURE         | 635.2      | HALM DEGF |
| 42       | T0410B      | RCLB COLD LEG TEMPERATURE         | 639.0      | HALM DEGF |
| 43       | TAVGAWID    | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 640.6      | GOOD DEGF |
| 44       | TAVGBWID    | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 642.6      | GOOD DEGF |
| 45       | LRV         | REACTOR VESSEL AVERAGE LEVEL      | 106.2      | GOOD %    |
| 46       | TCCORE      | E1.1 INCORE TC AVERAGE TEMP       | 646.0      | HWRN DEGF |
| 47       | FAUXFWA     | S/G A TOTAL AUX FEEDWATER FLOW    | 1.         | GOOD GPM  |
| 48       | FAUXFWB     | S/G B TOTAL AUX FEEDWATER FLOW    | 2.         | GOOD GPM  |
| 49       | BKR081      | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD      |
| 50       | BKR082      | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD      |
| 51       | V3505       | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM      |
| 52       | V3504       | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM      |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL | E. U. |
|-----------|----------------------------------|-------|------|-------|
| =====     | =====                            | ===== | ==== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1395.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.7       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.96397-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 3.44746+02 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.15478+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.88555+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.38642-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.11659+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.70434+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.43820+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.06794+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.30178+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 8.38373-01 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 8.38373-01 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 1.85989-04 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.85989-04 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 131.6      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 114.1      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 114.1      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 114.1      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 114.1      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 96.7       | GOOD  | DEGF   |



Time: 10:15  
Message: 19

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Feed and bleed operations continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                              | VALUE      | QUAL | E. U. |
|----------|--|------------|------|-------|
| 1        | ATWS ANTICIPATED TRANSIENT W/O SCRAM     | NO ATWS    | GOOD |       |
| 2        | RXT REACTOR TRIP BREAKER STATUS          | RX TRIPPED | ALRM |       |
| 3        | N31 SOURCE RANGE DETECTOR N-31           | 5.67542+02 | GOOD | CPS   |
| 4        | N32 SOURCE RANGE DETECTOR N-32           | 5.81431+02 | GOOD | CPS   |
| 5        | N35 INTERMEDIATE RANGE DETECTOR N-35     | 1.59221-11 | GOOD | AMP   |
| 6        | N36 INTERMEDIATE RANGE DETECTOR N-36     | 1.64436-11 | GOOD | AMP   |
| 7        | NP AVERAGE NUCLEAR POWER                 | .00        | GOOD | %     |
| 8        | PRCS REACTOR COOLANT SYSTEM AVG PRESS    | 2422.      | LALM | PSIG  |
| 9        | LPZR PRESSURIZER AVERAGE LEVEL           | 100.0      | HEN* | %     |
| 10       | FRCLA REACTOR COOLANT LOOP A AVG FLOW    | 4.3        | INHB | %     |
| 11       | FRCLB REACTOR COOLANT LOOP B AVG FLOW    | 4.3        | INHB | %     |
| 12       | RXT16 RCPA BREAKER CAUSE RX TRIP         | TRIPPED    | ALRM |       |
| 13       | RXT17 RCPB BREAKER CAUSE RX TRIP         | TRIPPED    | ALRM |       |
| 14       | TSUBTC INCORE TC SUBCOOLED MARGIN        | -2.4       | LAL* | DEGF  |
| 15       | LSGA STM GEN A NARROW RANGE AVG LEVEL    | .0         | LENG | %     |
| 16       | LSGB STM GEN B NARROW RANGE AVG LEVEL    | .0         | LENG | %     |
| 17       | PSGA STM GEN A AVERAGE PRESSURE          | 577.       | LWRN | PSIG  |
| 18       | PSGB STM GEN B AVERAGE PRESSURE          | 577.       | LWRN | PSIG  |
| 19       | GENBKR1 GENERATOR ON LINE BREAKER 1G1372 | TRIPPED    | ALRM |       |
| 20       | GENBKR2 GENERATOR ON LINE BREAKER 9X1372 | TRIPPED    | ALRM |       |
| 21       | BUS11A BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22       | BUS11B BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23       | BUS12A NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24       | BUS12B NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25       | B11A12A BUS 11A TO 12A TIE BREAKER       | NOT TRIP   | ALRM |       |
| 26       | B11B12B BUS 11B TO 12B TIE BREAKER       | NOT TRIP   | ALRM |       |
| 27       | PCV CONTAINMENT AVERAGE PRESSURE         | 2.61       | HWRN | PSIG  |
| 28       | LSUMPA CONTAINMENT SUMP A AVERAGE LEVEL  | 10.7       | HALM | FEET  |
| 29       | L0942E SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30       | L0943E SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31       | L0942D SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32       | L0943D SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33       | L0942C SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34       | L0943C SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35       | L0942B SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36       | L0943B SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37       | L0942A SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38       | L0943A SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39       | T0409A RCLA HOT LEG TEMPERATURE          | 664.3      | GOOD | DEGF  |
| 40       | T0410A RCLB HOT LEG TEMPERATURE          | 664.6      | GOOD | DEGF  |
| 41       | T0409B RCLA COLD LEG TEMPERATURE         | 657.2      | HALM | DEGF  |
| 42       | T0410B RCLB COLD LEG TEMPERATURE         | 659.6      | HALM | DEGF  |
| 43       | TAVGAWID RCLA TAVG (THOT/TCOLD WIDE RNG) | 660.8      | GOOD | DEGF  |
| 44       | TAVGBWID RCLB TAVG (THOT/TCOLD WIDE RNG) | 662.1      | GOOD | DEGF  |
| 45       | LRV REACTOR VESSEL AVERAGE LEVEL         | 102.1      | GOOD | %     |
| 46       | TCCORE E1.1 INCORE TC AVERAGE TEMP       | 663.4      | HWRN | DEGF  |
| 47       | FAUXFWA S/G A TOTAL AUX FEEDWATER FLOW   | 1.         | GOOD | GPM   |
| 48       | FAUXFWB S/G B TOTAL AUX FEEDWATER FLOW   | 1.         | GOOD | GPM   |
| 49       | BKR081 MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50       | BKR082 MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51       | V3505 AUX FW PUMP STEAM SUPPLY VALVE A   | OPEN       | ALRM |       |
| 52       | V3504 AUX FW PUMP STEAM SUPPLY VALVE B   | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1356.      | LALM  | GPM    |
| 2 LRNST    | REFUELING WATER STORAGE TANK LVL | 91.7       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 1.68850+03 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.54991+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.77364+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.70434+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.24741+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.43820+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.06794+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.28756+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 2.13950+00 | GOOD  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 2.13950+00 | GOOD  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.17308+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 1.93131-04 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.93131-04 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 128.6      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 129.1      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 133.0      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 129.1      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 133.0      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 135.9      | GOOD  | DEGF   |

Time: 10:20  
Message: 20

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Core Exit Thermocouple temperatures exceed 700°F

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Procedure FR-C.1 will not be effective in cooling the core.

**Actions Expected:**

1. Operators transition to procedure FR-C.1 and depressurize the "B" Steam Generator to atmospheric pressure to attempt to cool the reactor core and provide more cooling options.

Time: 10:30  
Message: 21

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. When the operators open the ARV (per FR-C.1) there will be some slight cooldown of the core. Then, the core will heat back up.

**Actions Expected:**

1. TSC continues to explore methods to cool the reactor core.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 3.86810+02 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 3.84148+02 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.39315-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.42560-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2384.      | LALM | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 69.1       | HWR* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | .0         | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | .0         | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSBTC    | INCORE TC SUBCOOLED MARGIN        | -19.8      | LAL* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 525.       | LWRN | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 524.       | LWRN | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 20.78      | HALM | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 13.1       | HALM | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 661.9      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 661.7      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 661.5      | HALM | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 661.5      | HALM | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 661.7      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 661.6      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 70.6       | LALM | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 661.4      | HWRN | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 0.    | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 0.    | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | ON    | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | ON    | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1367.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.6       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.96397-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 2.04173+04 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.15478+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.88555+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.08163+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.70434+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.43820+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.06794+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.01560+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 2.04320+01 | HWRN  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 2.04320+01 | HWRN  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | CLOSED     | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 2.00558-04 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.03199-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 2.00105-04 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 182.6      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 204.5      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 204.6      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 204.5      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 204.6      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 226.6      | GOOD  | DEGF   |

Time: 10:35  
Message: 22

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

- 1.
1. The conditions have been met for a General Emergency.

**Actions Expected:**

1. Operators determine that FR-C.1 was not effective.
2. A General Emergency should be declared based on EAL 1.2.2 "RED path in F-0.2 "CORE COOLING and Functional restoration procedures not effective within 15 minutes"
3. Operators should implement EPIP 1-4 "General Emergency"

Time: 10:45  
Message: 23

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. The OSC should be expediting the return of the "D" SAFW pump.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 1.93196+02 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 1.99296+02 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.19674-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.21338-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2356.      | LALM | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 9.1        | LWR* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | .0         | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | .0         | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | -14.2      | LAL* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 38.        | LALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 35.        | LALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 17.57      | HALM | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 14.3       | HALM | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 660.8      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 660.2      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 660.2      | HALM | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 661.3      | HALM | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 660.4      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 660.7      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 78.7       | LALM | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 659.7      | HWRN | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 3.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1333.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.5       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 5.46384+04 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.04112+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.90904+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.80700+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.51135+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 3.09474+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 5.73785+01 | HWRN  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 5.73785+01 | HWRN  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.05126-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 2.14967-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.00281-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 2.11724-03 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 172.2      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 193.5      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 193.6      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 193.5      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 193.6      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 215.0      | GOOD  | DEGF   |

Time: 10:50  
Message: 24X

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Declare a General Emergency per EPIP 1-0 "Ginna Station Event Evaluation and Classification" EAL# 1.2.2 "RED path in F-0.2 "CORE COOLING" and functional restoration procedures not effective within 15 minutes"

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if a General Emergency has not been declared.
2. Do not deliver if emergency classification discussions are in progress.

**Actions Expected:**

1. Operators should implement EPIP 1-4 "General Emergency" and make the proper notifications.

Time: 11:00  
Message: 25

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Feed and bleed operations continue
2. Repairs to return the "D" SAFW pump to service continue



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION | VALUE                             | QUAL       | E. U.     |
|----------|-------------|-----------------------------------|------------|-----------|
| 1        | ATWS        | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD      |
| 2        | RXT         | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM      |
| 3        | N31         | SOURCE RANGE DETECTOR N-31        | 7.39601+04 | HWRN CPS  |
| 4        | N32         | SOURCE RANGE DETECTOR N-32        | 7.02259+04 | HWRN CPS  |
| 5        | N35         | INTERMEDIATE RANGE DETECTOR N-35  | 7.65592-10 | GOOD AMP  |
| 6        | N36         | INTERMEDIATE RANGE DETECTOR N-36  | 8.24135-10 | GOOD AMP  |
| 7        | NP          | AVERAGE NUCLEAR POWER             | .00        | GOOD %    |
| 8        | PRCS        | REACTOR COOLANT SYSTEM AVG PRESS  | 2376.      | LALM PSIG |
| 9        | LPZR        | PRESSURIZER AVERAGE LEVEL         | 9.4        | LWR* %    |
| 10       | FRCLA       | REACTOR COOLANT LOOP A AVG FLOW   | .0         | INHB %    |
| 11       | FRCLB       | REACTOR COOLANT LOOP B AVG FLOW   | 4.8        | INHB %    |
| 12       | RXT16       | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 13       | RXT17       | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 14       | TSUBTC      | INCORE TC SUBCOOLED MARGIN        | -122.2     | LEN* DEGF |
| 15       | LSGA        | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 16       | LSGB        | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 17       | PSGA        | STM GEN A AVERAGE PRESSURE        | 5.         | LALM PSIG |
| 18       | PSGB        | STM GEN B AVERAGE PRESSURE        | 5.         | LALM PSIG |
| 19       | GENBKR1     | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM      |
| 20       | GENBKR2     | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM      |
| 21       | BUS11A      | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 22       | BUS11B      | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 23       | BUS12A      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 24       | BUS12B      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 25       | B11A12A     | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM      |
| 26       | B11B12B     | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM      |
| 27       | PCV         | CONTAINMENT AVERAGE PRESSURE      | 15.09      | HALM PSIG |
| 28       | LSUMPA      | CONTAINMENT SUMP A AVERAGE LEVEL  | 15.9       | HALM FEET |
| 29       | L0942E      | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD      |
| 30       | L0943E      | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD      |
| 31       | L0942D      | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD      |
| 32       | L0943D      | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD      |
| 33       | L0942C      | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD      |
| 34       | L0943C      | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD      |
| 35       | L0942B      | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD      |
| 36       | L0943B      | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD      |
| 37       | L0942A      | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD      |
| 38       | L0943A      | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD      |
| 39       | T0409A      | RCLA HOT LEG TEMPERATURE          | 661.5      | GOOD DEGF |
| 40       | T0410A      | RCLB HOT LEG TEMPERATURE          | 661.5      | GOOD DEGF |
| 41       | T0409B      | RCLA COLD LEG TEMPERATURE         | 661.4      | HALM DEGF |
| 42       | T0410B      | RCLB COLD LEG TEMPERATURE         | 661.4      | HALM DEGF |
| 43       | TAVGAWID    | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 661.4      | GOOD DEGF |
| 44       | TAVGBWID    | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 661.4      | GOOD DEGF |
| 45       | LRV         | REACTOR VESSEL AVERAGE LEVEL      | 48.0       | LALM %    |
| 46       | TCCORE      | E1.1 INCORE TC AVERAGE TEMP       | 752.6      | HALM DEGF |
| 47       | FAUXFWA     | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD GPM  |
| 48       | FAUXFWB     | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD GPM  |
| 49       | BKR081      | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD      |
| 50       | BKR082      | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD      |
| 51       | V3505       | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM      |
| 52       | V3504       | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM      |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 PSIA   | SAFETY INJECTION LOOP A AVG FLOW | 0.    | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 0.    | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1383.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.4       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 8.46249+04 | HALM | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.04112+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 8.86136-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.90904+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.58405+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.32140+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.87574+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 8.84859+01 | HWRN | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 8.84859+01 | HWRN | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.40130+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.00186-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 5.33055-03 | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.00605-02 | GOOD | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 5.34575-03 | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 156.2      | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 182.6      | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 182.5      | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 182.6      | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 182.5      | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 208.9      | GOOD | DEGF   |

Time: 11:12  
Message: 26

**GINNA STATION**

**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Contact the simulator control room booth operator at ext. 6641 to enable the pump prior to informing the repair team that the pump is fixed.
2. Allow the "D" Standby Auxiliary Feedwater pump to be returned to service at this time.

**Actions Expected:**

1. Operators should prepare to feed the "B" Steam Generator to remove heat from the reactor core.

Time: 11:15  
Message: 27

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

Operators receive annunciators and alarms

- E-16 "RMS Process Monitor High Activity"

Radiation Monitor R-32 is on alarm

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. When the operators feed the "B" S/G, a primary to secondary leak develops due to the thermal shock of the cold water on the U-tubes. Since there is no other method to remove heat from the reactor core, the plant will continue to steam the "B" S/G

**Actions Expected:**

1. Operators should feed the "B" Steam Generator at 200 gpm.
2. Operators should recognize that a release to the environment starts when radiation monitor R-32 alarms.
3. Dose projections should be performed.
4. Survey teams should be directed to take samples to verify dose projections.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 9.41885+04 | HWRN  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 8.97423+04 | HWRN  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 9.28964-10 | GOOD  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 9.99999-10 | GOOD  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 2466.      | LALM  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 5.4        | LWR*  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | .0         | INHB  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | .0         | INHB  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 14 TSBTC    | INCORE TC SUBCOOLED MARGIN        | -218.4     | LEN*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 5.         | LALM  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 6.         | LALM  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 11.23      | HALM  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 16.7       | HALM  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 714.9      | HENG  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 753.8      | HENG  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 675.3      | HALM  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 717.3      | HENG  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 695.1      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 735.5      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 48.0       | LALM  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 853.1      | HALM  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 0.    | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 0.    | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 80.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | ON    | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | ON    | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1367.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 91.3       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.06777-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.41569+05 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.10917+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.02329+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.44062-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.25798+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.58405+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.58519+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.32140+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.90903+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.82650+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.45719+02 | HALM  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.45719+02 | HALM  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 2.00014-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 5.43888-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 2.00052-02 | GOOD  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 5.43784-03 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 144.7      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 166.9      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 167.0      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 166.9      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 167.0      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 189.2      | GOOD  | DEGF   |



Time: 11:30  
Message: 28

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. A release to the atmosphere from the "B" S/G ARV continues.
2. If the plant decides that they want to isolate the "B" ARV, inform them that the valve will not close due to the damage from the feedwater line break.

**Actions Expected:**

1. Operators continue to cool the core using the "B" S/G.
2. Core Exit Thermocouple temperatures are decreasing.
3. Release assessments continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 5.11091+01 | GOOD  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 5.23599+01 | GOOD  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.05195-11 | GOOD  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.05681-11 | GOOD  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 308.       | LWRN  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | .0         | LEN*  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | .0         | INHB  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 3.4        | INHB  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 64.2       | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 3.         | LALM  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 145.       | LALM  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 7.03       | HALM  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 17.2       | HALM  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 370.3      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 359.4      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 89.9       | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 322.3      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 230.1      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 340.9      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 83.2       | LALM  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 358.2      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 377.  | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 377.  | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 79.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1475.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 89.4       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 9.22572-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.95448+05 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.13501+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.49512+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.22572-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.77364+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.86967+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.08163+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.05041+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.72661+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.63785+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.17308+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 1.99995-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 5.63907-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 4.10000+01 | HALM  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.84949+02 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 132.8      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 148.9      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 149.0      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 148.9      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 149.0      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 165.1      | GOOD  | DEGF   |

Time: 11:45  
Message: 29

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\* THIS IS AN EXERCISE \*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1.

**Actions Expected:**

1. Operators continue to cool the core using the "B" S/G.
2. Core Exit Thermocouple temperatures are decreasing.
3. Release assessments continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL  | E. U. |
|-------------|-----------------------------------|------------|-------|-------|
| =====       | =====                             | =====      | ===== | ===== |
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD  |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM  |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 5.34562+01 | GOOD  | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 5.02340+01 | GOOD  | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.05195-11 | GOOD  | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.05195-11 | GOOD  | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD  | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 694.       | HALM  | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 100.0      | HEN*  | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 1.9        | INHB  | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 2.7        | INHB  | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM  |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 194.4      | GOO*  | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG  | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 3.         | LALM  | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 56.        | LALM  | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM  |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM  |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM  |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL   |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM  |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 3.77       | HWRN  | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 17.6       | HALM  | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD  |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD  |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD  |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD  |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD  |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD  |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 308.7      | GOOD  | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 308.2      | GOOD  | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 275.1      | GOOD  | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 277.5      | GOOD  | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 291.9      | GOOD  | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 292.9      | GOOD  | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 94.9       | GOOD  | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 307.6      | GOOD  | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD  | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD  |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD  |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM  |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL | E. U. |
|-----------|----------------------------------|-------|------|-------|
| =====     | =====                            | ===== | ---- | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 300.  | GOOD | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 300.  | GOOD | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 79.   | GOOD | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1464.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 86.1       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.96397-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.98309+05 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.15478+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 9.82879+00 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.27899-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 8.08163+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.70434+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.03297+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.40183+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.06794+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.90903+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.53731+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 1.99995-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 5.84126-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 4.11992+01 | HALM  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.30832+01 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 123.1      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 130.1      | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 130.0      | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 130.1      | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 130.0      | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 137.0      | GOOD  | DEGF   |



Time: 12:00  
Message: 30

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators continue to cool the core using the "B" S/G.
2. Core Exit Thermocouple temperatures are decreasing.
3. Release assessments continue
4. The plant should be determining if they can isolate the "B" S/G ARV.
5. The plant should be assessing if it is possible to fill the "A" S/G to cool the core.
6. The plant should discuss how they plan to transition from FR-C.1 to procedure E-3

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 4.98883+01 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 5.12860+01 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.05195-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.05681-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 1448.      | HALM | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 100.0      | HEN* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 3.4        | INH* | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 2.7        | INH* | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 261.6      | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 2.         | LALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 58.        | LALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | 1.59       | HWRN | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 18.0       | HALM | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 329.0      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 325.5      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 315.7      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 304.4      | GOOD | DEGF  |
| 43 TAVGAWID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 322.3      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 314.9      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 107.8      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 328.9      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID  | DESCRIPTION                      | VALUE | QUAL  | E. U. |
|-----------|----------------------------------|-------|-------|-------|
| =====     | =====                            | ===== | ===== | ===== |
| 53 FSIA   | SAFETY INJECTION LOOP A AVG FLOW | 21.   | GOOD  | GPM   |
| 54 FSIB   | SAFETY INJECTION LOOP B AVG FLOW | 21.   | GOOD  | GPM   |
| 55 P2160  | SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD  | PSIG  |
| 56 P2161  | SERVICE WATER PUMPS C & D HEADER | 79.   | GOOD  | PSIG  |
| 57 BKR041 | SERVICE WATER PUMP A             | ON    | GOOD  |       |
| 58 BKR042 | SERVICE WATER PUMP B             | ON    | GOOD  |       |
| 59 BKR043 | SERVICE WATER PUMP C             | ON    | GOOD  |       |
| 60 BKR044 | SERVICE WATER PUMP D             | ON    | GOOD  |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL | E. U.  |
|------------|----------------------------------|------------|------|--------|
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1361.      | LALM | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 85.0       | GOOD | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.67734+05 | HALM | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.04112+01 | GOOD | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.44062-01 | GOOD | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.90904+01 | GOOD | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.80700+02 | GOOD | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD  | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.03297+01 | GOOD | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.51135+01 | GOOD | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.90903+03 | GOOD | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.71878+02 | GOOD | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 1.99995-02 | GOOD | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 6.08139-03 | GOOD | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 4.11992+01 | HALM | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.25278+01 | GOOD | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 114.0      | GOOD | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 111.4      | GOOD | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 111.5      | GOOD | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 111.4      | GOOD | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 111.5      | GOOD | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 108.9      | GOOD | DEGF   |

Time: 12:15  
Message: 31

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Control Room

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators continue to cool the core using the "B" S/G.
2. Core Exit Thermocouple temperatures are decreasing.
3. Release assessments continue

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID    | DESCRIPTION                       | VALUE      | QUAL | E. U. |
|-------------|-----------------------------------|------------|------|-------|
| 1 ATWS      | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD |       |
| 2 RXT       | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM |       |
| 3 N31       | SOURCE RANGE DETECTOR N-31        | 5.30883+01 | GOOD | CPS   |
| 4 N32       | SOURCE RANGE DETECTOR N-32        | 5.25410+01 | GOOD | CPS   |
| 5 N35       | INTERMEDIATE RANGE DETECTOR N-35  | 1.05195-11 | GOOD | AMP   |
| 6 N36       | INTERMEDIATE RANGE DETECTOR N-36  | 1.05681-11 | GOOD | AMP   |
| 7 NP        | AVERAGE NUCLEAR POWER             | .00        | GOOD | %     |
| 8 PRCS      | REACTOR COOLANT SYSTEM AVG PRESS  | 1453.      | HALM | PSIG  |
| 9 LPZR      | PRESSURIZER AVERAGE LEVEL         | 100.0      | HEN* | %     |
| 10 FRCLA    | REACTOR COOLANT LOOP A AVG FLOW   | 3.4        | INHB | %     |
| 11 FRCLB    | REACTOR COOLANT LOOP B AVG FLOW   | 3.4        | INHB | %     |
| 12 RXT16    | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 13 RXT17    | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM |       |
| 14 TSUBTC   | INCORE TC SUBCOOLED MARGIN        | 246.8      | GOO* | DEGF  |
| 15 LSGA     | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 16 LSGB     | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG | %     |
| 17 PSGA     | STM GEN A AVERAGE PRESSURE        | 2.         | LALM | PSIG  |
| 18 PSGB     | STM GEN B AVERAGE PRESSURE        | 80.        | LALM | PSIG  |
| 19 GENBKR1  | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM |       |
| 20 GENBKR2  | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM |       |
| 21 BUS11A   | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 22 BUS11B   | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM |       |
| 23 BUS12A   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 24 BUS12B   | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL  |       |
| 25 B11A12A  | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM |       |
| 26 B11B12B  | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM |       |
| 27 PCV      | CONTAINMENT AVERAGE PRESSURE      | .62        | GOOD | PSIG  |
| 28 LSUMPA   | CONTAINMENT SUMP A AVERAGE LEVEL  | 18.2       | HALM | FEET  |
| 29 L0942E   | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD |       |
| 30 L0943E   | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD |       |
| 31 L0942D   | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD |       |
| 32 L0943D   | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD |       |
| 33 L0942C   | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 34 L0943C   | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 35 L0942B   | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 36 L0943B   | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 37 L0942A   | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD |       |
| 38 L0943A   | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD |       |
| 39 T0409A   | RCLA HOT LEG TEMPERATURE          | 344.3      | GOOD | DEGF  |
| 40 T0410A   | RCLB HOT LEG TEMPERATURE          | 342.3      | GOOD | DEGF  |
| 41 T0409B   | RCLA COLD LEG TEMPERATURE         | 334.6      | GOOD | DEGF  |
| 42 T0410B   | RCLB COLD LEG TEMPERATURE         | 320.8      | GOOD | DEGF  |
| 43 TAVGANID | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 339.4      | GOOD | DEGF  |
| 44 TAVGBWID | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 331.6      | GOOD | DEGF  |
| 45 LRV      | REACTOR VESSEL AVERAGE LEVEL      | 108.0      | GOOD | %     |
| 46 TCCORE   | E1.1 INCORE TC AVERAGE TEMP       | 344.4      | GOOD | DEGF  |
| 47 FAUXFWA  | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 48 FAUXFWB  | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD | GPM   |
| 49 BKR081   | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD |       |
| 50 BKR082   | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD |       |
| 51 V3505    | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM |       |
| 52 V3504    | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 14.   | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 11.   | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 79.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | ON    | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | ON    | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1367.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 84.7       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.67734+05 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.04112+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 9.01571-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.90904+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.80700+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.19275+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.51135+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.76215+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.71878+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.33179+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 1.99995-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 6.29286-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | NOT CLOSED | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 4.11992+01 | HALM  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.29774+01 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 107.5      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 99.3       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 99.3       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 99.3       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 99.3       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 91.0       | GOOD  | DEGF   |



Time: 12:30  
Message: 32

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** EOF

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators continue to cool the core using the "B" S/G.
2. Core Exit Thermocouple temperatures are decreasing.
3. Release assessments continue

Time: 12:45  
Message: 33

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Emergency Coordinator

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. See attached mini-scenario for recovery.

**Actions Expected:**

1. The reactor coolant system temperatures allow the plant to cool down on RHR and stop the release from the "B" Steam Generator ARV.
2. Survey teams conduct surveys to verify that the release has ended.
3. Recovery/Re-entry discussions commence

## **JUNE 6, 2001 PLUME EXPOSURE EXERCISE**

### **Mini-Scenario**

#### **Activity: Recovery/Re-entry**

#### **Controller Notes:**

1. Recovery/Re-entry discussions should commence per the guidance in EPIP 3-4 "Emergency termination and recovery".
2. Preliminary discussions should take place between the EOF and TSC.
3. State and counties may also conduct parallel recovery/re-entry discussions.
4. Recovery/Re-entry interface between the EOF and off-site agencies should be demonstrated as time allows.

#### **Actions Expected:**

1. Discussions may include:

##### Short term concerns

- a. Initial survey of the intermediate building for contamination/radiation.
- b. Cooling down the RCS and placing the RCS on the RHR system.
- c. Initial assessment of damage in Intermediate building.
- d. Inspections of the S/G tube rupture.
- f. Surveys of plume areas for contamination

##### Long term concerns

- a. Repair of the ruptured S/G
- b. Clean up effort in the intermediate building.
- c. Re-entry of evacuated population

Preliminary designation of the recovery organization should commence.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID   | DESCRIPTION                      | VALUE      | QUAL  | E. U.  |
|------------|----------------------------------|------------|-------|--------|
| =====      | =====                            | =====      | ===== | =====  |
| 1 F0619    | COMPONENT COOLING LOOP TOTAL FLW | 1416.      | LALM  | GPM    |
| 2 LRWST    | REFUELING WATER STORAGE TANK LVL | 84.7       | GOOD  | %      |
| 3 WS033Q15 | 33 FT LEVEL WIND SPEED: 15M AVG  | 5.6        | GOOD  | MPH    |
| 4 WD033Q15 | 33FT LVL WIND DIRECTION 15M AVG  | 76.        | GOOD  | DEG.   |
| 5 WT033Q15 | 33 FOOT LEVEL TEMP. (15M AVG)    | 60.5       | GOOD  | DEGF   |
| 6 WT250Q15 | 250 FOOT LEVEL TEMP. (15M AVG)   | 59.3       | GOOD  | DEGF   |
| 7 WDT2Q15  | 250-33 FT LVL DELTA TEMP 15M AVG | -1.2       | GOOD  | DEGF   |
| 8 R01      | AREA 1-CONTROL ROOM              | 8.75992-02 | GOOD  | MR/HR  |
| 9 R02      | AREA 2-CONTAINMENT               | 4.84170+05 | HALM  | MR/HR  |
| 10 R05     | AREA 5-SPENT FUEL PIT            | 1.08393+00 | GOOD  | MR/HR  |
| 11 R09     | AREA 9-LETDOWN LINE MONITOR      | 1.02329+01 | GOOD  | MR/HR  |
| 12 R34     | AREA 34 - AUX BLDG CV SPRAY PUMP | 8.75990-01 | GOOD  | MR/HR  |
| 13 R35     | AREA 35-PASS SAMPLE PANEL        | 1.09648+00 | GOOD  | MR/HR  |
| 14 R10A    | CONTAINMENT IODINE MONITOR R10A  | 7.77364+01 | GOOD  | CPM    |
| 15 R11     | CONTAINMENT AIR PARTICULATE      | 4.80700+02 | GOOD  | CPM    |
| 16 R12     | CONTAINMENT GAS MONITOR          | 4.21696+00 | BAD   | CPM    |
| 17 R10B    | PLANT VENT IODINE MONITOR R10B   | 4.13880+01 | GOOD  | CPM    |
| 18 R13     | AUX BLDG EXHAUST AIR PARTICULATE | 8.51135+01 | GOOD  | CPM    |
| 19 R14     | AUX BLDG EXHAUST GAS MONITOR     | 4.35888+01 | GOOD  | CPM    |
| 20 R18     | LIQUID WASTE DISPOSAL MONITOR    | 2.85923+03 | GOOD  | CPM    |
| 21 R19     | STEAM GENERATOR BLOWDOWN DRAIN   | 2.63785+02 | GOOD  | CPM    |
| 22 R29     | AREA 29-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 23 R30     | AREA 30-CONTAINMENT HIGH RANGE   | 4.88019+02 | HALM  | R/HR   |
| 24 R15     | CONDENSER AIR EJECTOR EXHAUST    | 5.17308+02 | GOOD  | CPM    |
| 25 R12A5   | CV VENT CHAN 5-LOW RANGE GAS     | 7.50006-07 | GOOD  | UCI/CC |
| 26 R12A6   | CV VENT CHAN 6-AREA GAMMA        | 9.99928-03 | GOOD  | MR/HR  |
| 27 R12A7   | CV VENT CHAN 7-MID RANGE GAS     | 9.99984-06 | GOOD  | UCI/CC |
| 28 R12A9   | CV VENT CHAN 9-HIGH RANGE GAS    | 9.99987-04 | GOOD  | UCI/CC |
| 29 R14A5   | PLANT VENT CHAN 5-LOW RANGE GAS  | 3.87034-06 | GOOD  | UCI/CC |
| 30 R14A7   | PLANT VENT CHAN 7-MID RANGE GAS  | 9.99984-06 | GOOD  | UCI/CC |
| 31 R14A9   | PLANT VENT CHAN 9-HIGH RANGE GAS | 9.99987-04 | GOOD  | UCI/CC |
| 32 R15A5   | AIR EJECTOR CHAN 5-LOW RANGE GAS | 3.45311-06 | GOOD  | UCI/CC |
| 33 R15A7   | AIR EJECTOR CHAN 7-MID RANGE GAS | 9.99984-06 | GOOD  | UCI/CC |
| 34 R15A9   | AIR EJECTOR CHAN 9-HI RANGE GAS  | 9.99987-04 | GOOD  | UCI/CC |
| 35 V3411C  | STEAM LINE ARV A                 | NOT CLOSED | GOOD  |        |
| 36 VMSSVA  | NUMBER OF S/G A MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 37 R31     | AREA 31 STEAM LINE A (SPING)     | 1.99995-02 | GOOD  | MR/HR  |
| 38 R31RRQ  | SGA NOBLE GAS RELEASE RATE:15MAV | 6.34069-03 | GOOD  | CI/SEC |
| 39 V3410C  | STEAM LINE ARV B                 | CLOSED     | GOOD  |        |
| 40 VMSSVB  | NUMBER OF S/G B MSSV OPEN        | 0.         | GOOD  | # OPEN |
| 41 R32     | AREA 32 STEAM LINE B (SPING)     | 4.11992+01 | HALM  | MR/HR  |
| 42 R32RRQ  | SGB NOBLE GAS RELEASE RATE:15MAV | 1.26357+01 | GOOD  | CI/SEC |
| 43 CVH     | CV HYDROGEN CONCENTRATION        | .0         | GOOD  | %      |
| 44 TCV03   | CV BASEMENT LEVEL 6FT TEMP #3    | 106.4      | GOOD  | DEGF   |
| 45 TCV07   | CV INTERMEDIATE LVL 6FT TEMP #7  | 97.5       | GOOD  | DEGF   |
| 46 TCV08   | CV INTERMEDIATE LVL 6FT TEMP #8  | 97.5       | GOOD  | DEGF   |
| 47 TCV09   | CV INTERMEDIATE LVL 6FT TEMP #9  | 97.5       | GOOD  | DEGF   |
| 48 TCV10   | CV INTERMEDIATE LVL 6FT TEMP #10 | 97.5       | GOOD  | DEGF   |
| 49 TCV17   | CV OPERATING LEVL 6FT TEMP #17   | 88.6       | GOOD  | DEGF   |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION                            | VALUE | QUAL | E. U. |
|----------|--|-------|------|-------|
| 53       | FSIA SAFETY INJECTION LOOP A AVG FLOW  | 13.   | GOOD | GPM   |
| 54       | FSIB SAFETY INJECTION LOOP B AVG FLOW  | 9.    | GOOD | GPM   |
| 55       | P2160 SERVICE WATER PUMPS A & B HEADER | 81.   | GOOD | PSIG  |
| 56       | P2161 SERVICE WATER PUMPS C & D HEADER | 79.   | GOOD | PSIG  |
| 57       | BKR041 SERVICE WATER PUMP A            | ON    | GOOD |       |
| 58       | BKR042 SERVICE WATER PUMP B            | ON    | GOOD |       |
| 59       | BKR043 SERVICE WATER PUMP C            | ON    | GOOD |       |
| 60       | BKR044 SERVICE WATER PUMP D            | ON    | GOOD |       |

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

| POINT ID | DESCRIPTION | VALUE                             | QUAL       | E. U.     |
|----------|-------------|-----------------------------------|------------|-----------|
| 1        | ATWS        | ANTICIPATED TRANSIENT W/O SCRAM   | NO ATWS    | GOOD      |
| 2        | RXT         | REACTOR TRIP BREAKER STATUS       | RX TRIPPED | ALRM      |
| 3        | N31         | SOURCE RANGE DETECTOR N-31        | 5.62987+01 | GOOD CPS  |
| 4        | N32         | SOURCE RANGE DETECTOR N-32        | 5.02340+01 | GOOD CPS  |
| 5        | N35         | INTERMEDIATE RANGE DETECTOR N-35  | 1.05195-11 | GOOD AMP  |
| 6        | N36         | INTERMEDIATE RANGE DETECTOR N-36  | 1.05681-11 | GOOD AMP  |
| 7        | NP          | AVERAGE NUCLEAR POWER             | .00        | GOOD %    |
| 8        | PRCS        | REACTOR COOLANT SYSTEM AVG PRESS  | 1455.      | HALM PSIG |
| 9        | LPZR        | PRESSURIZER AVERAGE LEVEL         | 100.0      | HEN* %    |
| 10       | FRCLA       | REACTOR COOLANT LOOP A AVG FLOW   | 3.4        | INHB %    |
| 11       | FRCLB       | REACTOR COOLANT LOOP B AVG FLOW   | 3.4        | INHB %    |
| 12       | RXT16       | RCPA BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 13       | RXT17       | RCPB BREAKER CAUSE RX TRIP        | TRIPPED    | ALRM      |
| 14       | TSUBTC      | INCORE TC SUBCOOLED MARGIN        | 244.1      | GOO* DEGF |
| 15       | LSGA        | STM GEN A NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 16       | LSGB        | STM GEN B NARROW RANGE AVG LEVEL  | .0         | LENG %    |
| 17       | PSGA        | STM GEN A AVERAGE PRESSURE        | 2.         | LALM PSIG |
| 18       | PSGB        | STM GEN B AVERAGE PRESSURE        | 85.        | LALM PSIG |
| 19       | GENBKR1     | GENERATOR ON LINE BREAKER 1G1372  | TRIPPED    | ALRM      |
| 20       | GENBKR2     | GENERATOR ON LINE BREAKER 9X1372  | TRIPPED    | ALRM      |
| 21       | BUS11A      | BUS 11A SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 22       | BUS11B      | BUS 11B SUPPLY BREAKER            | TRIPPED    | ALRM      |
| 23       | BUS12A      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 24       | BUS12B      | NOT TERMINATED ON PPCS (7/19/91)  | NOT TRIP   | DEL       |
| 25       | B11A12A     | BUS 11A TO 12A TIE BREAKER        | NOT TRIP   | ALRM      |
| 26       | B11B12B     | BUS 11B TO 12B TIE BREAKER        | NOT TRIP   | ALRM      |
| 27       | PCV         | CONTAINMENT AVERAGE PRESSURE      | .49        | GOOD PSIG |
| 28       | LSUMPA      | CONTAINMENT SUMP A AVERAGE LEVEL  | 18.3       | HALM FEET |
| 29       | L0942E      | SUMP B LEVEL 8 INCHES (TRAIN A)   | LOWER      | GOOD      |
| 30       | L0943E      | SUMP B LEVEL 8 INCHES (TRAIN B)   | LOWER      | GOOD      |
| 31       | L0942D      | SUMP B LEVEL 78 INCHES (TRAIN A)  | LOWER      | GOOD      |
| 32       | L0943D      | SUMP B LEVEL 78 INCHES (TRAIN B)  | LOWER      | GOOD      |
| 33       | L0942C      | SUMP B LEVEL 113 INCHES (TRAIN A) | LOWER      | GOOD      |
| 34       | L0943C      | SUMP B LEVEL 113 INCHES (TRAIN B) | LOWER      | GOOD      |
| 35       | L0942B      | SUMP B LEVEL 180 INCHES (TRAIN A) | LOWER      | GOOD      |
| 36       | L0943B      | SUMP B LEVEL 180 INCHES (TRAIN B) | LOWER      | GOOD      |
| 37       | L0942A      | SUMP B LEVEL 214 INCHES (TRAIN A) | LOWER      | GOOD      |
| 38       | L0943A      | SUMP B LEVEL 214 INCHES (TRAIN B) | LOWER      | GOOD      |
| 39       | T0409A      | RCLA HOT LEG TEMPERATURE          | 347.4      | GOOD DEGF |
| 40       | T0410A      | RCLB HOT LEG TEMPERATURE          | 345.4      | GOOD DEGF |
| 41       | T0409B      | RCLA COLD LEG TEMPERATURE         | 337.3      | GOOD DEGF |
| 42       | T0410B      | RCLB COLD LEG TEMPERATURE         | 324.0      | GOOD DEGF |
| 43       | TAVGAWID    | RCLA TAVG (THOT/TCOLD WIDE RNG)   | 342.3      | GOOD DEGF |
| 44       | TAVGBWID    | RCLB TAVG (THOT/TCOLD WIDE RNG)   | 334.7      | GOOD DEGF |
| 45       | LRV         | REACTOR VESSEL AVERAGE LEVEL      | 107.7      | GOOD %    |
| 46       | TCCORE      | E1.1 INCORE TC AVERAGE TEMP       | 347.8      | GOOD DEGF |
| 47       | FAUXFWA     | S/G A TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD GPM  |
| 48       | FAUXFWB     | S/G B TOTAL AUX FEEDWATER FLOW    | 0.         | GOOD GPM  |
| 49       | BKR081      | MTR AUXILIARY FEEDWATER PUMP A    | OFF        | GOOD      |
| 50       | BKR082      | MTR AUXILIARY FEEDWATER PUMP B    | OFF        | GOOD      |
| 51       | V3505       | AUX FW PUMP STEAM SUPPLY VALVE A  | OPEN       | ALRM      |
| 52       | V3504       | AUX FW PUMP STEAM SUPPLY VALVE B  | OPEN       | ALRM      |

Time: 13:00  
Message: 34

**GINNA STATION**  
**JUNE 6, 2001 PLUME EXPOSURE EXERCISE**  
**MESSAGE FORM**

**Message for:** Emergency Coordinator and Recovery Manager

**Message:** \*\*\*THIS IS AN EXERCISE\*\*\*

The Exercise is Terminated.

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver when all exercise objectives have been demonstrated.

**Actions Expected:**

1. Close out by making an announcement to all facilities (including RECS) that the exercise is terminated.

## **SECTION 9.0**

### **ONSITE RADIOLOGICAL AND CHEMISTRY DATA**



**SECTION 9.1**  
**RADIOLOGICAL SUMMARY**

## 9.1 Radiological Summary

### A. Source Term

The radiological source term assumed for this scenario was selected to include appropriate quantities of noble gas and radioiodine resulting from the postulated accident scenario.

Immediate protective action recommendations (e.g., sheltering, evacuation) will be required based upon the anticipated declaration of a General Emergency and plant conditions. As a results of accident release rates, the projected whole body (TEDE) and thyroid (CDE) doses will not exceed the EPA Protective Action Guide beyond the site boundary.

The assumed noble gas, radioiodine and particulate release quantities are shown in Figure 9.1 as a function of time. The scenario involves 1 release point which is from the "B" Steam Generator Atmospheric Relief Valve. This occurs as follows:

| <u>Time</u> | <u>Release Point</u> | <u>Release Rate (Ci/sec)</u> |
|-------------|----------------------|------------------------------|
| 1115-       | "B" S/G ARV          | 1.06 E+1 (Noble Gas)         |
| 1245        |                      | 1.06 E-3 (Radioiodine)       |

The noble gas-to-radioiodine ratio assumed in this scenario is 10,000:1, during the period of release. Isotopic breakdowns of assumed noble gas, radioiodine and particulate release quantities are provided in Table 9.1.

### B. Integrated Offsite Doses Due to Plume Exposure

The downwind integrated doses from the 1.5-hour scenario release are as follows:

**Whole Body (TEDE) Dose (at Site Boundary) = 181 millirem**

**Child Thyroid (CDE) Dose (at Site Boundary) = 53 millirem**

**TABLE 9.1**

The assumed release quantities for the Ginna Exercise Scenario are summarized as follows:

**Time : 1115-1245 hr**

| <b>Nuclide</b>               | <b><u>Curie/Sec</u></b> | <b><u>Total Curies Released</u></b> |
|------------------------------|-------------------------|-------------------------------------|
| Kr-85                        | 8.6 E-02                | 4.6 E+02                            |
| Kr-85m                       | 1.4 E-01                | 7.6 E+02                            |
| Kr-87                        | 1.2 E+00                | 6.3 E+03                            |
| Kr-88                        | 5.1 E+00                | 2.8 E+04                            |
| Xe-131m                      | 2.5 E-01                | 1.3 E+03                            |
| Xe-133                       | 1.5 E+00                | 8.2 E+03                            |
| Xe-133m                      | 2.7 E-02                | 1.5 E+02                            |
| Xe-135                       | 1.8 E+00                | 9.6 E+03                            |
| Xe-135m                      | 1.1 E+01                | 2.7 E+03                            |
| <b>Total<br/>Noble Gas</b>   | <b>6.8E+01</b>          | <b>5.7 E+04</b>                     |
|                              |                         |                                     |
| I-131                        | 3.1 E-05                | 1.7 E-01                            |
| I-132                        | 2.3 E-04                | 1.2 E+00                            |
| I-133                        | 1.5 E-04                | 8.0 E-01                            |
| I-134                        | 4.1 E-04                | 2.2 E+00                            |
| I-135                        | 2.4 E-04                | 1.3 E+00                            |
| <b>Total<br/>Radioiodine</b> | <b>1.1 E-03</b>         | <b>5.7E+00</b>                      |
|                              |                         |                                     |
| Cs-134                       | 4.7E-07                 | 2.0 E-03                            |
| Cs-137                       | 2.2E-07                 | 1.0 E-02                            |
| Ba-140                       | 2.2E-07                 | 9.5 E-04                            |
| La-140                       | 2.2E-07                 | 9.5 E-04                            |
| <b>Total<br/>Particulate</b> | <b>1.1E-06</b>          | <b>1.0 E-02</b>                     |

Downwind Dose Calculation (DownCalc)

Session Number: 2001011  
 Shutdown DateTime: 03/26/2001 0830

Calculation Number: 1.01  
 Calculation DateTime: 03/26/2001 1111

Meteorological Data: Temp 250: 30.000 Stability: E  
 Temp 33: 30.000 Windspeed: 6.000  
 Delta Temp: 0.000

RadioIodine Release Data: R-10A: NA uCi/cc  
 R-10B: NA uCi/cc  
 Other Iodine: NA Ci/sec  
☒ Iodine from Noble Gas: 0.001061 Ci/sec  
 Total RadioIodine Release Rate: 0.001061 Ci/sec

Noble Gas Release Data: R-12: NA uCi/cc  
 R-14: NA uCi/cc  
 R-15: NA uCi/cc  
 R-31: NA mRem/hr  
 R-32: 41.000 mRem/hr  
 Other Noble Gas: NA Ci/sec  
 Total Noble Gas Release Rate: 10.613 Ci/sec

Time Data: Data DateTime: 03/26/2001 1200 Time since Shutdown: 3.500  
 Exposure Duration: 4.000

External & Internal Effective Dose Equivalent in mREMs 'X' Miles:

|            | <u>Site Boundary</u> | <u>2 miles</u> | <u>5 miles</u> | <u>10 miles</u> |
|------------|----------------------|----------------|----------------|-----------------|
| WB (TEDE): | 486.073              | 60.714         | 22.230         | 10.396          |
| THY (CDE): | 148.808              | 18.587         | 6.806          | 3.183           |

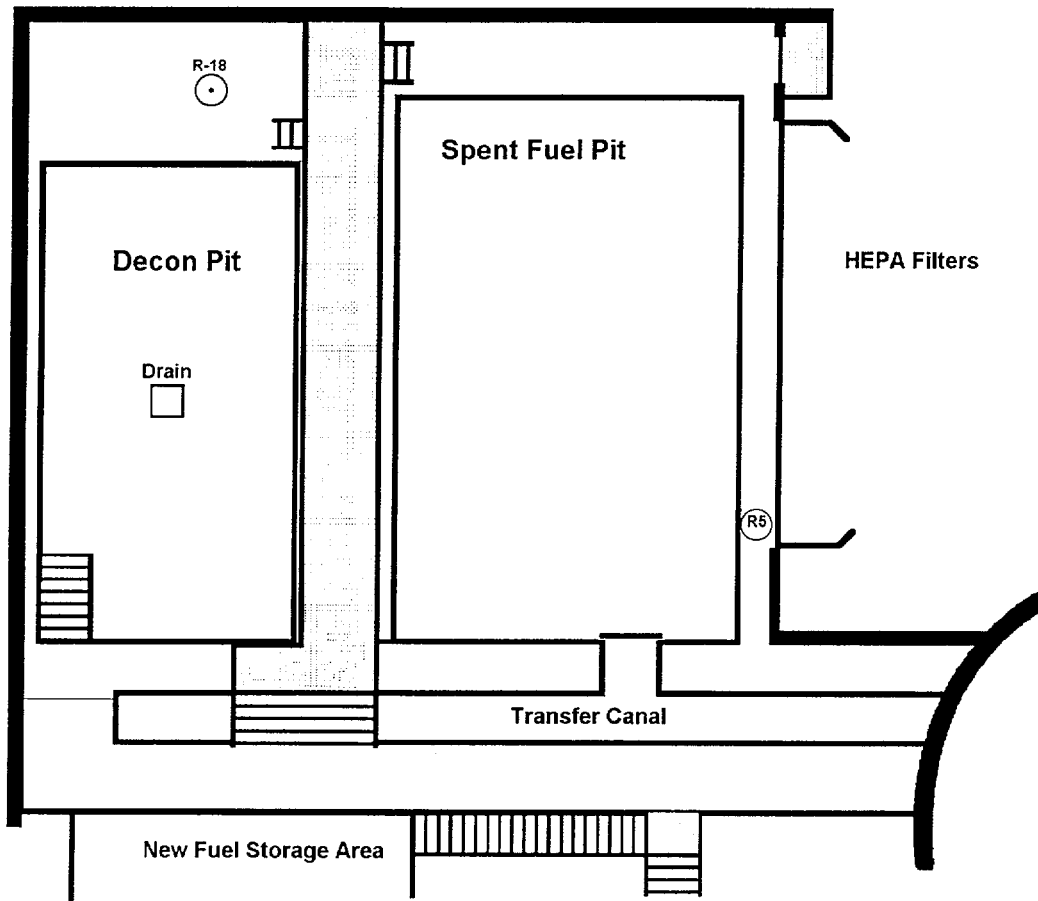
WHILE BODY (TEDE) PAR:  
 THYROID (CDE) PAR:

## **SECTION 9.2**

### **IN-PLANT RADIOLOGICAL DATA MAPS**

June 6, 2001

Auxiliary Building: Top Floor - Spent Fuel Pit and Decon Pit



Time: All Day

Dose Rates:  
As read

Contamination:  
<500 dpm/100cm<sup>2</sup>

CAMS:  
NG = as read  
I<sub>2</sub> = as read  
Part = as read

June 6, 2001

**Contaminated Storage Building**

**(Picture not available)**

Time: All Day

Dose Rates:

As read

Contamination:

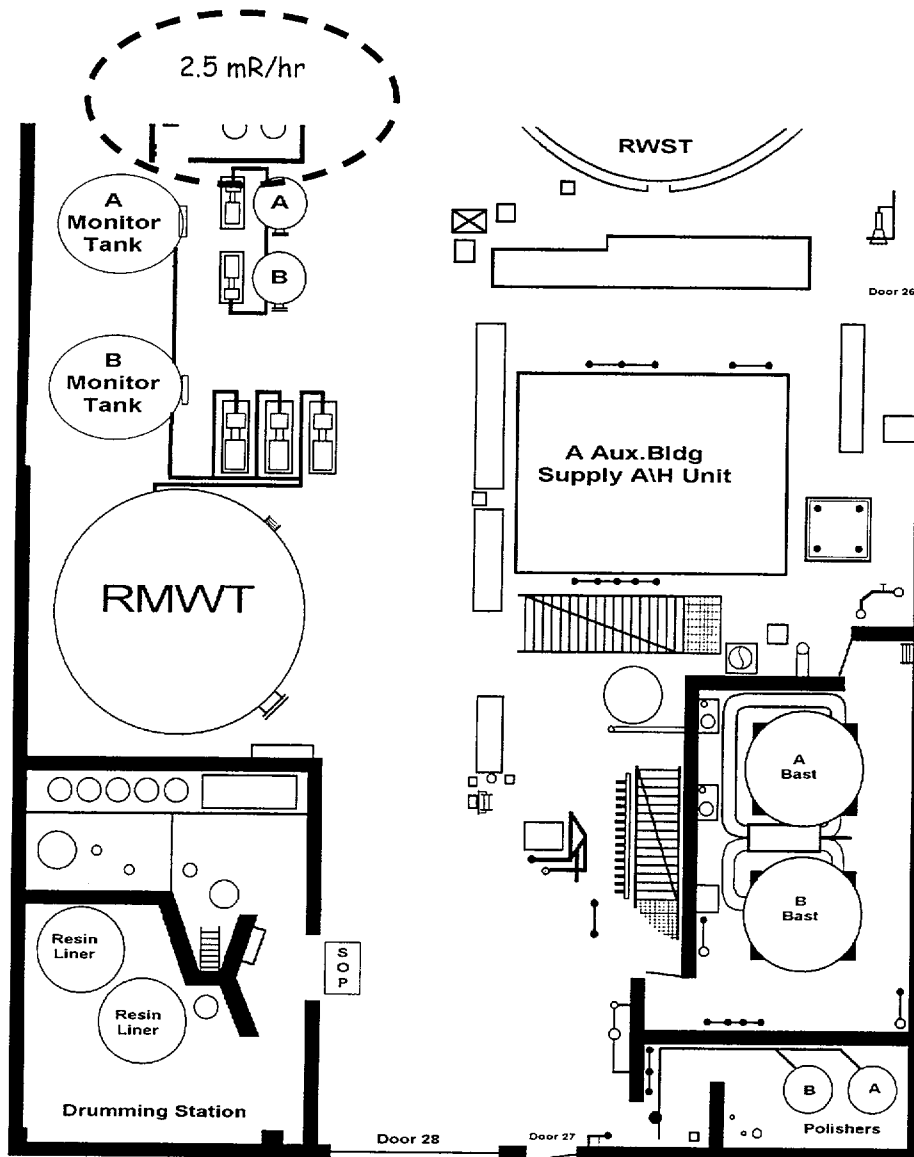
As read

CAMS:

As read

June 6, 2001

## Auxiliary Building: Top Floor - East End



Time: All Day

Dose Rates:

As read

Except area around  
CCW system reads 2.5  
mR/hr after 07:55

Contamination:

<500 dpm/100cm<sup>2</sup>

CAMS:

NG = as read

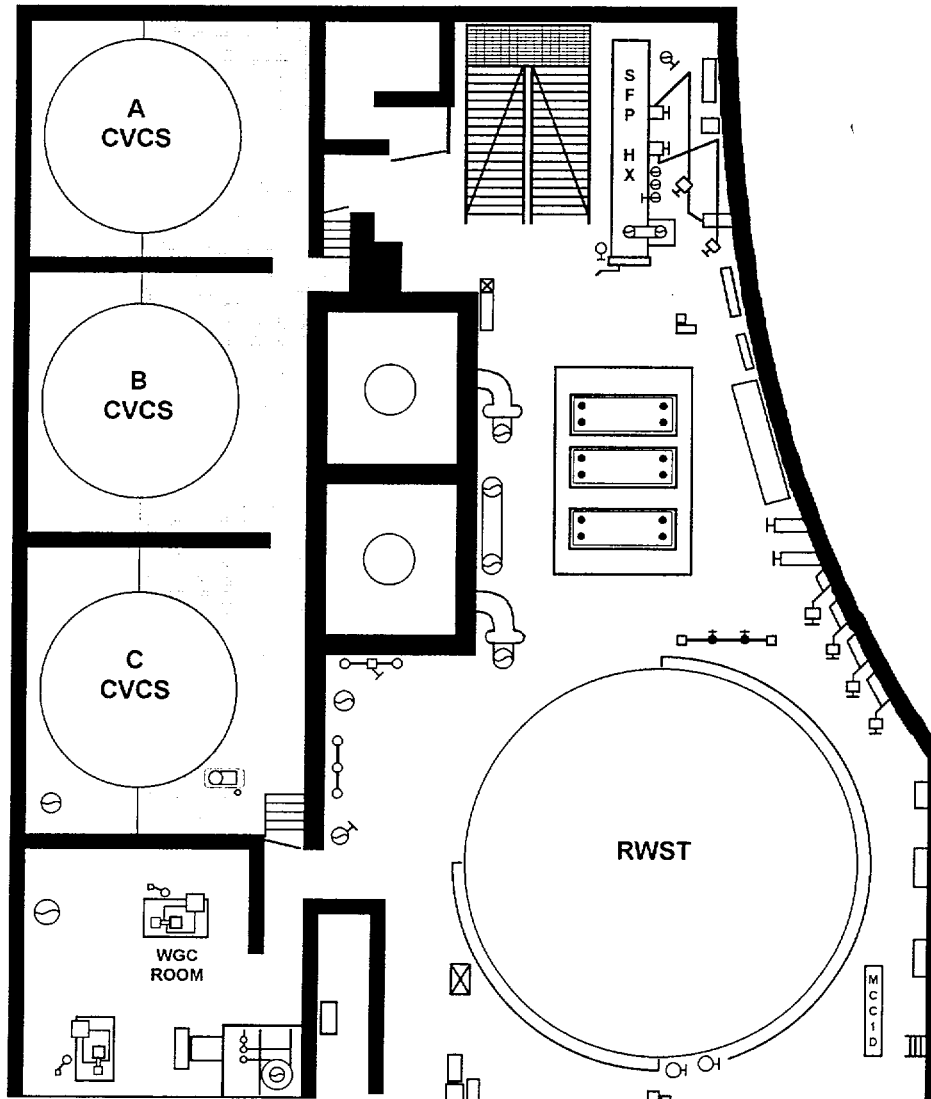
I<sub>2</sub> = as read

Part = as read



June 6, 2001

Auxiliary Building: Intermediate Level - West End



Time: All Day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

CAMS:

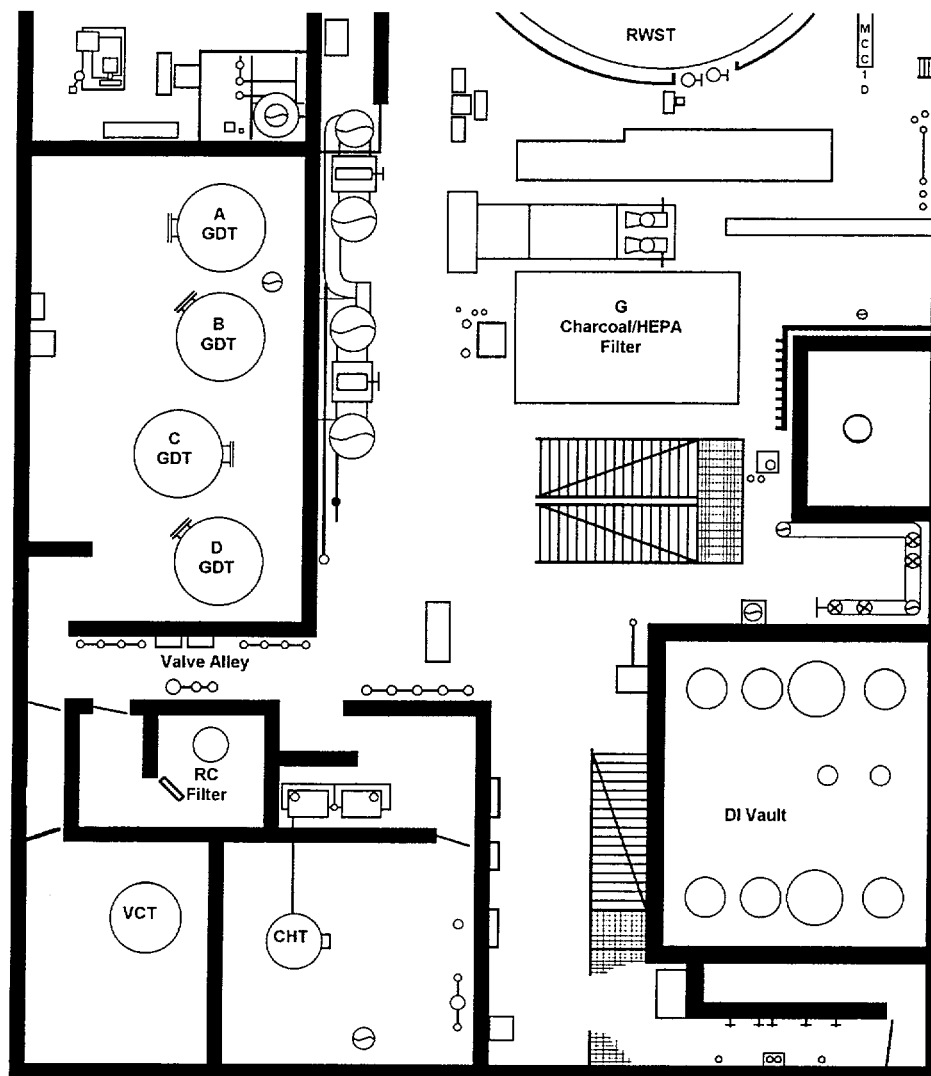
NG = as read

I<sub>2</sub> = as read

Part = as read

June 6, 2001

## Auxiliary Building: Intermediate Level - East End



Time: All Day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

CAMS:

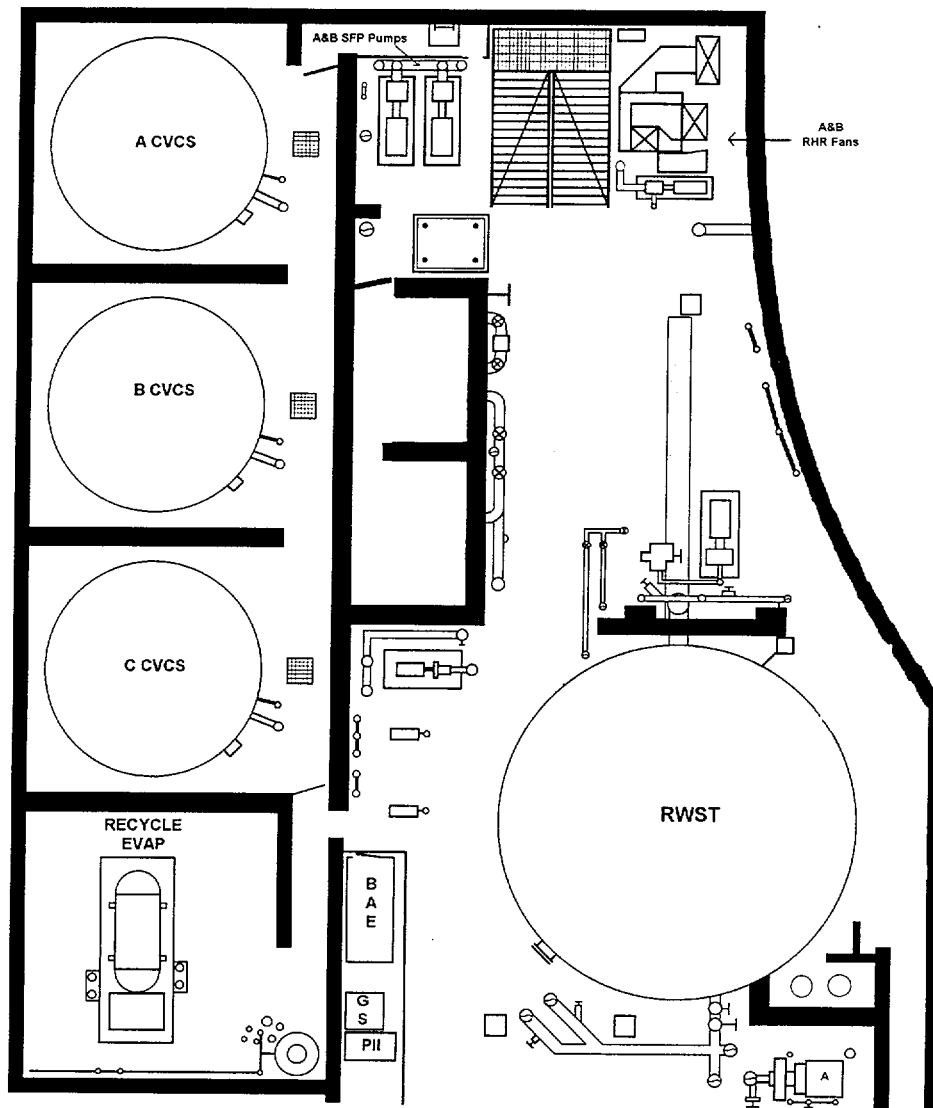
NG = as read

I<sub>2</sub> = as read

Part = as read

June 6, 2001

## Auxiliary Building: Basement - West End



Time: All Day

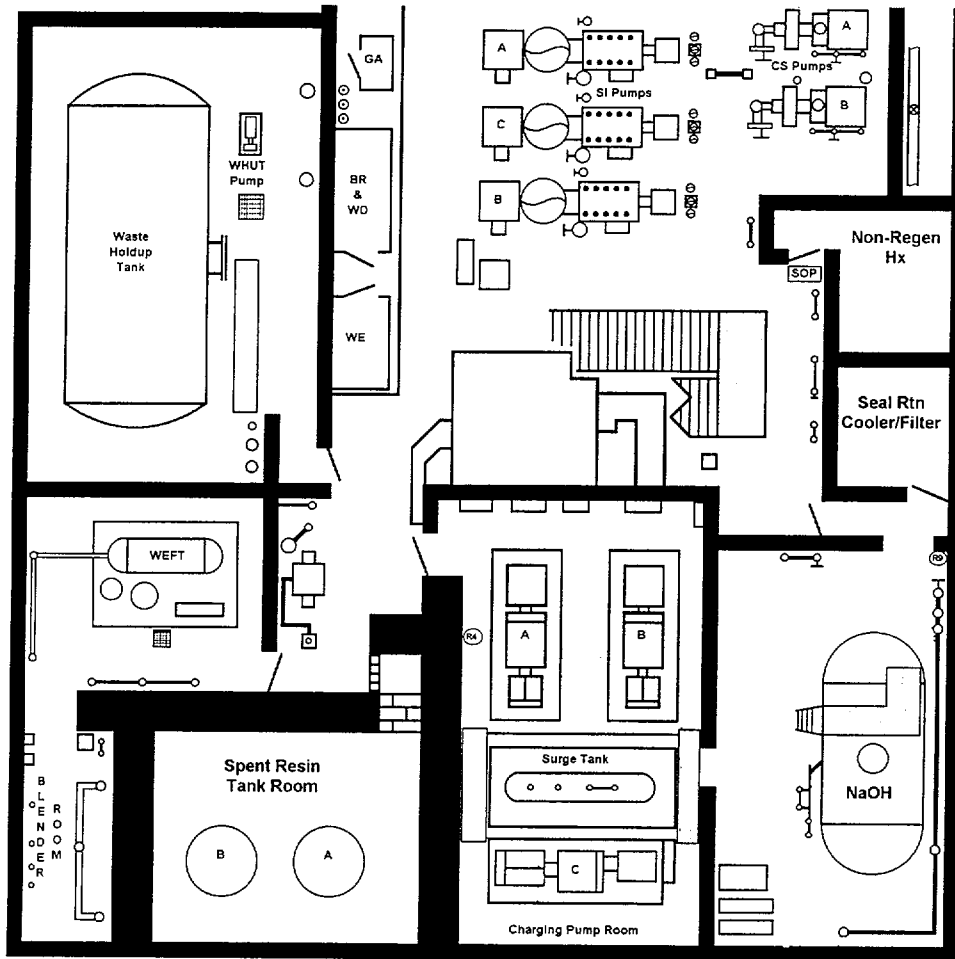
Dose Rates:  
As read

Contamination:  
As read

CAMS:  
NG = as read  
I<sub>2</sub> = as read  
Part = as read

June 6, 2001

## Auxiliary Building: Basement - East End



Time: All Day

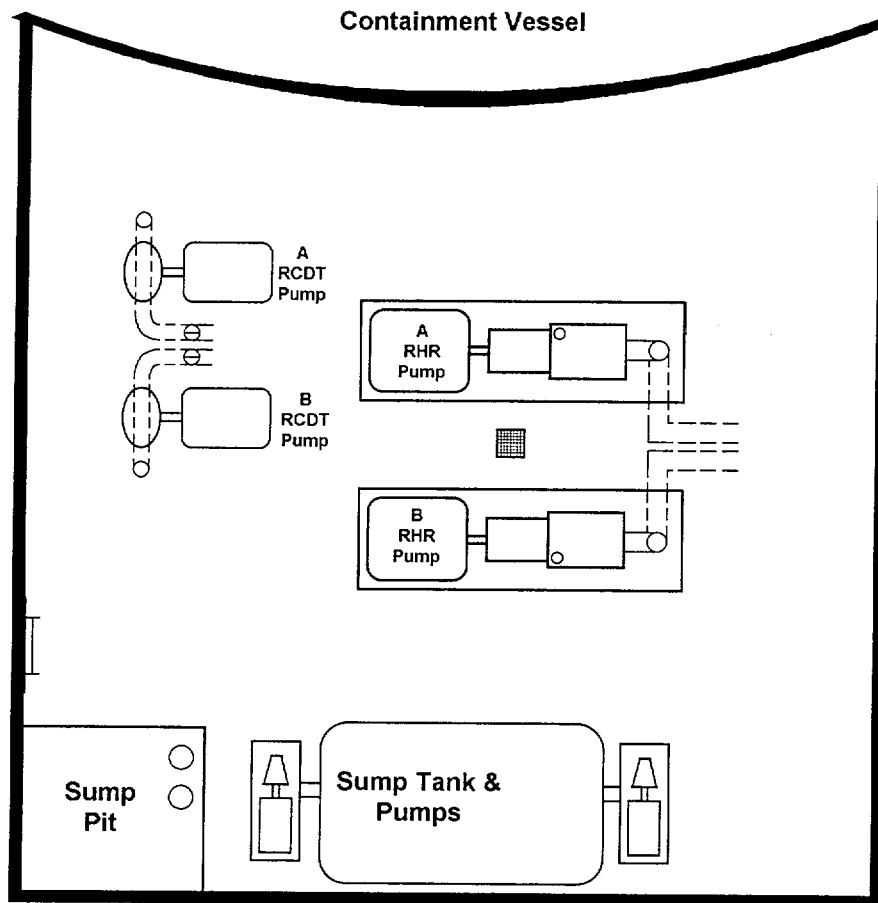
Dose Rates:  
As read

Contamination:  
<500 dpm/100cm<sup>2</sup>

CAMS:  
NG = as read  
I<sub>2</sub> = as read  
Part = as read

June 6, 2001

## Auxiliary Building: Sub-Basement



Time: All Day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

CAMS:

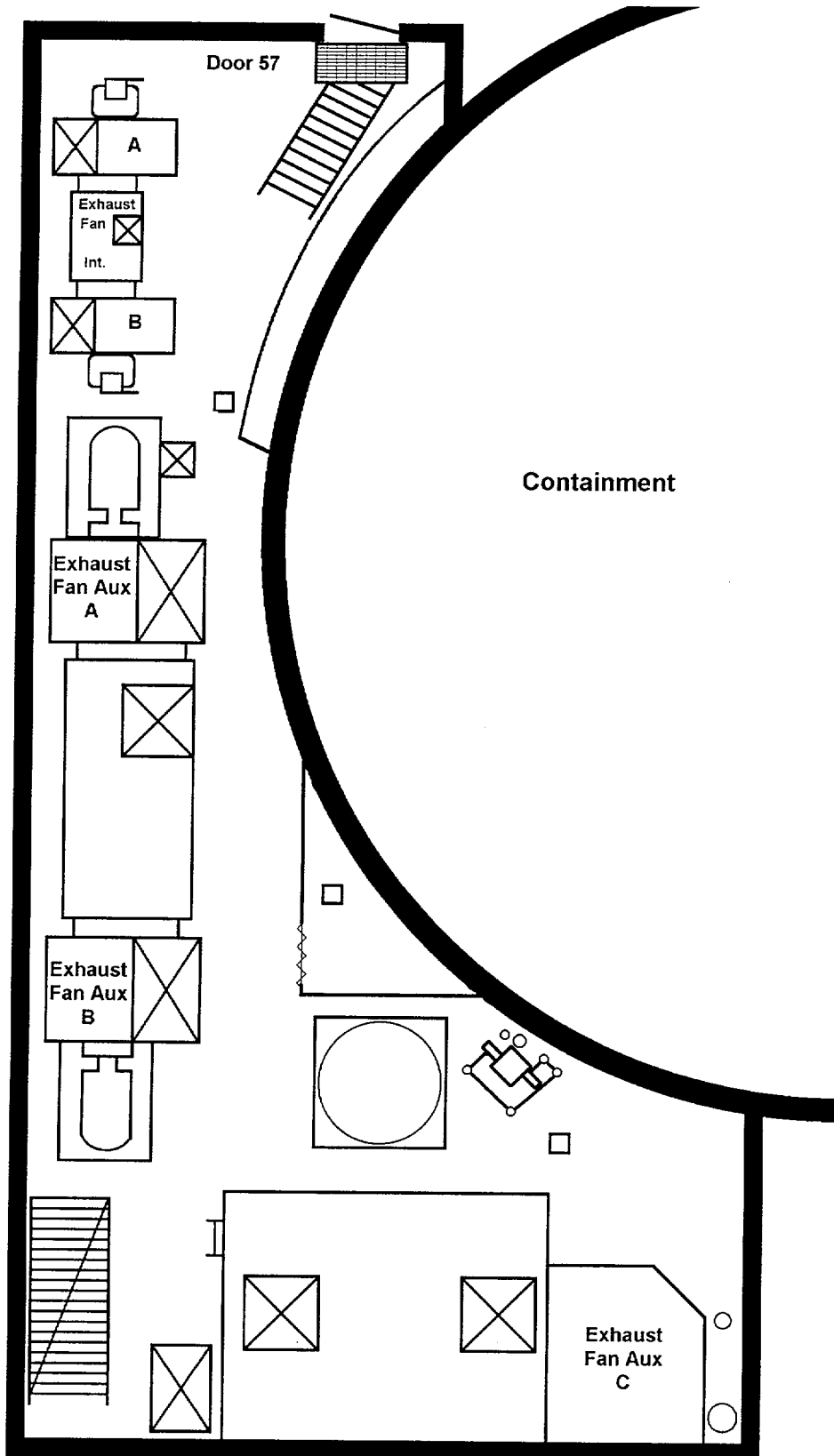
NG = as read

I<sub>2</sub> = as read

Part = as read

June 6, 2001

Intermediate Building: South - Top Level



Time: All day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

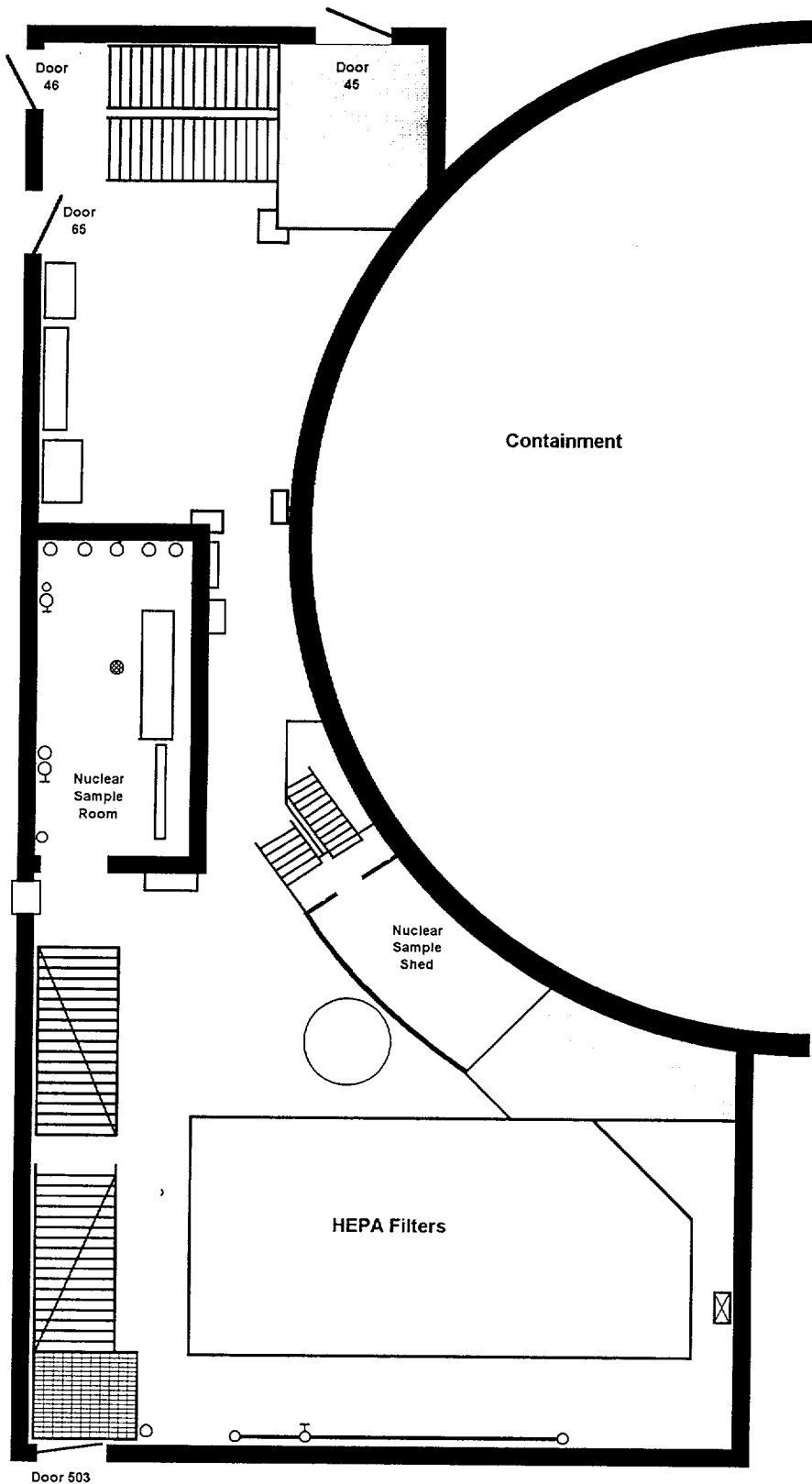
CAMS:

N/A

No airborne activity

June 6, 2001

## Intermediate Building: South - Mezzanine Level



Time: All Day

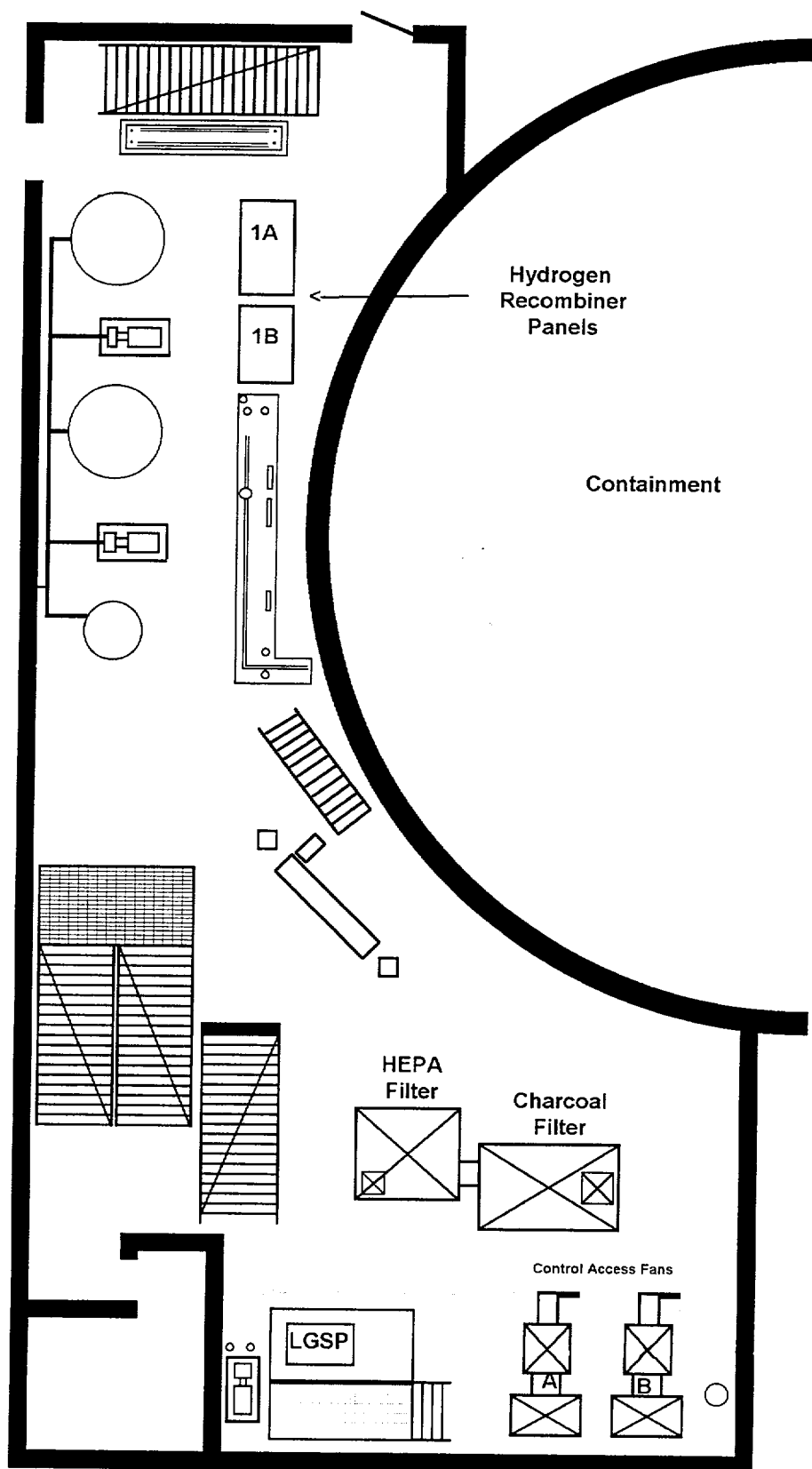
Dose Rates:  
As read

Contamination:  
<500 dpm/100cm<sup>2</sup>

CAMS:  
N/A  
No airborne activity

June 6, 2001

# Intermediate Building: South - Basement Level



Time: All Day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

CAMS:

N/A

No airborne activity



June 6, 2001

Hot Shop

(No Picture Available)

Time: All day

Dose Rates:

As read

Contamination:

<500 dpm/100cm<sup>2</sup>

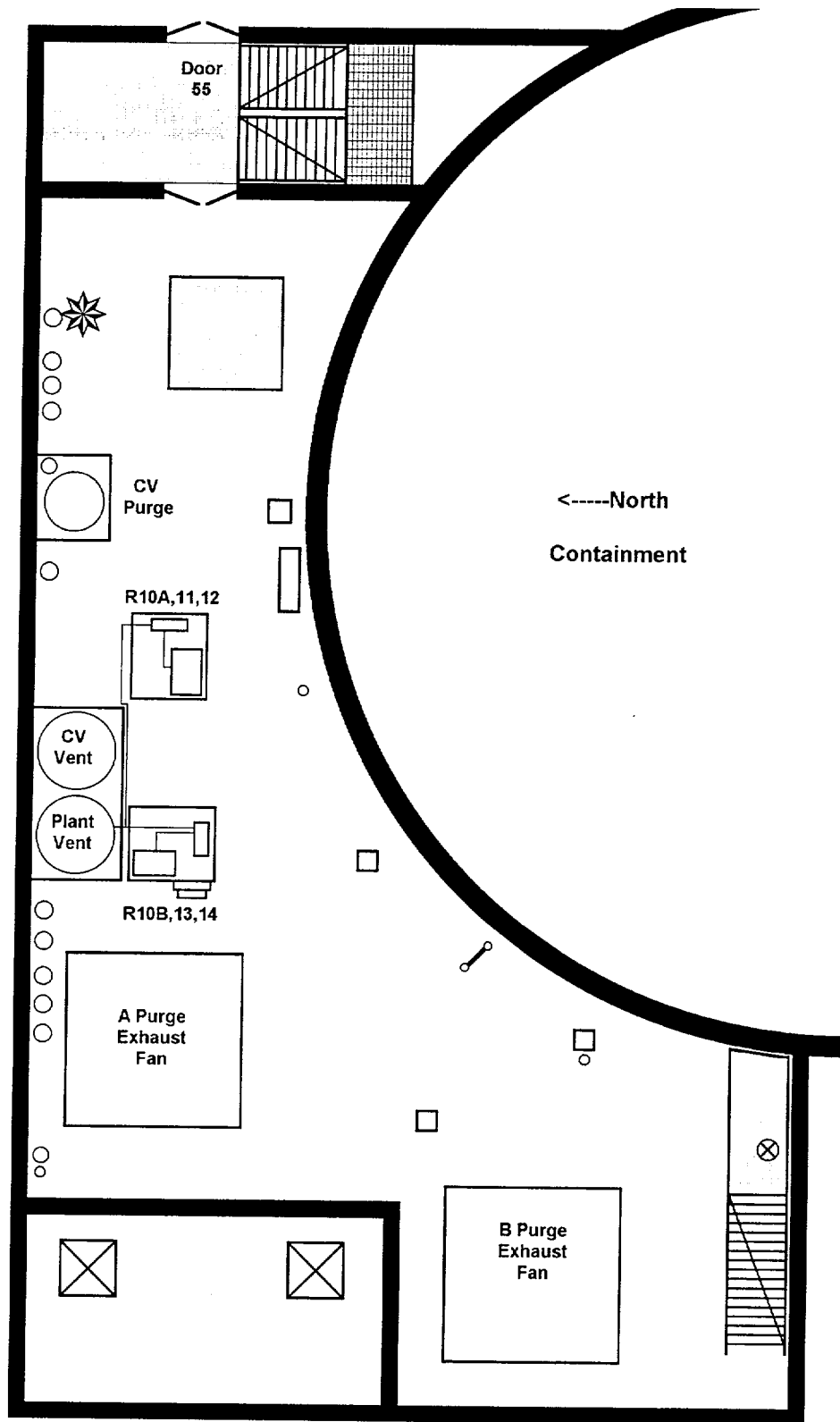
CAMS:

N/A

No airborne activity

June 6, 2001

## Intermediate Building: North - Top Level



Time: 07:00 - 11:15

Dose Rates:

"As read"

Contamination:

"As read"

CAMS:

N/A

No airborne activity

Time: 11:16 - 12:45

Dose Rates:

41 mR/hr on contact with ARV discharge line. Look for the following symbol:



Contamination:

10,000 dpm/100cm<sup>2</sup>

CAMS:

NG = 4E-8

I<sub>2</sub> = 7E-10

Part = 8E-12

Time: 12:46 - End

Dose Rates:

6 mR/hr on contact with ARV discharge line. Look for the following symbol:



Contamination:

10,000 dpm/100cm<sup>2</sup>

CAMS:

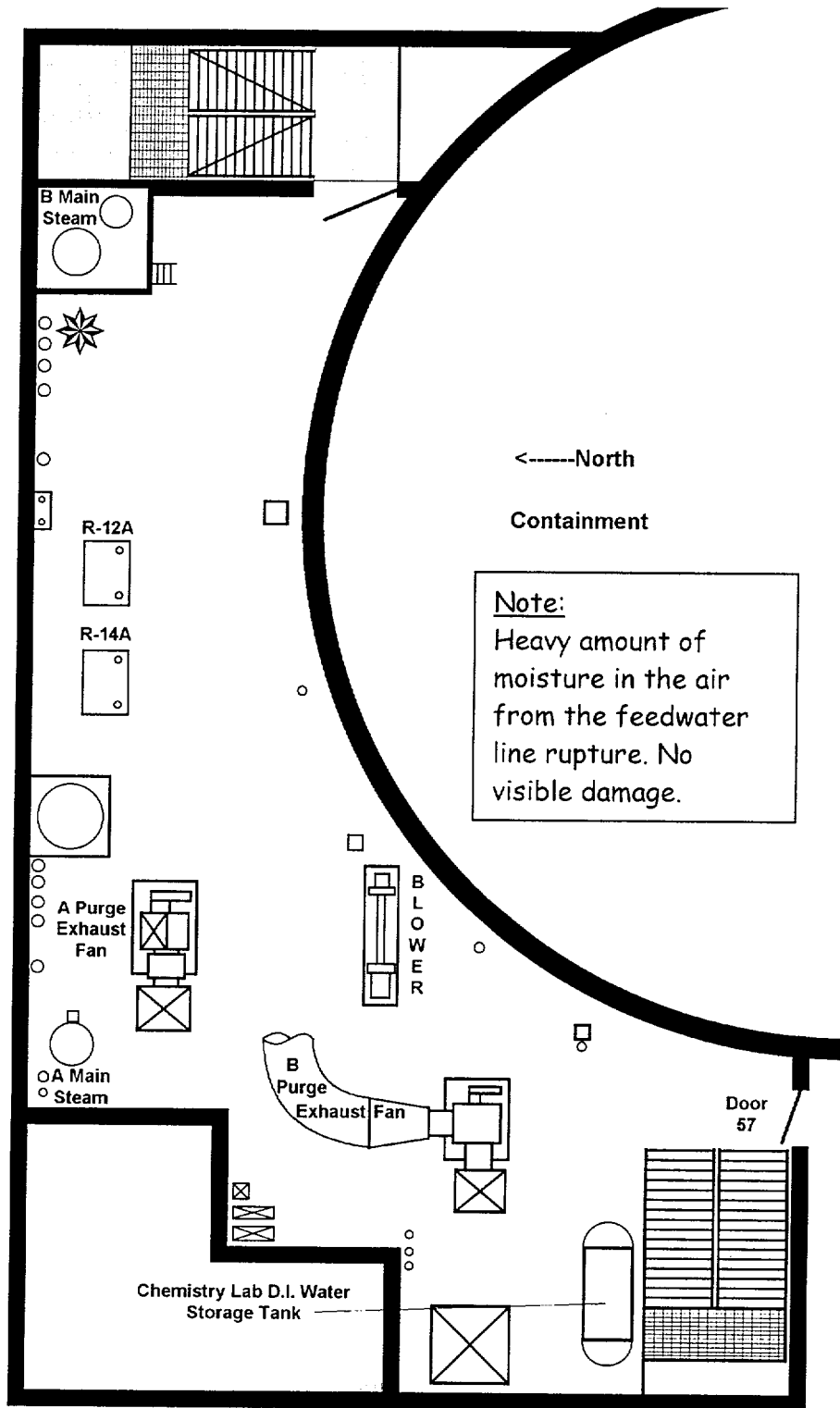
NG = 4E-8

I<sub>2</sub> = 7E-10

Part = 8E-12

June 6, 2001

## Intermediate Building: North - Operating Level



Time: 07:00 - 11:15

Dose Rates:

As read

Contamination:

As read

CAMS:

N/A

No airborne activity

Time: 11:16 - 12:45

Dose Rates:

41 mR/hr on contact with ARV discharge lines. Look for the following symbol:



Contamination:

10,000 dpm/100cm<sup>2</sup>

CAMS:

NG = 4E-8

I<sub>2</sub> = 7E-10

Part = 8E-12

Time: 12:46 - End

Dose Rates:

6 mR/hr on contact with ARV discharge lines. Look for the following symbol:



Contamination:

10,000 dpm/100cm<sup>2</sup>

CAMS:

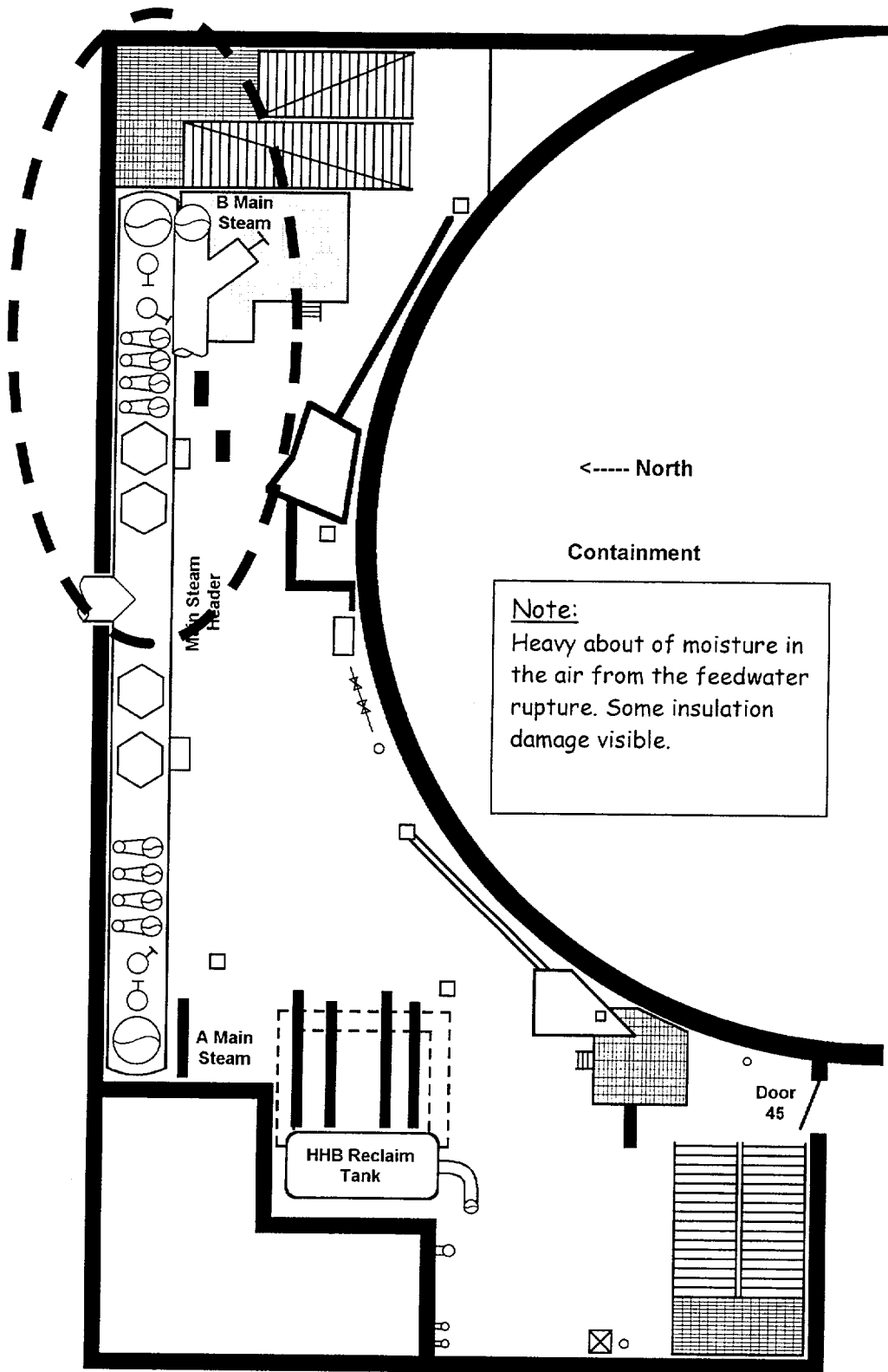
NG = 4E-8

I<sub>2</sub> = 7E-10

Part = 8E-12

June 6, 2001

Intermediate Building: North - Mezzanine Level



Time: 07:00 - 11:15

Dose Rates:

As read

Contamination:

As read

CAMS:

No airborne activity

Time: 11:16- 12:45

Dose Rates:

"A" steam line indicates  
41 mR/hr (inside  
dotted area)

Contamination:

10,000 dpm/100cm<sup>2</sup>

CAMS:

No airborne activity

Time: 12:46 - End

Dose Rates:

"A" steam line indicates  
6 mR/hr (inside dotted  
area)

Contamination:

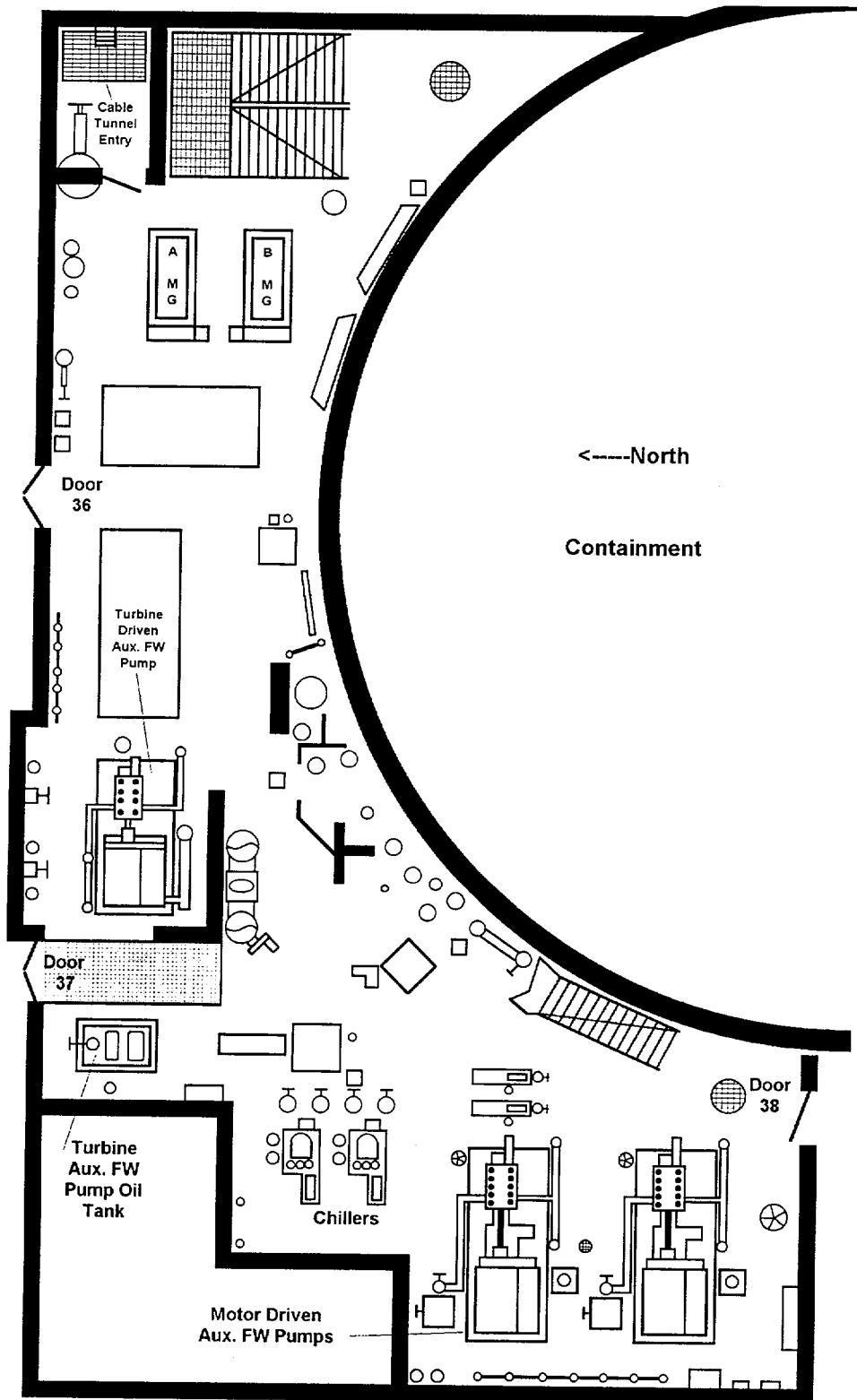
10,000 dpm/100cm<sup>2</sup>

CAMS:

No airborne activity

June 6, 2001

## Intermediate Building: North - Basement Level



Time: All day

Dose Rates:  
"As read"

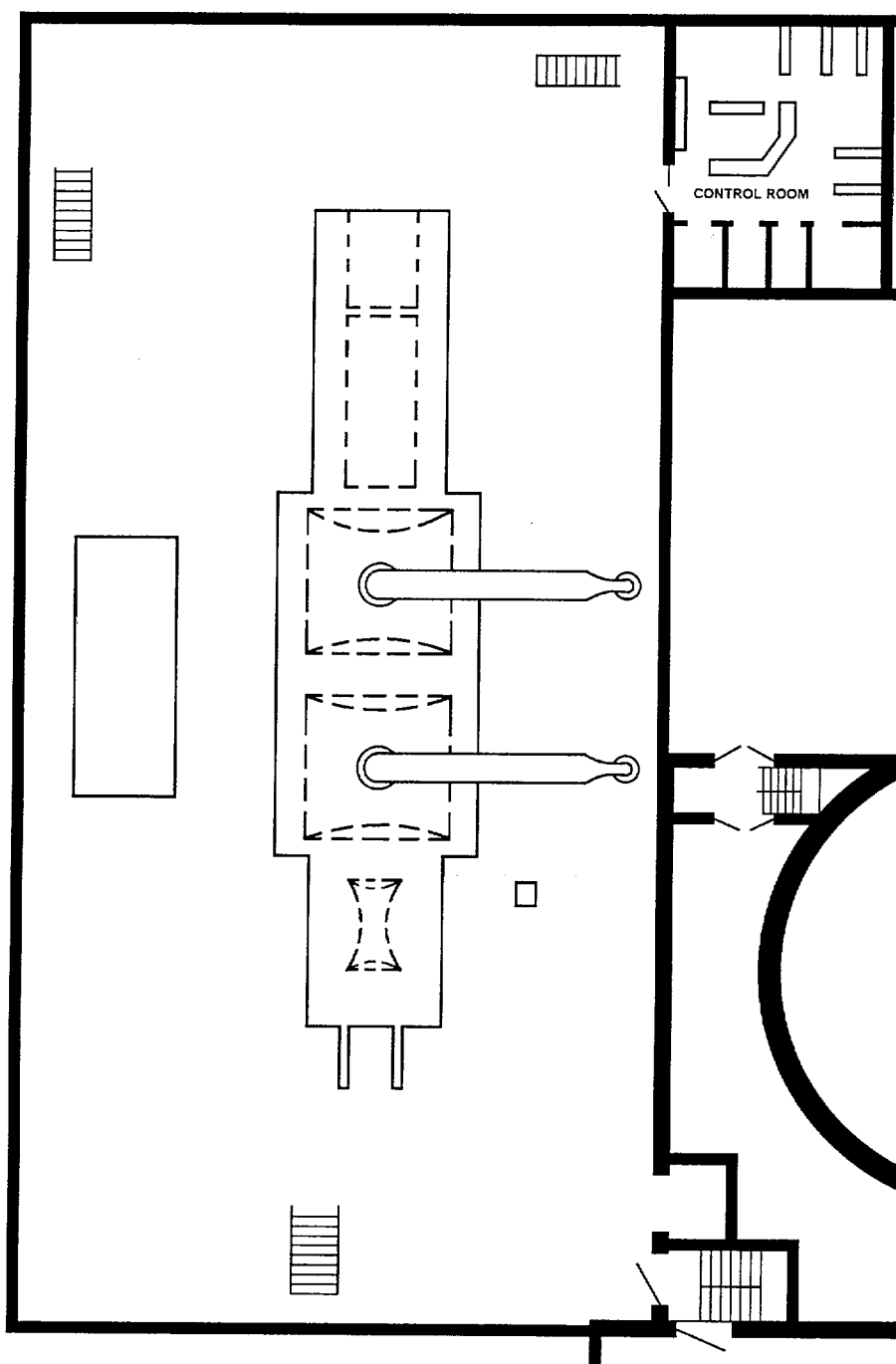
Contamination:  
"As read"

CAMS:  
No airborne activity

Notes:  
After 0820, this area is heavily damaged from the feedwater line rupture. Equipment has been destroyed. Looks like a tornado hit the room.  
A portion of the north wall has collapsed. It is impossible to walk into this room.

June 6, 2001

## Turbine Building: Operating Level



Time: All Day

Dose Rates:

As read

Contamination:

07:55 - 11:30

As read

11:30 - End

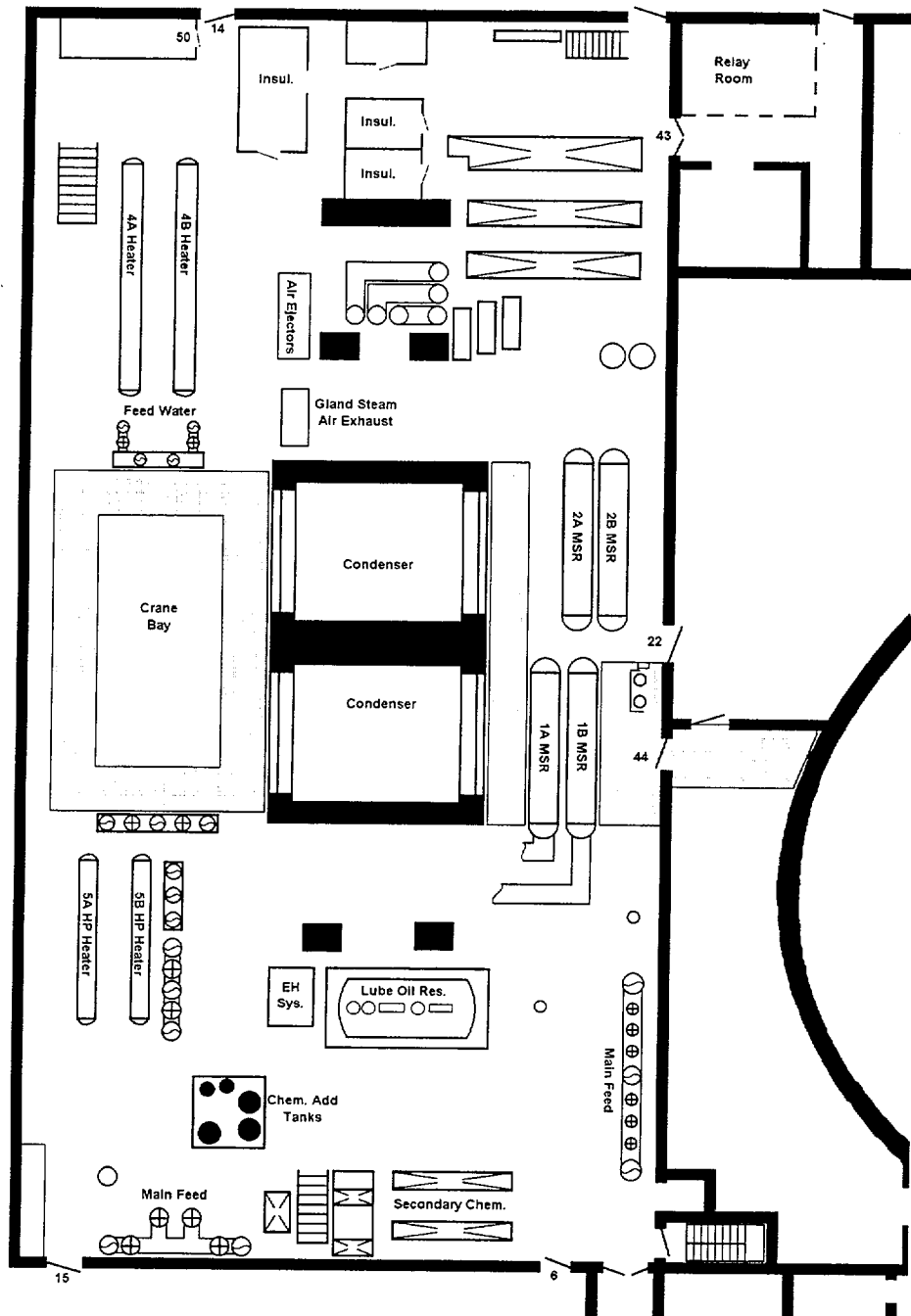
5,000 dpm/100cm<sup>2</sup>

CAMS:

No airborne activity

June 6, 2001

## Turbine Building: Mezzanine Level



Time: All Day

Dose Rates:

As read

Contamination:

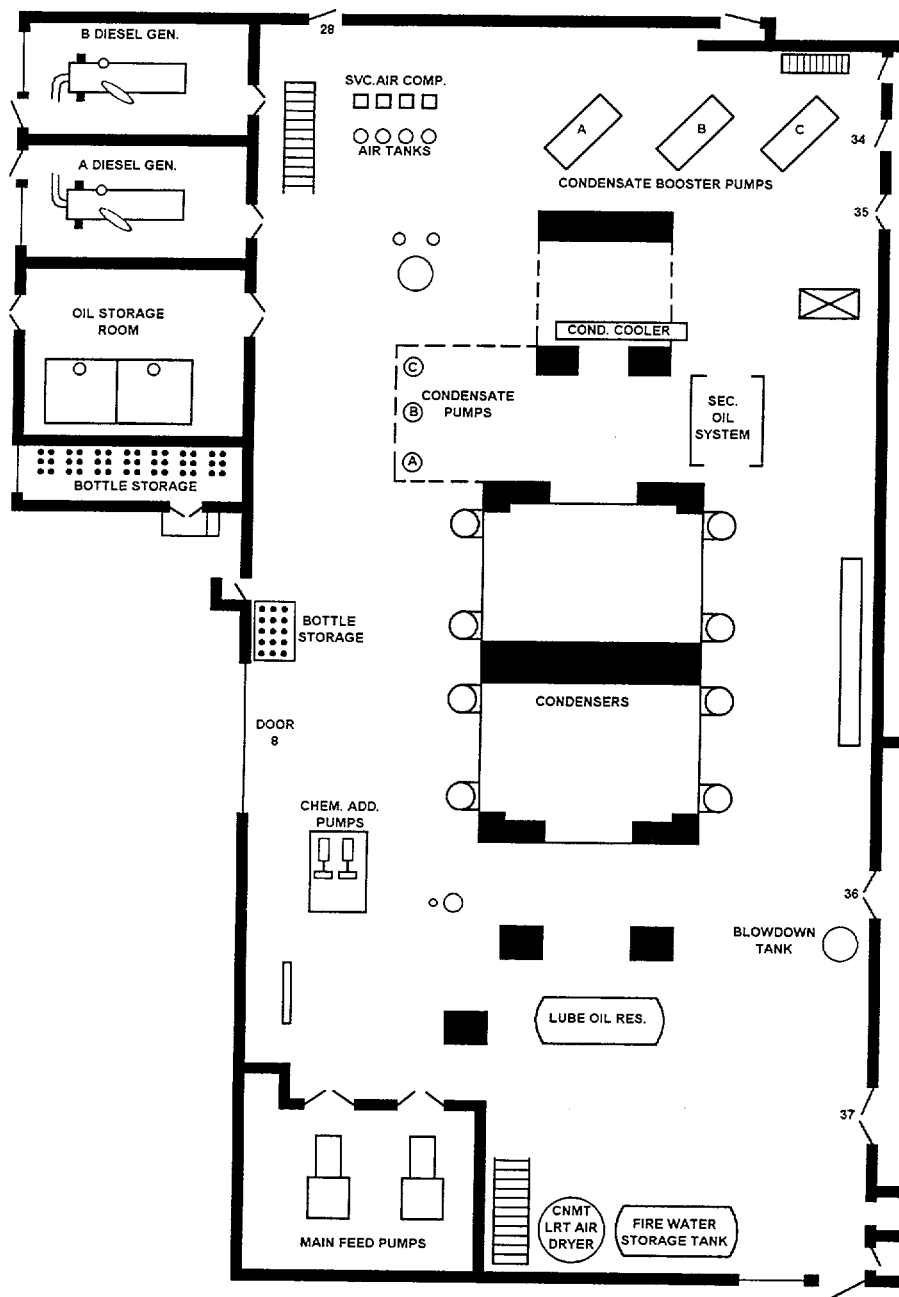
As read

CAMS:

As read

June 6, 2001

## Turbine Building: Basement Level



Time: All Day

Dose Rates:

As read

Contamination:

As read

CAMS:

As read



## **SECTION 9.3**

### **IN-PLANT AND POST-ACCIDENT SAMPLING RESULTS**

**TABLE 9.2**

**REACTOR COOLANT SYSTEM SAMPLE ACTIVITY**  
**EQUILIBRIUM ACTIVITY**

**(AS OF 0500 HR, 6/6/01)**

| <b><u>Nuclide</u></b>        | <b><u>Corrected Concentration (UCI/GM)</u></b> |
|------------------------------|--|
| I-131                        | 4.70E-03                                       |
| I-132                        | 8.09E-03                                       |
| I-133                        | 3.29E-03                                       |
| I-134                        | 5.05E-03                                       |
| I-135                        | 1.87E-03                                       |
| <b>Total Iodine</b>          | <b>1.57E-02</b>                                |
| <b>I-131 Dose Equivalent</b> | <b>5.56E-03</b>                                |
|                              |  |
| Kr-85                        | 1.16E-03                                       |
| Kr-85m                       | 1.16E-01                                       |
| Kr-87                        | 2.02E-02                                       |
| Kr-88                        | 1.47E-01                                       |
| Xe-131m                      | 3.34E-03                                       |
| Xe-133                       | 1.06E+00                                       |
| Xe-133M                      | 1.57E-01                                       |
| Xe-135                       | 1.87E-01                                       |
| Xe-135m                      | 1.87E-01                                       |
| <b>Total Gas</b>             | <b>1.87E+00</b>                                |

**TABLE 9.3**

**REACTOR COOLANT SYSTEM SAMPLE:**  
**GAS COLLECTION BOMB**

**(Collection After 1030)**

| <b><u>Nuclide</u></b> | <b><u>Concentration (<math>\mu\text{Ci/gm}</math>)<br/>Corrected to Time of Shutdown</u></b> |
|-----------------------|--|
| Kr-85m                | 4.53 E-01  |
| Kr-87                 | 4.53 E-01  |
| Kr-88                 | 9.60 E-01  |
| Xe-131m               | 1.06 E-01  |
| Xe-133                | 2.11 E+01  |
| Xe-133m               | 2.02 E+00  |
| Xe-135                | 1.07 E+00  |
| <b>Total Gas</b>      | <b>2.62 E+01</b>   |

Undiluted Sample Dose Rate at 1 Meter = 0.15 MR/HR

Undiluted Sample Dose Rate at Contact = 1.5 R/HR

Diluted Sample Dose Rate at 1 Meter = <0.01 MR/HR

Diluted Sample Dose Rate at Contact = 0.28 MR/HR

\* NOTE: Dose rates based upon assumed use of 12 cc sample.

**TABLE 9.4**

**PRIMARY COOLANT SAMPLE:**  
**DEGASSED ACTIVITY**

**(Collection After 1030)**

| <b><u>Nuclide</u></b>        | <b><u>Concentration (UCI/GM)</u></b><br><b><u>Corrected to Time of Shutdown</u></b> |
|------------------------------|---|
| I-131                        | 3.34 E+01   |
| I-132                        | 5.57 E+00   |
| I-133                        | 2.31 E+01   |
| I-135                        | 1.17 E+01   |
| <b>Total Iodine</b>          | <b>7.37 E+01</b>  |
| <b>I-131 Dose Equivalent</b> | <b>4.92 E+01</b>  |

Undiluted Sample Dose Rate at 1 Meter = 0.41 MR/HR

Undiluted Sample Dose Rate at Contact = 4.14 R/HR

Diluted Sample Dose Rate at 1 Meter = <0.01 MR/HR

Diluted Sample Dose Rate at Contact = 0.07 MR/HR

\* **NOTE: Dose rates based upon assumed use of 12 cc sample.**

**TABLE 9.5**

**CONTAINMENT SUMP SAMPLE:**  
**DEGASSED ACTIVITY**

**(Collection After 1030)**

| <b><u>Nuclide</u></b>        | <b><u>Concentration (<math>\mu\text{Ci/gm}</math>)<br/>Corrected to Time of Shutdown</u></b> |
|------------------------------|--|
| I-131                        | 5.55 E+01  |
| I-132                        | 9.25 E+00  |
| I-133                        | 3.85 E+01  |
| I-135                        | 1.94 E+01  |
| <b>Total Iodine</b>          | <b>1.23 E+02</b>   |
| <b>I-131 Dose Equivalent</b> | <b>7.5 E+01</b>  |

Undiluted Sample Dose Rate at 1 Meter = 0.76 MR/HR

Undiluted Sample Dose Rate at Contact = 761 MR/HR

Diluted Sample Dose Rate at 1 Meter = <0.01 MR/HR

Diluted Sample Dose Rate at Contact = 1.35 MR/HR

**\* NOTE: Dose rates based upon assumed use of 12 cc sample.**

**TABLE 9.6**  
**CONTAINMENT AIR SAMPLE:**

(Collection After 1030)

| <b><u>Nuclide</u></b> | <b><u>Concentration (<math>\mu\text{Ci/cc}</math>)</u></b><br><b><u>Corrected to Time of Shutdown</u></b> |
|-----------------------|---|
| Kr-85m                | 3.04 E-03   |
| Kr-87                 | 2.98 E-03   |
| Kr-88                 | 6.40 E-03   |
| Xe-131m               | 7.11 E-04   |
| Xe-133                | 1.42 E-01   |
| Xe-133m               | 1.35 E-02   |
| Xe-135                | 7.22 E-03   |
| <b>Total Gas</b>      | <b>1.75 E-01</b>  |
| I-131                 | 7.51 E-02   |
| I-132                 | 1.25 E-02   |
| I-133                 | 5.20 E-02   |
| I-135                 | 2.61 E-02   |
| <b>Total Iodine</b>   | <b>1.66 E-01</b>  |
| Cs-134                | 1.0 E-09  |
| Cs-137                | 6.0 E-08  |
| Ba-140                | 2.1 E-09  |
| La-140                | 2.1 E-09  |

Undiluted Sample Dose Rate at 1 Meter = <0.01 MR/HR

Undiluted Sample Dose Rate at Contact = 46.9 MR/HR

Diluted Sample Dose Rate at 1 Meter = <0.01 MR/HR

Diluted Sample Dose Rate at Contact = <0.01 MR/HR

**\* NOTE: Dose rates based upon assumed use of 10 cc sample.**

**SECTION 10.0**

**METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA**

## **SECTION 10.1**

### **METEOROLOGICAL DATA**

(PLUME DIRECTION, WEATHER FORECASTS AND TOWER DATA)



Meteorological ConditionsA. Basis

The meteorological conditions for this scenario were based upon historical meteorological data recorded by the Ginna primary weather tower and the National Weather Service on March 23, 1997. Minor editing was performed on the data to provide the wind direction and atmospheric stability conditions required by the scenario during the period of release.

National Weather Service and New York State Exercise controllers will provide Exercise participants weather forecast summaries based on the meteorological data and other supporting information available from the historical record. The goal of this approach is to provide participants with more realistic forecast information.

B. Scenario Assumptions

The scenario will begin with light, northeasterly winds, which will remain steady for the entire drill.

During the period of the major release (1045- end of exercise approx. 1400 hr), the average meteorological conditions are as follows:

Wind Speed = 6 mph (at 33 ft)

Wind Direction = 60 degrees (at 33 ft; wind from)

Pasquill Stability = E

TABLE 10.1

WEATHER FORECAST INFORMATION

JUNE 6, 2001      7:00 AM - 14:30 PM

LAKE ONTARIO FORECAST :

TODAY:      Partly cloudy with a 20% chance of rain. High 55 to 60. Westerly winds 5 to 15 mph

TONIGHT:   Periods of rain come to an end. Temperatures will retreat into the mid 40's. Westerly winds 5 to 10 mph.

THURSDAY: Cloudy with a 30% chance of scattered showers. High near 55.

PRINTOUTS FROM GINNA PRIMARY MET. TOWER

(15-MINUTE AVERAGES)

06/6/01 07:00

RECORD NUMBER 1316

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 2.7  | 8.1  |
| SPD 33B     | 6.1     | MPH   | 0    | 1.8    | 2.2  | 8.2  |
| SPD150A     | 6.2     | MPH   | 0    | 2.1    | 2.5  | 8.1  |
| SPD150B     | 5.9     | MPH   | 0    | 2.2    | 2.3  | 8.1  |
| SPD250      | 5.9     | MPH   | 0    | 2.2    | 2.7  | 8.2  |
| DIR 33A     | 160     | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 161     | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 159     | DEG   | 0    | 2.1    | 37   | 87   |
| DIR150B     | 158     | DEG   | 0    | 1.7    | 31   | 85   |
| DIR250      | 155     | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.2    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.6    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -1.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 1.10    | INCH  | 0    | 1.02   | 1.10 | 1.10 |

06/6/01 07:15

RECORD NUMBER 1317

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.3     | MPH   | 0     | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.4     | MPH   | 0     | 1.8    | 3.2  | 9.2  |
| SPD150A     | 5.5     | MPH   | 0     | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0     | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0     | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 161     | DEG   | 0     | 1.7    | 19   | 7    |
| DIR 33B     | 162     | DEG   | 0     | 1.8    | 22   | 91   |
| DIR150A     | 159     | DEG   | 0     | 2.1    | 27   | 97   |
| DIR150B     | 158     | DEG   | 0     | 1.7    | 21   | 95   |
| DIR250      | 155     | DEG   | 0     | 2.1    | 25   | 92   |
| TER 33A     | 59.1    | F     | 0     |        |      |      |
| TER 33B     | 59.3    | F     | 0     |        |      |      |
| TER150A     | 58.7    | F     | 0     |        |      |      |
| TER150B     | 58.4    | F     | 0     |        |      |      |
| TER250A     | 58.3    | F     | 0     |        |      |      |
| TER250B     | 58.1    | F     | 0     |        |      |      |
| DT150-33A   | -0.4    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.0    | F/    | 0     |        |      |      |
| DT250-33B   | -1.1    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 1.30    | INCH  | 0     | 1.02   | 1.32 | 1.30 |

06/6/01 07:30

RECORD NUMBER 1318

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 5.7     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 5.7     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 5.6     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 5.6     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 152     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 152     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 149     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 148     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 146     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.3    | F     | 0    |        |      |      |
| TER150A     | 58.3    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.1    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.6    | F/    | 0    |        |      |      |
| DT150-33B   | -0.6    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 1.60    | INCH  | 0    | 1.02   | 1.02 | 1.60 |

06/6/01 07:45

RECORD NUMBER 1319

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.2     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 5.9     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.0     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 152     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 143     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 149     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 148     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 146     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.2    | F     | 0    |        |      |      |
| TER 33B     | 59.4    | F     | 0    |        |      |      |
| TER150A     | 59.5    | F     | 0    |        |      |      |
| TER150B     | 58.7    | F     | 0    |        |      |      |
| TER250A     | 57.8    | F     | 0    |        |      |      |
| TER250B     | 57.9    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 1.80    | INCH  | 0    | 1.02   | 1.02 | 1.80 |

06/6/01 08:00

RECORD NUMBER 1320

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.3     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.4     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.5     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.4     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 138     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 139     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 137     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 133     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 136     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.3    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.6    | F     | 0    |        |      |      |
| TER150B     | 58.8    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 2.00    | INCH  | 0    | 1.02   | 1.02 | 2.00 |



06/6/01 08:15

RECORD NUMBER 1321

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 4.7     | MPH   | 0    | 1.7    | 2.7  | 6.1  |
| SPD 33B     | 4.6     | MPH   | 0    | 1.8    | 2.2  | 6.2  |
| SPD150A     | 4.9     | MPH   | 0    | 2.1    | 2.5  | 6.1  |
| SPD150B     | 4.6     | MPH   | 0    | 2.2    | 2.3  | 6.1  |
| SPD250      | 4.7     | MPH   | 0    | 2.2    | 2.7  | 6.2  |
| DIR 33A     | 134     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 134     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 129     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 138     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 137     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.6    | F     | 0    |        |      |      |
| TER150B     | 58.6    | F     | 0    |        |      |      |
| TER250A     | 58.1    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.6    | F/    | 0    |        |      |      |
| DT150-33B   | -0.6    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 2.20    | INCH  | 0    | 1.02   | 1.02 | 2.20 |

06/6/01 08:30

RECORD NUMBER 1322

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.2     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.0     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.1     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 125     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 125     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 129     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 128     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 127     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.1    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -0.9    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 2.50    | INCH  | 0    | 1.02   | 1.02 | 2.50 |

06/6/01 08:45

RECORD NUMBER 1323

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.3     | MPH   | 0    | 1.7    | 2.7  | 9.1  |
| SPD 33B     | 6.3     | MPH   | 0    | 1.8    | 2.2  | 9.2  |
| SPD150A     | 5.5     | MPH   | 0    | 2.1    | 2.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0    | 2.2    | 2.3  | 9.1  |
| SPD250      | 5.5     | MPH   | 0    | 2.2    | 2.7  | 9.2  |
| DIR 33A     | 115     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 116     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 118     | DEG   | 0    | 2.1    | 7    | 97   |
| DIR150B     | 117     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 117     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.4    | F/    | 0    |        |      |      |
| DT150-33B   | -0.4    | F/    | 0    |        |      |      |
| DT250-33A   | -0.9    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 2.70    | INCH  | 0    | 1.02   | 1.02 | 2.70 |

06/6/01 09:00

RECORD NUMBER 1324

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 5.7     | MPH   | 0    | 1.7    | 1.7  | 4.1  |
| SPD 33B     | 5.6     | MPH   | 0    | 1.8    | 1.2  | 4.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 1.5  | 4.1  |
| SPD150B     | 5.6     | MPH   | 0    | 2.2    | 1.3  | 4.1  |
| SPD250      | 5.8     | MPH   | 0    | 2.2    | 1.7  | 4.2  |
| DIR 33A     | 106     | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 106     | DEG   | 0    | 1.8    | 22   | 91   |
| DIR150A     | 108     | DEG   | 0    | 2.1    | 27   | 97   |
| DIR150B     | 107     | DEG   | 0    | 1.7    | 21   | 95   |
| DIR250      | 108     | DEG   | 0    | 2.1    | 25   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.6    | F     | 0    |        |      |      |
| TER150B     | 58.4    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 2.90    | INCH  | 0    | 1.02   | 1.02 | 2.90 |

06/6/01 09:15

RECORD NUMBER 1325

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0     | 1.7    | 2.7  | 9.1  |
| SPD 33B     | 5.9     | MPH   | 0     | 1.8    | 2.2  | 9.2  |
| SPD150A     | 6.2     | MPH   | 0     | 2.1    | 2.5  | 9.1  |
| SPD150B     | 6.0     | MPH   | 0     | 2.2    | 2.3  | 9.1  |
| SPD250      | 6.2     | MPH   | 0     | 2.2    | 2.7  | 9.2  |
| DIR 33A     | 97      | DEG   | 0     | 1.7    | 21   | 97   |
| DIR 33B     | 97      | DEG   | 0     | 1.8    | 22   | 91   |
| DIR150A     | 98      | DEG   | 0     | 2.1    | 27   | 97   |
| DIR150B     | 97      | DEG   | 0     | 1.7    | 21   | 95   |
| DIR250      | 98      | DEG   | 0     | 2.1    | 25   | 92   |
| TER 33A     | 59.0    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.4    | F     | 0     |        |      |      |
| TER150B     | 58.6    | F     | 0     |        |      |      |
| TER250A     | 58.1    | F     | 0     |        |      |      |
| TER250B     | 58.0    | F     | 0     |        |      |      |
| DT150-33A   | -0.4    | F/    | 0     |        |      |      |
| DT150-33B   | -0.6    | F/    | 0     |        |      |      |
| DT250-33A   | -1.1    | F/    | 0     |        |      |      |
| DT250-33B   | -1.0    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 3.10    | INCH  | 0     | 1.02   | 1.02 | 3.10 |

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RECORD NUMBER 1326

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX |
|-------------|---------|-------|-------|--------|------|-----|
| -----       | -----   | ----- | ----- | -----  | ---  | --- |
| SPD 33A     | 6.3     | MPH   | 0     | 1.7    | 2.7  | 8.1 |
| SPD 33B     | 6.2     | MPH   | 0     | 1.8    | 2.2  | 8.2 |
| SPD150A     | 6.5     | MPH   | 0     | 2.1    | 2.5  | 8.1 |
| SPD150B     | 6.3     | MPH   | 0     | 2.2    | 2.3  | 8.1 |
| SPD250      | 6.6     | MPH   | 0     | 2.2    | 2.7  | 8.2 |
| DIR 33A     | 88      | DEG   | 0     | 1.7    | 31   | 377 |
| DIR 33B     | 88      | DEG   | 0     | 1.8    | 32   | 91  |
| DIR150A     | 88      | DEG   | 0     | 2.1    | 37   | 97  |
| DIR150B     | 87      | DEG   | 0     | 1.7    | 31   | 95  |
| DIR250      | 88      | DEG   | 0     | 2.1    | 35   | 92  |
| TER 33A     | 59.1    | F     | 0     |        |      |     |
| TER 33B     | 58.9    | F     | 0     |        |      |     |
| TER150A     | 58.5    | F     | 0     |        |      |     |
| TER150B     | 58.7    | F     | 0     |        |      |     |
| TER250A     | 58.1    | F     | 0     |        |      |     |
| TER250B     | 58.0    | F     | 0     |        |      |     |
| DT150-33A   | -0.5    | F/    | 0     |        |      |     |
| DT150-33B   | -0.6    | F/    | 0     |        |      |     |
| DT250-33A   | -1.0    | F/    | 0     |        |      |     |
| DT250-33B   | -1.1    | F/    | 0     |        |      |     |
| DEWPOINT    | 55.7    | F     | 0     |        |      |     |
| RAIN        | 3.40    | INCH  | 0     | 1.02   | 1.02 | 3.4 |

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RECORD NUMBER 1327

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 5.7     | MPH   | 0    | 1.7    | 4.7  | 9.1  |
| SPD 33B     | 5.5     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 4.5  | 9.1  |
| SPD150B     | 5.7     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 5.9     | MPH   | 0    | 2.2    | 4.7  | 9.2  |
| DIR 33A     | 78      | DEG   | 0    | 1.7    | 21   | 97   |
| DIR 33B     | 78      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 78      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 77      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 79      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 58.9    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 3.60    | INCH  | 0    | 1.02   | 1.02 | 3.60 |

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RECORD NUMBER 1328

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 5.8     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.2     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.0     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 69      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 69      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 68      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 67      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 69      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.6    | F     | 0    |        |      |      |
| TER150B     | 58.4    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 3.80    | INCH  | 0    | 1.02   | 1.02 | 3.80 |



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RECORD NUMBER 1329

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0     | 1.7    | 4.7  | 9.1  |
| SPD 33B     | 5.9     | MPH   | 0     | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.1     | MPH   | 0     | 2.1    | 4.5  | 9.1  |
| SPD150B     | 6.1     | MPH   | 0     | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0     | 2.2    | 4.7  | 9.2  |
| DIR 33A     | 61      | DEG   | 0     | 1.7    | 31   | 97   |
| DIR 33B     | 63      | DEG   | 0     | 1.8    | 32   | 91   |
| DIR150A     | 63      | DEG   | 0     | 2.1    | 37   | 97   |
| DIR150B     | 62      | DEG   | 0     | 1.7    | 31   | 95   |
| DIR250      | 61      | DEG   | 0     | 2.1    | 35   | 92   |
| TER 33A     | 58.9    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.5    | F     | 0     |        |      |      |
| TER150B     | 58.4    | F     | 0     |        |      |      |
| TER250A     | 58.0    | F     | 0     |        |      |      |
| TER250B     | 58.1    | F     | 0     |        |      |      |
| DT150-33A   | -0.5    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.0    | F/    | 0     |        |      |      |
| DT250-33B   | -1.1    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 3.90    | INCH  | 0     | 1.02   | 1.02 | 3.90 |

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RECORD NUMBER 1330

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0     | 1.7    | 4.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0     | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.0     | MPH   | 0     | 2.1    | 4.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0     | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0     | 2.2    | 4.7  | 9.2  |
| DIR 33A     | 60      | DEG   | 0     | 1.7    | 31   | 97   |
| DIR 33B     | 62      | DEG   | 0     | 1.8    | 32   | 91   |
| DIR150A     | 64      | DEG   | 0     | 2.1    | 37   | 97   |
| DIR150B     | 61      | DEG   | 0     | 1.7    | 31   | 95   |
| DIR250      | 56      | DEG   | 0     | 2.1    | 35   | 92   |
| TER 33A     | 58.9    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.4    | F     | 0     |        |      |      |
| TER150B     | 58.5    | F     | 0     |        |      |      |
| TER250A     | 58.0    | F     | 0     |        |      |      |
| TER250B     | 58.0    | F     | 0     |        |      |      |
| DT150-33A   | -0.4    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.1    | F/    | 0     |        |      |      |
| DT250-33B   | -1.0    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 4.10    | INCH  | 0     | 1.02   | 1.02 | 4.10 |

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RECORD NUMBER 1331

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 62      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 64      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 62      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 55      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 63      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 58.9    | F     | 0    |        |      |      |
| TER150A     | 58.4    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.20    | INCH  | 0    | 1.02   | 1.02 | 0.00 |

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RECORD NUMBER 1332

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.1     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.8     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.3     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 60      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 62      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 63      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 61      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 58.9    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.4    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.30    | INCH  | 0    | 1.02   | 1.02 | 4.30 |

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RECORD NUMBER 1333

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.1     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.2     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.8     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.2     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 61      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 62      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 64      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 62      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.1    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.40    | INCH  | 0    | 1.02   | 1.02 | 4.40 |

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RECORD NUMBER 1334

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.1     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.2     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.1     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 61      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 63      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 64      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 64      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.50    | INCH  | 0    | 1.02   | 1.02 | 4.50 |

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RECORD NUMBER 1335

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 6.2     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.3     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.1     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 5.9     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 62      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 63      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 65      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 65      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.6    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.2    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.60    | INCH  | 0    | 1.02   | 1.02 | 4.60 |

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RECORD NUMBER 1336

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.2     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.3     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.9     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.0     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 5.8     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 62      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 63      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 65      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 56      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.6    | F     | 0    |        |      |      |
| TER250A     | 58.1    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.70    | INCH  | 0    | 1.02   | 1.02 | 4.70 |



06/6/01 12:15

RECORD NUMBER 1337

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.2     | MPH   | 0     | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.3     | MPH   | 0     | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.1     | MPH   | 0     | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.1     | MPH   | 0     | 2.2    | 4.3  | 9.1  |
| SPD250      | 5.9     | MPH   | 0     | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 63      | DEG   | 0     | 1.7    | 31   | 97   |
| DIR 33B     | 63      | DEG   | 0     | 1.8    | 32   | 91   |
| DIR150A     | 55      | DEG   | 0     | 2.1    | 37   | 97   |
| DIR150B     | 55      | DEG   | 0     | 1.7    | 31   | 95   |
| DIR250      | 63      | DEG   | 0     | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.5    | F     | 0     |        |      |      |
| TER150B     | 58.4    | F     | 0     |        |      |      |
| TER250A     | 58.0    | F     | 0     |        |      |      |
| TER250B     | 58.1    | F     | 0     |        |      |      |
| DT150-33A   | -0.5    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.0    | F/    | 0     |        |      |      |
| DT250-33B   | -1.1    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 4.90    | INCH  | 0     | 1.02   | 1.02 | 4.90 |

06/6/01 12:30

RECORD NUMBER 1338

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.1     | MPH   | 0     | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.2     | MPH   | 0     | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.2     | MPH   | 0     | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0     | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.0     | MPH   | 0     | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 64      | DEG   | 0     | 1.7    | 31   | 97   |
| DIR 33B     | 64      | DEG   | 0     | 1.8    | 32   | 91   |
| DIR150A     | 64      | DEG   | 0     | 2.1    | 37   | 97   |
| DIR150B     | 64      | DEG   | 0     | 1.7    | 31   | 95   |
| DIR250      | 63      | DEG   | 0     | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.5    | F     | 0     |        |      |      |
| TER150B     | 58.5    | F     | 0     |        |      |      |
| TER250A     | 58.0    | F     | 0     |        |      |      |
| TER250B     | 58.1    | F     | 0     |        |      |      |
| DT150-33A   | -0.5    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.1    | F/    | 0     |        |      |      |
| DT250-33B   | -1.0    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 4.90    | INCH  | 0     | 1.02   | 1.02 | 4.90 |

06/6/01 12:45

RECORD NUMBER 1339

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.1     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.2     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.4     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.1     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 60      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 64      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 62      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 63      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 61      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 58.9    | F     | 0    |        |      |      |
| TER 33B     | 59.1    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 4.90    | INCH  | 0    | 1.02   | 1.02 | 4.90 |

06/6/01 13:00

RECORD NUMBER 1340

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 6.0     | MPH   | 0    | 1.7    | 4.7  | 9.1  |
| SPD 33B     | 6.1     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 5.5     | MPH   | 0    | 2.1    | 4.5  | 9.1  |
| SPD150B     | 6.4     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.2     | MPH   | 0    | 2.2    | 4.7  | 9.2  |
| DIR 33A     | 55      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 64      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 63      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 62      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 64      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 58.8    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.6    | F     | 0    |        |      |      |
| TER250A     | 58.0    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.0    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 5.00    | INCH  | 0    | 1.02   | 1.02 | 5.00 |

06/6/01 13:15

RECORD NUMBER 1341

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE  | STDDEV | MIN  | MAX  |
|-------------|---------|-------|-------|--------|------|------|
| -----       | -----   | ----- | ----- | -----  | ---  | ---  |
| SPD 33A     | 6.0     | MPH   | 0     | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.1     | MPH   | 0     | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.4     | MPH   | 0     | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0     | 2.2    | 4.3  | 9.1  |
| SPD250      | 6.1     | MPH   | 0     | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 55      | DEG   | 0     | 1.7    | 341  | 67   |
| DIR 33B     | 64      | DEG   | 0     | 1.8    | 342  | 61   |
| DIR150A     | 63      | DEG   | 0     | 2.1    | 347  | 67   |
| DIR150B     | 62      | DEG   | 0     | 1.7    | 341  | 65   |
| DIR250      | 64      | DEG   | 0     | 2.1    | 345  | 62   |
| TER 33A     | 58.9    | F     | 0     |        |      |      |
| TER 33B     | 59.0    | F     | 0     |        |      |      |
| TER150A     | 58.5    | F     | 0     |        |      |      |
| TER150B     | 58.5    | F     | 0     |        |      |      |
| TER250A     | 58.0    | F     | 0     |        |      |      |
| TER250B     | 58.1    | F     | 0     |        |      |      |
| DT150-33A   | -0.4    | F/    | 0     |        |      |      |
| DT150-33B   | -0.5    | F/    | 0     |        |      |      |
| DT250-33A   | -1.0    | F/    | 0     |        |      |      |
| DT250-33B   | -1.0    | F/    | 0     |        |      |      |
| DEWPOINT    | 55.7    | F     | 0     |        |      |      |
| RAIN        | 5.00    | INCH  | 0     | 1.02   | 1.02 | 5.00 |

06/6/01 13:30

RECORD NUMBER 1342

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---  | ---  |
| SPD 33A     | 5.9     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.3     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.3     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.1     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 55      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 55      | DEG   | 0    | 1.8    | 31   | 91   |
| DIR150A     | 62      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 63      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 63      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 57.9    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 5.10    | INCH  | 0    | 1.02   | 1.02 | 5.10 |

06/6/01 13:45

RECORD NUMBER 1343

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 5.9     | MPH   | 0    | 1.7    | 3.7  | 9.1  |
| SPD 33B     | 6.0     | MPH   | 0    | 1.8    | 3.2  | 9.2  |
| SPD150A     | 6.1     | MPH   | 0    | 2.1    | 3.5  | 9.1  |
| SPD150B     | 6.2     | MPH   | 0    | 2.2    | 3.3  | 9.1  |
| SPD250      | 6.0     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 64      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 65      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 62      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 63      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 63      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.0    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 57.9    | F     | 0    |        |      |      |
| TER250B     | 58.0    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.1    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 5.10    | INCH  | 0    | 1.02   | 1.02 | 5.10 |

06/6/01 14:00

RECORD NUMBER 1344

GINNA PLANT

ORIGINAL

| SENSOR NAME | AVERAGE | UNIT  | CODE | STDDEV | MIN  | MAX  |
|-------------|---------|-------|------|--------|------|------|
| -----       | -----   | ----- | ---- | -----  | ---- | ---- |
| SPD 33A     | 5.8     | MPH   | 0    | 1.7    | 4.7  | 9.1  |
| SPD 33B     | 5.9     | MPH   | 0    | 1.8    | 4.2  | 9.2  |
| SPD150A     | 6.0     | MPH   | 0    | 2.1    | 4.5  | 9.1  |
| SPD150B     | 6.1     | MPH   | 0    | 2.2    | 4.3  | 9.1  |
| SPD250      | 5.9     | MPH   | 0    | 2.2    | 3.7  | 9.2  |
| DIR 33A     | 64      | DEG   | 0    | 1.7    | 31   | 97   |
| DIR 33B     | 65      | DEG   | 0    | 1.8    | 32   | 91   |
| DIR150A     | 61      | DEG   | 0    | 2.1    | 37   | 97   |
| DIR150B     | 63      | DEG   | 0    | 1.7    | 31   | 95   |
| DIR250      | 62      | DEG   | 0    | 2.1    | 35   | 92   |
| TER 33A     | 59.1    | F     | 0    |        |      |      |
| TER 33B     | 59.0    | F     | 0    |        |      |      |
| TER150A     | 58.5    | F     | 0    |        |      |      |
| TER150B     | 58.5    | F     | 0    |        |      |      |
| TER250A     | 57.9    | F     | 0    |        |      |      |
| TER250B     | 58.1    | F     | 0    |        |      |      |
| DT150-33A   | -0.5    | F/    | 0    |        |      |      |
| DT150-33B   | -0.5    | F/    | 0    |        |      |      |
| DT250-33A   | -1.1    | F/    | 0    |        |      |      |
| DT250-33B   | -1.0    | F/    | 0    |        |      |      |
| DEWPOINT    | 55.7    | F     | 0    |        |      |      |
| RAIN        | 5.10    | INCH  | 0    | 1.02   | 1.02 | 5.10 |



**SECTION 10.2**  
**FIELD DATA AND MAPS**

**TABLE 10.2**  
**PLUME ARRIVAL/DEPARTURE TIMES**

| <b>Distance (miles)</b> | <b>Arrival Time</b> | <b>Departure Time</b> |
|-------------------------|---------------------|-----------------------|
| 0.5                     | 11:20               | 12:50                 |
| 1                       | 11:25               | 12:55                 |
| 2                       | 11:35               | 13:05                 |
| 3                       | 11:45               | 13:15                 |
| 4                       | 11:55               | 13:25                 |
| 5                       | 12:05               | 13:35                 |
| 6                       | 12:15               | 13:45                 |
| 7                       | 12:25               | 13:55                 |
| 8                       | 12:35               | 14:05                 |
| 9                       | 12:45               | 14:15                 |
| 10                      | 12:55               | 14:25                 |
| 11                      | 13:05               | 14:35                 |
| 12                      | 13:15               | 14:45                 |
| 13                      | 13:25               | 14:55                 |
| 14                      | 13:35               | 15:05                 |
| 15                      | 13:45               | 15:15                 |
| 16                      | 13:55               | 15:25                 |
| 17                      | 14:05               | 15:35                 |
| 18                      | 14:15               | 15:45                 |
| 19                      | 14:25               | 15:55                 |
| 20                      | 14:35               | 16:05                 |
| 21                      | 14:45               | 16:15                 |
| 22                      | 14:55               | 16:25                 |
| 23                      | 15:05               | 16:35                 |
| 24                      | 15:15               | 16:45                 |
| 25                      | 15:25               | 16:55                 |

# GINNA STATION ON-SITE SURVEY MAP

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

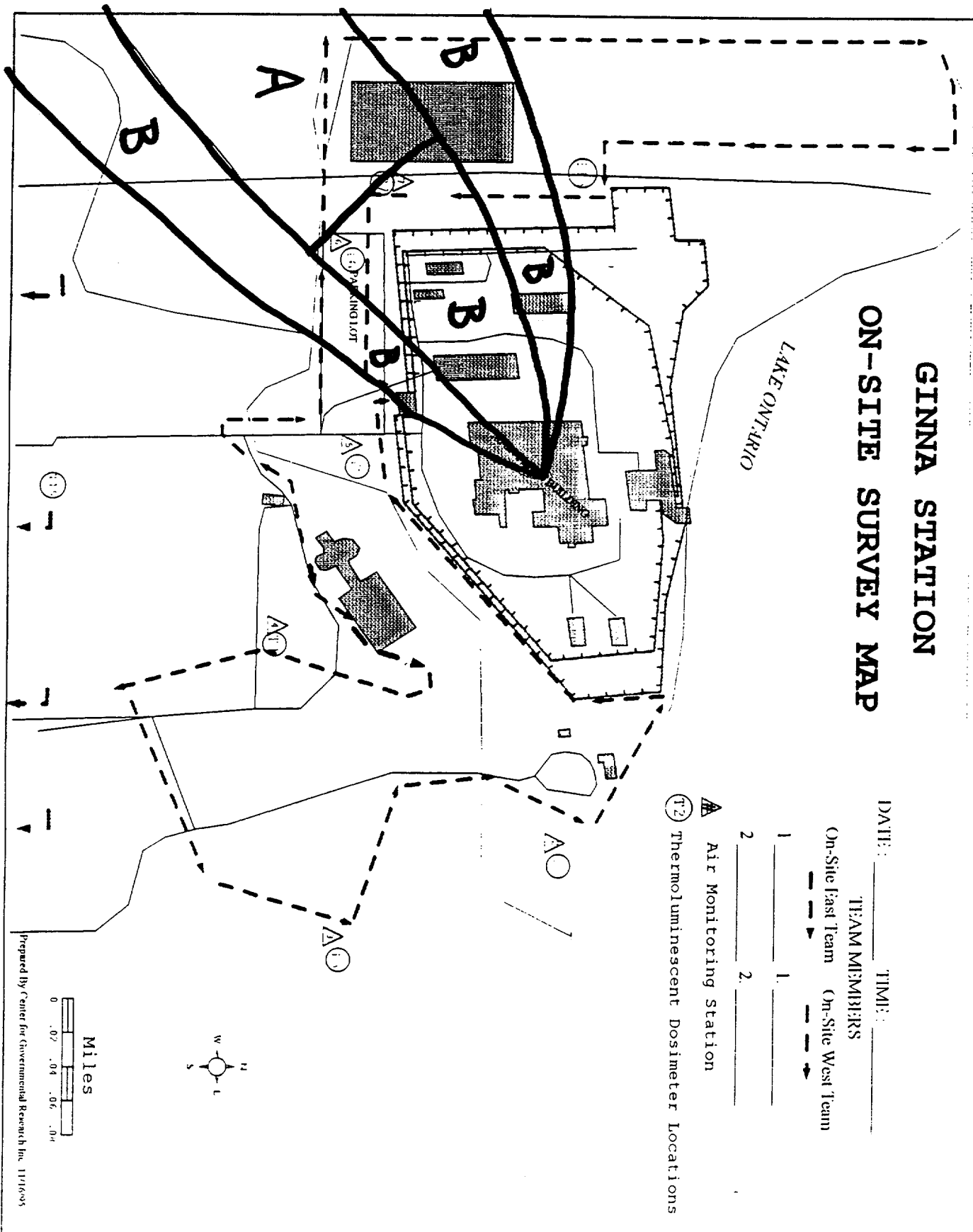
## TEAM MEMBERS

On-Site East Team    On-Site West Team

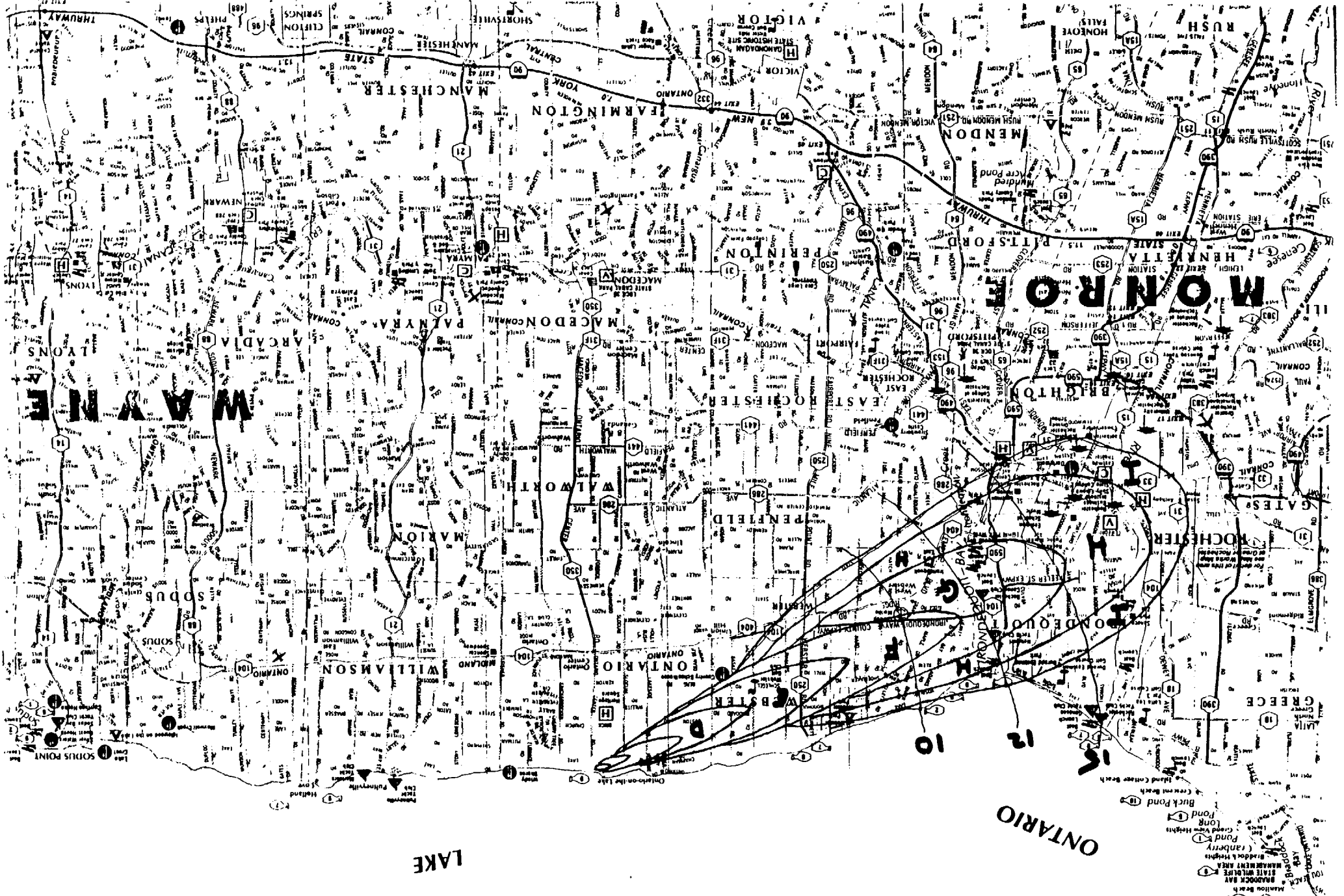
1 \_\_\_\_\_ 1 \_\_\_\_\_  
2 \_\_\_\_\_ 2 \_\_\_\_\_

▲ Air Monitoring Station

⊙ T2 Thermoluminescent Dosimeter Locations



# Finger Lakes Region of New York



**SECTION 10.3**

**FIELD AIR SAMPLE ISOTOPIC DATA**

**TABLE 10.3A**  
**RADIOLOGICAL SURVEY DATA**  
**(RG&E SURVEY TEAMS)**

| ZONE | CLOSED<br>WINDOW AT<br>3 FEET<br>(mR/hr) | CLOSED<br>WINDOW ON<br>CONTACT<br>(mR/hr) | OPEN<br>WINDOW AT<br>3 FEET<br>(mR/hr) | OPEN<br>WINDOW ON<br>CONTACT<br>(mR/hr) | DOSIMETRY<br>INCREMENT<br>EXPOSURE<br>(mREM) | IODINE<br>CARTRIDGE<br>(CPM) | PARTICULATE<br>FILTER<br>(CPM) |
|------|--|---|--|---|--|------------------------------|--------------------------------|
| A    | 46.8                                     | 46.8                                      | 75.9                                   | 75.9                                    | 10   | 105                          | 800                            |
| B    | 19.9                                     | 19.9                                      | 32.3                                   | 32.3                                    | 5  | 65                           | 350                            |
| C    | 8.05                                     | 8.05                                      | 13.1                                   | 13.1                                    | 0  | 50                           | 165                            |
| D    | 3.42                                     | 3.42                                      | 5.55                                   | 5.55                                    | 0  | 45                           | 90                             |
| E    | 1.98                                     | 1.98                                      | 3.21                                   | 3.21                                    | 0  | BKG                          | 70                             |
| F    | 1.21                                     | 1.21                                      | 1.96                                   | 1.96                                    | 0  | BKG                          | 60                             |
| G    | 0.71                                     | 0.71                                      | 1.15                                   | 1.15                                    | 0  | BKG                          | 50                             |
| H    | 0.48                                     | 0.48                                      | 0.77                                   | 0.77                                    | 0  | BKG                          | 50                             |
| I    | 0.36                                     | 0.36                                      | 0.58                                   | 0.58                                    | 0  | BKG                          | 45                             |

**NOTES:**

- 1) Dose rate readings apply to RO-20 dose rate instrument or equivalent.
- 2) Dosimeter incremental exposure assumes a 15-minute stay-time in the particular zone of interest.
- 3) Air samples assume use of RADECO H-809C air sampler or equivalent. Volume assumed is approximately 150 liters (25 lpm for 6 minutes), and field reading is with HP-260.

**TABLE 10.3B**  
**RADIOLOGICAL SURVEY DATA**  
**(COUNTY SURVEY TEAMS)**

| ZONE | CLOSED<br>WINDOW AT<br>3 FEET<br>(mR/hr) | CLOSED<br>WINDOW ON<br>CONTACT<br>(mR/hr) | OPEN<br>WINDOW AT<br>3 FEET<br>(mR/hr) | OPEN<br>WINDOW ON<br>CONTACT<br>(mR/hr) | DOSIMETRY<br>INCREMENT<br>EXPOSURE<br>(mREM) | IODINE<br>CARTRIDGE<br>(CPM) | PARTICULATE<br>FILTER<br>(CPM) |
|------|--|---|--|---|--|------------------------------|--------------------------------|
| A    | 46.8                                     | 46.8                                      | 75.9                                   | 75.9                                    | 0  | 150                          | 1,300                          |
| B    | 19.9                                     | 19.9                                      | 32.3                                   | 32.3                                    | 0  | 80                           | 560                            |
| C    | 8.05                                     | 8.05                                      | 13.1                                   | 13.1                                    | 0  | 55                           | 250                            |
| D    | 3.42                                     | 3.42                                      | 5.55                                   | 5.55                                    | 0  | 50                           | 130                            |
| E    | 1.98                                     | 1.98                                      | 3.21                                   | 3.21                                    | 0  | 45                           | 90                             |
| F    | 1.21                                     | 1.21                                      | 1.96                                   | 1.96                                    | 0  | BKG                          | 70                             |
| G    | 0.71                                     | 0.71                                      | 1.15                                   | 1.15                                    | 0  | BKG                          | 60                             |
| H    | 0.48                                     | 0.48                                      | 0.77                                   | 0.77                                    | 0  | BKG                          | 50                             |
| I    | 0.36                                     | 0.36                                      | 0.58                                   | 0.58                                    | 0  | BKG                          | 50                             |

**NOTES:**

- 1) Dose rate readings apply to RO-20 dose rate instrument or equivalent.
- 2) Dosimeter incremental exposure assumes a 15-minute stay-time in the particular zone of interest.
- 3) Air samples assume use of RADECO H-809C air sampler or equivalent. Volume assumed is approximately 250 liters (25 lpm for 10 minutes), and field reading is with E-140 and a HP-210 probe.

TABLE 10.4

**POST-PLUME SURVEY DATA  
(FOR PANCAKE PROBES IN CPM)**

| <b>ZONE</b> | <b>1 METER</b> | <b>1 CM</b> |
|-------------|----------------|-------------|
| A           | 85             | 730         |
| B           | 45             | 340         |
| C           | BKG            | 150         |
| D           | BKG            | 70          |
| E           | BKG            | 45          |
| F           | BKG            | BKG         |
| G           | BKG            | BKG         |
| H           | BKG            | BKG         |
| I           | BKG            | BKG         |

**POST-PLUME SURVEY DATA  
(FOR END WINDOW PROBES IN CPM)**

| <b>ZONE</b> | <b>1 METER</b> | <b>1 CM</b> |
|-------------|----------------|-------------|
| A           | 55             | 290         |
| B           | BKG            | 140         |
| C           | BKG            | 60          |
| D           | BKG            | BKG         |
| E           | BKG            | BKG         |
| F           | BKG            | BKG         |
| G           | BKG            | BKG         |
| H           | BKG            | BKG         |
| I           | BKG            | BKG         |

NOTE: **BKG = Use actual background reading of survey instrument being used.**



**TABLE 10.5**

**POST-PLUME SURVEY DATA  
(FOR  $\mu$ R METERS IN  $\mu$ R/HR)**

| <b>ZONE</b> | <b>1 METER</b> | <b>1 CM</b> |
|-------------|----------------|-------------|
| A           | BKG            | BKG         |
| B           | BKG            | BKG         |
| C           | BKG            | BKG         |
| D           | BKG            | BKG         |
| E           | BKG            | BKG         |
| F           | BKG            | BKG         |
| G           | BKG            | BKG         |
| H           | BKG            | BKG         |
| I           | BKG            | BKG         |

**POST-PLUME SURVEY DATA  
(FOR METERS IN millirem/HR)**

| <b>ZONE</b> | <b>1 METER</b> | <b>1 CM</b> |
|-------------|----------------|-------------|
| A           | BKG            | BKG         |
| B           | BKG            | BKG         |
| C           | BKG            | BKG         |
| D           | BKG            | BKG         |
| E           | BKG            | BKG         |
| F           | BKG            | BKG         |
| G           | BKG            | BKG         |
| H           | BKG            | BKG         |
| I           | BKG            | BKG         |

NOTE: **BKG = Use actual background reading of survey instrument being used.**

TABLE 10.6

## GROUND DEPOSITION ISOTOPIC ACTIVITY FOR SOIL SAMPLES

| ZONE | TOTAL<br>GROUND<br>ACTIVITY<br>$\mu\text{Ci}/\text{M}^2$ | I-131<br>$\mu\text{Ci}/\text{M}^2$ | I-133<br>$\mu\text{Ci}/\text{M}^2$ | CS-134<br>$\mu\text{Ci}/\text{M}^2$ | CS-137<br>$\mu\text{Ci}/\text{M}^2$ | BA-140<br>$\mu\text{Ci}/\text{M}^2$ | LA-140<br>$\mu\text{Ci}/\text{M}^2$ |
|------|--|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| A    | 7.31E-01   | 3.57E-02                           | 1.66E-01                           | 5.54E-05                            | 2.59E-05                            | 1.29E-06                            | 1.28E-06                            |
| B    | 3.42E-01   | 1.67E-02                           | 7.76E-02                           | 2.59E-05                            | 1.21E-05                            | 6.05E-07                            | 5.99E-07                            |
| C    | 1.53E-01   | 7.48E-03                           | 3.47E-02                           | 1.16E-05                            | 5.43E-06                            | 2.70E-07                            | 2.68E-07                            |
| D    | 7.14E-02   | 3.49E-03                           | 1.62E-02                           | 5.41E-06                            | 2.53E-06                            | 1.26E-07                            | 1.25E-07                            |
| E    | 4.39E-02   | 2.15E-03                           | 9.96E-03                           | 3.33E-06                            | 1.56E-06                            | 7.76E-08                            | 7.69E-08                            |
| F    | 2.88E-02   | 1.41E-03                           | 6.54E-03                           | 2.19E-06                            | 1.02E-06                            | 5.10E-8                             | 5.05E-08                            |
| G    | 1.84E-02   | 9.00E-04                           | 4.17E-03                           | 1.40E-06                            | 6.53E-07                            | 3.25E-08                            | 3.23E-08                            |
| H    | 1.32E-02   | 6.47E-04                           | 3.00E-03                           | 1.00E-06                            | 4.69E-07                            | 2.34E-08                            | 2.32E-08                            |
| I    | 1.04E-02   | 5.10E-04                           | 2.37E-03                           | 7.91E-07                            | 3.70E-07                            | 1.84E-08                            | 1.83E-08                            |

**NOTE:** To convert to  $\mu\text{Ci}/\text{Kg}$ , use the following factors:

| <u>Soil Sample Depth</u> | <u>Conversion</u>              |
|--------------------------|--------------------------------|
| 1 cm                     | $\mu\text{Ci}/\text{M}^2$ /20  |
| 2.5 cm                   | $\mu\text{Ci}/\text{M}^2$ /50  |
| 5 cm                     | $\mu\text{Ci}/\text{M}^2$ /100 |

TABLE 10.7A

## AIR FILTER ISOTOPIC ACTIVITY

| ZONE | TOTAL<br>PARTICULATE<br>FILTER<br>ACTIVITY<br>$\mu\text{Ci/cc}$ | I-131<br>$\mu\text{Ci/cc}$ | I-132<br>$\mu\text{Ci/cc}$ | I-133<br>$\mu\text{Ci/cc}$ | I-134<br>$\mu\text{Ci/cc}$ | I-135<br>$\mu\text{Ci/cc}$ | Rb-88<br>$\mu\text{Ci/cc}$ | Cs-134<br>$\mu\text{Ci/cc}$ | Cs-137<br>$\mu\text{Ci/cc}$ |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| A    | 1.08E-07  | 6.53E-12                   | 2.58E-11                   | 5.93E-11                   | 8.26E-12                   | 6.64E-09                   | 1.12E-10                   | 4.79E-11                    | 2.24E-11                    |
| B    | 4.60E-08  | 2.78E-12                   | 1.10E-11                   | 2.52E-11                   | 3.52E-12                   | 2.83E-09                   | 4.78E-11                   | 2.04E-11                    | 9.56E-12                    |
| C    | 1.86E-08  | 1.12E-12                   | 4.44E-12                   | 1.02E-11                   | 1.42E-12                   | 1.14E-09                   | 1.93E-11                   | 8.25E-12                    | 3.86E-12                    |
| D    | 7.89E-09  | 4.78E-13                   | 1.89E-12                   | 4.33E-12                   | 6.04E-13                   | 4.85E-10                   | 8.20E-12                   | 3.50E-12                    | 1.64E-12                    |
| E    | 4.55E-09  | 2.76E-13                   | 1.09E-12                   | 2.50E-12                   | 3.49E-13                   | 2.80E-10                   | 4.73E-12                   | 2.02E-12                    | 9.47E-13                    |
| F    | 2.78E-09  | 1.69E-13                   | 6.66E-13                   | 1.53E-12                   | 2.13E-13                   | 1.71E-10                   | 2.89E-12                   | 1.24E-12                    | 5.79E-13                    |
| G    | 1.64E-09  | 9.93E-14                   | 3.92E-13                   | 9.01E-13                   | 1.26E-13                   | 1.01E-11                   | 1.71E-12                   | 7.29E-13                    | 3.41E-13                    |
| H    | 1.10E-09  | 6.66E-14                   | 2.63E-13                   | 6.05E-13                   | 8.43E-14                   | 6.77E-11                   | 1.14E-12                   | 4.89E-13                    | 2.29E-13                    |
| I    | 8.31E-10  | 5.03E-14                   | 1.99E-13                   | 4.56E-13                   | 6.36E-14                   | 5.11E-11                   | 8.64E-13                   | 3.69E-13                    | 1.73E-13                    |

TABLE 10.7B

IODINE CARTRIDGE ISOTOPIC ACTIVITY

| ZONE | TOTAL<br>IODINE<br>CARTRIDGE<br>ACTIVITY<br>$\mu\text{Ci/cc}$ | I-131<br>$\mu\text{Ci/cc}$ | I-132<br>$\mu\text{Ci/cc}$ | I-133<br>$\mu\text{Ci/cc}$ | I-134<br>$\mu\text{Ci/cc}$ | I-135<br>$\mu\text{Ci/cc}$ |
|------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A    | 2.48E-07  | 3.11E-09                   | 2.35E-08                   | 1.52E-08                   | 4.13E-08                   | 2.46E-08                   |
| B    | 1.05E-07  | 1.33E-09                   | 9.99E-09                   | 6.47E-09                   | 1.76E-08                   | 1.05E-08                   |
| C    | 4.26E-08  | 5.35E-10                   | 4.04E-09                   | 2.61E-09                   | 7.11E-09                   | 4.23E-09                   |
| D    | 1.81E-08  | 2.27E-10                   | 1.71E-09                   | 1.11E-09                   | 3.02E-09                   | 1.80E-09                   |
| E    | 1.04E-08  | 1.31E-10                   | 9.90E-10                   | 6.41E-10                   | 1.74E-09                   | 1.04E-09                   |
| F    | 6.39E-09  | 8.03E-11                   | 6.05E-10                   | 3.92E-10                   | 1.07E-09                   | 6.34E-10                   |
| G    | 3.76E-09  | 4.73E-11                   | 3.57E-10                   | 2.31E-10                   | 6.28E-10                   | 3.74E-10                   |
| H    | 2.53E-09  | 3.17E-11                   | 2.39E-10                   | 1.55E-10                   | 4.21E-10                   | 2.51E-10                   |
| I    | 1.91E-09  | 2.40E-11                   | 1.81E-10                   | 1.17E-10                   | 3.18E-10                   | 1.89E-10                   |