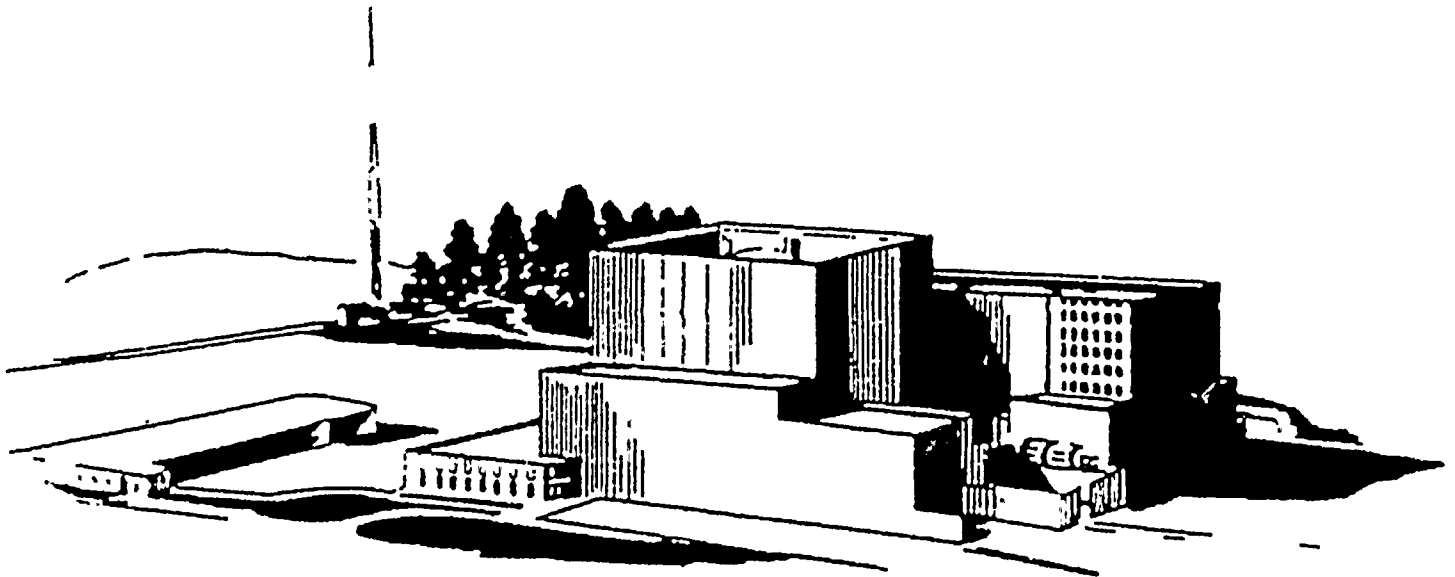




ROCHESTER GAS AND ELECTRIC CORPORATION

Robert E. Ginna Nuclear Station

Plume Exposure Exercise  
December 6, 1995



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PART I

GENERAL INFORMATION



THE ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

EMERGENCY PREPAREDNESS EXERCISE MANUAL

1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

DECEMBER 6, 1995

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

# ROCHESTER GAS AND ELECTRIC CORPORATION

## GINNA STATION

### 1995 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 December 1995, Emergency Preparedness Exercise.





# THE ROCHESTER GAS AND ELECTRIC CORPORATION, GINNA STATION

## 1995 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.

# 1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

## SCENARIO DEVELOPMENT COMMITTEE

Jim Zulawski  
Peter Polfleit  
Jim Reagan  
Bill Everett  
Frank Cordaro  
Tom Alexander

# GINNA STATION

## 1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

### TABLE OF CONTENTS

FOREWORD  
INTRODUCTION  
LIST OF LATERES  
SCENARIO DEVELOPMENT COMMITTEE  
TABLE OF CONTENTS  
LIST OF FIGURES

#### **1.0     SCOPE AND OBJECTIVES**

- 1.1     Scope
- 1.2     Onsite Objectives
- 1.3     Summary of Proposed Activities
- 1.4     Offsite Objectives - Attachment A
- 1.5     Offsite Proposed Activities - Attachment A

#### **2.0     EXERCISE INFORMATION**

- 2.1     Exercise Participants
- 2.2     Exercise Organization
- 2.3     Emergency Response Facilities
- 2.4     Exercise Conduct
- 2.5     Precautions and Limitations
- 2.6     Evaluation and Critique

#### **3.0     TRAVEL INFORMATION**

- 3.1     Directions to Ginna Station
- 3.2     Directions to EOF, ESC and JENC
- 3.3     Accommodations

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

- 4.1     References
- 4.2     Abbreviations-Acronyms

#### **5.0     CONTROLLER AND EVALUATOR INFORMATION**

- 5.1     Controller Instructions
- 5.2     Evaluation Instructions
- 5.3     Personnel Assignments
- 5.4     Evaluation Packages
- 5.5     Public Information, Rumor Control & Spouse Phone Questions
- 6.0     SCHEDULE OF EVENTS

## GINNA STATION

### 1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

#### TABLE OF CONTENTS (Cont'd)

#### 7.0 EXERCISE SCENARIO

- 7.1 Initial Conditions
- 7.2 Onsite Sequence of Events

#### 8.0 MESSAGE FORMS AND PLANT DATA SHEETS

#### 9.0 ON-SITE RADIOLOGICAL AND CHEMISTRY DATA

- 9.1 Radiological Summary
- 9.2 In-Plant Radiation Data
- 9.3 Post-Accident Sampling Results

#### 10.0 METEOROLOGICAL AND OFF-SITE RADIOLOGICAL DATA

- 10.1 Meteorological Data
- 10.2 Field Data and Maps
- 10.3 Field Air Isotopic Data

# GINNA STATION

## 1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

### TABLE OF CONTENTS (Cont'd)

#### LIST OF FIGURES

##### SECTION 3.0

- Figure 3.1 Directions to Ginna Station
- Figure 3.2 Map of Rochester and Vicinity
- Figure 3.3 Map of Rochester Central Business District
- Figure 3.4 Directions to State and Emergency Operations Center, Albany
- Figure 3.5 Map of State Office Building Campus, Albany

##### SECTION 9.0

- Figure 9.1 Assumed Source Term
- Figure 9.2 Plant Vent Concentrations Vs Time
- Figure 9.3 Primary Coolant Activity Vs Time
- Figure 9.4 Containment Radiation Level Vs Time
- Figure 9.5 In-Plant Survey Maps

##### SECTION 10.0

- Figure 10.1 Direction of Plume
- Figure 10.2 Plume Map (0-1 Mile)
- Figure 10.3 Large Plume Map (0-10 Mile)

# GINNA STATION

## 1995 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

### TABLE OF CONTENTS (Cont'd)

#### LIST OF TABLES

##### SECTION 1.0

Table 1.1	Proposed Onsite Activities
-----------	----------------------------

##### SECTION 5.0

Table 5.1	RG&E Onsite Controller Organization
-----------	-------------------------------------

##### SECTION 9.0

Table 9.1	Assumed Release Quantities (Plant Vent)
Table 9.2	Equilibrium Reactor Coolant Activity
Table 9.3	Post-Accident Reactor Coolant Samples (Gas)
Table 9.4	Post-Accident Reactor Coolant Samples (De-Gassed)
Table 9.5	Post-Accident Containment Sump Samples
Table 9.6	Post-Accident Containment Air Samples
Table 9.7	Hydrogen Concentrations
Table 9.8	Boron, pH
Table 9.9	Continuous Air Monitor Readings (Auxiliary Building)

##### SECTION 10.0

Table 10.1	Forecast Information
Table 10.2	Plume Arrival/Departure Times
Table 10.3	Radiological Survey/Sampling Data (In Plume)
Table 10.4	Post-Plume Ground Survey Data (cpm)
Table 10.5	Post-Plume Micro-R/hr Data
Table 10.6	Ground Data Isotopic Activity for Soil Samples

## SECTION 1.0

### SCOPE AND OBJECTIVES



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

1.1 **Scope**

The 1995 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 1995 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. Within this overall objective, numerous individual objectives are specified as follows:

1.2.1 Demonstrate the ability to mobilize, staff and activate Emergency Response Facilities promptly.

1.2.2 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).

✓1.2.3 Demonstrate the ability to make decisions and to coordinate emergency activities.

1.2.4 Demonstrate the adequacy of facilities and displays and the utilization of procedures to support emergency operations.

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

1.2.6 Demonstrate the ability to mobilize and deploy Radiation Survey Teams.

1.2.7 Demonstrate the appropriate equipment and procedures for determining ambient radiation levels.

- 1.2.8 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.
- 1.2.9 Demonstrate the availability of appropriate equipment and procedures for the collection of environmental samples.
- ✓1.2.10 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.
- \*1.2.11 Demonstrate the ability to notify offsite officials and agencies within 15 minutes of declaration of an emergency.
- \*1.2.12 Demonstrate the ability to periodically update offsite officials and agencies of the status of the emergency based on data available at Ginna Station.
- 1.2.13 Demonstrate the ability to notify emergency support pools as appropriate (i.e., INPO, ANI, etc.).
- 1.2.14 Demonstrate the ability to notify onsite personnel using Plant alarms and public address systems.
- 1.2.15 Demonstrate the ability to effectively assess incident conditions and to properly classify the incident.
- 1.2.16 Demonstrate the organizational ability and resources necessary to manage an accountability of personnel within the restricted area.
- 1.2.17 Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of restricted area personnel.
- 1.2.18 Demonstrate the organizational ability and resources necessary to control access to the site.
- 1.2.19 Demonstrate the ability to continuously monitor and control emergency workers' exposure.
- 1.2.20 Demonstrate the adequacy of facilities and displays to support the Joint Emergency News Center operations.

- 1.2.21 Demonstrate the ability to brief the media in a clear, accurate, and timely manner.
- 1.2.22 Demonstrate the ability to provide advanced coordination of information released to the public.
- 1.2.23 Demonstrate the ability to establish and operate rumor control in a coordinated fashion.
- 1.2.24 Demonstrate the adequacy of in-plant post-accident sampling techniques and analysis.
- 1.2.25 Demonstrate the ability to develop proposed short term and long term actions to support Plant recovery.
- 1.2.26 Demonstrate the adequacy of alternative actions taken in the event of a power failure in a principal emergency response facility.
- 1.2.27 Demonstrate the adequacy of measures taken to correct principal findings and observations identified during the previous exercise.
- \*1.2.28 Demonstrate the ability to conduct a post-exercise critique which adequately characterizes licensee performance based upon controller and observer assessments.

Note: ✓ = Open items from NRC inspection number 50-244/93-18

\* = Items identified by RG&E at 11/94 exercise critique.

### 1.3 Summary of Proposed Activities

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



TABLE 1.1

**1994 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
EPZ Siren Activation	N/A
Route Alerting	N/A
EBS Message Broadcast	N/A
Dispatch Field Survey Teams	Actual-5*
Exchange of Field Data	Actual*
Reception Center Setup	N/A
Congregate Care Center	N/A
School Bus Run	N/A
General Population	N/A
Traffic Control Points	N/A
Road Impediments	N/A
Coast Guard (notify only)	N/A
Mobility Impaired	N/A

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

## SIMULATIONS

- o 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 Health Physics and Chemistry personnel according to postulated scenario plant conditions.
- o 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.

### 1.4 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 Federal Emergency Management Agency, 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  
1995 FULL SCALE EXERCISE

SECTION 1

OFFSITE OBJECTIVES AND EXTENT OF PLAY  
ROBERT E. GINNA NUCLEAR POWER PLANT  
1995 FULL SCALE EXERCISE  
OFFSITE OBJECTIVES AND EXTENT OF PLAY

**OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL.** Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

**Locations:** SEOC, EOF, JENC, MCEOC, WCEOC, MCFA, WCFA

**Extent of Play:**

Emergency personnel will be mobilized and emergency facilities activated as they would be in an actual emergency with the exception of the State staff in the JENC, EOF and EOC who will arrive no sooner than 30 minutes after the Alert declaration is received over the RECS line. See Section 3, Response by Facility/Team, for staffing limitations for Field Monitoring Teams, Reception Center, Congregate Care Center, Personnel Monitoring Center, bus routes, and Traffic Control Points.

**ARCAs:** None

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

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

**Locations:** SEOC, EOF, JENC, MCEOC, WCEOC, MCFA, WCFA

**Extent of Play:**

Facilities, equipment and displays will be set-up and used as they would in an actual emergency. See Section 3, Response by Facility/Team, for set-up limitations for the Reception Center, Congregate Care Center and Personnel Monitoring Center.

**ARCAs:** JENC-1

Sept 1, 1995





**OBJECTIVE 3: DIRECTION AND CONTROL.** Demonstrate the capability to direct and control emergency operations.

**Locations:** SEOC, EOF, JENC, MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

Direction and control will be demonstrated as they would in an actual emergency.

**ARCAs:** None

**OBJECTIVE 4: COMMUNICATIONS.** Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

**Locations:** SEOC, EOF, JENC, MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

Communications systems will be demonstrated as they would in an actual emergency.

**ARCAs:** None

**OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL.** Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

**Locations:** SEOC, EOF, JENC, MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

A controller inject will cause the County Radiological Officer and each County Field Monitoring Team to discuss actions for exposure rate in excess of the turn-back value. The term *exposure limit* is used by all other emergency workers.

**ARCAs:** None

Sept 1, 1995

**OBJECTIVE 6: FIELD RADIOLOGICAL MONITORING.** Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

**Locations:** MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

- Each County will dispatch one Field Monitoring Team. Each team will take radiation measurements, some of which may be the same locations, but at different times in the scenario. The teams will not suit up in anti-contamination clothing, however, one member will suit up at FEMA'S request at the dispatch point or PMC.

**ARCAs:** MCFA-1

**OBJECTIVE 7: PLUME DOSE PROJECTION.** Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

**Locations:** SEOC (Only if the governor declares a State of Emergency.), MCEOC, WCEOC

**Extent of Play:**

Dose projections and protective action recommendations will be demonstrated as they would in an actual emergency.

**ARCAs:** WCEOC-1, WCEOC-2, WCEOC-3

Sept 1, 1995

**OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING.** Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as  $10^{-7}$  (0.000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

**Locations:** MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

Silver zeolite cartridges will be used. The teams will not suit up in anti-contamination clothing, however, one member may suit up at FEMA's request. County EOC staff and the Field Monitoring Teams can be questioned regarding procedures and resources to transport samples to a central point for transfer to the State laboratory (Albany). There will be no transport of samples to either the transfer point or the State laboratory (Albany).

**ARCAs:** None

**OBJECTIVE 9: PLUME PROTECTION ACTION DECISION MAKING.** Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

**Locations:** SEOC (Only if the governor declares a State of Emergency.), MCEOC, WCEOC

**Extent of Play:**

Protective action decision making will be demonstrated as it would in an actual emergency.

**ARCAs:** None

Sept 1, 1995



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

**Locations:** SEOC (Only if the governor declares a State of Emergency.), JENC, MCEOC, WCEOC, WHAM

**Extent of Play:**

EBS messages will be developed and sent to WHAM. There will be no broadcast of EBS messages. In addition, siren and tone alert activations will be simulated. Back-up route alerting of one route (selected by the FEMA evaluator) will be discussed at the County EOC.

**ARCAs:** JENC-2

**OBJECTIVE 11: PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION.** Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

**Locations:** SEOC (Only if the governor declares a State of Emergency.), JENC, MCEOC, WCEOC

**Extent of Play:**

EBS messages will be formulated and simulated to be disseminated as they would in an actual emergency. There will be only one (1) simulation of airing of the EBS message. This will be the first EBS message. The last time to be recorded (clock stopped) is the time at which the EBS message begins to be broadcast (first 3 words read of the talk-up after "this is a drill").

**ARCAs:** None

Sept 1, 1995

**OBJECTIVE 12: EMERGENCY INFORMATION - MEDIA.** Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

**Locations:** JENC

**Extent of Play:**

Information will be developed and disseminated to the media as it would in an actual emergency.

**ARCAs:** None

**OBJECTIVE 13: EMERGENCY INFORMATION - RUMOR CONTROL.** Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

**Locations:** JENC

**Extent of Play:**

Rumor control will be demonstrated as it would in an actual emergency. Rumor control staff will be limited to four individuals.

**ARCAs:** None

Sept 1, 1995

**OBJECTIVE 14: IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC.** Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.

**Locations:** SEOC, MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

In accordance with the State and County plans, KI is not provided to the general public. The State and County dose assessment groups discuss the need to authorize the administration of KI. Emergency workers in the EPZ at risk of exposure to radioactive iodine will be issued KI along with their dosimetry prior to dispatch to the field.

**ARCAs:** None

**OBJECTIVE 15: IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS.** Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

**Locations:** MCEOC, WCEOC

**Extent of Play:**

Call lists will be available at the County EOC for special facilities and for the non-institutionalized hearing impaired and mobility impaired individuals. All calls will be simulated. One general population bus route will be demonstrated. The bus driver will assemble at the normal dispatch location for briefing, assignment and dispatch. The bus, or similarly equipped vehicle, will complete the assigned routes but will not make any stops. The route will be completed after the last pickup point and a discussion of the route to be taken to the Reception Center at which time the bus and driver will be returned to service following contact with the County EOC.

**ARCAs:** None

Sept 1, 1995

**OBJECTIVE 16: IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS.** Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

**Locations:** MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

One bus route will be demonstrated in each county. The bus driver will assemble at the normal dispatch location for briefing, assignment and dispatch. The bus, or similarly equipped vehicle, will complete the assigned routes but will not make any stops. The routes will be completed after arrival at the school and a discussion of the route to be taken to the Reception Center at which time the bus and driver will be released following contact with the County EOC. School interviews will be performed prior to the exercise in coordination with Monroe and Wayne Counties.

**ARCAs:** None

**OBJECTIVE 17: TRAFFIC AND ACCESS CONTROL.** Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.

**Locations:** MCEOC, MCFA, WCEOC, WCFA

**Extent of Play:**

This demonstration will be comprised of two parts: 1) Decision making at the EOC, 2) Interview of law enforcement officials at the location designated by each county.

At the EOC Traffic Control Points are to be free played in sequence with the exercise scenario. Free play messages are to be inserted at the County EOC to the State Controller. Information will be passed on to the County Emergency Management Director or her designee for action and simulated dispatching of police officers.

The interviews of law enforcement will be conducted out of sequence with the exercise scenario.

**ARCAs:** None

**OBJECTIVE 18: RECEPTION CENTER - MONITORING, DECONTAMINATION, AND REGISTRATION.** Demonstrate the adequacy of procedures, facilities, equipment, and

Sept 1, 1995



personnel for the radiological monitoring, decontamination, and registration of evacuees.

**Locations:** Monroe County: Pittsford-Mendon High School  
Wayne County: Palmyra-Macedon High School

**Extent of Play:**

**NOTE:**SEMO, Wayne County, Monroe County and FEMA have agreed that the reception centers will be demonstrated under the following schedule:

Wayne County - 12/6/95 \_\_\_\_\_ between 1830 and 2030)

Monroe County - 11/08/95 \_\_\_\_\_ between 1400 and 1630

It will be the responsibility of FEMA to have evaluators available at the times agreed upon. FEMA evaluators should advise the participants when their evaluation is complete so that participants can resume their normal duties. Vehicle monitoring and decontamination will be observed first by FEMA evaluators.

The Reception Center at Pittsford-Mendon High School in Monroe County and the Reception Center at the Palmyra-Macedon High School in Wayne County will be demonstrated out of sequence with the scenario. The facility is staffed with enough equipment and personnel to monitor 20% of the EPZ population (as defined in the plan) in 12 hours. Reception centers will not be setup in advance. Please note that Federal evaluators may not use a hidden source (such as lantern mantle) to test the skills of the monitors. The demonstration will be limited to include:

Monroe County

- One vehicle monitoring station with at least 1 monitor monitoring at least 2 vehicles;
- One portal monitoring station monitoring at least 6 individuals;
- One registration station (social services) with 2 personnel registering at least 2 individuals each;
- One male and one female decon station with 2 monitors (one each) to simulate at least 1 personnel decon each;
- One vehicle decon station with at least 1 monitor to simulate at least 2 vehicle decons.

Sept 1, 1995

Wayne County

- One vehicle monitoring station with at least 1 monitor monitoring at least 2 vehicles;
- One portal monitoring station monitoring at least 6 individuals;
- One registration station (social services) with 2 personnel registering at least 2 individuals each;
- One decon station (male or female) with 2 monitors will be set-up during the exercise to simulate at least 1 personnel decon each;
- One vehicle decon station with at least 1 monitor to simulate at least 2 vehicle decons.

Other staff will be demonstrated through the use of rosters. Evacuees, some of which will be contaminated using controller inject messages, will be simulated by members of the facility staff. The facility will be set up as it would be in an actual emergency with all route markings and contamination control measures in place with the exception that Reception Center floors will not be covered with paper/plastic. Monitors will not suit up in anti-contamination clothing although one monitor may suit up at FEMA's request.

ARCAs:      None

Sept 1, 1995

**OBJECTIVE 19: CONGREGATE CARE.** Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.

**Locations:** Monroe County: Pittsford-Mendon High School  
Wayne County: Palmyra-Macedon Middle School

**Extent of Play:**

**NOTE:** SEMO, Wayne County, Monroe County and FEMA have agreed that the congregate care will be demonstrated under the following schedule:

Wayne County - 12/6/95 between 1830 and 2030

Monroe County - 11/08/95 between 1400 and 1630

It will be the responsibility of FEMA to have evaluators available at the times agreed upon. FEMA evaluators should advise the participants when their evaluation is complete so that participants can resume their normal duties.

The facility will be demonstrated out of sequence with the scenario by a walkthrough of the facility with the Shelter Manager, Registrar and one support staff. The facility will not be set up nor will equipment and supplies be brought to the center. Center personnel will make estimates of supplies required for the potential evacuees.

**ARCAs:** None

**OBJECTIVE 20: MEDICAL SERVICES-TRANSPORTATION.** Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or exposed individuals.

**Locations:** Monroe County: Monroe Community College

**Extent of Play:**

An ambulance crew and one (1) monitor will be stationed at the Reception Center in sequence with the scenario. An individual with a simulated injury and contamination will be presented. The individual will be surveyed, administered first aid and placed in the ambulance. The drill will end when the vehicle is ready to depart with the victim. Communications will be simulated and include information relative to ETA, patient status, etc. This objective was demonstrated out of sequence on June 7, 1995.

**ARCAs:** None

Sept 1, 1995

**OBJECTIVE 21: MEDICAL SERVICES - FACILITIES.** Demonstrate the adequacy of equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.

**Locations:** Monroe County: Rochester General Hospital

**Extent of Play:**

This drill was demonstrated out of sequence from the exercise on June 7, 1995 at Rochester General Hospital.

**ARCAs:** None

**OBJECTIVE 22: EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION.** Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment, and vehicles.

**Locations:** Monroe County: Culver Road Armory  
Wayne County: Wayne County Highway Department Garage in Lyons

**Extent of Play:**

The Personnel Monitoring Centers (PMC) at the Culver Road Armory in Monroe County and at the Highway Department Facilities in Wayne County will be demonstrated out of sequence with the scenario. A controller will provide simulated contamination levels to drive demonstration of the various activities. The demonstration will be limited to include:

- One station for vehicle monitoring with at least 1 monitor monitoring at least 2 vehicles;
- One personnel monitoring station to monitor at least 2 individuals;
- One personnel decon station with 1 monitor to simulate at least 2 personnel decons.
- One vehicle decon station with at least 1 monitor to simulate at least 1 vehicle decon.

Other staff will be demonstrated through the use of rosters. Contaminated individuals will be simulated by members of the facility staff. The facility will be set up as it would be in an actual emergency with all route markings and contamination control measures in place with the exception that PMC floors will not be covered with paper/plastic. Monitors will not suit up in anti-contamination clothing although one monitor may suit up at FEMA's request.

**ARCAs:** None

**The following objectives are not included in this revision in that they have**

Sept 1, 1995

been demonstrated previously and will not be demonstrated during this exercise.

OBJECTIVE 23: SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER). Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 24: POST-EMERGENCY SAMPLING. Demonstrate the use of equipment and procedures for the collection and transportation of samples from areas that received deposition from the airborne plume.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 25: LABORATORY OPERATIONS. Demonstrate laboratory operations and procedures for measuring and analyzing samples.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 26: INGESTION EXPOSURE PATHWAY - DOSE PROJECTION AND PROTECTIVE ACTION DECISION MAKING. Demonstrate the capability to project dose to the public for the ingestion exposure pathway and to recommend protective actions.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 27: INGESTION EXPOSURE PATHWAY - DOSE PROTECTIVE ACTION IMPLEMENTATION. Demonstrate the capability to implement protective actions for the ingestion exposure pathway.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 28: RELOCATION, RE-ENTRY, AND RETURN - DECISION MAKING. Demonstrate the capability to develop decisions on relocation, re-entry, and return.

Date demonstrated 7/15/93 Next year required for demonstration 1999

OBJECTIVE 29: RELOCATION, RE-ENTRY, AND RETURN - IMPLEMENTATION. Demonstrate the capability to implement relocation, re-entry, and return.

Date demonstrated 7/15/93 Next year required for demonstration 1999

Sept 1, 1995

**OBJECTIVE 30: CONTINUOUS, 24-HOUR STAFFING.** Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change.

Date demonstrated 11/17/93 Next year required for demonstration 1999

**OBJECTIVE 31: OFFSITE SUPPORT FOR THE EVACUATION OF ONSITE PERSONNEL.** Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.

Date demonstrated 11/17/93 Next year required for demonstration 1999

**OBJECTIVE 32: UNANNOUNCED EXERCISE OR DRILL.** Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill.

Date demonstrated 9/12/90 Next year required for demonstration 1996

**OBJECTIVE 33: OFF-HOURS EXERCISE OR DRILL.** Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill.

Date demonstrated 9/12/90 Next year required for demonstration 1996

Sept 1, 1195

## 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 (RSTs)
2. First Aid Team (if necessary)
3. Emergency OSC Teams
4. Security Force
5. Post Accident Sampling System (PASS) Team
6. Chemistry/Health Physics 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
2. Monroe County
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" to the designated Players at various times and places during the Exercise, inject or deliver additional messages as may be required to initiate the appropriate Player response and keep the Exercise action moving according to the scenario and Exercise objectives, observe the Exercise participants at their assigned locations, and prepare evaluation forms. Controllers/Observers submit written recommendations on corrective actions 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 with a list of instructions in the Exercise scenario.
- C. Persons designated as Controllers/Observers for a given function will also be assigned as Evaluators of that function when feasible. Evaluators will record their observations using an evaluation form and provide recommendations on corrective actions to the Lead Controller in whose facility they evaluate exercise performance on the basis of standards or requirements contained in the appropriate Emergency Plan, Implementing Procedures, and Exercise messages as described herein. They will take steps, whenever possible, to collect data on the time and motion aspects of the activity observed for post-Exercise use for implementing improvements.

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

2.2.3 Players 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. Players from offsite organizations and agencies (county, State and private industry) are participants in the Exercise as 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 blue badges.

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

### 2.3

#### Emergency Response Facilities

During the Exercise, special facilities must be activated to manage, assess and support emergency response.

## **RG&E FACILITIES**

The Rochester Gas and Electric Corporation Emergency Response Facilities are:

### **A. Simulator Control Room**

The Ginna Simulator Control Room will be used. Control Room emergency response measures will be exercised under the direction of the Exercise Shift Supervisor, acting as the Emergency Coordinator, until relieved by the Plant Superintendent or alternate. 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 Control Room to the TSC, located off the Mezzanine Level of the Turbine Building. The TSC Director relieves the Shift Supervisor as Emergency Coordinator and directs activities from the TSC. The TSC is the location from which technical management personnel utilize information on Plant status provided in the TSC to support actions being performed in the Control Room. 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 located in the TSC, provides a location where emergency response teams can be assembled and coordinated during an emergency. The OSC will be activated for emergency conditions classified as an Alert or higher, and may be activated for an Unusual Event at the discretion of the Emergency Coordinator.

**D. 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 a Site Area Emergency or General Emergency (optional for the Alert status). 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.

**E. 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, Site Area Emergency or General Emergency.



## **2.4      Exercise Conduct**

### **2.4.1      Overview**

The Exercise will simulate an abnormal radiological incident at Ginna Station which will start with an Unusual Event and escalate to a General Emergency.

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 which will require deployment of Ginna Station, and 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 of the appropriate Emergency Plans and Implementing Procedures. The simulated emergency will then de-escalate. The Recovery Phase will be initiated and the Exercise will then be terminated.

### **2.4.2      Actions**

Emergency response actions during the simulated emergency will include: recognition and classification of emergency conditions; assessment of onsite/offsite radiological consequences; alert/notification and mobilization of emergency response organizations; implementation of in-Plant corrective actions; activation/operation of emergency response facilities and equipment; preparation of reports, messages and record-keeping; and recommendation of protective actions.



### 2.4.3

#### Communications

The Exercise will also demonstrate the effective use of communications systems. An actual emergency operation usually requires the extensive use of both telephone and radios. The telephone is the primary means of communication and will be attempted first, with radio as a backup, unless radio is the only means available. Separate telephone numbers will be used for Controller communications to prevent the Players from learning in advance of the situation to which they are to be subjected during the Exercise. Close cooperation and coordination among Controllers is essential due to the number of persons assigned to the Controller role.

RG&E offsite 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, TSC, EOF, JENC and County EOCs. Only Lead Controllers can 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. Simulated Plant parameters will be provided to the Simulator Control Room operators using Ginna Simulator. Since it is necessary that the emergency escalate to the General Emergency level, 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 so that the scenario will progress as designed. The Exercise Players are expected to "free play" the scenario to the extent practical. Notifications of, and contact with, supervisors, Plant management and offsite agencies will be made in accordance with 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 Players in the TSC and EOF are expected to "free play" the scenario to the extent practical. Notifications of, and contact 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 Players

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



Players 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, the Exercise is a training vehicle for Rochester Gas and Electric Corporation personnel to practice coordinating with outside organizations in a simulated emergency environment. Players should note any needed improvements that come to their attention during the Exercise and submit them to the appropriate Controller at the conclusion of the Exercise.

## 2.5

### Precautions and Limitations

This section provides information for all Exercise Controllers and Observers related to the rules and guidelines to be followed throughout the conduct of this Exercise. Prior to initiation of the Exercise, a pre-Exercise briefing will be held to review the entire Exercise process with all the Exercise Controllers and Observers identified in this manual.

- A. Should at any time during the course of the conduct of this Exercise, an actual emergency situation arise, 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 to inform the Lead Exercise Controller of the situation. Upon notification of an actual emergency, the Lead Exercise Controller may notify all other Controllers/Observers to suspend all 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 the conduct of this Exercise, an Exercise Controller or Observer witness an 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 and terminating the unsafe activity immediately. 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 at that point 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 are only to be simulated. There is to be no alteration of any Plant operating equipment, systems or circuits during the response to this Exercise.
- E. All repair activities associated with the scenario will be simulated with extreme caution emphasized around operating equipment.
- F. All telephone communications, radio transmissions and public address announcements related to the exercise must begin and end with the statement, "This is an 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 motor vehicle response to this Exercise, whether it be ambulance, fire fighting equipment, police/security vehicles or field monitoring teams, should observe all normal motor vehicle operating laws included posted speed limits, stop lights/signs, one way streets, etc.
- H. Should any onsite security actions be required in response to this Exercise, participants are to cooperate as directed by the Security Force, and security representatives are to be prudent and tolerant in their actions.
- I. Exercise participants are to inject as much realism into the Exercise as is consistent with its 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. Any Exercise Controller or Observer who is aware of an individual or group of individuals in the immediate vicinity who may have become alarmed or confused about the situation, should approach that individual or group and explain the nature of the Exercise and its intent.

**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.

After the Exercise is completed, the Exercise Coordinator will conduct a post-Exercise critique. Deficiencies in the Emergency Plan, Implementing Procedures, emergency preparedness training program, facilities, equipment and/or other areas will be identified through the critique process. The deficiencies will be documented by the Exercise Coordinator and corrected by the individuals who have responsibility in the area of the identified deficiency.

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  
49 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 via auto should take Route 204 East to Route 390 South. Route 390 becomes Route 590 as one proceeds around the Outer Loop. Follow Route 590 North to Route 104 East. Follow Route 104 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, ESC and JENC

### 3.2.1 Air

From the Rochester-Monroe County Airport take 204 to 390 North, 490 East into the City onto the Inner Loop to the East Avenue ramp to the third signal light. Turn right.

### 3.2.2 Car

From the Thruway, use Exits 45 or 46 into Rochester and the Inner Loop to the East Avenue ramp as in 3.2.1.

3.2.3 To get to the Emergency Operations Facility (EOF) and Engineering Support Center (ESC), go to the intersection of East Avenue and Chestnut Street (black square on map). EOF and ESC are in 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:

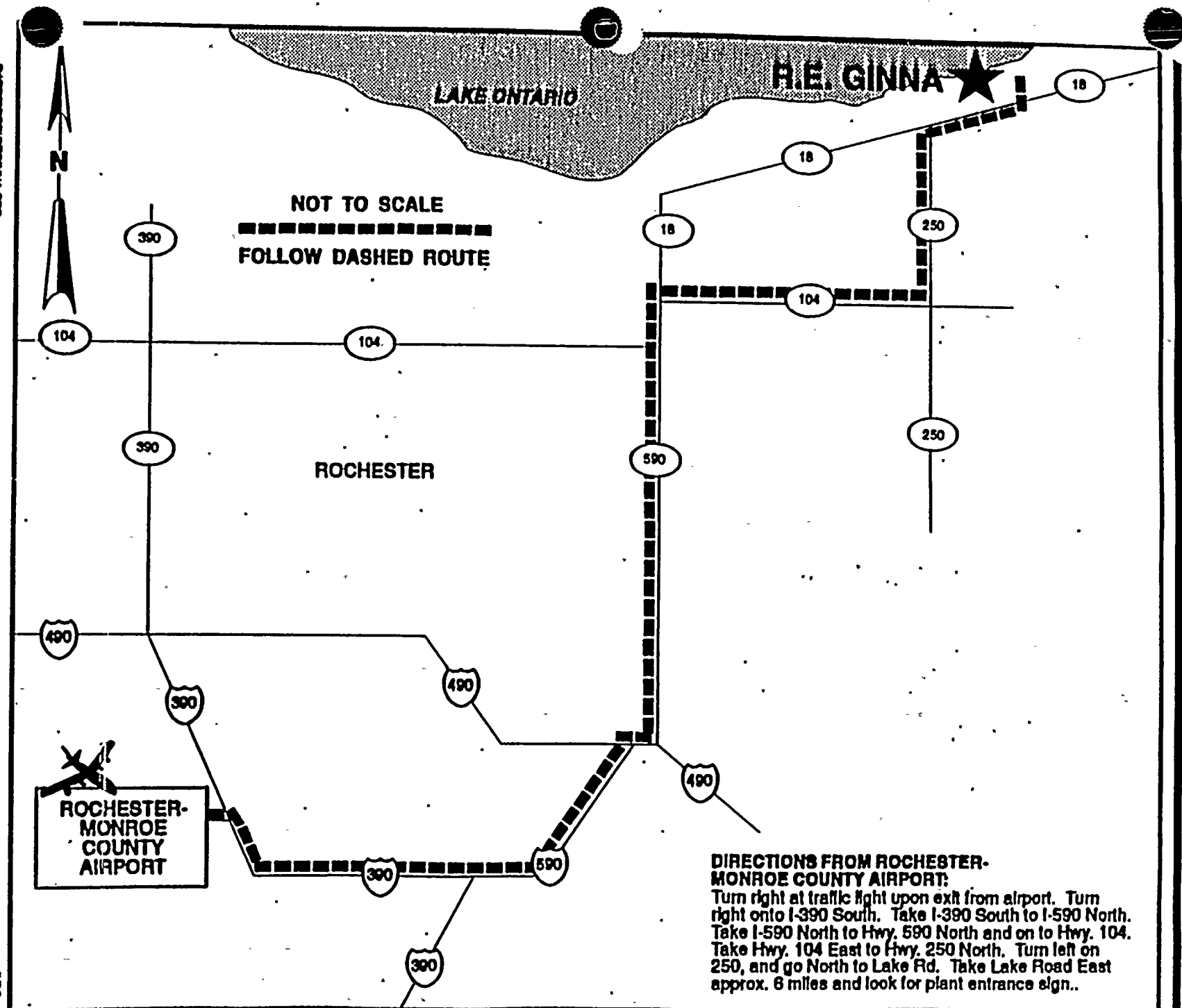
Depot Hotel, Pittsford	(716) 381-9900
Marriott Hotel, Greece	(716) 225-6880
Red Roof Inn, Henrietta	(716) 359-1100
Brookwood Inn, Pittsford	(716) 248-9000
Woodcliff Lodge, Perinton	(716) 248-4810
Holiday Inn, Henrietta	(716) 457-1510
Hyatt, 125 E. Main St. Rochester	(716) 546-1234

FIGURE 2.1

PLANT: **R.E. GINNA**

LOCATION: Ontario, NY

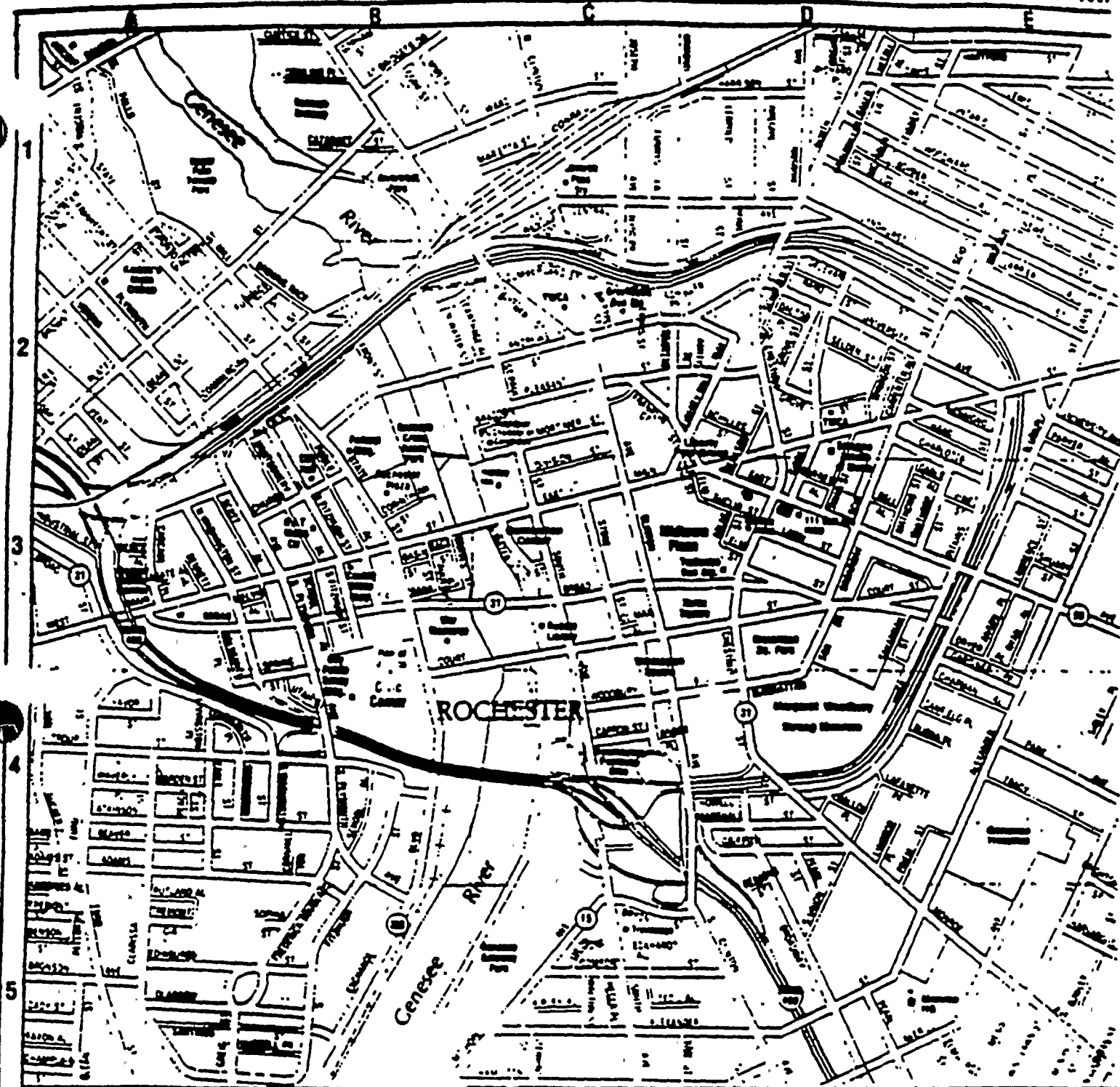
MEMBER UTILITY: **Rochester Gas & Electric Corporation**



ROCHESTERGASANDELECTRIC.COM

2-128

603

**Government Offices**

City Hall  
City Public Safety Building  
Civic Center  
County Office Building  
Federal Building  
Hall of Justice

B-2  
B-4  
B-4  
B-3  
B-2  
B-3

**Hotels & Motels**

Cadillac Motor  
Holidays  
Rochester Plaza  
Travelodge

D-3  
B-2  
B-3  
C-5

**Points of Interest**

Amtrak Passenger Service  
Eastman School of Music  
Eastman Theatre  
Genesee Brewery  
Greyhound Bus Station  
Kodak's Main Offices  
Midtown Plaza  
Rochester Chamber of Commerce  
RIT Metro Center  
Rundel Library  
Strong Museum  
Trainways Bus Station  
War Memorial  
Xerox Square  
YMCA

C-1  
D-2  
D-2  
B-1  
C-2  
A-2  
C-3  
C-2  
B-2  
C-1  
D-4  
D-3  
B-3  
D-3  
D-2

**Parks**

Downtown Festival Site  
Genesee Crossroads Park  
Genesee Gateway Park  
Liberty Pole Green  
Memorial Square Park  
Riverfront Park  
Washington Square

C-1  
C-2  
C-2  
C-2  
C-2  
C-2  
C-2

● EDF - 49 EAST AVE.  
■ JNC - 89 EAST AVE.

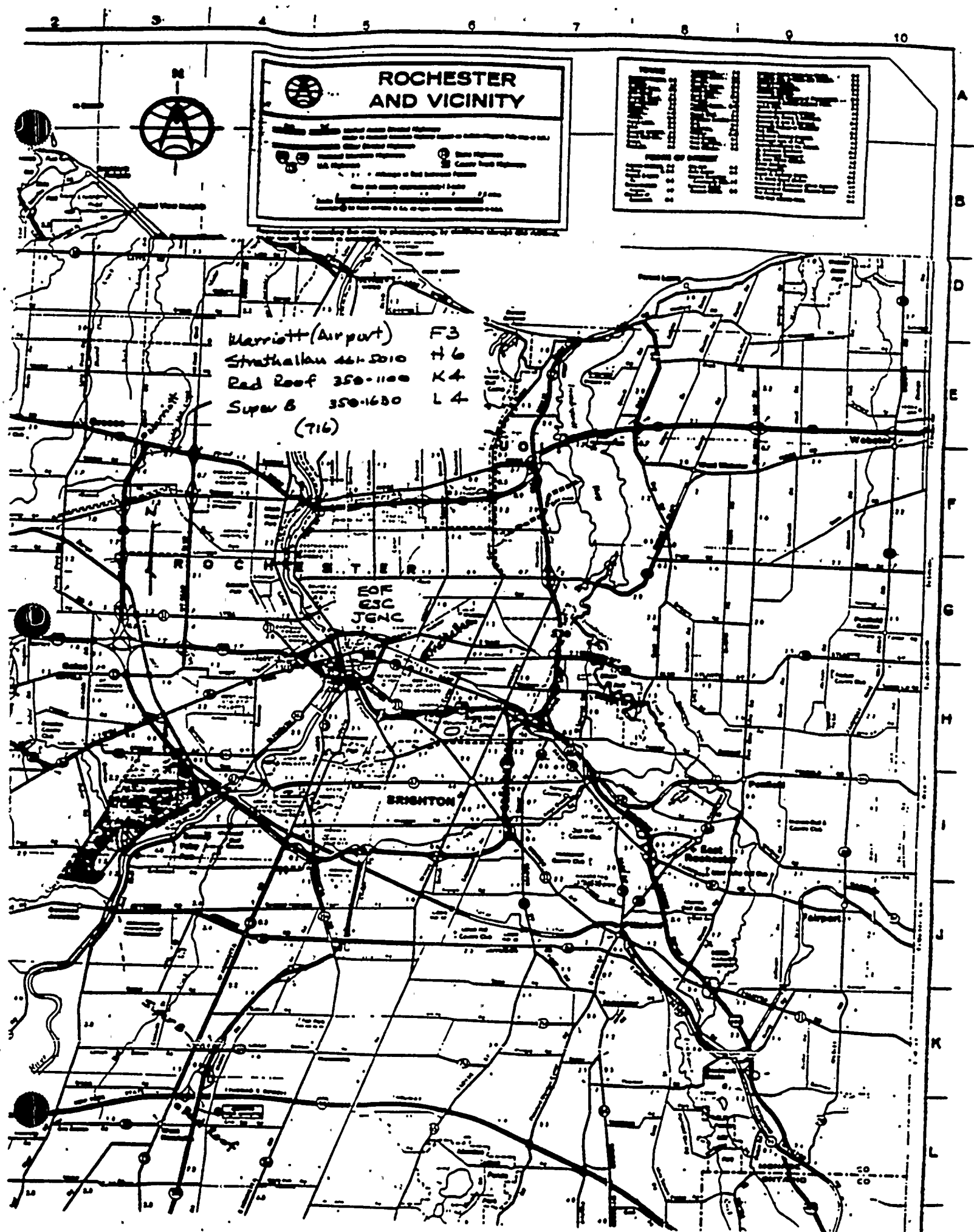
Figure 3.3



# ROCHESTER AND VICINITY

 Interstate Highway	 Federal Highway	 State Highway	 County Road
 Railroad	 Canal	 Waterway	 Airport
 City	 Town	 Village	 Hamlet

Marriott (Airport) F3  
 Strathallan 441-5010 T6  
 Red Roof 350-1100 K4  
 Super 8 350-1600 L4  
 (716)

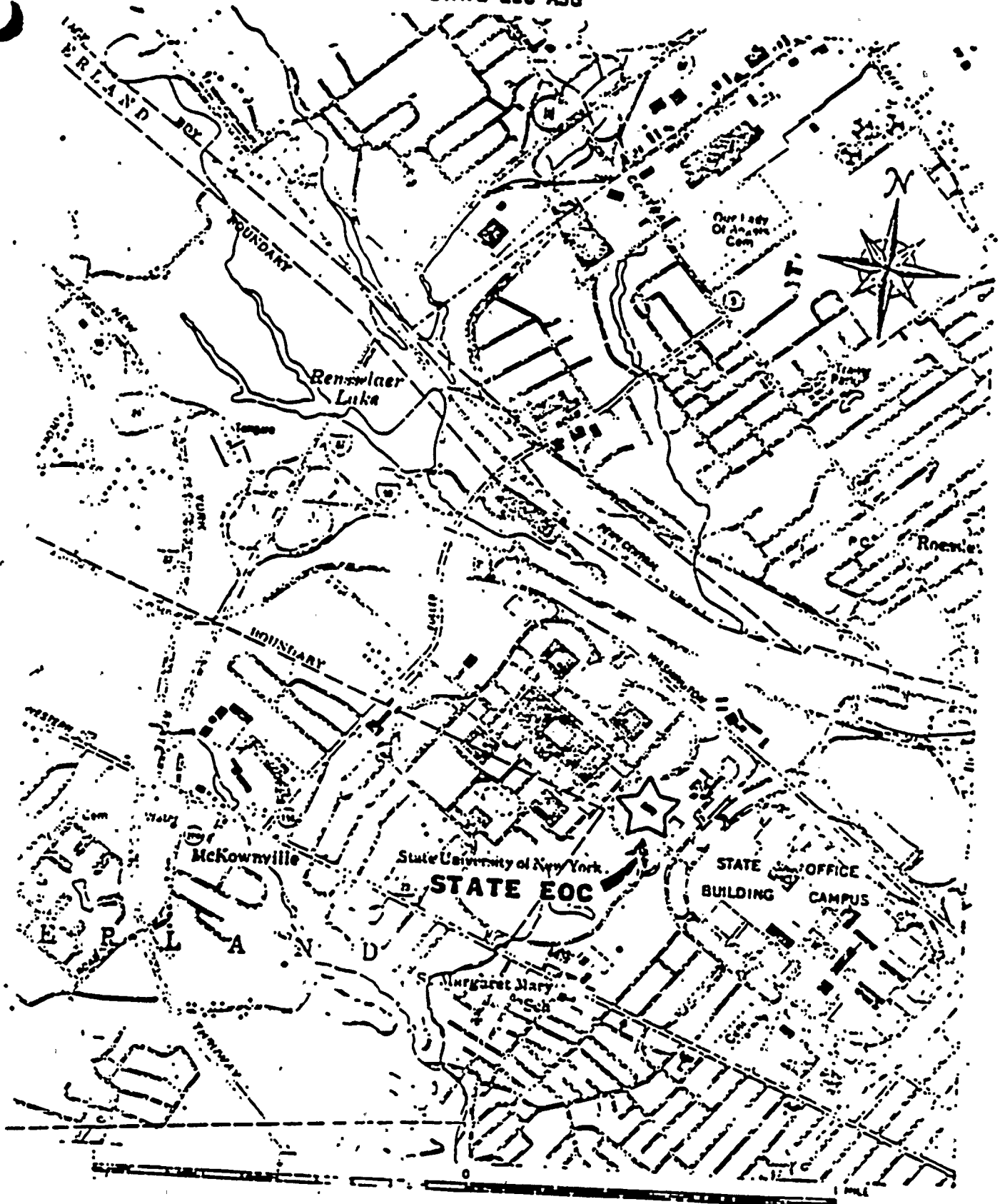


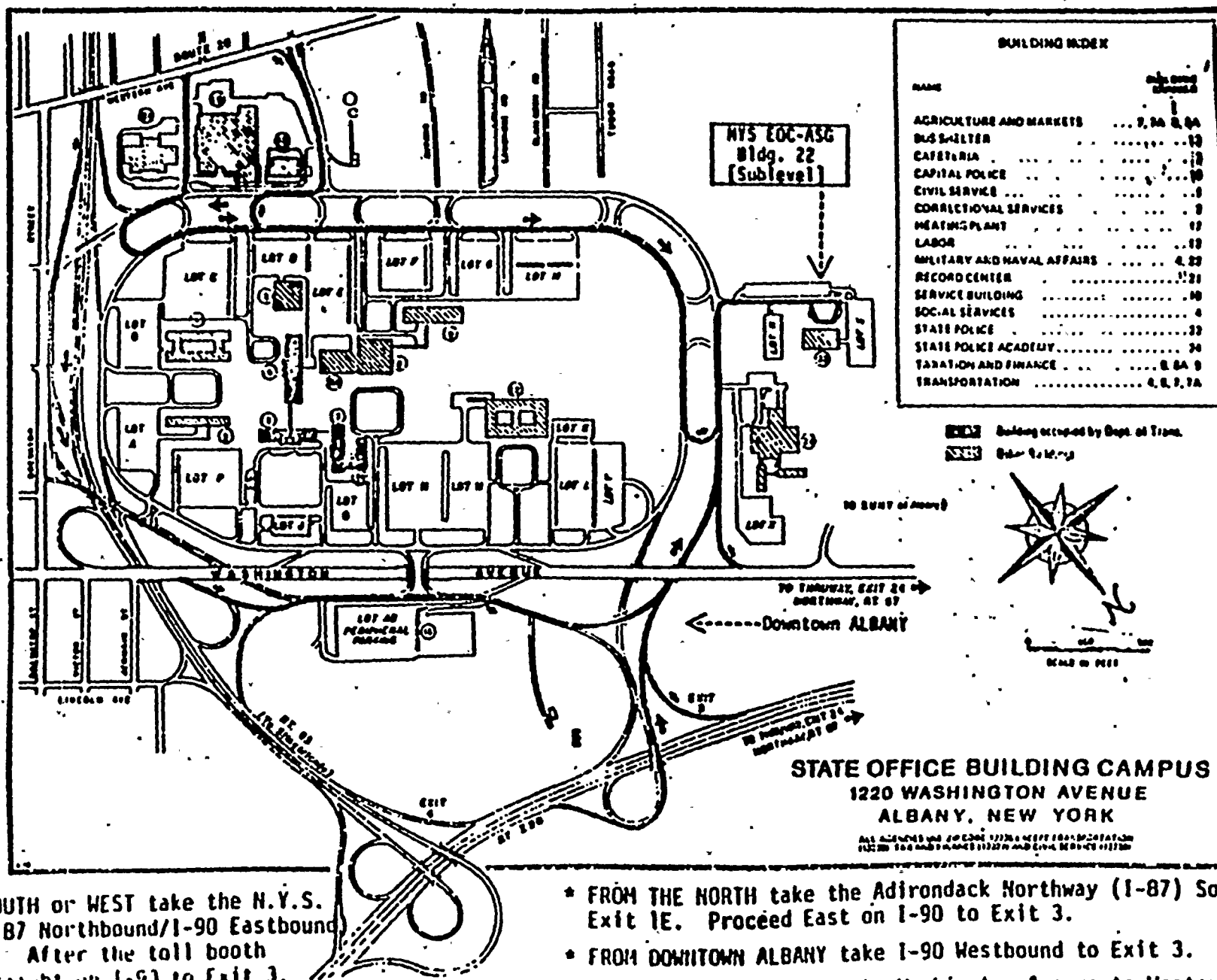




**PART II - SEC. I - Proc. D**

**STATE EOC-ASG**





\* 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 Avenue (Rte 20) to the State Office Building Campus.

## 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

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)
EBS	Emergency Broadcast 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	Emergency Survey 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
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
RST	Radiation Survey Team
SC	Site Contingency
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.



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.

- 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.

## 5.2 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.

- 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 following evaluation packages will be provided to the appropriate Controllers/Observers at the pre- Exercise briefing:

- Simulator Control Room
- Technical Support Center
- Operational Support Center
- Survey Center
- Emergency Operations Facility
- Joint Emergency News Center
- Health Physics Personnel
- Dose Assessment (TSC and EOF)
- Radiation Survey Teams (SC and EOF)
- Post-Accident Sampling System
- Fire Brigade
- Engineering Support Center

TABLE 5.1

The following personnel have been designated to act as Controllers during the 1995 Exercise activities:

<u>Facility</u>	<u>Controllers</u>
Control Room (Simulator)	B. Everett (lead) J. Reagan J. Zulawski R. Jenkins M. Ruby
Control Room (Real)	Day Shift Supervisor in Operations Office
<u>TSC:</u> Lead Technical/Ops. Assessment Security Dose Assessment HP/Chemistry Communications/Data Flow General	T. Alexander R. Ruedin D. Kuhn T. Hedges K. Lang F. Cordaro C. Kulwicki
<u>OSC:</u> Lead Fire I&C Mechanical Mechanical Electrical	E. McGratten D. Biedenbach/ M. Cavanaugh T. Joachimczyk/E. McGrattan S. Meister  R. Yates/ R. Marriott
<u>SC:</u> Lead Onsite East Onsite West Offsite East Offsite West Spare Spare	W. Schneider A. Patrazellak G. Bussard J. Mazzeo J. Edler C. Cook D. Garofoli

EOF:

Lead  
Operations/Technical  
Admin/Communications/Data Flow  
Dose Assessment  
County/State/NRC Operations  
General  
Survey Team

P. Polfleit  
J. Neis  
B. Stanfield  
N. Kiedrowski  
M. Lilley  
H. Aurand  
TBD

JENC:

Lead  
General

F. Orienter  
TBD (Outside Utility Personnel)

Engineering Support Center:

Lead

L. Sucheski

SPOUSE PHONE:

TBD

NATIONAL WEATHER SERVICE:

Lead

S. Levine (NWS/NOAA)



**GINNA STATION  
1995 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  
1995 EMERGENCY DRILL**

**ATTACHMENT 1**

**PUBLIC INFORMATION QUESTIONS**

---

**TIME**

- 0930 • 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?
    - 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?
- 0945 • 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?
- 0950 • 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 Pitaki been notified?
- Are the sirens going to all go off?

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?

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 what's happening?
- I've got a large farm in Ontario and I need to know what to do with my livestock and crops.
- Where will I get more stored feed for my cattle if my supply runs out?
- I think I heard the sirens...do I need to evacuate?

1030

- I have heard that you declared a "Nuclear Alert".
  - Is this true?
  - How much of the plant has been damaged?
  - Is there a release in progress?
- Has anyone been killed around the plant?
- Have the authorities been informed?
- Can't you just shut a valve or something?

1100

- What does a General Emergency mean?
- Doesn't that mean a "meltdown" is in progress?
- 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 disaster?
- Will there be a big release of radiation or is one underway?
- Is this accident as bad as Chernobyl?

1130

- 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 will he be protected? Should I go get him?
- How long will this emergency last?
- If we evacuate, how long will we have to stay away?
- Is this like the movie "China Syndrome" come true?

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 to?
- 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 \_\_\_\_\_ from WKBZ TV in Buffalo.
- How many people live in a 10-mile radius of the plant?
- What are you doing to fix the situation?
- When is the next press briefing?
- How many media representatives are at the News Center?
- What government agency representatives 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?
- 1245 • From the looks of things, Ginna won't be running for a long time, what are you going to do with the steam generators now?
- Who will "eat" the \$ 115 million the share holders or the rate payers?
- 1250 • Can RG&E get replacement power from Kamine-Besicorp?
- 1300 • Can't the failure of so many components and the melt-down of the core be tied directly to the use of non-union trades? Seems to me that if RG&E were not so anti-union, we wouldn't be in this mess now!
- 1330 • 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?
- 1400 • 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**

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**TIME**

- 0930 • I hear there's an emergency at the nuclear power plant.
- How will I know if we have to leave?
- I'm \_\_\_\_\_ from Radio Station WWLE. You're on our "LIVE LINE" Please 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?
- 0940 • Has any radiation been released to the atmosphere yet?
- How can you be sure? Are you checking it?
  - How can I find out when there is a release?
- 1000 • My daughter is at the Webster Library.
- How will she be notified of the disaster?
  - 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?
- 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" in progress.
- Are you checking the radiation levels outside?
  - Did Iranian fundamentalists do this?
  - What's this I hear about a radiation leak at Ginna?
  - Was that because of a big explosion or something?
  - How did this come about?
  - My neighbor told me that Ginna workers bail out from the plant as soon as there is the hint of a problem? How can you control the plant if no one is there?
- 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 gas bill. What's really going on?
- 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 or to make a profit, how do you know they aren't lying to you too?
  - Do you have anybody checking on them?





- Is the County Legislature going to look into this?
  - Where is all the radioactive waste that results from this accident going to go?
  - Should I close my restaurant due to the accident at Ginna Station? I'm over by the Irondequoit Bay.
  - What are we supposed to do?
  - Who do I call to find out if we're going to have to get rid of all the food in the restaurant?
  - Who will pay for the lost income?
- 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 be able 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?
  - I'm the general manager at Wegmans at Eastway Plaza, what do I do, I've got 300 employees, 250 customers and trucks off-loading fresh produce as we speak I'm concerned about the people, my store and the food.
  - I'm at Wal-Mart in Baytowne Plaza what do I do?
- 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 what do I do?
  - 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?

- 1330 • What is the Governor doing?  
• Who's in charge of handling this accident anyway?  
• What is the status of the problem that occurred this morning?  
• What caused the problem?  
• I've heard that the reactor is destroyed. Is this true?
- 1400 • Does the County, State or Federal government 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 we're on our way home from vacation in Florida ...I just heard about the Ginna accident our house is near Hegedorn's on Shoecraft Road in Webster what should we do?  
• 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 to hold me until I can get home?  
After all you took such care of the people in Farmington after one of your people blew up their houses!

## RUMOR CONTROL MESSAGES FOR WAYNE COUNTY

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### TIME

- 10:00
- 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 loss of coolant accident do to the plant?
  - What does Wayne County intend to recommend to the public?
  - Will you have a press conference?
  - Where will it be and at what time?
- 1030
- Has any radiation been released yet?
  - How can you be sure?
  - How can I find out when there is a release?
- 1045
- 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 School....
- How do they know there's problem?
  - Are they safe?
- 1050
- 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?
- 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 received from RG&E talks about "sheltering". Isn't that supposed to apply only to brick buildings with thick walls? We don't even have a basement! What should we do?
- I wanna talk to Marvin Decker or someone in charge! I need to know what's going on and what to do, I know that those morons at RG&E couldn't tell the time of day if their lives depended on it!

- I live near the plant and don't want that nuclear stuff falling on my house. Can I go out with a hose, like they do in California during brush fires, and hose the radiation off the roof?
- Can we go outside? How much danger is there to me if I do go outside? Will the radiation kill me right away or give me radiation sickness? Are we in danger?
- Are you people checking the radiation?
- What's this I hear about a release at Ginna? Is that what caused the plant to send everybody home?
- How many workers 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? Or worse?
  - 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? She's 86 years old and doesn't want to leave her cats.
  - Should I cover my vegetable garden to protect it from radiation?
  - 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?

- 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 days?
  - My car's in the shop for repair...could I get transportation?
- 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 • 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?
- 1310 • I hear the Chmung County Militia planted a bomb that looks like a toner cartridge in the plant, and that's what caused the pipe to blow apart, their next step is to send a squad in to take over the plant and use their control of the plant to force FEMA and all those federal bullies out of our lives once and for all!
- 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?
- 1345 • 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

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- 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?
- Is this accident just another example of RG&E's poor management?
- I'm sure the rate-payers will be saddled with the cost of this accident, even though it clearly is RG&E's fault, would you comment on who will pay for this accident and why the cost belongs there?
- How long before RG&E has Ginna back on line making electricity?
- Were any workers contaminated?
- How much radiation was released around the plant?
- 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?
- When is the next press briefing?
- How many media representatives are at the News Center?
- What government agencies are represented at the News Center?
- Where is the wind going?
- 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?
- How close have you come to a meltdown?
- How do you know the extent of damage to the Ginna reactor?

## QUESTIONS FOR THE NRC

- Why is the NRC here?
  - is it because RG&E has done such a poor job that federal oversight is needed?
  - If it proves out to be a faulty weld or metal fatigue that caused the failure, why didn't the NRC resident inspector catch the problem before it caused an accident?
- Does this accident mean that all "old" plants of this type will need to be shut down before we have another accident?
- Could congressional budget cuts have been a contributing factor in this accident, by reducing the resources available to NRC?
- Could RG&E's downsizing be a factor in this accident?

## ATTACHMENT 4

### "SPOUSE PHONE " QUESTIONS

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#### Time

- 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 wife be home?
- 0945 • This is LOIS WATTS. My husband, Rick 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 Rick that the kids and I will go to his parents house.
- 1015 • My husband works in the Ginna Training Department. I can't reach him at Ginna. His name is Sam Poulton.
- My neighbor told me there was a problem with possible injuries. Is that true?
  - Has everyone been evacuated from the plant?
  - Were any of the employees hurt?
  - How can I reach my husband? I just need to know he's okay.
- 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 wife works at Ginna in Health Physics.
- Where are the plant workers now... have they left the plant?
  - How can I reach my wife if she doesn't call soon?
  - I'm worried about her since he had a medical problem just two years ago. This stress could be very bad for her.
- 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?

- 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?
  - My husband was going to retire this afternoon on TREP III, we're all packed and ready to move to South Carolina, the moving van is here, he was just going to say goodbye to a few friends and now I can't reach him, what do I do? The movers need to be paid, everything we own in the moving van and he has the checkbook.

## ATTACHMENT 5

### "MEDIA MONITOR" QUESTIONS

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**NOTE:** These calls are to simulate live TV and Radio broadcasts to test the media monitor function. Let the people in Media Monitoring know that you are simulating either a TV or Radio reporter and proceed with your "story". I don't expect them to respond to you.

#### Time

**09:30**      **RADIO**  
We've just picked up information that a fire is burning out of control at RG&E's nuclear power plant..stay tuned for more information as it becomes available.

**10:30**      **RADIO**  
This is Geraldo reporting live from RG&E's Ginna facility, where we think something is going on. We can see a radioactive plume rising from the facility and heading down wind, I hope someone at RG&E is on the ball and will let everyone know downwind that they are about to be contaminated!

**10:45**      **TV**  
This Sam Dullmouth from WWCC TV in Rochester, we interrupt the normally scheduled programming for this special announcement...we have just heard from our on-site camera crew near the R.E. Ginna Nuclear Power Plant that a nuclear meltdown is underway.. our reporter can see steam spewing from the top of the plant. Several minutes ago sirens could be heard warning everyone to get out of the area...stay tuned for more on this major story.

**11:00**      **TV**  
County Officials say there is no cause for alarm, even though there are serious problems at the Ginna Nuclear Power Plant, and people are being evacuated officials confidently state that everything is under control. Radiation levels outside the plant are barely detectable and pose no threat to human health and safety. People are urged to tune into their EBS station for further information.

## SECTION 6.0

### SCHEDULE OF EVENTS



## SECTION 6.0

### 1995 GINNA PLUME EXPOSURE PATHWAY EXERCISE

#### SCHEDULE OF EVENTS

<u>DATE</u>	<u>TIME</u>	<u>GROUPS</u>	<u>ACTIVITY</u>
12/4	9-10	ALL (EOF)	PLAYER BRIEFING
	2-3	ALL (GTC AUDITORIUM)	PLAYER BRIEFING
12/5	8-11	AS ASSIGNED	CONTROLLER BRIEFING
	1-3	NRC EVALUATORS	SCENARIO BRIEFING
12/6	??-??	ALL	1995 EXERCISE
12/7	8-10	CONTROLLERS	PRE-CRITIQUE MEETING
	10-11	ALL	RG&E CORPORATE CRITIQUE
	11-12	ALL	NRC CRITIQUE



## **SECTION 7.0**

### **EXERCISE SCENARIO**

**GINNA STATION  
1995 EMERGENCY PREPAREDNESS EXERCISE**

**INITIAL CONDITIONS**

1. The R.E. Ginna Nuclear Power Plant is operating at approximately 97% rated thermal power. The Plant has been operating at this power level continuously for approximately 150 days.
2. Equilibrium Primary Coolant Isotopic activity as of 0300 hours (12/6/95) is provided in Table 9.2 of scenario section 9.3. Total activity is 1.87  $\mu\text{Ci/gm}$ . 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 5800 MWD/MTU and RCS boron concentration is 562ppm. Boric Acid Storage Tanks boron concentration are 14,000ppm.
5. The "B" residual heat removal pump has been out for seal maintenance. The seal has been replaced and the pump was declared operable. However, the pump has higher than normal vibrations.
6. The "B" accumulator drain valve (AOV-844B) has been leaking by. The accumulator has been being filled using procedure S-16.13 when level decreases to 60%.
7. The "C" safety injection pump is out of service for seal replacement per procedure S-16.16C. The seal maintenance work was started yesterday (12/5/95) at 14:00 hours. Expected time to complete seal maintenance is another 24-30 hours. An A-52.4 has been submitted.
8. The "B" train of the core exit thermocouples (CET) are out for maintenance. The plant is awaiting parts to complete the repairs. The parts are expected to arrive by 2:00pm. An A-52.4 has been submitted.

**GINNA STATION  
1995 EMERGENCY PREPAREDNESS EXERCISE**

**ONSITE SEQUENCE OF EVENTS**

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION</u>
06:45	-00:15	Initial conditions established.
07:00	00:00	Announcement to commence annual exercise.
07:10	+00:10	Control room indications for "B" accumulator level reaches 60%. While filling the accumulator the "B" safety injection pump trips.
		<u>Anticipated results</u> The control room should fill the accumulator per S-16.13. When the "B" safety injection pump trips the operators should investigate why the pump tripped. The plant now has two safety injection pumps out of service. Plant technical specifications requires a shutdown when two safety injection pumps are out of service. The plant should commence a normal reactor shutdown per procedure O-2.1.
07:25	+00:25	A leak starts from the reactor coolant system. The leak is inside containment.
07:30	+00:30	The reactor coolant system leak has increased to >10gpm.
		<u>Anticipated results</u> The operators should investigate the source of the leakage. The operators should implement AP-RCS.1 or AP-CVCS.1.
07:35 UNUSUAL EVENT	+00:45	An unusual event should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification" EAL number: 3.1.1 "Unidentified or pressure boundary leakage greater than 10gpm <u>OR</u> Identified leakage greater than 25gpm".  If an unusual event is not declared in approximately 15 minutes, a contingency message should be given out to declare it.  <u>Anticipated results</u> Operators should implement EPIP 1-1 "Unusual Event"

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
08:10	+01:10	The reactor coolant system leak continues to increase.
08:25	+01:25	The reactor coolant system leak has increased to approximately 50 gpm.
08:30 ALERT	+01:30	<u>Anticipated results</u> The operators should refer to AP-RCS.1. Operators may consider entering AP-TURB.5 for a rapid load reduction.
		A alert should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification" EAL number: 3.1.2 "Primary system leakage >46gpm".
		If a alert is not declared in approximately 15 minutes, a contingency message should be given out to declare it.
09:00	+02:00	<u>Anticipated results</u> Operators should implement EPIP 1-2 "Alert". The Plant should be shutting down per O-2.1. The Plant should realize that the accumulators can no longer be filled.
		Plant shutdown continues. However, the rate of shutdown should have increased due to the increased reactor coolant system leakage.
		All core exit thermocouples (CET's) on train "A" fail. This renders all in-core temperatures unavailable.
09:15	+02:15	<u>Anticipated results</u> Operators should request I&C to investigate the loss of the CET's. Plant shutdown continues. The Plant may consider borating via MOV-350 per procedure ER-CVCS.1. The TSC should be near operational readiness.
09:30	+02:30	Plant continues to cooldown and depressurize per O-2.2.
		<u>Anticipated results</u> CET indication should be available by I&C obtaining readings at the terminal board using hand-held instrumentation.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
09:45	+02:45	<p>The following alarms are received in the control room and on the plant computer:</p> <ul style="list-style-type: none"> <li>- Pressurizer low pressure</li> <li>- Pressurizer low pressure trip</li> <li>- Pressurizer low pressure SI</li> </ul> <p>All safeguards equipment starts except the two safety injection pumps. They are OOC because of previous problems. A loss of coolant has occurred. The leak is approximately a 455,000gpm leak from a severed "B" RCP discharge pipe where it connects to the pump.</p> <p><u>Anticipated results</u> Control room operators should take immediate actions in accordance with E-0 "Reactor trip or safety injection" and E-1 "Loss of reactor or secondary coolant". Operators should inform the TSC of the loss of coolant accident.</p>
09:46	+02:46	<p>The core uncovers during the blowdown phase of the large break LOCA. A large amount of the fuel gap activity is released due to fuel rod bursting because of core uncover during the initial reactor coolant system blowdown. Containment radiation levels are increasing.</p>
09:47	+02:47	<p>The loss of coolant accident continues.</p> <p><u>Anticipated results</u> Operators should realize that RCP trip criteria is not met.</p>
10:00 SITE AREA EMERGENCY	+03:00	<p>A site area emergency should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification" EAL number: 2.3.2 "Containment radiation monitor R-29/30 reading &gt;100 R/hr".</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> <p><u>Anticipated results</u> The TSC should implement EPIP 1-3 "Site Area Emergency" The EOF should commence being manned if not already activated.</p>
10:15	+03:15	<p>Due to flow anomalies, some of the fuel rods are experiencing low flow. Containment radiation levels continue to increase.</p>

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION</u>
10:30 GENERAL EMERGENCY	+03:30	<p>A general emergency should be declared in accordance with EPIP 1-0 "Ginna Station Event Evaluation and Classification" EAL number: 2.3.3 "Containment radiation monitor R-29/30 reading &gt;1000 R/hr".</p> <p>If a general emergency is not declared in approximately 15 minutes, a contingency message should be given out to declare it</p> <p><u>Anticipated results</u> The TSC should implement EPIP 1-4 "General Emergency". Protective action recommendations should be made in accordance with EPIP 2-1.</p>
10:45	+03:45	The EOF should be nearing operational readiness.
11:00	+04:00	The injection phase of the accident is done or almost done.
11:16	+04:16	<p><u>Anticipated results</u> Operations personnel should be aligning systems for the recirculation phase.</p> <p>The following alarms are received in the control room and on the plant computer:</p> <ul style="list-style-type: none"> <li>- Auxiliary building sump pump auto start</li> <li>- Auxiliary building sump high level</li> </ul> <p>The 1B RHR pump shaft seal has failed creating approximately a 50gpm leak into the auxiliary building sub-basement: Plant vent monitors show a rapid increase in radiation levels. A major release to the environment begins. (Release path: from containment through 1B RHR pump failed seal, out the plant vent).</p> <p><u>Anticipated results</u> TSC and control room operators should try to locate the source of the leak in the auxiliary building. The TSC should be informing the EOF of plant status, actions being taken and any required needs. The TSC should be evaluating the increase of radiation in the auxiliary building as to its source and its effect offsite.</p>

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION</u>
11:18	+04:18	<p>The following alarm is received in the control room and on the plant computer:</p> <ul style="list-style-type: none"> <li>- Safeguards breaker trip</li> </ul> <p>The 1B RHR pump trips out on overcurrent due to the failed seal. Bus 16 trips. The "B" diesel auto-starts then trips.</p> <p><u>Anticipated results</u> The control room operators try to re-energize bus 16 but it will not re-energize from the normal power supply. Efforts should be underway to track the plume, terminate the release and implement/coordinate PARs.</p>
11:30	+04:30	<p><u>Anticipated results</u> The TSC should be working on isolating the 1B RHR pump to terminate the offsite release. The TSC should be working on repair of the "B" D/G or repair of bus 16 normal supply.</p>
11:45	+04:45	Repair teams should find that the "B" D/G tripped due to a ruptured lube oil sensing line.
12:00	+05:00	The repair teams should have all of the materials assembled to repair the oil sensing line.
12:15	+05:15	<p>The repair teams should have the oil sensing line repaired.</p> <p><u>Anticipated results</u> The control room will start the "B" D/G to energize bus 16. When bus 16 is energized MOV-704A and MOV-850B can be closed to terminate the release.</p>
12:45	+05:30	The radiation levels in the auxiliary building have decreased significantly. The offsite release is terminated.
13:15	+06:15	Recovery/Re-entry discussions should commence. This should include preliminary discussions about short term and intermediate term concerns, including preliminary designation of the recovery organization. State and counties may also conduct parallel discussions. Recovery/Re-entry interface between TSC/EOF and offsite agencies should be demonstrated as time allows.
14:00	+07:00	After all exercise objectives have been demonstrated, the exercise terminated.

Time: 06:45  
Message: 1

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

Illuminated alarms in the Control Room include:

Alarm J-25 (Safeguards Equipment Locked Off)

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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, applicable procedures.





## TEND SELF-ASSIGNMENT SUMMARY

GROUP: 1 ENT: PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3 NG1	SOURCE RANGE DETECTOR N-31	1.00000+00	INRG	CPS
4 NG2	SOURCE RANGE DETECTOR N-32	1.00000+00	INRG	CPS
5 NGS	INTERMEDIATE RANGE DETECTOR N-35	7.97993-04	INRG	AMP
6 NG6	INTERMEDIATE RANGE DETECTOR N-36	7.97993-04	INRG	AMP
7 NP	AVERAGE NUCLEAR POWER	98.32	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2250.	6000	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.7	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.0	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.4	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSUBTC	INCORE TO SUBCOOLED MARGIN	44.1	6000	DEGF
15 LSSA	5TH GEN A NARROW RANGE AVG LEVEL	52.1	6000	%
16 LSSB	5TH GEN B NARROW RANGE AVG LEVEL	52.1	6000	%
17 PSSA	5TH GEN A AVERAGE PRESSURE	697.	6000	PSIG
18 PSSB	5TH GEN B AVERAGE PRESSURE	696.	6000	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
23 BUS12A	NOT TERMINATED ON FPDS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON FPDS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.08	6000	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	6000	FEET
29 L0942E	SUMP E LEVEL 8 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP E LEVEL 8 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP E LEVEL 75 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP E LEVEL 76 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP E LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP E LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP E LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP E LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP E LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP E LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	FCOA HOT LEG TEMPERATURE	601.3	6000	DEGF
40 T0410A	FCOB HOT LEG TEMPERATURE	601.3	6000	DEGF
41 T0409B	FCOA COLD LEG TEMPERATURE	544.5	6000	DEGF
42 T0410B	FCOB COLD LEG TEMPERATURE	544.7	6000	DEGF
43 TAVGAWID	FCOA TAVG (HOT/COLD WIDE RNG)	572.9	6000	DEGF
44 TAVGBWID	FCOB TAVG (HOT/COLD WIDE RNG)	573.0	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.2	6000	%
46 TDCORE	5TH GEN A TO AVERAGE TEMP	242.8	6000	DEGF
47 FAUXFWA	5TH A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	5TH B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKR081	5TH A AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKR082	5TH B AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3505	AUX FA PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FB PUMP STEAM SUPPLY VALVE B	CLOSED	6000	

## 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	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	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	OFF	GOOD	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENTS PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0419	COMPONENT COOLING LOOP TOTAL FLW	1448.	LALN	GPM
2 LKWS1	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WS033	33 FOOT LEVEL WIND DIRECTION	230.	GOOD	DEG.
5 WS033	33 FOOT LEVEL TEMPERATURE	37.6	GOOD	DEGF
6 WS250	250 FOOT LEVEL TEMPERATURE	35.1	GOOD	DEGF
7 WS250	250 TO 33 FOOT LEVEL DELTA TEMP	-2.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.06777-02	GOOD	HR/HR
9 R02	AREA 2-CONTAINMENT	3.84591+00	GOOD	HR/HR
10 R05	AREA 5-SPENT FUEL PIT	5.04080-01	GOOD	HR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.97242+01	GOOD	HR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	7.85236-01	GOOD	HR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	HR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.04176+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.20226+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.56450+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.93819+00	GOOD	CPM
18 R12	AUX BLDG EXHAUST AIR PARTICULATE	3.86255+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.34965+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.57126+02	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	4.62379+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.61532+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	1.99995-02	GOOD	HR/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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VS411C	STEAM LINE ARV A	CLOSED	GOOD	
36 VMSVA	WASHER OF S/G A MSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	HR/HR
38 R31RR0	SSA NOBLE GAS RELEASE RATE:15YRA	.00000+00	GOOD	CI/SEC
39 VS410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VMSVB	WASHER OF S/G B MSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	HR/HR
42 R32RR0	SSB NOBLE GAS RELEASE RATE:15YRA	.00000+00	GOOD	CI/SEC
43 CVM	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV SENSITIVE LEVEL 3FT TEMP #3	90.0	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 3FT TEMP #7	100.7	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 3FT TEMP #8	100.8	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 3FT TEMP #9	100.7	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 3FT TEMP #10	100.8	GOOD	DEGF
49 TCV17	CV OPERATING LVL 3FT TEMP #17	111.5	GOOD	DEGF



Time: 07:00  
Message: 2

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Control Room Shift Supervisor

**Message:** \*\*\*THIS IS A EXERCISE\*\*\*

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

"Attention, Attention all personnel. The Ginna Nuclear Station is now starting its 1995 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: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3 NS1	SOURCE RANGE DETECTOR N-31	1.00000+00	INH	CPS
4 NS2	SOURCE RANGE DETECTOR N-32	1.00000+00	INH	CPS
5 NS3	INTERMEDIATE RANGE DETECTOR N-35	7.97993-04	INH	AMP
6 NS6	INTERMEDIATE RANGE DETECTOR N-36	7.97993-04	INH	AMP
7 NP	AVERAGE NUCLEAR POWER	98.32	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2250.	6000	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.7	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.0	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.4	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSBTC	INCRE TO SUBCOOLED MARGIN	44.1	600+	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	6000	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	52.1	6000	%
17 PSGA	STM GEN A AVERAGE PRESSURE	697.	6000	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	696.	6000	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20 GENXR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
23 BUS12A	NOT TERMINATED ON PFCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PFCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	-.09	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.7	6000	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	RCLA HOT LEG TEMPERATURE	601.3	6000	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	601.3	6000	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	544.5	6000	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	544.7	6000	DEGF
43 TAVGAWD	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.9	6000	DEGF
44 TAVGBWD	RCLB TAVG (THOT/TCOLD WIDE RNG)	573.0	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.0	6000	%
46 TCCORE	E1.1 INCRE TO AVERAGE TEMP	242.8	6000	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 EXR091	MTR AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 EXR092	MTR AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	





## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EP1F 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	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	OFF	GOOD	



## TREC GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLOW	1448.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	6000	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.1	6000	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	230.	6000	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	37.6	6000	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	35.1	6000	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-2.5	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992+02	6000	HR/HR
9 R02	AREA 2-CONTAINMENT	3.95822+00	6000	HR/HR
10 R05	AREA 5-SPENT FUEL PIT	4.92605+01	6000	HR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	6000	HR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.41394+01	6000	HR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000	HR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.17595+02	6000	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.26619+02	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	1.56450+02	6000	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.93819+00	6000	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.82935+01	6000	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.34965+01	6000	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	6000	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627+01	6000	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627+01	6000	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006+07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.99995+02	6000	HR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984+06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99997+04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001+07	6000	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984+06	6000	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971+03	6000	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983+06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984+06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987+04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	CLOSED	6000	
36 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	6000	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006+02	6000	HR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	6000	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	6000	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006+02	6000	HR/HR
42 R32RRQ	SGB NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	77.1	6000	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	91.3	6000	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	91.3	6000	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	91.3	6000	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	91.3	6000	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	105.6	6000	DEGF



Time: 07:10

Message: 3

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

Control room indication for the "B" accumulator level reaches 60%.

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators should fill the "B" accumulator per procedure S-16.13

Time: 07:14  
Message: 5

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Personnel investigating "B" SI pump

**Message:** \*\*\*THIS IS A EXERCISE\*\*\*

---

**FOR CONTROLLER USE ONLY.**

**Controller Notes:**

1. Provide information verbally when the appropriate investigations are made by the auxiliary operator or repair team.

**Actions Expected:**

1. The auxiliary operator and repair team should inspect the "B" SI pump and make an assessment of the problem and any necessary repairs.

## **GINNA STATION**

### **DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

##### **Activity: "B" SI pump trip**

The "B" SI pump tripped while filling the "B" accumulator. The following conditions occurred in the control room: Accunciator L-8 (480 volt ground) followed by the "B" SI pump tripping, green and white light indications.

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

When the auxiliary operator investigates the "B" SI pump, he reports that there is a burnt smell from the "B" SI pump motor. The cause of the pump tripping is a direct short. There is an instantaneous trip indication on the "B" SI pump ampdetector.

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

1. The players may consider replacing the "B" SI pump motor with the motor from the "C" SI pump.
2. The players could also consider bringing in a new SI pump motor.
3. The players should investigate the ampdetector on bus 16 for the SI pump.





Time: 07:15

Message: 6

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. It does not matter how fast the operators reduce power.

**Actions Expected:**

1. The operators should recognize that the plant should be shut down due to having two SI pumps inoperable.
2. Operators should commence an orderly plant shutdown, per procedure O-2.1, once technical specifications have been consulted.
3. Operators should notify the plant manager, operations manager and STA of the plant shutdown.
4. Operators should notify the NRC of the plant shutdown per procedure O-9.3



## TECH GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3 N31	SOURCE RANGE DETECTOR N-31	1.00000+00	IN#9	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.00000+00	IN#9	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	7.97993-04	IN#9	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	7.97993-04	IN#9	AMP
7 NP	AVERAGE NUCLEAR POWER	98.32	6000	%
8 PPCS	REACTOR COOLANT SYSTEM AVG PRESS	2250.	6000	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.9	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.0	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.4	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSBTC	INORE TC SUBCOOLED MARGIN	44.1	6000	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.2	6000	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	52.1	6000	%
17 PSGA	STM GEN A AVERAGE PRESSURE	697.	6000	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	696.	6000	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20 GENXR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
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	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	-0.21	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	6000	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942F	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	FCOA HOT LEG TEMPERATURE	601.6	6000	DEGF
40 T0410A	FCOB HOT LEG TEMPERATURE	601.6	6000	DEGF
41 T0409B	FCOA COLD LEG TEMPERATURE	544.5	6000	DEGF
42 T0410B	FCOB COLD LEG TEMPERATURE	544.7	6000	DEGF
43 TAVGAM1	FCOA TAVG (THOT/TCOLD WIDE RNG)	573.0	6000	DEGF
44 TAVGBM1	FCOB TAVG (THOT/TCOLD WIDE RNG)	573.1	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.0	6000	%
46 T000RE	FCOA INORE TO AVERAGE TEMP	242.8	6000	DEGF
47 FAUXFWA	FCOA TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	FCOB TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKROE1	FCOA AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKROE2	FCOB AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V350S	FCOA FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V350A	FCOB FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	

## 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	-1.	6000	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	6000	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	6000	
58 BKR042	SERVICE WATER PUMP B	ON	6000	
59 BKR043	SERVICE WATER PUMP C	ON	6000	
60 BKR044	SERVICE WATER PUMP D	OFF	6000	

## 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	1448.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	230.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	37.6	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	35.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-2.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.95222+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	4.92605-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	7.76246-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.17595+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.26619+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.55776+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.05471+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.82935+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.11260+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.67639+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	1.99995-02	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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VHSVA	NUMBER OF S/G A NSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VHSVB	NUMBER OF S/G B NSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CVM	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV SACEMENT LEVEL 6FT TEMP #3	67.7	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	84.5	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	84.5	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	84.5	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	84.5	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	101.3	GOOD	DEGF



Time: 07:25  
Message: 7

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

**The following alarms are received in the control room**

**L-18 (Sump A actuation)**

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. A leak of approximately 16 gpm has started.

**Actions Expected:**

1. Operators should note the time of the sump pump actuation. The operators should investigate sump pump actuation time for any abnormal trends.



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATNS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATNS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
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	7.76244-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	7.72679-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	95.55	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2257.	6000	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	43.2	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.2	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.5	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	47.5	6000	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	6000	%
16 LSSB	STM GEN B NARROW RANGE AVG LEVEL	52.2	6000	%
17 PSGA	STM GEN A AVERAGE PRESSURE	697.	6000	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	696.	6000	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20 GENXR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
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	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	-0.06	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.9	6000	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	RCLA HOT LEG TEMPERATURE	599.2	6000	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	599.2	6000	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	543.6	6000	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	543.6	6000	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	571.4	6000	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	571.4	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.2	6000	%
46 TDCORE	E1.1 INCORE TC AVERAGE TEMP	241.7	6000	DEGF
47 FAUXFWA	3/G A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	3/G B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	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	OFF	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	241.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	37.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	35.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-2.4	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.07381+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	5.15822-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.80925+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	7.85236-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	8.42603+02	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.27717+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	3.05491+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.82318+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.63600+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.12608+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	1.99995-02	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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31RR0	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV 5	CLOSED	GOOD	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RR0	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CVH	CV --HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	110.9	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	105.4	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	105.5	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	105.4	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	105.5	GOOD	DEGF
49 TCV17	CV OPERATING LVL 6FT TEMP #17	99.8	GOOD	DEGF



Time: 07:35  
Message: 9

7:45  
2

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

je for: Control Room

je: \*\*\*THIS IS A EXERCISE\*\*\*

owing alarms are received in the control room:

-18 (Sump A actuation)

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**CONTROLLER USE ONLY**

er Notes:  
T level is decreasing at a rate of >1% per minute

**Expected:**

unusual event should be declared in accordance with EPIP 1-0, EAL # 3.1.1

erators should implement EPIP 1-1 "unusual event"

for a



## TREND TABLE 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	6000	
2	RXT REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3	N31 SOURCE RANGE DETECTOR N-31	1.00000+00	INH	CPS
4	N32 SOURCE RANGE DETECTOR N-32	1.00000+00	INH	CPS
5	N35 INTERMEDIATE RANGE DETECTOR N-35	7.58577-04	INH	AMP
6	N36 INTERMEDIATE RANGE DETECTOR N-36	7.58577-04	INH	AMP
7	NP AVERAGE NUCLEAR POWER	93.53	6000	%
8	PPCS REACTOR COOLANT SYSTEM AVG PRESS	2259.	6000	PSIG
9	LPZR PRESSURIZER AVERAGE LEVEL	46.9	6000	%
10	FRCLA REACTOR COOLANT LOOP A AVG FLOW	98.2	6000	%
11	FRCLB REACTOR COOLANT LOOP B AVG FLOW	97.5	6000	%
12	RXT16 RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13	RXT17 RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14	TSLSYC INCORE TC SUBCOOLED MARGIN	48.8	6000	DEGF
15	LSGA STM GEN A NARROW RANGE AVG LEVEL	52.1	6000	%
16	LSGB STM GEN B NARROW RANGE AVG LEVEL	52.2	6000	%
17	PSSA STM GEN A AVERAGE PRESSURE	702.	6000	PSIG
18	PSSB STM GEN B AVERAGE PRESSURE	701.	6000	PSIG
19	GENBKR1 GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20	GENBKR2 GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21	BUS11A BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22	BUS11B BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
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	6000	
26	B11B12B BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27	PCV CONTAINMENT AVERAGE PRESSURE	.11	6000	PSIG
28	LSMPA CONTAINMENT SUMP A AVERAGE LEVEL	1.7	6000	FEET
29	L0942E SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	6000	
30	L0943E SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31	L0942D SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32	L0943D SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33	L0942C SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34	L0943C SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35	L0942B SUMP B LEVEL 190 INCHES (TRAIN A)	LOWER	6000	
36	L0943B SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37	L0942A SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38	L0943A SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39	T0409A RCLA HOT LEG TEMPERATURE	597.8	6000	DEGF
40	T0410A RCLB HOT LEG TEMPERATURE	597.8	6000	DEGF
41	T0409B RCLA COLD LEG TEMPERATURE	543.4	6000	DEGF
42	T0410B RCLB COLD LEG TEMPERATURE	543.4	6000	DEGF
43	TAVGAWID RCLA TAVG (THOT/TCOLD WIDE RNG)	570.6	6000	DEGF
44	TAVGBWID RCLB TAVG (THOT/TCOLD WIDE RNG)	570.6	6000	DEGF
45	LRV REACTOR VESSEL AVERAGE LEVEL	99.3	6000	%
46	TDCCOE E1.1 INCORE TC AVERAGE TEMP	241.3	6000	DEGF
47	FAUXFWA S/G A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48	FAUXFWB S/G B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49	BKR081 MTR AUXILIARY FEEDWATER PUMP A	OFF	6000	
50	BKR082 MTR AUXILIARY FEEDWATER PUMP B	OFF	6000	
51	V3505 AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52	V3504 AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	





## 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	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	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	OFF	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	1427.	LALM	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	6000	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.2	6000	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	257.	6000	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	38.3	6000	DEGF
6 MT250	250 FOOT LEVEL TEMPERATURE	36.1	6000	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-2.2	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	6000	NR/HR
9 R02	AREA 2-CONTAINMENT	3.95822+00	6000	NR/HR
10 R05	AREA 5-SPENT FUEL PIT	4.92605-01	6000	NR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	6000	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.41394-01	6000	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	5.24805+04	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	4.42843+02	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	3.83485+03	6000	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.93819+00	6000	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.82935+01	6000	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.34965+01	6000	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	6000	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.99995-02	6000	NR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	6000	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	6000	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987-04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	CLOSED	6000	
36 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	6000	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	6000	NR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	6000	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	6000	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	6000	NR/HR
42 R32RRQ	SGB NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	128.2	6000	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	113.6	6000	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	113.6	6000	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	113.6	6000	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	113.6	6000	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	99.1	6000	DEGF

## **GINNA STATION**

### **DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

#### **Activity: "B" Accumulator Leak**

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

1. Accumulator leakage is past valve AOV-844B
2. Allow operators and RP department to make preparations for a containment entry.
3. Do not allow RP technicians to actually manipulate valves to obtain containment atmosphere samples.
4. Allow the plant to make all preparations to make a containment entry. When the entry team is at the containment personnel hatch have the auxiliary operator identify that V-892B is required to be shut to stop the leakage.
5. If a repair team makes it to the personnel hatch, give them credit for closing valve V-892B. Call the simulator booth operator (X6641) and inform him that the repair team has simulated entering containment and that the accumulator leakage has been stopped by closing V-892B. After the simulator booth operator has been informed, allow the entry team to inform other players that valve V-892B is closed.

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

1. The plant should make preparations for a containment entry to close valve V-892B in order to isolate the accumulator leakage.

Time: 07:50  
Message: 11X

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

Declare an unusual event per EPIP 1-0,  
EAL # 3.1.1 "unidentified leakage greater than 10 gpm"

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if an unusual event has not yet been declared.
2. Do not deliver if emergency classifications are in progress.

**Actions Expected:**



Time: 08:00

Message: 12

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

**The following alarms are received in the control room:**

**L-18 (Sump A actuation)**

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. The plant should be shutting down per AP-TURB.5 or O-2.1.
2. The plant should be investigating on the tripped "B" SI pump.
3. The "C" SI pump seal repair status should be investigated.
4. The plant should recognize that accumulators can no longer be filled.





## 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	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
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	6.76082-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	6.69883-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	83.33	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2250.	6000	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	46.2	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.0	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.4	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	53.4	600+	DEGF
15 LSGA	5TH GEN A NARROW RANGE AVG LEVEL	52.2	6000	%
16 LSGB	5TH GEN B NARROW RANGE AVG LEVEL	52.2	6000	%
17 PSGA	5TH GEN A AVERAGE PRESSURE	734.	6000	PSIG
18 PSGB	5TH GEN B AVERAGE PRESSURE	734.	6000	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	6000	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
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	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.19	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.7	6000	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	RCLA HOT LEG TEMPERATURE	594.1	6000	DEGF
40 T0410A	RCLE HOT LEG TEMPERATURE	594.1	6000	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	544.7	6000	DEGF
42 T0410B	RCLE COLD LEG TEMPERATURE	544.9	6000	DEGF
43 TAVGAWID	RCLA TAGS (THOT/TCOLD WIDE RNG)	569.4	6000	DEGF
44 TAVGBWID	RCLE TAGS (THOT/TCOLD WIDE RNG)	569.5	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.1	6000	%
46 TCCORE	5TH GEN TC AVERAGE TEMP	239.4	6000	DEGF
47 FAUXFWA	5TH GEN TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	5TH GEN TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKR081	5TH AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKR082	5TH AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	73.	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	OFF	GOOD	

## TREND SHEET 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.	GOOD	GPM
2 LRMT	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.3	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	273.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	36.7	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-2.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.06777-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.84591+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	5.04080-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.97242+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.31764-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.94256+04	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	7.27569+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	7.68464+03	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.05471+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.86255+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.32095+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.67639+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.58405+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.37804+02	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	GOOD	UC1/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.99995-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UC1/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD	UC1/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	GOOD	UC1/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UC1/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	GOOD	UC1/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	GOOD	UC1/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UC1/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987-04	GOOD	UC1/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)	6.01006-02	GOOD	MR/HR
38 R31RRQ	36A NOBLE GAS RELEASE RATE:15MRA	.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)	6.01006-02	GOOD	MR/HR
42 R32RRQ	36B NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	137.3	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	119.2	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	119.3	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	119.2	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	119.3	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	101.2	GOOD	DEGF

Time: 08:15  
Message: 13

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

The following alarms are received in the control room:

L-18 (Sump A actuation)

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**FOR CONTROLLER USE ONLY**

Controller Notes:

Actions Expected:

1. The plant should be continuing an orderly plant shutdown.
2. The plant should be continuing an evaluation of plant leakage



## 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	5.59756-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	5.47015-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	68.90	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2257.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	40.7	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.0	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.4	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSBTC	INORE TC SUBCOOLED MARGIN	63.0	GOOD	DEGF
15 LSSA	STM GEN A NARROW RANGE AVG LEVEL	52.2	GOOD	%
16 LSSB	STM GEN B NARROW RANGE AVG LEVEL	52.3	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	774.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	774.	GOOD	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	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 FPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON FPCS (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	.15	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.2	GOOD	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 9 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	COLD HOT LEG TEMPERATURE	585.8	GOOD	DEGF
40 T0410A	COLD HOT LES TEMPERATURE	585.8	GOOD	DEGF
41 T0409B	COLD COLD LEG TEMPERATURE	544.5	GOOD	DEGF
42 T0410B	COLD COLD LEG TEMPERATURE	544.5	GOOD	DEGF
43 TAVGAW1C	COLD AVG (THOT/TCOLD WIDE RNG)	565.1	GOOD	DEGF
44 TAVGBW1C	COLD AVG (THOT/TCOLD WIDE RNG)	565.1	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.2	GOOD	%
46 TCCORE	INORE TC AVERAGE TEMP	589.7	GOOD	DEGF
47 FAUXFWA	100% TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	100% TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	10% AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	10% 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	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	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	OFF	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.	1438	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	6000	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.5	6000	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	290.	6000	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	39.2	6000	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	37.4	6000	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-1.8	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	6000	HR/HR
9 R02	AREA 2-CONTAINMENT	3.95822+00	6000	HR/HR
10 R05	AREA 5-SPENT FUEL PIT	4.92605-01	6000	HR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	6000	HR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.41394-01	6000	HR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000	HR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.59175+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.11077+03	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	1.11397+04	6000	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.93819+00	6000	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.82935+01	6000	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.34965+01	6000	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.57126+02	6000	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.99995-02	6000	HR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	6000	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	6000	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987-04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	CLOSED	6000	
36 VMSVA	VALVE OF S/G A MSSV OPEN	0.	6000	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	6000	HR/HR
38 R31RRQ	SGA MOBILE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	6000	
40 VMSVB	VALVE OF S/G B MSSV OPEN	0.	6000	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	6000	HR/HR
42 R32RRQ	SGB MOBILE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	142.1	6000	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	123.1	6000	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	123.1	6000	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	123.1	6000	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	123.1	6000	DEGF
49 TCV17	CV OPERATING LVL 6FT TEMP #17	104.1	6000	DEGF

Time: 08:25

Message: 14

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

The following alarms are received in the control room:

L-18 (Sump A actuation)

The sump pump is running continuously.

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The RCS leakage has increased to approximately 50 gpm.

**Actions Expected:**

1. Operators will refer to AP-RCS.1
2. Operators will consider entering AP-TURB.5 "Rapid Load Reduction".
3. Operators should be consulting EPIP 1-0 to increase event classification

Time: 08:30  
Message: 15

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. RCS leak rate is approximately 50 gpm.

**Actions Expected:**

1. An alert should be declared in accordance with EPIP 1-0, EAL # 3.1.2 "unidentified leakage greater than 46 gpm.
2. Operators should implement EPIP 1-2.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: 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	INR	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.00000+00	INR	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	4.52896-04	INR	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	4.36514-04	INR	AMP
7 NP	AVERAGE NUCLEAR POWER	55.91	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2238.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	27.3	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.4	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.8	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INCRG TC SUBCOOLED MARGIN	72.7	GOOD	DEGF
15 LSSA	STM GEN A NARROW RANGE AVG LEVEL	52.3	GOOD	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	52.3	GOOD	%
17 PSSA	STM GEN A AVERAGE PRESSURE	795.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	795.	GOOD	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	GOOD	
20 GENXR2	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	.30	GOOD	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.6	GOOD	FEET
29 L0942E	SUMP B LEVEL 9 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	576.2	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	576.2	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	542.1	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	542.1	GOOD	DEGF
43 TAVGAW10	RCLA TAVG (THOT/TCOLD WIDE RNS)	559.1	GOOD	DEGF
44 TAVGBW10	RCLB TAVG (THOT/TCOLD WIDE RNS)	559.1	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.4	GOOD	%
46 TCCORE	E1.1 INCRG TC AVERAGE TEMP	579.3	GOOD	DEGF
47 FAUXFWA	E/S A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	E/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BXR081	4TR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BXR082	4TR 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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	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	OFF	GOOD	



## TREC GROUP ASSIGNMENT SUMMARY

GROUP: EVENTS FACILITIES: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	1344.	144M	GPM
2 LRKST	REFUELING WATER STORAGE TANK LVL	94.5	6000	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.7	6000	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	304.	6000	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	39.6	6000	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.0	6000	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-1.6	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.96397-02	6000	MR/HR
9 R02	AREA 2-CONTAINMENT	4.81394+00	6000	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	5.24807-01	6000	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.87283+01	6000	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.41394-01	6000	MR/HR
13 R35	AREA 35-PRESS SAMPLE PANEL	1.09648+00	6000	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.00966+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.36655+03	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	1.40039+04	6000	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.25231+00	6000	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	3.82935+01	6000	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.19429+01	6000	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	6000	CPM
21 R19	STEAM GENERATOR FLOW/CHAN DRAIN	4.40933+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	6000	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.36006-07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-MID RANGE GAS	1.99995-02	6000	MR/HR
27 R12A7	CV VENT CHAN 7-HIGH RANGE GAS	9.99984-06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	6000	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	6000	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	CLOSED	6000	
36 VNSSVA	NUMBER OF S/G A NSSV OPEN	0.	6000	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	6000	MR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	6000	
40 VNSSVB	NUMBER OF S/G B NSSV OPEN	0.	6000	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	6000	MR/HR
42 R32RRQ	SGB NOBLE GAS RELEASE RATE:15MRA	.00000+00	6000	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000	%
44 TCV03	CV BASEMENT LEVEL 4FT TEMP #3	176.3	6000	DEGF
45 TCV07	CV INTERMEDIATE LVL 4FT TEMP #7	143.1	6000	DEGF
46 TCV08	CV INTERMEDIATE LVL 4FT TEMP #8	142.9	6000	DEGF
47 TCV09	CV INTERMEDIATE LVL 4FT TEMP #9	143.1	6000	DEGF
48 TCV10	CV INTERMEDIATE LVL 4FT TEMP #10	142.9	6000	DEGF
49 TCV17	CV OPERATING LEVEL 4FT TEMP #17	109.9	6000	DEGF

Time: 08:45

Message: 16

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. The rate of plant shutdown should have increased due to increased RCS leakage.
2. The Technical Support Center, Operations Support Center and Survey Center should be activating.

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATNS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATNS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3 N31	SOURCE RANGE DETECTOR N-31	1.00000+00	INH	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.00000+00	INH	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.46554-04	INH	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.12577-04	INH	AMP
7 NP	AVERAGE NUCLEAR POWER	18.14	6000	%
8 PRC5	REACTOR COOLANT SYSTEM AVG PRESS	2257.	6000	PSIG
9 LPFR	PRESSURIZER AVERAGE LEVEL	39.3	6000	%
10 FRC1A	REACTOR COOLANT LOOP A AVG FLOW	97.6	6000	%
11 FRC1B	REACTOR COOLANT LOOP B AVG FLOW	97.0	6000	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	6000	
14 TSBTC	INCRP TO SUBCOOLED MARGIN	92.4	600+	DEGF
15 LSGA	5TH GEN A NARROW RANGE AVG LEVEL	49.4	6000	%
16 LSGB	5TH GEN B NARROW RANGE AVG LEVEL	49.4	6000	%
17 PSGA	5TH GEN A AVERAGE PRESSURE	944.	6000	PSIG
18 PSGB	5TH GEN B AVERAGE PRESSURE	944.	6000	PSIG
19 GENEXR1	GENERATOR ON LINE BREAKER 161372	NOT TRIP	6000	
20 GENEXR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	6000	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	6000	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	6000	
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	6000	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	6000	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.45	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.1	6000	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 76 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 79 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	ROLA HOT LEG TEMPERATURE	560.7	6000	DEGF
40 T0410A	ROLB HOT LEG TEMPERATURE	560.7	6000	DEGF
41 T0409B	ROLA COLD LEG TEMPERATURE	547.5	6000	DEGF
42 T0410B	ROLB COLD LEG TEMPERATURE	547.3	6000	DEGF
43 TAVGAWID	ROLA TAVG (THOT/TCOLD WIDE RNG)	554.1	6000	DEGF
44 TAVGBWID	ROLB TAVG (THOT/TCOLD WIDE RNG)	554.0	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.3	6000	%
46 TCCORE	5TH INCRP TO AVERAGE TEMP	561.5	600+	DEGF
47 FAUXFWA	5TH A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	5TH B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3503	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	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	OFF	GOOD	



Time: 08:50  
Message: 17X

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

**Declare an Alert in accordance with EPIP 1-0  
EAL # 3.1.2 "unidentified leakage greater than 46 gpm"**

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if an Alert has not yet been declared. Do not deliver if emergency classifications are in progress.

**Actions Expected:**





Time: 09:00  
Message: 18

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators should be stabilizing the plant using abnormal procedures AP-RCS.1 and AP-TURB.5 or O-2.2.
2. Operators should continue to evaluate the RCS leakage.
3. The TSC, OSC and SC should be staffing up.

## TEND POINT ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EP1P 1-S PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	6000	
3 NS1	SOURCE RANGE DETECTOR N-31	1.00000+00	INCH	CPS
4 NS2	SOURCE RANGE DETECTOR N-32	1.00000+00	INCH	CPS
5 NS3	INTERMEDIATE RANGE DETECTOR N-35	6.39731-08	6000	AMP
6 NS4	INTERMEDIATE RANGE DETECTOR N-36	5.17603-08	6000	AMP
7 NP	AVERAGE NUCLEAR POWER	.02	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2245.	6000	PSIG
9 LP1R	PRESSURIZER AVERAGE LEVEL	47.2	6000	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.4	6000	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.8	6000	%
12 RXT16	RCFA BREAKER CAUSE RX TRIP	NOT TRIP	6000	
13 RXT17	RCFB BREAKER CAUSE FX TRIP	NOT TRIP	6000	
14 TSUBTC	INCRE TO SUBCOOLED MARGIN	103.1	6000	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	41.1	6000	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	41.1	6000	%
17 PSGA	STM GEN A AVERAGE PRESSURE	1012.	6000	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	1012.	6000	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	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	.39	6000	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.9	6000	FEET
29 L0942E	SUMP B LEVEL 5 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 5 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 75 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 75 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	RCFA HOT LEG TEMPERATURE	549.9	6000	DEGF
40 T0410A	RCFB HOT LEG TEMPERATURE	549.9	6000	DEGF
41 T0409B	RCFA COLD LEG TEMPERATURE	549.1	6000	DEGF
42 T0410B	RCFB COLD LEG TEMPERATURE	548.8	6000	DEGF
43 TAVGAWID	RCFA TAVG (THOT/TCOLD WIDE RNG)	549.5	6000	DEGF
44 TAVGBWID	RCFB TAVG (THOT/TCOLD WIDE RNG)	549.4	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.3	6000	%
46 TDCORE	E1: INCRE TO AVERAGE TEMP	550.3	6000	DEGF
47 FAUXFWA	E1'S A TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
48 FAUXFWB	E1'S B TOTAL AUX FEEDWATER FLOW	0.	6000	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	6000	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	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	OFF	GOOD	

## TREND FILE ASSIGNMENT SUMMARY

CELL: 1 ENCL PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	CONDENSAT COOLING LOOP TOTAL FLW	1344.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.9	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	336.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	40.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	39.2	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-1.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	8.70964+00	GOOD	NR/HR
10 R05	AREA 5-SPENT FUEL PIT	4.92605-01	GOOD	NR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.97242+01	GOOD	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	8.41394-01	GOOD	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.75376+05	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	2.04173+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.13796+04	HMRY	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.19365+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.10321+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.87926+01	GOOD	CPM
20 R16	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	4.62379+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.11532+02	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 5-MID RANGE GAS	1.99995-02	GOOD	NR/HR
27 R12A7	CV VENT CHAN 5-HIGH RANGE GAS	9.99984-06	GOOD	UCI/CC
28 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	GOOD	UCI/CC
29 R14A7	PLANT VENT CHAN 5-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
30 R14A9	PLANT VENT CHAN 5-HIGH RANGE GAS	3.99971-03	GOOD	UCI/CC
31 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	GOOD	UCI/CC
32 R15A7	AIR EJECTOR CHAN 5-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
33 R15A9	AIR EJECTOR CHAN 5-HIGH RANGE GAS	9.99987-04	GOOD	UCI/CC
34 V3411C	STEAM LINE ARV 4	CLOSED	GOOD	
35 VMSVA	NUMBER OF S/S A FEED OPEN	0.	GOOD	# OPEN
36 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	NR/HR
37 R31FRA	31A NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
38 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
39 VMSVB	NUMBER OF S/S B FEED OPEN	0.	GOOD	# OPEN
40 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	NR/HR
41 R32FRA	32A NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
42 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
43 TCV03	CV EASEMENT LEVEL 3FT TEMP #3	155.4	GOOD	DEGF
44 TCV07	CV INTERMEDIATE LVL 3FT TEMP #7	154.8	GOOD	DEGF
45 TCV08	CV INTERMEDIATE LVL 3FT TEMP #8	154.8	GOOD	DEGF
46 TCV09	CV INTERMEDIATE LVL 3FT TEMP #9	154.8	GOOD	DEGF
47 TCV10	CV INTERMEDIATE LVL 3FT TEMP #10	154.8	GOOD	DEGF
48 TCV17	CV OPERATING LEVEL 3FT TEMP #17	124.1	GOOD	DEGF



Time: 09:15

Message: 19

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

Alarms indicate a loss of all core exit thermocouples (CET) on train "A"

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. All "A" train CET's (including PPCS) fail.
2. When I&C reports to the actual control room direct them to the simulator control room to perform troubleshooting.

**Actions Expected:**

1. Operators should request I&C to investigate the loss of CET's.
2. I&C should go to the simulator control room and attempt to read CET indications using test equipment.



## GINNA STATION

### DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE

#### Mini-Scenario

**Activity: Loss of All CET indications**

#### Controller Notes:

1. When I&C shows up to the real control room, inform them to report to the simulator control room.
2. When I&C arrives at the simulator control room with their test equipment, substitute the controller's test equipment to obtain temperatures. Dial in the following temperatures on the test equipment at the appropriate time.

<u>TIME</u>	<u>TEMPERATURE</u>
0915-0945	550-570
0945-1005	Temperatures slowly increase from 550 to 670
1005-1105	Temperatures between 670 to 1500. CET temperatures increase from 670 on the out side of the core to 1500 in the middle of the core. (See attached map)
1105-end	Temperatures decrease from 1500 down into the 400 range on all CET's

#### Actions Expected:

1. I&C technicians should obtain core exit thermocouple temperatures by attaching test equipment to terminal connections prior to the terminal board.



Time: 09:15

Message: 20

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. RCS leakage is approximately 50gpm
2. All CET indications are unavailable using PPCS and megatherm indications.
3. Both "B" and "C" SI pumps are still out of service.

**Actions Expected:**

1. Plant should be in hot shutdown and making preparations to cooldown and depressurize per procedure O-2.2.
2. The plant may consider borating via MOV-350 per procedure ER-CVCS.1.
3. The TSC should be nearing operational readiness.



## TRAC GROUP - EQUIPMENT SUMMARY

GROUP 1: 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	5000	
2 RYT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 NG1	SOURCE RANGE DETECTOR N-31	2.01372+02	6000	CPS
4 NG2	SOURCE RANGE DETECTOR N-32	1.93845+02	6000	CPS
5 NG3	INTERMEDIATE RANGE DETECTOR N-35	1.24738-11	6000	AMP
6 NG3	INTERMEDIATE RANGE DETECTOR N-36	1.20227-11	6000	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	6000	%
8 PPCS	REACTOR COOLANT SYSTEM AVG PRESS	2258.	6000	PSIG
9 LPIR	FEEDWATER AVERAGE LEVEL	44.9	6000	%
10 FROLA	REACTOR COOLANT LOOP A AVG FLOW	97.7	6000	%
11 FROLE	REACTOR COOLANT LOOP B AVG FLOW	97.1	6000	%
12 RXT16	RCPA BREAKER CAUSE FA TRIP	NOT TRIP	6000	
13 RXT17	RCPB BREAKER CAUSE FA TRIP	NOT TRIP	6000	
14 TSLBTC	INCHES TO SUBCOOLED MARGIN	654.2	6000	DEGF
15 LSSA	STM GEN A NARROW RANGE AVG LEVEL	32.2	6000	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	32.8	6000	%
17 PSSA	STM GEN A AVERAGE PRESSURE	993.	6000	PSIG
18 PSSB	STM GEN B AVERAGE PRESSURE	993.	6000	PSIG
19 GE16KRI	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GE16KRC	GENERATOR ON LINE BREAKER 161372	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 BUS11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 BUS1212B	BUS 12B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.39	6000	PSIG
28 CSXPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.7	6000	FEET
29 L0942E	SUMP E LEVEL 8 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP E LEVEL 8 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP E LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP E LEVEL 78 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP E LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP E LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942S	SUMP E LEVEL 190 INCHES (TRAIN A)	LOWER	6000	
36 L0943S	SUMP E LEVEL 190 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP E LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP E LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	ROLL HOT LEG TEMPERATURE	547.7	6000	DEGF
40 T0410A	ROLL HOT LEG TEMPERATURE	547.7	6000	DEGF
41 T0409B	ROLL COLD LEG TEMPERATURE	546.9	6000	DEGF
42 T0410B	ROLL COLD LEG TEMPERATURE	546.7	6000	DEGF
43 TAVGAWID	ROLL TAVG (HOT/COLD WIDE RNG)	547.3	6000	DEGF
44 TAVGENID	ROLL TAVG (HOT/COLD WIDE RNG)	547.2	6000	DEGF
45 LRV	REACTOR VESSEL MEXAGE LEVEL	99.4	6000	%
46 T000RE	ELU. COORE TO AVERAGE TEMP	.0	6000	DEGF
47 FAUXFWA	E/S - TOTAL AUX FEEDWATER FLOW	45.	6000	GPM
48 FAUXFWB	E/S - TOTAL AUX FEEDWATER FLOW	46.	6000	GPM
49 SK5081	MTR AUXILIARY FEEDWATER PUMP A	ON	6000	
50 SKR082	MTR AUXILIARY FEEDWATER PUMP B	ON	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	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	OFF	GOOD	

## TEND GROUP - REACTOR SUMMARY

GROUP: 1 DATA PROCESSOR: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	CONDENSER COOLING LOOP TOTAL FLOW	1344.	GOOD	LMH GPM
2 LRWT	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.9	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	354.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	41.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	40.0	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-1.1	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.14815+01	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PT	4.92605-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	GOOD	MR/HR
12 R34	AREA 34 - AUX ELIG CV SPRAY PUMP	8.41394-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.67809+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	2.40574+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.53002+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.40645+01	GOOD	CPM
18 R13	AUX ELDS EXHAUST AIR PARTICULATE	4.24741+01	GOOD	CPM
19 R14	AUX ELDS EXHAUST GAS MONITOR	4.13950+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.57126+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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 SAMPLA	1.99995-02	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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31RR0	SGR NOBLE GAS RELEASE RATE:15RA	.00000+00	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RR0	SGR NOBLE GAS RELEASE RATE:15RA	.00000+00	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TC003	CV SUMP LEVEL 6FT TEMP #3	187.0	GOOD	DEGF
45 TC007	CV INTERMEDIATE LVL 6FT TEMP #7	157.6	GOOD	DEGF
46 TC008	CV INTERMEDIATE LVL 6FT TEMP #8	157.7	GOOD	DEGF
47 TC009	CV INTERMEDIATE LVL 6FT TEMP #9	157.6	GOOD	DEGF
48 TC010	CV INTERMEDIATE LVL 6FT TEMP #10	157.7	GOOD	DEGF
49 TC017	CV OPERATING LVL 6FT TEMP #17	128.2	GOOD	DEGF

Time: 09:30  
Message: 21

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. CET indications are available by I&C obtaining readings at the terminal board.

**Actions Expected:**

1. The plant continues to cooldown and depressurize per O-2.2.
2. I&C should be obtaining CET readings.

## TEST GROUP ASSIGNMENT SUMMARY

GROUP: 1-5-71 PROCEEDING, EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	6000	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.94536+02	6000	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.90545+02	6000	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.03595-11	6000	APP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.19124-11	6000	APP
7 NP	AVERAGE NUCLEAR POWER	.00	6000	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2256.	6000	PS16
9 LPZR	PRESSURIZER AVERAGE LEVEL	44.9	6000	%
10 FCCLA	REACTOR COOLANT LOOP A AVG FLOW	101.8	6000	%
11 FCCLB	REACTOR COOLANT LOOP B AVG FLOW	11.7	INHS	%
12 RXT16	RCFB BREAKER CAUSE FY TRIP	NOT TRIP	6000	
13 RXT17	RCFB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCRESE TO SUBCOOLED MARGIN	654.0	600+	DEGF
15 LSGA	STM SEN A NARROW RANGE AVG LEVEL	24.5	LARM	%
16 LSSB	STM SEN B NARROW RANGE AVG LEVEL	25.6	LARM	%
17 PSGA	STM SEN A AVERAGE PRESSURE	993.	6000	PS16
18 PSGB	STM SEN B AVERAGE PRESSURE	979.	6000	PS16
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	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 PSCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PSCS (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	.56	6000	PS16
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.2	HARM	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	LOWER	6000	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	LOWER	6000	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	6000	
32 L0943D	SUMP B LEVEL 79 INCHES (TRAIN B)	LOWER	6000	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	6000	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	6000	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	RCLA HOT LEG TEMPERATURE	548.4	6000	DEGF
40 T0410A	RCLE HOT LEG TEMPERATURE	544.9	6000	DEGF
41 T0409B	RCLE COLD LEG TEMPERATURE	546.9	6000	DEGF
42 T0410B	RCLE COLD LEG TEMPERATURE	545.3	6000	DEGF
43 TAVGAWID	RCLE TWS HOT/COLD WIDE RANG	547.6	6000	DEGF
44 TAVGEWID	RCLE TWS HOT/COLD WIDE RANG	545.1	6000	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.2	6000	%
46 TCCORE	ELC CORE TO AVERAGE TEMP	.0	600+	DEGF
47 FAUXFNA	S/A B TOTAL AUX FEEDWATER FLOW	219.	6000	GPM
48 FAUXFNB	S/A B TOTAL AUX FEEDWATER FLOW	223.	6000	GPM
49 SKR061	MTR AUXILIARY FEEDWATER PUMP A	ON	6000	
50 SKR062	MTR AUXILIARY FEEDWATER PUMP B	ON	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	6000	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	82.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	74.	6000	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	6000	
58 BKR042	SERVICE WATER PUMP B	ON	6000	
59 BKR043	SERVICE WATER PUMP C	ON	6000	
60 BKR044	SERVICE WATER PUMP D	OFF	6000	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	1344.	HALM	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	359.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	41.4	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	40.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-1.9	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	1.37246+01	GOOD	NR/HR
10 R05	AREA 3-SPENT FUEL PIT	5.15822-01	GOOD	NR/HR
11 R09	AREA 4-LETDOWN LINE MONITOR	1.80925+01	GOOD	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	6.31764-01	GOOD	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09649+00	GOOD	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.85698+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	2.72661+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.83057+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.56000+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.13680+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.03297+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.64768+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.58405+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.37804+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	1.99995-02	GOOD	NR/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	9.99957-04	GOOD	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VNSSVA	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	NR/HR
38 R31RR0	SSB MOLE GAS RELEASE RATE:15MRA	5.57948-05	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VNSSVB	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	NR/HR
42 R32RR0	SSB MOLE GAS RELEASE RATE:15MRA	5.63115-05	GOOD	CI/SEC
43 C1H	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCW03	CV FREIGHT LEVEL 8FT TEMP #3	187.2	GOOD	DEGF
45 TCW07	CV INTERMEDIATE LVL 8FT TEMP #7	158.8	GOOD	DEGF
46 TCW08	CV INTERMEDIATE LVL 8FT TEMP #8	158.8	GOOD	DEGF
47 TCW09	CV INTERMEDIATE LVL 8FT TEMP #9	158.8	GOOD	DEGF
48 TCW10	CV INTERMEDIATE LVL 8FT TEMP #10	158.8	GOOD	DEGF
49 TCW17	CV OPERATING LVL 8FT TEMP #17	130.3	GOOD	DEGF

Time: 09:45

Message: 22

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

The following alarms are received in the control room:

F-10 (Pressurizer low pressure trip 2185 psi)  
D-20 (Pressurizer low pressure trip 1873 psi)  
D-19 (Pressurizer low pressure SI 1750 psig)

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. All safeguard equipment starts except the two SI pumps. They are OOC due to previous problems.
2. The loss of coolant is an initial 455,000 gpm leak from a severed "B" RCP discharge pipe where it connects to the pump.

**Actions Expected:**

1. Operators take immediate actions in accordance with procedure E-0 "Reactor trip or safety injection"







## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EFIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	434.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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 FLOW	692.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	92.7	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	359.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	41.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	41.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.7	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.06777-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	1.65006+04	HALM	NR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.01155+01	GOOD	NR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.87253+01	GOOD	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.42890+01	WARN	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.80736+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	2.39538+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.64164+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.63587+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.53159+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.59065+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.33160+01	WARN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.99627-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	1.99995-02	GOOD	NR/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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMSVA	MANAGER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	NR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VMSVB	MANAGER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	NR/HR
42 R32RRQ	SGB NOBLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TC003	CV BASEMENT LEVEL 6FT TEMP #3	250.5	GOOD	DEGF
45 TC007	CV INTERMEDIATE LVL 6FT TEMP #7	271.2	GOOD	DEGF
46 TC008	CV INTERMEDIATE LVL 6FT TEMP #8	272.4	GOOD	DEGF
47 TC009	CV INTERMEDIATE LVL 6FT TEMP #9	271.2	GOOD	DEGF
48 TC010	CV INTERMEDIATE LVL 6FT TEMP #10	272.4	GOOD	DEGF
49 TC017	CV OPERATING LEVEL 6FT TEMP #17	293.5	GOOD	DEGF



Time: 09:46  
Message: 23

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The core uncovers during the blowdown phase of the large break LOCA.
2. A large amount of the fuel gap activity is released due to fuel rod bursting because of core uncover during the initial reactor coolant system blowdown. Containment radiation levels are increasing.

**Actions Expected:**

1. Operators are taking immediate actions in accordance with procedure E-0.

Time: 09:47  
Message: 24

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The core remains uncovered. Fuel rods continue to burst due to the uncover.
2. RCP trip criteria IS NOT met.

**Actions Expected:**

1. Operators should be taking action in accordance with E-0 and E-1 "Loss of reactor or secondary coolant".

Time: 10:00  
Message: 25

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

**Actions Expected:**

1. Operators should be stabilizing the plant using emergency operating procedures.
2. A Site Area Emergency should be declared in accordance with EPIP 1-0, EAL # 2.3.2 "Containment radiation levels >100R/hr on R-29/30"
3. The plant should implement EPIP 1-3 "Site Area Emergency"



TRNS GROUP - INCIDENT SUMMARY

GROUP: 11:21:00 PROCEEDING: STOP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	UNIT	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	4.80055+01	6000 CPS	
4 N32	SOURCE RANGE DETECTOR N-32	4.75525+01	6000 CPS	
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.12551+11	6000 AMP	
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.14713+11	6000 AMP	
7 NP	AVERAGE NUCLEAR POWER	.00	6000 %	
8 PFC5	REACTOR COOLANT SYSTEM AVG PRESS	5.	LALN PS16	
9 LPR	PRESSURIZER AVERAGE LEVEL	.0	LALN %	
10 FCCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHG %	
11 FCCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHG %	
12 RXT15	RCPP BREAKER CAUSE R4 TRIP	TRIPPED	ALRM	
13 RXT17	RCPP BREAKER CAUSE R4 TRIP	TRIPPED	ALRM	
14 TSUSTC	INCRE TO SUBCOOLED MARGIN	227.6	600+ DEGF	
15 L36A	STM GEN A NARROW RANGE AVG LEVEL	41.6	6000 %	
16 L36B	STM GEN B NARROW RANGE AVG LEVEL	51.1	6000 %	
17 P36A	STM GEN A AVERAGE PRESSURE	923.	6000 PS16	
18 P36B	STM GEN B AVERAGE PRESSURE	922.	6000 PS16	
19 GDSKX1	GENERATOR ON LINE SPEAKER 151372	TRIPPED	ALRM	
20 GDSKX2	GENERATOR ON LINE SPEAKER 151372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PFC5 (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PFC5 (7/19/91)	NOT TRIP	DEL	
25 BUS11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 BUS11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	4.31	HALN PS16	
28 LEUMPA	CONTAINMENT SURF A AVERAGE LEVEL	31.2	HEMG FEET	
29 L0942E	SURF E LEVEL 9 INCHES (TRAIN A)	HIGHER	INHG	
30 L0943E	SURF E LEVEL 9 INCHES (TRAIN B)	HIGHER	INHG	
31 L0942D	SURF E LEVEL 76 INCHES (TRAIN A)	HIGHER	INHG	
32 L0943D	SURF E LEVEL 76 INCHES (TRAIN B)	HIGHER	INHG	
33 L0942C	SURF E LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SURF E LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SURF E LEVEL 160 INCHES (TRAIN A)	LOWER	6000	
36 L0943B	SURF E LEVEL 160 INCHES (TRAIN B)	LOWER	6000	
37 L0942A	SURF E LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38 L0943A	SURF E LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39 T0409A	ROLL HOT LEG TEMPERATURE	262.7	6000 DEGF	
40 T0410A	ROLL HOT LEG TEMPERATURE	168.7	6000 DEGF	
41 T0409B	ROLL COLD LEG TEMPERATURE	452.4	6000 DEGF	
42 T0410B	ROLL COLD LEG TEMPERATURE	409.1	6000 DEGF	
43 TAYGANID	ROLL AVG (THOT/TCOLD WIDE RNG)	357.5	6000 DEGF	
44 TAYGEWID	ROLL AVG (THOT/TCOLD WIDE RNG)	289.9	6000 DEGF	
45 LRV	REACTOR VESSEL AVERAGE LEVEL	65.4	LALN %	
46 T0005E	STM INCRE TO AVERAGE TEMP	.0	300+ DEGF	
47 PAUXFMA	S/G A TOTAL AUX FEEDWATER FLOW	0.	6000 GPM	
48 PAUXFMB	S/G B TOTAL AUX FEEDWATER FLOW	1.	6000 GPM	
49 SKR081	NTR AUXILIARY FEEDWATER PUMP A	ON	6000	
50 SKR082	NTR AUXILIARY FEEDWATER PUMP B	ON	6000	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000	

## TRENDS GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 PS1A	SAFETY INJECTION LOOP A AVG FLOW	48.	6000	GPM
54 PS1B	SAFETY INJECTION LOOP B AVG FLOW	424.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	6000	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	6000	
58 BKR042	SERVICE WATER PUMP B	ON	6000	
59 BKR043	SERVICE WATER PUMP C	ON	6000	
60 BKR044	SERVICE WATER PUMP D	ON	6000	



TEST GROUP ASSIGNMENT SUMMARY

GROUP: 5-2170 PROCEDURE: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0419	COMPACT COOLING LOOP TOTAL FLOW	564.	HAHM	CPH
2 LPA5T	REFUELING WATER STORAGE TANK LVL	65.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.4	GOOD	MPH
4 WS033	33 FOOT LEVEL WIND DIRECTION	359.	GOOD	DEG.
5 WS033	33 FOOT LEVEL TEMPERATURE	42.3	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	41.7	GOOD	DEGF
7 WD72	250 TO 33 FOOT LEVEL DELTA TEMP	-1.6	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	2.25164+05	HAHM	NR/HR
10 R05	AREA 5-REFUEL FUEL PIT	1.02920+01	GOOD	NR/HR
11 R09	AREA 9-LEAKDOWN LINE MONITOR	1.80925+01	GOOD	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.46218+01	HAHM	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.41781+05	HAHM	CPH
15 R11	CONTAINMENT AIR PARTICULATE	2.34422+03	GOOD	CPH
16 R12	CONTAINMENT GAS MONITOR	2.37137+04	HAHM	CPH
17 R10B	PLANT VENT IODINE MONITOR R10B	1.76045+01	GOOD	CPH
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.30277+01	GOOD	CPH
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.39667+01	GOOD	CPH
20 R19	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	GOOD	CPH
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.40933+02	GOOD	CPH
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.22427+02	HAHM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.22427+02	HAHM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	GOOD	CPH
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50066-07	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	9.99908-02	GOOD	NR/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	9.99937-04	GOOD	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VS411C	STEAM LINE ARV A	CLOSED	GOOD	
36 VMSVA	MANEUF OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPINS)	6.01066-02	GOOD	NR/HR
38 R31RQ	SSA MOLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
39 VS410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VMSVB	MANEUF OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPINS)	6.01066-02	GOOD	NR/HR
42 R32RQ	SSA MOLE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CHN	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TDV03	CV DISSEMENT LEVEL 3FT TEMP #3	162.7	GOOD	DEGF
45 TDV07	CV INTERMEDIATE LVL 3FT TEMP #7	155.5	GOOD	DEGF
46 TDV08	CV INTERMEDIATE LVL 3FT TEMP #8	156.5	GOOD	DEGF
47 TDV09	CV INTERMEDIATE LVL 3FT TEMP #9	155.5	GOOD	DEGF
48 TDV10	CV INTERMEDIATE LVL 3FT TEMP #10	155.5	GOOD	DEGF
49 TDV17	CV OPERATING LEVEL 6FT TEMP #17	149.4	GOOD	DEGF



Time: 10:15

Message: 26

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Containment radiation levels continue to increase due to hot channels caused by flow anomalies that occurred due to the thermohydraulic effects of RCS blowdown.
2. Controllers should continue to provide I&C with CET readings.

**Actions Expected:**

1. Operators are stabilizing the plant using procedure E-1 "Loss of reactor or secondary coolant"



## TEND GROUP ASSIGNMENT SUMMARY

GROUP: 1.0000 RECD: 0010 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 NS1	SOURCE RANGE DETECTOR N-31	4.65525+01	GOOD	CPS
4 NS2	SOURCE RANGE DETECTOR N-32	4.62379+01	GOOD	CPS
5 NS3	INTERMEDIATE RANGE DETECTOR N-35	1.05581+11	GOOD	AMP
6 NS6	INTERMEDIATE RANGE DETECTOR N-36	1.04713+11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	00.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FROLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FROLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	ROPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	ROPE BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCHES TO SUBCOOLED MARGIN	210.3	GOOD	DEGF
15 LS6A	STM GEN A NARROW RANGE AVG LEVEL	40.9	GOOD	%
16 LS6B	STM GEN B NARROW RANGE AVG LEVEL	50.7	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	897.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	896.	GOOD	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENXR2	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 PRCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PRCS (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 LSUPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942F	SUMP B LEVEL 183 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943F	SUMP B LEVEL 183 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	ROLA HOT LEG TEMPERATURE	323.7	GOOD	DEGF
40 T0410A	ROLE HOT LEG TEMPERATURE	154.0	GOOD	DEGF
41 T0409B	ROLA COLD LEG TEMPERATURE	466.2	GOOD	DEGF
42 T0410B	ROLE COLD LEG TEMPERATURE	210.4	GOOD	DEGF
43 TAVSWID	ROLA TAVS (THOT/TCOLD WIDE RNS)	375.0	GOOD	DEGF
44 TAVSBWID	ROLE TAVS (THOT/TCOLD WIDE RNS)	182.2	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	54.2	LALM	%
46 T000PE	ELI INCHES TO AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFMA	S/S A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFMB	S/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 EKR081	4TR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EKR082	4TR AUXILIARY FEEDWATER PUMP B	ON	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	52.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	423.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	GOOD	PSIG
57 EKR041	SERVICE WATER PUMP A	ON	GOOD	
58 EKR042	SERVICE WATER PUMP B	ON	GOOD	
59 EKR043	SERVICE WATER PUMP C	ON	GOOD	
60 EKR044	SERVICE WATER PUMP D	ON	GOOD	





## TEND GROUP ASSIGNMENT SUMMARY

GROUP: 5.2.22 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	CONDENSATE COOLING LOOP TOTAL FLOW	892.	HALN	GPM
2 LWST-	REFUELING WATER STORAGE TANK LVL	36.0	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.5	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	17.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	42.7	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	42.4	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.96397-02	GOOD	MR/HR
9 R02	AREA 1-CONTAINMENT	4.98309+05	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+01	HALN	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.87283+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.47062+01	HALN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.31607+05	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	2.06835+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.29086+04	HALN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.72286+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.49262+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.39667+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.64768+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	4.75881+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	4.73492+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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 34/34A	1.46704+00	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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMS5VA	NUMBER OF S/G 5 MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31RR0	SEA NOBLE GAS RELEASE RATE:15MRA	0.00000+00	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	CLOSED	GOOD	
40 VMS5VB	NUMBER OF S/G 5 MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RR0	SEA NOBLE GAS RELEASE RATE:15MRA	0.00000+00	GOOD	CI/SEC
43 CVM	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV OPERATING LEVEL EFF TEMP #3	115.4	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL EFF TEMP #7	107.9	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL EFF TEMP #8	107.8	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL EFF TEMP #9	107.9	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL EFF TEMP #10	107.8	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL EFF TEMP #17	100.3	GOOD	DEGF

Time: 10:15

Message: 27X

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Emergency Coordinator**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

**Declare a Site Area Emergency using EPIP 1-0**

**EAL # 2.3.2 "Containment radiation levels >100R/hr on R-29/30**

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if a Site Area Emergency has not been declared. Do not deliver if emergency classifications are in progress.
2. Containment radiation levels continue to increase due to localized fuel melting.

**Actions Expected:**

Time: 10:30

Message: 28

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Containment radiation levels continue to increase.

**Actions Expected:**

1. Operators still stabilizing the plant using emergency operating procedures.
2. The Emergency Operations Facility should be staffing up.
3. A Site Evacuation should be considered.
4. A General Emergency should be declared per EPIP 1-0, EAL # 2.3.3
5. Immediate protective actions should be made using procedure EPIP 2-1



## PENDING ASSIGNMENT SUMMARY

GROUP: 2.071 PROCEDURE: 2.071-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT AND SCRAM	NO ATWS	GOOD	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 NG1	SOURCE RANGE DETECTOR N-31	4.45141+01	GOOD	CPS
4 NG2	SOURCE RANGE DETECTOR N-32	4.72062+01	GOOD	CPS
5 NG3	INTERMEDIATE RANGE DETECTOR N-33	1.05681-11	GOOD	AMP
6 NG6	INTERMEDIATE RANGE DETECTOR N-36	1.04713-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
9 PROS	REACTOR COOLANT SYSTEM AVG PRESS	.00	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FROLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FROLB	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	INCRS TC SUBCOOLED MARGIN	210.3	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	40.3	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	50.2	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	874.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	868.	GOOD	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENXR2	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 FPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON FPCS (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	-66	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP 3 LEVEL 3 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP 3 LEVEL 3 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP 3 LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP 3 LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP 3 LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP 3 LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP 3 LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP 3 LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP 3 LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP 3 LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	341.9	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	181.1	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	418.5	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	373.0	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	380.2	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	277.0	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	62.1	LALN	%
46 TCCORE	E1.1 INCRS TC AVERAGE TEMP	.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 EKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EKR082	MTR AUXILIARY FEEDWATER PUMP B	ON	GOOD	
51 V3505	AUX F1 PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX F2 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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	54.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	422.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	

## FIELD GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCESSED: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLOW	6501.	6000	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	13.0	LMRN	%
3 W0033	33 FOOT LEVEL WIND SPEED	4.6	6000	MPH
4 W0033	33 FOOT LEVEL WIND DIRECTION	37.	6000	DEG.
5 W0033	33 FOOT LEVEL TEMPERATURE	43.2	6000	DEGF
6 W0250	250 FOOT LEVEL TEMPERATURE	43.0	6000	DEGF
7 W0212	250 TO 33 FOOT LEVEL DELTA TEMP	-2	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	6000	HR/HR
9 R02	AREA 2-CONTAINMENT	9.88532+05	HALM	HR/HR
10 R05	AREA 5-SPENT FUEL PIT	2.95120+01	HALM	HR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.97242+01	6000	HR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.54882+01	HALM	HR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000	HR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	3.00260+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.89725+03	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	1.95265+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.78340+01	6000	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.53158+01	6000	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.71111+01	6000	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.67639+02	6000	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.62379+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.01815+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.01815+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.61532+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA SAMPLA	4.91406+00	6000	HR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001-07	6000	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	6000	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987-04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	CLOSED	6000	
36 W055VA	W055 OF S/G A ASSV OPEN	0.	6000	# OPEN
37 R31	W055 OF STEAM LINE 4 (SPING)	6.01006-02	6000	HR/HR
38 R31A9	STEAM LINE GAS RELEASE RATE:15MRA	0.00000+00	6000	CI/SEC
39 V3411C	STEAM LINE ARV B	CLOSED	6000	
40 W055VB	W055 OF S/G B ASSV OPEN	0.	6000	# OPEN
41 R32	W055 OF STEAM LINE 5 (SPING)	6.01006-02	6000	HR/HR
42 R32A9	STEAM LINE GAS RELEASE RATE:15MRA	0.00000+00	6000	CI/SEC
43 CVR	CO-10000N CONCENTRATION	0	6000	%
44 TCV03	TEMPERATURE LEVEL OFF TEMP 43	91.1	6000	DEGF
45 TCV07	TEMPERATURE LEVEL OFF TEMP 47	96.6	6000	DEGF
46 TCV08	TEMPERATURE LEVEL OFF TEMP 48	96.5	6000	DEGF
47 TCV09	TEMPERATURE LEVEL OFF TEMP 49	96.6	6000	DEGF
48 TCV10	TEMPERATURE LEVEL OFF TEMP 410	96.5	6000	DEGF
49 TCV17	TEMPERATURE LEVEL OFF TEMP 417	102.0	6000	DEGF



Time: 10:45  
Message: 29

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Operators are still stabilizing the plant per emergency operating procedures.

**Actions Expected:**

1. The TSC and the control room operators should be assessing sump "B" recirculation availability.
2. The EOF should be staffing up.

## TRNS GROUP -CONTINUED SUMMARY-

GROUP: TRNS: PROCEDURE: EEPF 1-3 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	UNIT	S. 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	4.67195+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	4.36013+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.05195-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.04232-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	0.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LAUN	%
10 FROLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INB	%
11 FROLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	213.5	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	39.6	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	49.7	GOOD	%
17 PSSA	STM GEN A AVERAGE PRESSURE	850.	GOOD	PSIG
18 PSSB	STM GEN B AVERAGE PRESSURE	841.	GOOD	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	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 FPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON FPCS (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	GOOD	PSIG
28 LSXPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HEAV	FEET
29 L0942E	SUMP 3 LEVEL 3 INCHES (TRAIN A)	HIGHER	INB	
30 L0943E	SUMP 3 LEVEL 3 INCHES (TRAIN B)	HIGHER	INB	
31 L0942D	SUMP 3 LEVEL 78 INCHES (TRAIN A)	HIGHER	INB	
32 L0943D	SUMP 3 LEVEL 78 INCHES (TRAIN B)	HIGHER	INB	
33 L0942C	SUMP 3 LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP 3 LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP 3 LEVEL 150 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP 3 LEVEL 150 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP 3 LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP 3 LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	343.0	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	155.5	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	430.9	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	389.2	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	387.0	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	272.3	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	63.8	LAUN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49 SKR081	NTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 SKR08C	NTR AUXILIARY FEEDWATER PUMP B	ON	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	122.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	458.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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: EPIF 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLOW	6502.	GOOD	GPM
2 LRWS1	REFUELING WATER STORAGE TANK LVL	12.2	LRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.8	GOOD	MPH
4 WS033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.6	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.6	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572+02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.28825+06	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09029+01	HALN	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.93865+01	GOOD	MR/HR
12 R34	AREA 34 - AUX PLOG CV SPRAY PUMP	1.57580+01	WARN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R104	CONTAINMENT IODINE MONITOR R104	2.87573+05	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.71051+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.68606+04	WARN	CPM
17 R108	PLANT VENT IODINE MONITOR R108	1.81446+01	GOOD	CPM
18 R13	AUX PLOG EXHAUST AIR PARTICULATE	4.30277+01	GOOD	CPM
19 R14	AUX PLOG EXHAUST GAS MONITOR	4.37773+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.57126+02	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	4.72469+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006+07	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 5-AREA GAMMA	7.00000+00	WARN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99924+06	GOOD	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99927+04	GOOD	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.50001+07	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99924+06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971+03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79963+06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99924+06	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99927+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)	6.01006+02	GOOD	MR/HR
38 R31RRQ	S3A MOBILE GAS RELEASE RATE:15MRA	.00000+00	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)	6.01006+02	GOOD	MR/HR
42 R32RRQ	S3B MOBILE GAS RELEASE RATE:15MRA	.00000+00	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BREEMEN LEVEL 5FT TEMP 43	86.1	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 5FT TEMP 47	100.4	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 5FT TEMP 48	100.4	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 5FT TEMP 49	100.4	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 5FT TEMP 410	100.4	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL 5FT-TEMP 417	114.7	GOOD	DEGF



Time: 10:45  
Message: 30X

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Emergency Coordinator

**Message:** \*\*\*THIS IS A EXERCISE\*\*\*

Declare a General Emergency using EPIP 1-0  
EAL # 2.3.3 "Containment radiation levels >1000R/hr on R-29/30

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Deliver only if a General Emergency has not yet been declared. Do not deliver if emergency classifications are in progress.

**Actions Expected:**





Time: 11:00

Message: 31

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Containment radiation levels have stabilized.
2. The injection phase of the accident is done or almost done.

**Actions Expected:**

1. Operations personnel should be aligning systems for the recirculation phase.



## TEND POLE ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPIP 1-S 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	4.12570+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.98565+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.05195-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.04232-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	00.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCFA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCFB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCRS TO SUBCOOLED MARGIN	210.3	GOOD	DEGF
15 LSSA	STM GEN A NARROW RANGE AVG LEVEL	30.2	LWRN	%
16 LSSB	STM GEN B NARROW RANGE AVG LEVEL	31.8	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALN	PSIG
19 GENEXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENEXR2	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	-.94	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
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	RCFA HOT LEG TEMPERATURE	152.0	GOOD	DEGF
40 T0410A	RCFB HOT LEG TEMPERATURE	149.2	GOOD	DEGF
41 T0409B	RCFA COLD LEG TEMPERATURE	209.8	GOOD	DEGF
42 T0410B	RCFB COLD LEG TEMPERATURE	212.6	GOOD	DEGF
43 TAVGAWID	RCFA TAVG (THOT/TCOLD WIDE RING)	180.9	GOOD	DEGF
44 TAVGBWID	RCFB TAVG (THOT/TCOLD WIDE RING)	180.9	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	66.3	LALN	%
46 TDCORE	SLI INCRS TO AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	S/S A TOTAL AUX FEEDWATER FLOW	206.	GOOD	GPM
48 FAUXFWB	S/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 EXR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EXR082	MTR AUXILIARY FEEDWATER PUMP B	ON	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	122.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	458.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	

## TEND GROUP ASSIGNMENT SUMMARY

GROUP: E-012 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	CONDENSER COOLING LOOP TOTAL FLOW	6502.	GOOD	GPM
2 LKWT	FUELING WATER STORAGE TANK LVL	12.1	WARN	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.7	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	44.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	44.3	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.2	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	1.33352+06	HALM	NR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09029+01	HALM	NR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.87283+01	GOOD	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.52230+01	WARN	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	NR/HR
14 R104	CONTAINMENT IODINE MONITOR R104	2.41962+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.47061+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.35285+04	WARN	CPM
17 R108	PLANT VENT IODINE MONITOR R108	1.72286+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	4.30277+01	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	4.37773+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.59175+02	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	7.00000+00	WARN	NR/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	1.50001-07	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	NR/HR
38 R31R80	SGA MOLE GAS RELEASE RATE:15MRA	1.25078-02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	NR/HR
42 R32R80	SGB MOLE GAS RELEASE RATE:15MRA	1.25078-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL AFT TEMP #3	83.9	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL AFT TEMP #7	89.8	GOOD	DEGF
46 TCV09	CV INTERMEDIATE LVL AFT TEMP #8	89.8	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL AFT TEMP #9	89.8	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL AFT TEMP #10	89.8	GOOD	DEGF
49 TCV17	CV OPERATING LVL AFT TEMP #17	95.7	GOOD	DEGF

Time: 11:15

Message: 32

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The plant safety systems are re-aligned and operating in the recirculation mode.

**Actions Expected:**

1. Operations personnel are continuing the emergency procedures.

Time: 11:16  
Message: 33

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The "B" RHR pump shaft seal has failed creating approximately a 50 gpm leak into the auxiliary building sub-basement.
2. Plant vent monitors show rapid increases in radiation levels. A major release to the environment begins.
3. Release path: from containment through the "B" RHR pump failed seal out the plant vent.

**Actions Expected:**

1. TSC and control room operators should try to locate the leak in the auxiliary building.

## TEND SELF ASSIGNMENT SUMMARY

GROUP: 5-5-1: PROCESSED: EPIC 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	4.19759+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.74540+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04713-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03753-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRC5	REACTOR COOLANT SYSTEM AVG PRESS	.00	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCOA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCOB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCHES TO SUBCOOLED MARGIN	210.3	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.9	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.8	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALN	PSIG
19 GDSXRI	SEPARATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GDSXRC	SEPARATOR 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 PRC5 (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PRC5 (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	-1.22	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942E	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943E	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942E	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943E	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942E	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943E	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942E	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943E	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409E	REL HOT LEG TEMPERATURE	130.2	GOOD	DEGF
40 T0410E	REL HOT LEG TEMPERATURE	163.2	GOOD	DEGF
41 T0409E	REL HOT LEG TEMPERATURE	208.9	GOOD	DEGF
42 T0410E	REL HOT LEG TEMPERATURE	212.4	GOOD	DEGF
43 TAVGAA1E	REL HOT LEG TEMPERATURE (RNG)	169.5	GOOD	DEGF
44 TAVGAA2E	REL HOT LEG TEMPERATURE (RNG)	187.8	GOOD	DEGF
45 LRV	REL HOT LEG TEMPERATURE	40.0	LALN	%
46 T000FE	TEMP TO REPAIR TEMP	.0	GOOD	DEGF
47 F001F0E	TOTAL PUMP FEEDWATER FLOW	0.	GOOD	GPM
48 F001F0E	TOTAL PUMP FEEDWATER FLOW	0.	GOOD	GPM
49 SKR39E	REL HOT LEG TEMPERATURE PUMP A	ON	GOOD	
50 SKR39E	REL HOT LEG TEMPERATURE PUMP B	OFF	GOOD	
51 V350E	REL HOT LEG TEMPERATURE PUMP A	CLOSED	GOOD	
52 V350E	REL HOT LEG TEMPERATURE PUMP B	CLOSED	GOOD	





## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	60.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	

## TEND GROUP ASSIGNMENT SUMMARY

GROUP: 1.5072 PROCEDURE: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLM	4600.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	12.1	LMRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4 WS033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	44.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	44.9	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.4	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.25169+06	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.97242+03	HALM	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.07730+03	HALM	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.06538+03	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.36796+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.45169+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.37049+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.78340+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	6.83909+06	HALM	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	7.04894+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.41343+06	HALM	CPM
21 R19	STEAM GENERATOR SLEWDOWN DRAIN	4.62379+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.61532+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 3A/MA	7.00000+00	HALM	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	1.77052-04	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.26765-02	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.52247-02	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79963-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD	UCI/CC
35 V3411C	STEAM LINE ARV A	NOT CLOSED	GOOD	
36 VMSVA	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPINS)	6.01006-02	GOOD	MR/HR
38 R31R6Q	SGA MOLE GAS RELEASE RATE:15MRA	1.39583-02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMSVB	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPINS)	6.01006-02	GOOD	MR/HR
42 R32R6Q	SGB MOLE GAS RELEASE RATE:15MRA	1.39583-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TC003	CV BASEMENT LEVEL 6FT TEMP #3	84.7	GOOD	DEGF
45 TC007	CV INTERMEDIATE LVL 6FT TEMP #7	87.7	GOOD	DEGF
46 TC008	CV INTERMEDIATE LVL 6FT TEMP #8	87.7	GOOD	DEGF
47 TC009	CV INTERMEDIATE LVL 6FT TEMP #9	87.7	GOOD	DEGF
48 TC010	CV INTERMEDIATE LVL 6FT TEMP #10	87.7	GOOD	DEGF
49 TC017	CV OPERATING LEVEL 6FT TEMP #17	-90.8	GOOD	DEGF

Time: 11:18  
Message: 34

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

The following alarms are received in the control room:

J-9 (Safeguard breaker trip)  
L-10

Indications in the control room include:

Bus 16 tripped  
"B" D/G starts then trips

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The "B" RHR pump trips out on overcurrent due to the failed seals.
2. If the control room operators try to re-energize bus 16, it will not re-energize from the normal supply.

**Actions Expected:**

1. Control room operators may try to re-energize bus 16.
2. TSC should be working on the leak in the auxiliary building.
3. Efforts should be underway to track the plume, terminate the release and implement/coordinate PARs.

Time: 11:30  
Message: 35

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

The following alarms are received in the control room:

L-9 (Auxiliary building sump high level) clearing and coming back intermittently

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The TSC should be concluding that the "B" RHR pump seal has failed.
2. The release will continue until 1245 hours.
3. The "B" D/G tripped on low lube oil pressure, lube oil sensing line leaks.

**Actions Expected:**

1. The TSC and control room should be working on isolating the "B" RHR pump to terminate the offsite release.
2. Efforts should be under way to track the plume and implement/coordinate PARs.
3. The TSC should be working on repair of the "B" D/G or bus 16 normal supply.

## TEND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEEDS: EPIF 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	3.81065+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.86367+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04713-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03753-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	.00	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
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	INCR TO SUBCOOLED MARGIN	210.3	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.7	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.8	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENBKRI	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENBKRI	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 PPES (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPES (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	-1.31	GOOD	PSIG
28 LSUPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HEIG	FEET
29 L0942E	SUMP 9 LEVEL 9 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP 9 LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP 9 LEVEL 79 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP 9 LEVEL 79 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP 9 LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP 9 LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP 9 LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP 9 LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP 9 LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP 9 LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	138.5	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	206.3	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	208.7	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	212.2	GOOD	DEGF
43 TAVGAWID	RCLA AVG (THOT/TCOLD WIDE RNG)	173.6	GOOD	DEGF
44 TAVGBWID	RCLB AVG (THOT/TCOLD WIDE RNG)	209.2	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM	%
46 T000RE	ENR INCR TO AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	SYS 9 TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	SYS 9 TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 EKR02	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EKR02	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V0305	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V0304	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	60.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2120	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	



## TEND GROUP ASSIGNMENT SUMMARY

GROUP: F7ENT1 PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QVAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	4597.	GOOD	GPM
2 LRAST	REFUELING WATER STORAGE TANK LVL	12.1	WARN	%
3 W5033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	44.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.4	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.96397+02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.31825+06	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.67282+04	HALM	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	3.80188+04	HALM	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.42767+04	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.32741+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.42069+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.43714+04	WARN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.57744+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	9.99992+06	HENG	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.78647+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03068+07	HENG	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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 SAMPL	1.99994+03	HALM	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	9.98974+03	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	3.39990+00	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.39990+00	WARN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983+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 NSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006+02	GOOD	MR/HR
38 R31ARRQ	SEA NOBLE GAS RELEASE RATE:15MRA	1.44543+02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMSSVB	NUMBER OF S/G B NSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006+02	GOOD	MR/HR
42 R32ARRQ	SEA NOBLE GAS RELEASE RATE:15MRA	1.44543+02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	80.7	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	84.8	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	84.8	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	84.8	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	84.8	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	88.9	GOOD	DEGF

Time: 11:45  
Message: 36

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

The following alarms are received in the control room:

L-9 (auxiliary building sump high level) clearing and coming back intermittently.

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The release will continue until 1245 hours.
2. High level alarm received in the survey center waste tank (see mini-scenario)
3. See bus 16 mini-scenarios for re-energizing bus 16. Either-repair "B" D/G or rack bus 16 normal supply breaker out then back in.

**Actions Expected:**

1. The TSC and control room should be working on isolating the "B" RHR pump to terminate the off-site release.
2. Efforts should be underway to track the plume and implement/coordinate PARs.
3. Efforts should be concentrated on restoring bus 16 (see mini-scenarios)
4. The RP section should be informed of the survey center decon tank alarm. The RP section should sample the decon tank. Sample results will allow the tank to be released.

## TEND GROUP ASSIGNMENT SUMMARY

SCHEM: 1-5-17 PROCESSED: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2 PX	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	3.70390+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.89044+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04713-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03753-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
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	INCCRE TC SUBCOOLED MARGIN	208.6	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.7	GOOD	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	31.8	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALN	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 131372	TRIPPED	ALRM	
20 GENXR2	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 PFCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PFCS (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	-1.41	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
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	135.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	162.5	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	208.2	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	212.0	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	172.0	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	187.2	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALN	%
46 TCCORE	E1.1 INCCRE TC AVERAGE TEMP	.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	NTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR082	NTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3305	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3304	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	60.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	



## REAL TIME ASSIGNMENT SUMMARY

GROUP: EVENTS PROCEEDS: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	4597.	GOOD	GPM
2 LWRST	REFUELING WATER STORAGE TANK LVL	12.0	LMRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.9	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.5	GOOD	DEGF
7 WD12	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.96397-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.33352+06	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.67282+04	HALM	MR/HR
11 R09	AREA 7-LETDOWN LINE MONITOR	3.93549+04	HALM	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.42767+04	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.41962+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.42069+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.43714+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.57744+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	9.99992+06	HEXG	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.78647+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.04864+07	HEXG	CPM
21 R19	STEAM GENERATOR SLOWDOWN DRAIN	4.40933+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	1.99994+03	HALM	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	9.98974-03	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	3.39990+00	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.39990+00	HALM	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMSVA	MUSER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31RRQ	SGA NOBLE GAS RELEASE RATE:15MRA	1.50087-02	GOOD	CI/SEC
39 V3411C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMSVB	MUSER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RRQ	SGB NOBLE GAS RELEASE RATE:15MRA	1.50087-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	79.5	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	83.4	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	83.4	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	83.4	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	83.4	GOOD	DEGF
49 TCV17	CV OPERATING LVL 6FT TEMP #17	87.3	GOOD	DEGF

## **GINNA STATION**

### **DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

#### **Mini-Scenario**

**Activity: Survey Center, Decontamination Tank High Level Alarm**

#### **Controller Notes:**

1. Initiate a high level alarm.
2. Provide indications that the tank level is high.

#### **Actions Expected:**

1. A sample of the tank contents should be obtained and analyzed.
2. The tank is released when sample results are obtained.

## DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE

### Mini-Scenario

#### Activity: "B" D/G Lube Oil Sensing Line Repair

##### Controller Notes:

1. See attached drawing
2. "B" D/G sensing line cap blows off on tee to PS-2888. This caused all three "B" D/G pressure transmitters to sense low pressure and trip the "B" D/G.
3. Allow maintenance personnel to obtain the required piping. DO NOT actually replace piping or allow the materials to be removed from the stockroom. DO make the stockroom personnel bring the material to the counter.

##### Actions Expected:

1. The repair team will be dispatched and will replace the piping with a new tee connection and cap. When the tee and cap has been properly installed and all isolation valves are opened, the "B" D/G will operate
2. Estimated time to accomplish activity less than 1 hour.



Pressure switches are located on the "B" D/G gaugeboard. Repair will be considered complete when a new tee and cap is obtained and then installed OR pressure switch PS-2888 tee connection is removed and capped.



## DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE

### Mini-Scenario

#### Activity: Bus 16 High Side Trips

##### Controller Notes:

1. Bus 16 high side tripped due to a faulty red light socket which caused a short across it, which in turn, energized the trip coil.
2. 4160 breaker is undamaged and bus 16 normal supply is undamaged.
3. The team needs to replace the socket on the main control board to repair the problem.
4. If fuses are simulated being pulled call the simulator booth (X6641) to inform the booth operator.

##### Actions Expected:

1. The repair team should investigate the 4160 breaker for bus 16.
2. The team should begin trouble shooting to repair the problem.



Time: 12:00  
Message: 37

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Provide information to the players as they repair and trouble shoot the following problems:  
(use appropriate mini-scenarios)
  - Survey center decon tank high level
  - "B" D/G lube oil sensing line
  - Bus 16 high side trip
  - Isolation of the "B" RHR pump
2. Isolation of the "B" RHR pump can occur when bus 16 is energized.

**Actions Expected:**

1. The TSC should be working on the isolation of the "B" RHR pump to terminate the release.



## TRNG SELF ASSIGNMENT SUMMARY

GROUP: 1.1.11 PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	GOAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOLFE RANGE DETECTOR N-31	3.37675+01	GOOD	CPS
4 N32	SOLFE RANGE DETECTOR N-32	3.37675+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04232-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03753-11	GOOD	AMP
7 NF	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PPCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHG	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHG	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCRSE TC SUBCOOLED MARGIN	208.6	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.6	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.7	GOOD	%
17 PSCA	STM GEN A AVERAGE PRESSURE	0.	LALN	PSIG
18 PSCB	STM GEN B AVERAGE PRESSURE	0.	LALN	PSIG
19 GENBARI	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENBGR2	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 BUS12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 BUS12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 FC	CONTAINMENT AVERAGE PRESSURE	-1.46	GOOD	PSIG
28 LFWA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 LFWB	SUMP A LEVEL 1 INCHES (TRAIN A)	HIGHER	INHG	
30 LFWC	SUMP A LEVEL 2 INCHES (TRAIN B)	HIGHER	INHG	
31 LFWD	SUMP A LEVEL 3 INCHES (TRAIN A)	HIGHER	INHG	
32 LFWE	SUMP A LEVEL 4 INCHES (TRAIN B)	HIGHER	INHG	
33 LFWF	SUMP A LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 LFWG	SUMP A LEVEL 112 INCHES (TRAIN B)	HIGHER	ALRM	
35 LFWH	SUMP A LEVEL 150 INCHES (TRAIN A)	LOWER	GOOD	
36 LFWI	SUMP A LEVEL 150 INCHES (TRAIN B)	LOWER	GOOD	
37 LFWJ	SUMP A LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 LFWK	SUMP A LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	133.9	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	170.0	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	208.0	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	211.7	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	171.0	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	190.9	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	.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 EKR091	NTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EKR092	NTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 EYCS	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 EYCB	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	





## TREND GROUP - ASSIGNMENT SUMMARY

GROUP: EVENT: PROCSLIFE. EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	60.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	GOOD	PSIG
57 SKR041	SERVICE WATER PUMP A	ON	GOOD	
58 SKR042	SERVICE WATER PUMP B	ON	GOOD	
59 SKR043	SERVICE WATER PUMP C	ON	GOOD	
60 SKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND TABLE ASSIGNMENT SUMMARY

SCHEM: E-2072 PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0519	COMPONENT COOLING LOOP TOTAL FLW	4597.	6000	GPM
2 LWST	REFUELING WATER STORAGE TANK LVL	-12.0	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.9	6000	MPH
4 WS033	33 FOOT LEVEL WIND DIRECTION	45.	6000	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	6000	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.5	6000	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	6000	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	6000	HR/HR
9 R02	AREA 2-CONTAINMENT	1.31825+06	HALM	HR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.44746+04	HALM	HR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	3.80188+04	HALM	HR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.38944+04	HALM	HR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000	HR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.32741+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.42069+03	6000	CPM
16 R12	CONTAINMENT GAS MONITOR	1.43714+04	HMKN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.78647+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	9.99992+06	HENG	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.78647+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03068+07	HENG	CPM
21 R19	STEAM GENERATOR SLOWDOWN DRAIN	4.58405+02	6000	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.37804+02	6000	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	6000	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.99994+03	HALM	HR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	6000	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	9.98974-03	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	3.39990+00	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.39990+00	HMKN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	9.99987-04	6000	UCI/CC
35 V3411C	STEAM LINE ARV A	NOT CLOSED	6000	
36 VMS5VA	WAGER OF S/G A MSSV OPEN	0.	6000	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	6000	HR/HR
38 R31RA0	SGA MOLE GAS RELEASE RATE:15MRA	1.56242-02	6000	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	6000	
40 VMS5VB	WAGER OF S/G B MSSV OPEN	0.	6000	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	6000	HR/HR
42 R32RA0	SGA MOLE GAS RELEASE RATE:15MRA	1.56242-02	6000	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000	%
44 TCW03	CV SEAWATER LEVEL 6FT TEMP #3	79.1	6000	DEGF
45 TCW07	CV INTERMEDIATE LVL 6FT TEMP #7	82.6	6000	DEGF
46 TCW08	CV INTERMEDIATE LVL 6FT TEMP #8	82.6	6000	DEGF
47 TCW09	CV INTERMEDIATE LVL 6FT TEMP #9	82.6	6000	DEGF
48 TCW10	CV INTERMEDIATE LVL 6FT TEMP #10	82.6	6000	DEGF
49 TCW17	CV OPERATING LVL 6FT TEMP #17	-86.2	6000	DEGF



## DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE

### Mini-Scenario

#### Activity: Isolation of the "B" RHR Pump

##### Controller Notes:

1. The shaft seal has failed on the "B" RHR pump creating an approximately 50 gpm leak to the auxiliary building sump. The sump pumps are working normally.
2. The leak can be stopped by closing valves MOV-850B and MOV-704B as the discharge check valve 710B will hold.

##### Actions Expected:

1. The TSC will request the following valves be closed to isolate the "B" RHR pump:
  - MOV-704B or MOV-704A (should be open at this time)
  - MOV-850B (should be open at this time)
2. If the TSC decides to close MOV-850B and MOV-704B locally, the controllers may allow the valves to be closed to isolate the leak.



Time: 12:15

Message: 38

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

The following alarms are received in the control room:

L-9 (auxiliary building sump high level) clearing and coming back in intermittently

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The release above technical specifications will continue until 12:45.

**Actions Expected:**

1. The TSC and the control room should be working on isolating the "B" RHR pump to terminate the offsite release.
2. Efforts should be underway to track the plume and implement/coordinate PARs.
3. The plant should continue their efforts to re-energize bus 16.

## TEND INFO ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPF 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 NG1	SOURCE RANGE DETECTOR N-31	3.31893+01	GOOD	CPS
4 NG2	SOURCE RANGE DETECTOR N-32	3.71952+01	GOOD	CPS
5 NG5	INTERMEDIATE RANGE DETECTOR N-35	1.04232-11	GOOD	AMP
6 NG6	INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
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	INCOPE TO SUBCOOLED MARGIN	208.6	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.6	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.7	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALN	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 161372	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	-1.50	GOOD	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP E LEVEL 8 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP E LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP E LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP E LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP E LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP E LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP E LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP E LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP E LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP E LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	132.6	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	160.1	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	208.0	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	211.5	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	170.3	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	185.8	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALN	%
46 TCCORE	E111 INCORE TO AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	E/S E TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	E/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR091	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR092	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	6000	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	6000	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	6000	
58 BKR042	SERVICE WATER PUMP B	ON	6000	
59 BKR043	SERVICE WATER PUMP C	ON	6000	
60 BKR044	SERVICE WATER PUMP D	ON	6000	



## TEND GROUP ASSIGNMENT SUMMARY

GROUP 1 ENVI PROCESSES: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6502.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	12.0	LMRM	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.28825+06	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.44746+04	HALM	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	4.07380+04	HALM	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.56861+04	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.47243+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.45169+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.37049+04	LMRM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.00432+07	HENG	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	1.00867+07	HENG	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.04864+07	HENG	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03068+07	HENG	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
23 R30	AREA 31-CONTAINMENT HIGH RANGE	1.30316+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 5-AREA GAMMA	1.99994+03	HALM	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	9.98974-03	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	3.39990+00	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.39990+00	LMRM	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	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 VMS5VA	W/GEAR OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31A9A	SSA MOLE GAS RELEASE RATE:15MRA	1.61830-02	GOOD	CI/SEC
39 V3411C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMS5VB	W/GEAR OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32A9A	SSA MOLE GAS RELEASE RATE:15MRA	1.61830-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV INTERMEDIATE LEVEL 5FT TEMP #3	79.2	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LEVEL 5FT TEMP #7	82.7	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LEVEL 5FT TEMP #8	82.6	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LEVEL 5FT TEMP #9	82.7	GOOD	DEGF
48 TCV11	CV INTERMEDIATE LEVEL 5FT TEMP #10	82.6	GOOD	DEGF
49 TCV17	CV INTERMEDIATE LEVEL 5FT TEMP #17	86.0	GOOD	DEGF

Time: 12:30  
Message: 39

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

The following alarms are received in the control room:

L-9 (auxiliary building sump high level) clearing and coming back in intermittently

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The release above technical specifications will continue until 12:45.

**Actions Expected:**

1. The TSC and the control room should be working on isolating the "B" RHR pump to terminate the offsite release.
2. Efforts should be underway to track the plume and implement/coordinate PARs.
3. MOV-704A or MOV-704B and MOV-850B should be closed at this time.



## TEND GROUP ASSIGNMENT SUMMARY

GROUP: 1 (7) PROCEDURE: EP1P 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	3.34195+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.34511+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.03753-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PPCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCIA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FRCIB	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	INCRF TC SUBCOOLED MARGIN	208.6	GOOD	DEGF
15 LSGA	STN GEN A NARROW RANGE AVG LEVEL	32.6	GOOD	%
16 LSGB	STN GEN B NARROW RANGE AVG LEVEL	31.7	GOOD	%
17 PSGA	STN GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STN GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENXR2	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	-1.50	GOOD	PSIG
28 LSMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP B LEVEL 120 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 120 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	131.9	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	207.8	GOOD	DEGF
41 T0409B	RCLA COLD LEG TEMPERATURE	207.8	GOOD	DEGF
42 T0410B	RCLB COLD LEG TEMPERATURE	211.1	GOOD	DEGF
43 TAVS4WID	RCLA TAVG (THOT/TCOLD WIDE RNG)	169.9	GOOD	DEGF
44 TAVB4WID	RCLB TAVG (THOT/TCOLD WIDE RNG)	209.5	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM	%
46 TCCORE	E1.1 INCRF TC AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	S/S A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 EKR061	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 EKR062	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: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	





## TEND HOPE - DESIGNMENT SUMMARY

GROUP: 5.1.7.1 PROCEDURE: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	CONDENSER COOLING LOOP TOTAL FLOW	6502.	GOOD	GPM
2 LWRST	REFUELING WATER STORAGE TANK LVL	12.0	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
6 WT050	250 FOOT LEVEL TEMPERATURE	45.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	1.15478+06	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.33041+04	HALM	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	3.95821+04	HALM	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.67282+04	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.47243+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.47061+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.35285+04	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.00432+07	HENG	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	9.57744+06	HALM	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.74430+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.82867+06	HALM	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.17236+03	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.17236+03	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+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	1.99994+03	HALM	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	9.98974-03	HALM	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	3.39990+00	HALM	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	3.39990+00	HALM	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD	UCI/CC
35 V3411C	STEAM LINE ARV A	NOT CLOSED	GOOD	
36 VMS5VA	NUMBER OF S/G A MS5V OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	GOOD	MR/HR
38 R31ARQ	S/G MOBILE GAS RELEASE RATE:15MRA	1.68036-02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMS5VB	NUMBER OF S/G B MS5V OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32ARQ	S/G MOBILE GAS RELEASE RATE:15MRA	1.68036-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV ELEMENT LEVEL 0FT TEMP #3	79.3	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 0FT TEMP #7	82.6	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 0FT TEMP #8	82.6	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 0FT TEMP #9	82.6	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 0FT TEMP #10	82.6	GOOD	DEGF
49 TCV17	CV OPERATING LVL 0FT TEMP #17	85.9	GOOD	DEGF

Time: 12:45

Message: 40

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for:** Repair team working on "B" RHR pump leak isolation

**Message:** \*\*\*THIS IS A EXERCISE\*\*\*

The "B" RHR pump is isolated with the closing of MOV-850B and either MOV-704A or MOV-704B. This leak into the auxiliary building is isolated.

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The leak in the auxiliary building must be considered isolated at 1245 hours whether accomplished by players or not. The remainder of the scenario assumes isolation at 1245.

**Actions Expected:**

1. The TSC should inform the other emergency centers that the leak is isolated.

## POINT VALUE ASSIGNMENT SUMMARY

SHEET: 5.5.71 PROCEDED: EPIC 1-5 PLANT STATUS

POINT NO	DESCRIPTION	VALUE	UNIT	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	3.27340+01	6000 CPS	
4	N32 SOURCE RANGE DETECTOR N-32	3.44746+01	6000 CPS	
5	N35 INTERMEDIATE RANGE DETECTOR N-35	1.03753-11	6000 AMP	
6	N36 INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	6000 AMP	
7	NP AVERAGE NUCLEAR POWER	.00	6000 %	
8	PRCS REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG PSIG	
9	LPZR PRESSURIZER AVERAGE LEVEL	.0	LALM %	
10	FRCLA REACTOR COOLANT LOOP 4 AVG FLOW	.0	INHG %	
11	FRCLS REACTOR COOLANT LOOP 3 AVG FLOW	.0	INHG %	
12	RXT16 RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13	RXT17 RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14	TSUBTC INCORE TO SUBCOOLED MARGIN	208.6	600+ DEGF	
15	LSSA STM GEN A NARROW RANGE AVG LEVEL	32.5	6000 %	
16	LSSB STM GEN B NARROW RANGE AVG LEVEL	31.7	6000 %	
17	PSGA STM GEN A AVERAGE PRESSURE	0.	LALM PSIG	
18	PSGB STM GEN B AVERAGE PRESSURE	0.	LALM PSIG	
19	GENKRI GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20	GENKRI2 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 PFCS (7/19/91)	NOT TRIP	DEL	
24	BUS12B NOT TERMINATED ON PFCS (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	-1.52	6000 PSIG	
28	LSUPA CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG FEET	
29	L0942C SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INHG	
30	L0943C SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHG	
31	L0942D SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INHG	
32	L0943D SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INHG	
33	L0942C SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34	L0943C SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35	L0942D SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	6000	
36	L0943D SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	6000	
37	L0942A SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	6000	
38	L0943A SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	6000	
39	T0409A FCLA HOT LEG TEMPERATURE	131.2	6000 DEGF	
40	T0410A FCLA HOT LEG TEMPERATURE	178.1	6000 DEGF	
41	T0409B FCLA COLD LEG TEMPERATURE	207.8	6000 DEGF	
42	T0410B FCLA COLD LEG TEMPERATURE	210.9	6000 DEGF	
43	TAVSANC FCLA TAVG (HOT/COLD WIDE RNG)	169.5	6000 DEGF	
44	TAVSANC FCLA TAVG (HOT/COLD WIDE RNG)	194.5	6000 DEGF	
45	LRV REACTOR VESSEL AVERAGE LEVEL	40.0	LALM %	
46	TDCOE SUMP INCORE TO AVERAGE TEMP	.0	600+ DEGF	
47	FAUXFMA SUMP A TOTAL AUX FEEDWATER FLOW	0.	6000 GPM	
48	FAUXFMB SUMP B TOTAL AUX FEEDWATER FLOW	0.	6000 GPM	
49	BKRCB1 SUMP A FEEDWATER PUMP A	ON	6000	
50	BKRCB2 SUMP B FEEDWATER PUMP B	OFF	6000	
51	V3505 SUMP A PUMP STEAM SUPPLY VALVE A	CLOSED	6000	
52	V3504 SUMP B PUMP STEAM SUPPLY VALVE B	CLOSED	6000	



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	GOOD	PSIG
57 EKR041	SERVICE WATER PUMP A	ON	GOOD	
58 EKR042	SERVICE WATER PUMP B	ON	GOOD	
59 EKR043	SERVICE WATER PUMP C	ON	GOOD	
60 EKR044	SERVICE WATER PUMP D	ON	GOOD	



## TEST SCOP ASSIGNMENT SUMMARY

SCOP: 1.0.01 PROCEDES: EPF 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F061P	COMPONENT COOLING LOOP TOTAL FLM	6502.	GOOD	GPM
2 LWRST	REFUELING WATER STORAGE TANK LVL	11.9	LMRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 1-CONTAINMENT	8.65961+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	2.06538+04	HALM	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.45470+04	HALM	MR/HR
12 R34	AREA 34 - AUX ELIG CV SPRAY PUMP	3.38844+04	HALM	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.32741+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.45169+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.37049+04	LMRN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.78647+06	HALM	CPM
18 R13	AUX ELIG EXHAUST AIR PARTICULATE	1.00867+07	HENG	CPM
19 R14	AUX ELIG EXHAUST GAS MONITOR	7.26521+06	HALM	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03068+07	HENG	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.58405+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.57902+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.57902+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.37804+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	1.36712+03	HALM	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	9.98974-03	HALM	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	3.99971-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.75983-06	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 4	NOT CLOSED	GOOD	
36 VMS5A	NUMBER OF S/G A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
38 R31RRQ	SGA MOLE GAS RELEASE RATE:15MRA	1.74470-02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV B	NOT CLOSED	GOOD	
40 VMS5B	NUMBER OF S/G B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	GOOD	MR/HR
42 R32RRQ	SGB MOLE GAS RELEASE RATE:15MRA	1.74470-02	GOOD	CI/SEC
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
44 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	79.7	GOOD	DEGF
45 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	82.7	GOOD	DEGF
46 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	82.7	GOOD	DEGF
47 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	82.7	GOOD	DEGF
48 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	82.7	GOOD	DEGF
49 TCV17	CV OPERATING LEVEL 6FT TEMP #17	-85.7	GOOD	DEGF





Time: 13:00  
Message: 41

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

Message for: Control Room

Message: \*\*\*THIS IS A EXERCISE\*\*\*

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. The release into the auxiliary building is isolated due to the isolation of the "B" RHR pump. Releases of noble gas, radioiodine and particulates through the plant vent will now be significantly lower.

**Actions Expected:**

1. Efforts should be underway to track the plume and implement/coordinate PARs.

TEST PLAN ASSIGNMENT SUMMARY

GROUP: 1.175 FACILITY: 1754 1754

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT AND SCRAM	NO ATWS	GOOD	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 NS1	SOURCE RANGE DETECTOR N-31	2.95120+01	GOOD	CPS
4 NS2	SOURCE RANGE DETECTOR N-32	3.17321+01	GOOD	CPS
5 NS3	INTERMEDIATE RANGE DETECTOR N-35	1.03753-11	GOOD	AMP
6 NS4	INTERMEDIATE RANGE DETECTOR N-36	1.02201-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PFC5	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LFR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FECLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INMB	%
11 FECLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INMB	%
12 RXT16	RCFA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCFB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUPTC	INCOPE TO SUBCOOLED MARGIN	206.8	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.5	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.6	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENXR2	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 PFC5 (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PFC5 (7/19/91)	NOT TRIP	DEL	
25 BUS12C	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 BUS12D	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	-1.52	GOOD	PSIG
28 LSGPPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 LSGP2E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INMB	
30 LSGP2E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INMB	
31 LSGP2E	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INMB	
32 LSGP2E	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INMB	
33 LSGP2E	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 LSGP2E	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 LSGP2E	SUMP B LEVEL 120 INCHES (TRAIN A)	LOWER	GOOD	
36 LSGP2E	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 LSGP2E	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 LSGP2E	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	ROLA HOT LEG TEMPERATURE	131.5	GOOD	DEGF
40 T0410A	ROLA HOT LEG TEMPERATURE	160.1	GOOD	DEGF
41 T0409B	ROLA COLD LEG TEMPERATURE	207.8	GOOD	DEGF
42 T0410B	ROLA COLD LEG TEMPERATURE	210.4	GOOD	DEGF
43 TANGAWID	ROLA TAVG (THOT/TCOLD WIDE RIG)	169.6	GOOD	DEGF
44 TANGENID	ROLA TAVG (THOT/TCOLD WIDE RIG)	185.3	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM	%
46 T0009E	SLV INCOPE TO AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFPA	S/S A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFPA	S/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 SKR021	YFP AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 SKR022	YFP AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V0305	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V0304	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EP1P 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	SPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2150	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	



## TEND SELF ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCELF: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F061F	COMPONENT COOLING LOOP TOTAL FLOW	6502.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	11.9	WARN	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	NR/HR
9 R02	AREA 2-CONTAINMENT	5.01187+05	HALM	NR/HR
10 R05	AREA 5-SPENT FUEL PIT	9.49511+03	HALM	NR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	1.28085+04	HALM	NR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.42767+04	HALM	NR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	NR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.36796+05	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.47061+03	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	1.35285+04	WARN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.91393+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	9.57744+06	HALM	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	3.47236+06	HALM	CPM
20 R19	LIQUID WASTE DISPOSAL MONITOR	9.82867+06	HALM	CPM
21 R19	STEAM GENERATOR SLOWDOWN DRAIN	4.62379+02	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	5.29576+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	5.28976+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.61532+02	GOOD	CPM
25 R12AS	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	GOOD	UCI/CC
26 R12AS	CV VENT CHAN 6-MID RANGE GAS	6.93312+02	HALM	NR/HR
27 R12AS	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
28 R12AS	CV VENT CHAN 9-HIGH RANGE GAS	9.99937-04	GOOD	UCI/CC
29 R14AS	PLANT VENT CHAN 5-LOW RANGE GAS	9.98974-03	HALM	UCI/CC
30 R14AS	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
31 R14AS	PLANT VENT CHAN 9-HIGH RANGE GAS	3.99971-03	GOOD	UCI/CC
32 R15AS	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	GOOD	UCI/CC
33 R15AS	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	GOOD	UCI/CC
34 R15AS	AIR EJECTOR CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD	UCI/CC
35 V3410C	STEAM LINE ARV 4	NOT CLOSED	GOOD	
36 VMS5VA	VALVE OF S/G 5 A MSSV OPEN	0.	GOOD	# OPEN
37 R31	AREA 31 STEAM LINE 4 (SPINS)	6.01006-02	GOOD	NR/HR
38 R31AS	SEE WASTE GAS RELEASE RATE:15MRA	1.81148-02	GOOD	CI/SEC
39 V3410C	STEAM LINE ARV 5	NOT CLOSED	GOOD	
40 VMS5VB	VALVE OF S/G 5 B MSSV OPEN	0.	GOOD	# OPEN
41 R32	AREA 32 STEAM LINE 5 (SPINS)	6.01006-02	GOOD	NR/HR
42 R32AS	SEE WASTE GAS RELEASE RATE:15MRA	1.81148-02	GOOD	CI/SEC
43 TCM	1. INTERMEDIATE LVL AFT TEMP 47	.0	GOOD	%
44 TCM03	1. INTERMEDIATE LVL AFT TEMP 48	80.2	GOOD	DEGF
45 TCM04	1. INTERMEDIATE LVL AFT TEMP 49	83.1	GOOD	DEGF
46 TCM05	1. INTERMEDIATE LVL AFT TEMP 49	83.1	GOOD	DEGF
47 TCM06	1. INTERMEDIATE LVL AFT TEMP 49	83.1	GOOD	DEGF
48 TCM07	1. INTERMEDIATE LVL AFT TEMP 49	83.2	GOOD	DEGF
49 TCM08	1. OPERATING LVL AFT TEMP 417	86.2	GOOD	DEGF

Time: 13:15  
Message: 42

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

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**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Plume tracking continues. Off-site radiation levels near the Ginna plant have dropped substantially due to the departure of the plume.

**Actions Expected:**

1. See recovery mini-scenario





REF ID: A66573

DATE: 11-11-64 TIME: 11:00 AM STATUS: 11:00 AM

POINT NO	DESCRIPTION	VALUE	UNIT	STATUS
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	3.06549+01	6000 CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.03355+01	6000 CPS
5	N33	INTERMEDIATE RANGE DETECTOR N-33	1.03276-11	6000 AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.02901-11	6000 AMP
7	NP	AVERAGE NUCLEAR POWER	.00	6000 %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM %
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	IN# %
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	IN# %
12	RXT16	RCP#1 BREAKER CAUSE RX TRIP	TRIPPED	ALRM
13	RXT17	RCP#2 BREAKER CAUSE RX TRIP	TRIPPED	ALRM
14	TSUBTC	INCREASE TO SUBCOOLED MARGIN	206.8	600+ DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.4	6000 %
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.6	6000 %
17	PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM PSIG
19	GENEWR1	GENERATOR ON LINE BREAKER 151372	TRIPPED	ALRM
20	GENEWR2	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 FPDS (7/19/91)	NOT TRIP	DEL
24	BUS12B	NOT TERMINATED ON FPDS (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	FCV	CONTAINMENT AVERAGE PRESSURE	-1.54	6000 PSIG
28	SUMP#A	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENS FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	IN#
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	IN#
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	IN#
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	IN#
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM
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	131.0	6000 DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	203.7	6000 DEGF
41	T0409B	RCLA COLD LEG TEMPERATURE	207.3	6000 DEGF
42	T0410B	RCLB COLD LEG TEMPERATURE	210.2	6000 DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	169.4	6000 DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	206.9	6000 DEGF
45	LEV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM %
46	TOCORE	E1... INCREASE TO AVERAGE TEMP	.0	600+ DEGF
47	FWXFWA	S/E - TOTAL AUX FEEDWATER FLOW	0.	6000 GPM
48	FWXFWB	S/E - TOTAL AUX FEEDWATER FLOW	0.	6000 GPM
49	SKR061	YTR AUXILIARY FEEDWATER PUMP A	ON	6000
50	SKR062	YTR AUXILIARY FEEDWATER PUMP B	OFF	6000
51	V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	6000
52	V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	6000



## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	

## TEND GPC- ASSIGNMENT SUMMARY

FOLLOWING ARE PROCESSED EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	UNITS	E. U.
1 F0819	COMPONENT COOLING LOOP TOTAL FLW	6502.	5000 GPM	
2 LEAST	REFUELING WATER STOPPAGE TANK LVL	11.9	LWRN %	
3 WS033	33 FOOT LEVEL WIND SPEED	5.0	6000 MPH	
4 WS033	33 FOOT LEVEL WIND DIRECTION	45.	6000 DEG.	
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	6000 DEGF	
6 WT050	250 FOOT LEVEL TEMPERATURE	45.5	6000 DEGF	
7 WT070	121 TO 33 FOOT LEVEL DELTA TEMP	.5	6000 DEGF	
8 R01	AREA 1-CONTROL ROOM	9.75992-02	6000 NR/HR	
9 R02	AREA 1-CONTAINMENT	1.94984+05	HALM NR/HR	
10 R05	AREA 5-SPENT FUEL PIT	1.18168+02	HALM NR/HR	
11 R09	AREA 9-LETDOWN LINE MONITOR	6.13056+01	6000 NR/HR	
12 R24	AREA 34 - AUX BLDG CV SPRAY PUMP	3.33041+04	HALM NR/HR	
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	6000 NR/HR	
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.47243+05	HALM CPM	
15 R11	CONTAINMENT AIR PARTICULATE	1.45169+03	6000 CPM	
16 R12	CONTAINMENT GAS MONITOR	1.37049+04	HALM CPM	
17 R10B	PLANT VENT IODINE MONITOR R10B	1.00432+07	HEMG CPM	
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	1.00867+07	HEMG CPM	
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.92475+05	HALM CPM	
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03068+07	HEMG CPM	
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	4.72469+02	5000 CPM	
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.02127+02	HALM R/HR	
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.03148+02	HALM R/HR	
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.54306+02	6000 CPM	
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	6000 UCI/CC	
26 R12A6	CV VENT CHAN 6-AREA GAMMA	4.13553+01	HALM NR/HR	
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	9.99984-06	6000 UCI/CC	
28 R12A8	CV VENT CHAN 8-HIGH RANGE GAS	9.99987-04	6000 UCI/CC	
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	9.98974-03	HALM UCI/CC	
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	6000 UCI/CC	
31 R14A8	PLANT VENT CHAN 8-HIGH RANGE GAS	3.99971-03	5000 UCI/CC	
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79983-06	6000 UCI/CC	
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	6000 UCI/CC	
34 R15A8	AIR EJECTOR CHAN 8-HIGH RANGE GAS	9.99987-04	5000 UCI/CC	
35 V3411C	STEAM LINE ARV A	NOT CLOSED	6000	
36 V3411A	NUMBER OF S/G A MSSV OPEN	0.	6000 # OPEN	
37 R31	AREA 31 STEAM LINE A (SPING)	6.01006-02	6000 NR/HR	
38 V3411B	SGB MOLE GAS RELEASE RATE:15MRA	1.88105-02	6000 CI/SEC	
39 V3411C	STEAM LINE ARV B	NOT CLOSED	6000	
40 V3411B	NUMBER OF S/G B MSSV OPEN	0.	6000 # OPEN	
41 R32	AREA 32 STEAM LINE B (SPING)	6.01006-02	5000 NR/HR	
42 R32BRO	SGB MOLE GAS RELEASE RATE:15MRA	1.88105-02	6000 CI/SEC	
43 CVH	CV HYDROGEN CONCENTRATION	.0	6000 %	
44 TC003	CV SPENTMENT LEVEL 8FT TEMP #3	80.6	6000 DEGF	
45 TC007	CV INTERMEDIATE LVL 8FT TEMP #7	83.4	6000 DEGF	
46 TC008	CV INTERMEDIATE LVL 8FT TEMP #8	83.4	6000 DEGF	
47 TC009	CV INTERMEDIATE LVL 8FT TEMP #9	83.4	6000 DEGF	
48 TC010	CV INTERMEDIATE LVL 8FT TEMP #10	83.4	6000 DEGF	
49 TC017	CV OPERATING LEVEL 8FT TEMP #17	86.2	6000 DEGF	



## TEND POINT ASSIGNMENT SUMMARY

GROUP: TEND1 PROCEDURE: EP1F 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2 RX	REACTOR TRIP EFFICIENT, STATUS	RX TRIPPED	ALRM	
3 N31	SCRAM RANGE DETECTOR N-31	2.89220+01	GOOD	CPS
4 N32	SCRAM RANGE DETECTOR N-32	3.01300+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.03276-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.02801-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FROLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FROLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT11	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	206.8	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.4	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.6	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENAKR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENAKR2	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 PRCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PRCS (7/19/91)	NOT TRIP	DEL	
25 BUS1A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 BUS1B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	-1.54	GOOD	PSIG
28 CSMPA	CONTAINMENT SUMP - AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INHB	
31 L0942D	SUMP B LEVEL 75 INCHES (TRAIN A)	HIGHER	INHB	
32 L0943D	SUMP B LEVEL 75 INCHES (TRAIN B)	HIGHER	INHB	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP B LEVEL 150 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 150 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	PCA HOT LEG TEMPERATURE	130.2	GOOD	DEGF
40 T0410A	PCL HOT LEG TEMPERATURE	207.8	GOOD	DEGF
41 T0409B	PCA COLD LEG TEMPERATURE	207.8	GOOD	DEGF
42 T0410B	PCL COLD LEG TEMPERATURE	210.2	GOOD	DEGF
43 TAVSAWID	PCA TAVS (HOT/COLD WIDE RNG)	169.0	GOOD	DEGF
44 TAVSBWID	PCL TAVS (HOT/COLD WIDE RNG)	209.0	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM	%
46 TDCORE	E1.1 INCORE TC AVERAGE TEMP	.0	GOOD	DEGF
47 FAUXFWA	E/S A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	E/S B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 SKR061	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 SKR062	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3305	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3304	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

## TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT: PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	







## TEND UNIT ASSIGNMENT SUMMARY

REF ID: A55 1000 TEND UNIT: TEND 1-5 PLANT STATUS

POINT NO	DESCRIPTION	VALUE	UNIT	STATUS
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	2.98194+01	GOOD CPS	
4 N32	SOURCE RANGE DETECTOR N-32	3.07606+01	GOOD CPS	
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.03276-11	GOOD AMP	
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.01891-11	GOOD AMP	
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD %	
8 PFCB	REACTOR COOLANT SYSTEM AVG PRESS	-1.	LENG PSIG	
9 LPR	FREEZER AVERAGE LEVEL	.0	LALM %	
10 FRCIA	REACTOR COOLANT LOOP A AVG FLOW	.0	INB %	
11 FRCIB	REACTOR COOLANT LOOP B AVG FLOW	.0	INB %	
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCRE TO SUBCOOLED MARGIN	206.8	GOOD DEGF	
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	32.4	GOOD %	
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	31.6	GOOD %	
17 PS6A	STM GEN A AVERAGE PRESSURE	0.	LALM PSIG	
18 PS6B	STM GEN B AVERAGE PRESSURE	0.	LALM PSIG	
19 GENXR1	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20 GENXR2	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 PFCB (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PFCB (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	-1.54	GOOD PSIG	
28 LSGPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG FEET	
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INB	
30 L0943E	SUMP B LEVEL 9 INCHES (TRAIN B)	HIGHER	INB	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INB	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INB	
33 L0942C	SUMP B LEVEL 115 INCHES (TRAIN A)	HIGHER	ALRM	
34 L0943C	SUMP B LEVEL 115 INCHES (TRAIN B)	HIGHER	ALRM	
35 L0942B	SUMP B LEVEL 120 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 120 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	129.7	GOOD DEGF	
40 T0410A	RCLB HOT LEG TEMPERATURE	166.5	GOOD DEGF	
41 T0409B	RCLA COLD LEG TEMPERATURE	207.8	GOOD DEGF	
42 T0410B	RCLB COLD LEG TEMPERATURE	210.0	GOOD DEGF	
43 TAV6AWD	RCLA TAVS (THOT/COLD WIDE RWS)	168.8	GOOD DEGF	
44 TAV6BWD	RCLB TAVS (THOT/COLD WIDE RWS)	188.2	GOOD DEGF	
45 LRV	REACTOR VESSEL AVERAGE LEVEL	40.0	LALM %	
46 TCDRE	EL-1 INCRE TO AVERAGE TEMP	.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 SKR081	STR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 SKR082	STR 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 PS1A	SAFETY INJECTION LOOP A AVG FLOW	59.	GOOD	GPM
54 PS1B	SAFETY INJECTION LOOP B AVG FLOW	449.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	85.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	85.	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	

## TRAC WLF ASSIGNMENT SUMMARY

## GROUP 1 DATA RECORDED: EPIC 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	UNIT	E. U.
1 F0119	COMPONENT COOLING LOOP TOTAL FLOW	6502.	GOOD GPM	
2 LWST	REFUELING WATER STORAGE TANK LVL	11.9	LWRN %	
3 WS033	33 FOOT LEVEL WIND SPEED	4.9	GOOD MPH	
4 WD033	33 FOOT LEVEL WIND DIRECTION	45.	GOOD DEG.	
5 WT033	33 FOOT LEVEL TEMPERATURE	45.0	GOOD DEG	
6 WT050	250 FOOT LEVEL TEMPERATURE	45.5	GOOD DEG	
7 WDT2	250 °C 33 FOOT LEVEL DELTA TEMP	.5	GOOD DEG	
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD NR/HR	
9 R02	AREA 2-CONTAINMENT	1.00577+04	HALN NR/HR	
10 R03	AREA 3-SPENT FUEL PIT	1.23737+02	HALN NR/HR	
11 R09	AREA 9-LETDOWN LINE MONITOR	5.72136+01	GOOD NR/HR	
12 R34	AREA 34 - AUX ELDS CV SPRAY PUMP	3.67282+04	HALN NR/HR	
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD NR/HR	
14 R10A	CONTAINMENT IODINE MONITOR R10A	2.32741+05	HALN CPM	
15 R11	CONTAINMENT AIR PARTICULATE	1.47081+03	GOOD CPM	
16 R12	CONTAINMENT GAS MONITOR	1.35295+04	HALN CPM	
17 R10B	PLANT VENT IODINE MONITOR R10B	3.52776+01	GOOD CPM	
18 R13	AUX ELDS EXHAUST AIR PARTICULATE	9.55367+01	GOOD CPM	
19 R14	AUX ELDS EXHAUST GAS MONITOR	1.46307+02	GOOD CPM	
20 R18	LIVID WASTE DISPOSAL MONITOR	9.82867+06	HALN CPM	
21 R19	STEAM GENERATOR SLOWDOWN DRAIN	4.58405+02	GOOD CPM	
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.65440+01	HALN R/HR	
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.69580+01	HALN R/HR	
24 R15	CONDENSER AIR EJECTOR EXHAUST	5.37604+02	GOOD CPM	
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	7.50006-07	GOOD UCI/CC	
26 R12A6	CV VENT CHAN 5-MID RANGE GAS	2.10000+01	HALN NR/HR	
27 R12A7	CV VENT CHAN 5-HIGH RANGE GAS	9.99984-06	GOOD UCI/CC	
28 R12A8	CV VENT CHAN 5-HIGH RANGE GAS	9.99987-04	GOOD UCI/CC	
29 R12A9	CV VENT CHAN 5-LOW RANGE GAS	5.00004-07	GOOD UCI/CC	
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.99984-06	GOOD UCI/CC	
31 R14A9	PLANT VENT CHAN 7-HIGH RANGE GAS	3.99971-03	GOOD UCI/CC	
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	7.79993-06	GOOD UCI/CC	
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	9.99984-06	GOOD UCI/CC	
34 R15A9	AIR EJECTOR CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD UCI/CC	
35 V3411C	STEAM LINE ARV 4	NOT CLOSED	GOOD	
36 VMS5VA	NUMBER OF S/G 5 PRESS OPEN	0.	GOOD # OPEN	
37 R31	AREA 31 STEAM LINE 5 (SPING)	6.01006-02	GOOD NR/HR	
38 R31RRQ	55% MOLE GAS RELEASE RATE:15MRA	1.92415-02	GOOD CI/SEC	
39 V3410C	STEAM LINE ARV 3	NOT CLOSED	GOOD	
40 VMS5VB	NUMBER OF S/G 5 PRESS OPEN	0.	GOOD # OPEN	
41 R32	AREA 32 STEAM LINE 5 (SPING)	6.01006-02	GOOD NR/HR	
42 R32RRQ	55% MOLE GAS RELEASE RATE:15MRA	1.92415-02	GOOD CI/SEC	
43 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD %	
44 TDV03	CV FACILITY LEVEL SET TEMP 43	80.8	GOOD DEG	
45 TDV07	CV INTERMEDIATE LVL SET TEMP 47	83.3	GOOD DEG	
46 TDV08	CV INTERMEDIATE LVL SET TEMP 48	83.3	GOOD DEG	
47 TDV09	CV INTERMEDIATE LVL SET TEMP 49	83.3	GOOD DEG	
48 TDV10	CV INTERMEDIATE LVL SET TEMP 50	83.3	GOOD DEG	
49 TDV17	CV OPERATING LVL SET TEMP 417	86.0	GOOD DEG	



## DECEMBER 6, 1995 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. Repair and return to service of the "B" RHR pump for redundancy in the core cooling recirculation mode.
- b. Possible makeup of borated water to the RWST for safety injection or containment spray operation if needed.
- c. Initial clean up of the auxiliary building basement.
- d. Repair and return to service of the "B" and "C" safety injection pumps
- e. Highly radioactive waste water in the Waste Holdup Tank from the "B" RHR pump seal failure.
- f. Surveys of plume areas for contamination

##### Long term concerns

- a. Containment vessel inspection and clean up plans.
- b. More extensive clean up effort in the auxiliary building.
- c. Re-entry of evacuated population

Preliminary designation of the recovery organization should commence.

Time: 13:30

Message: 43

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Plume tracking continues. Off-site radiation levels near the Ginna plant have dropped substantially due to the departure of the plume.

**Actions Expected:**

1. See recovery mini-scenario

Time: 13:45  
Message: 44

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

**Message for: Control Room**

**Message: \*\*\*THIS IS A EXERCISE\*\*\***

---

**FOR CONTROLLER USE ONLY**

**Controller Notes:**

1. Plume tracking continues. Off-site radiation levels near the Ginna plant have dropped substantially due to the departure of the plume.

**Actions Expected:**

1. See recovery mini-scenario



Time: 14:00

Message: 45

**GINNA STATION**

**DECEMBER 6, 1995 PLUME EXPOSURE EXERCISE**

**MESSAGE FORM**

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

**Message:** \*\*\*THIS IS A 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 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 Plant Vent. This occurs as follows:

<u>Time</u>	<u>Release Point</u>	<u>Release Rate (Ci/sec)</u>
1115-	Plant Vent	2.46 E+2 (Noble Gas)
1245		4.92 E-2 (Radioiodine)

The noble gas-to-radioiodine ratio assumed in this scenario is 5,000:1, 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) = 7.99 Rem

Child Thyroid (CDE) Dose (at Site Boundary) = 2.44 Rem

### C. Principle Plant Radiological Indications

Figures 9.1 through 9.3 provide trends plots for key plant radiological indications, including the plant vent concentration, letdown monitor level, containment radiation level and reactor coolant concentration



**TABLE 9.1**

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

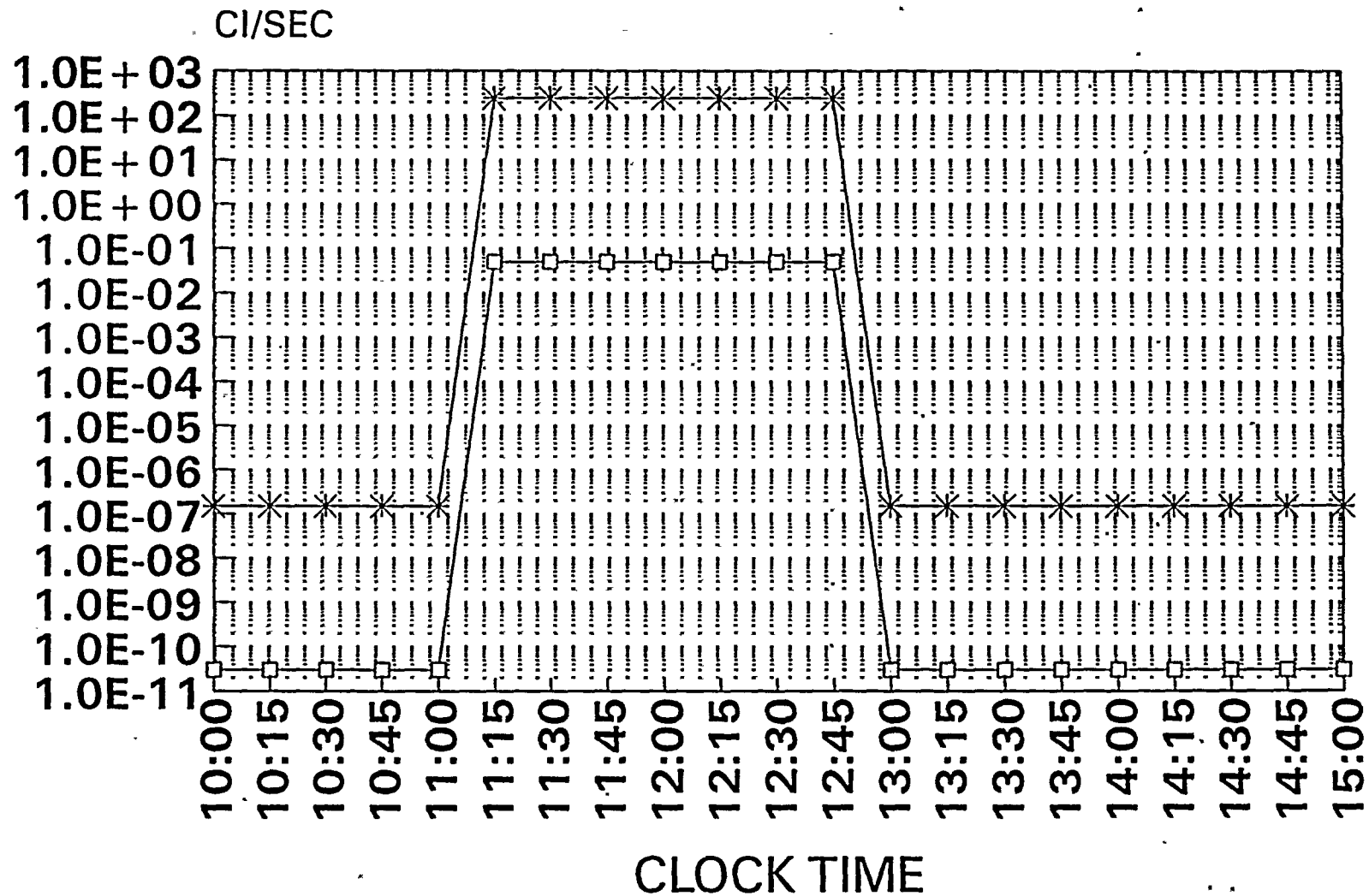
**Time : 1115-1245 hr**

<b>Nuclide</b>	<b>Curie/Sec</b>	<b>Total Curies Released</b>
Kr-85	1.5 E-01	8.1 E+02
Kr-85m	1.5 E+01	8.1 E+04
Kr-87	2.5 E+01	1.4 E+05
Kr-88	3.7 E+01	2.0 E+05
Xe-131m	2.0 E+00	1.1 E+04
Xe-133	1.2 E+02	6.5 E+05
Xe-133m	2.0 E+01	1.1 E+05
Xe-135	2.5 E+01	1.4 E+05
Xe-135m	2.5 E-01	1.4 E+03
<b>Total Noble Gas</b>	<b>2.4E+02</b>	<b>1.3 E+06</b>
I-131	7.9 E-03	4.3 E+01
I-132	1.1 E-02	5.9 E+01
I-133	1.6 E-02	8.6 E+01
I-135	1.4 E-02	7.6 E+01
<b>Total Radioiodine</b>	<b>4.9 E-02</b>	<b>1.1E+02</b>
Cs-134	9.1E-05	4.9E-01
Cs-137	4.2E-05	2.3E-01
Sr-89	1.0E-07	5.4E-04
Sr-90	9.1E-08	4.9E-04
Ba-140	2.2E-06	1.2E-02
La-140	2.2E-06	1.2E-02
<b>Total Particulate</b>	<b>1.4E-04</b>	<b>7.5E-01</b>



# FIGURE 9.1

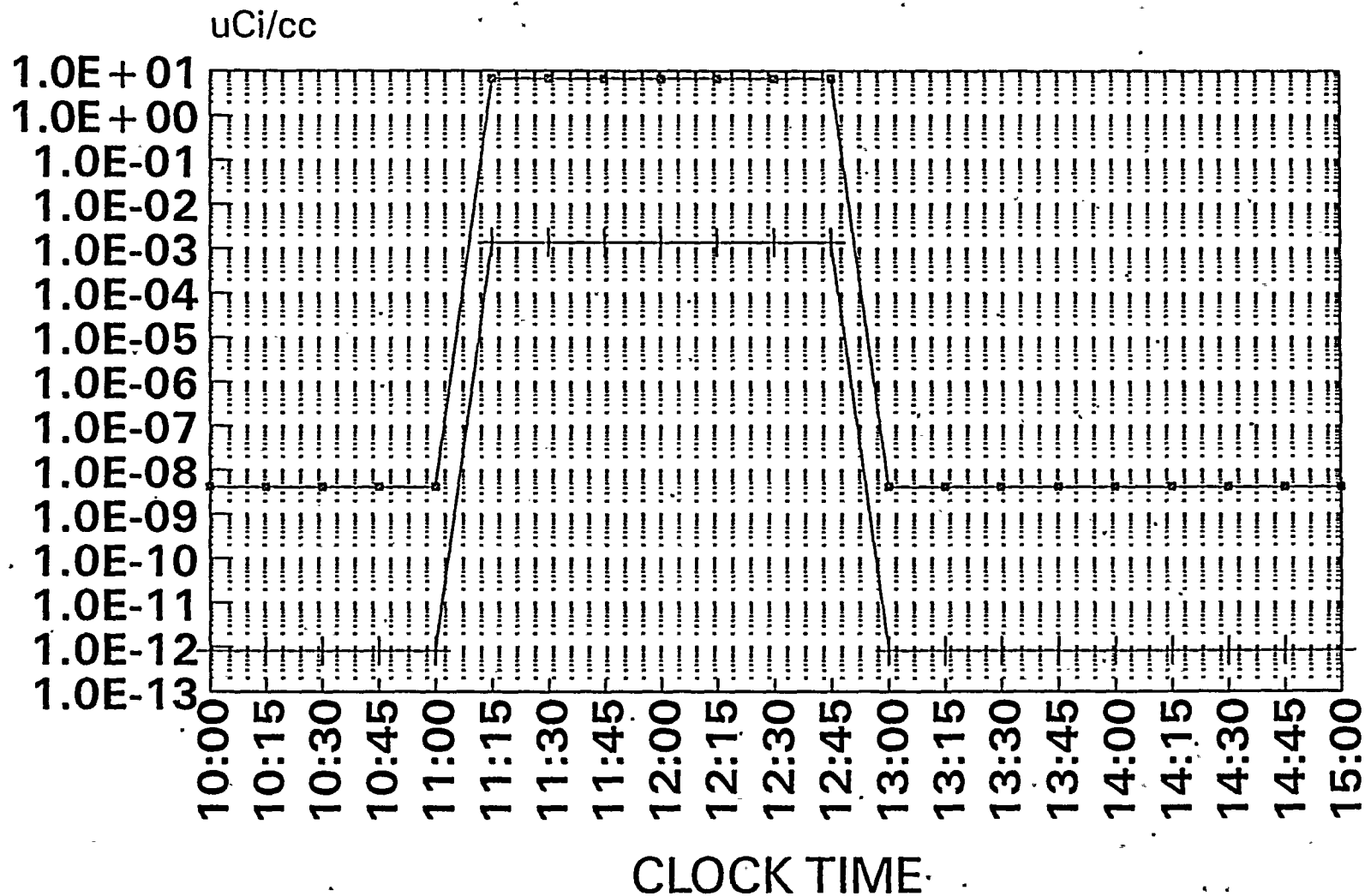
## ASSUMED SOURCE TERMS



\* NOBLE GAS CI/SEC    □ RADIOIODINE CI/SEC



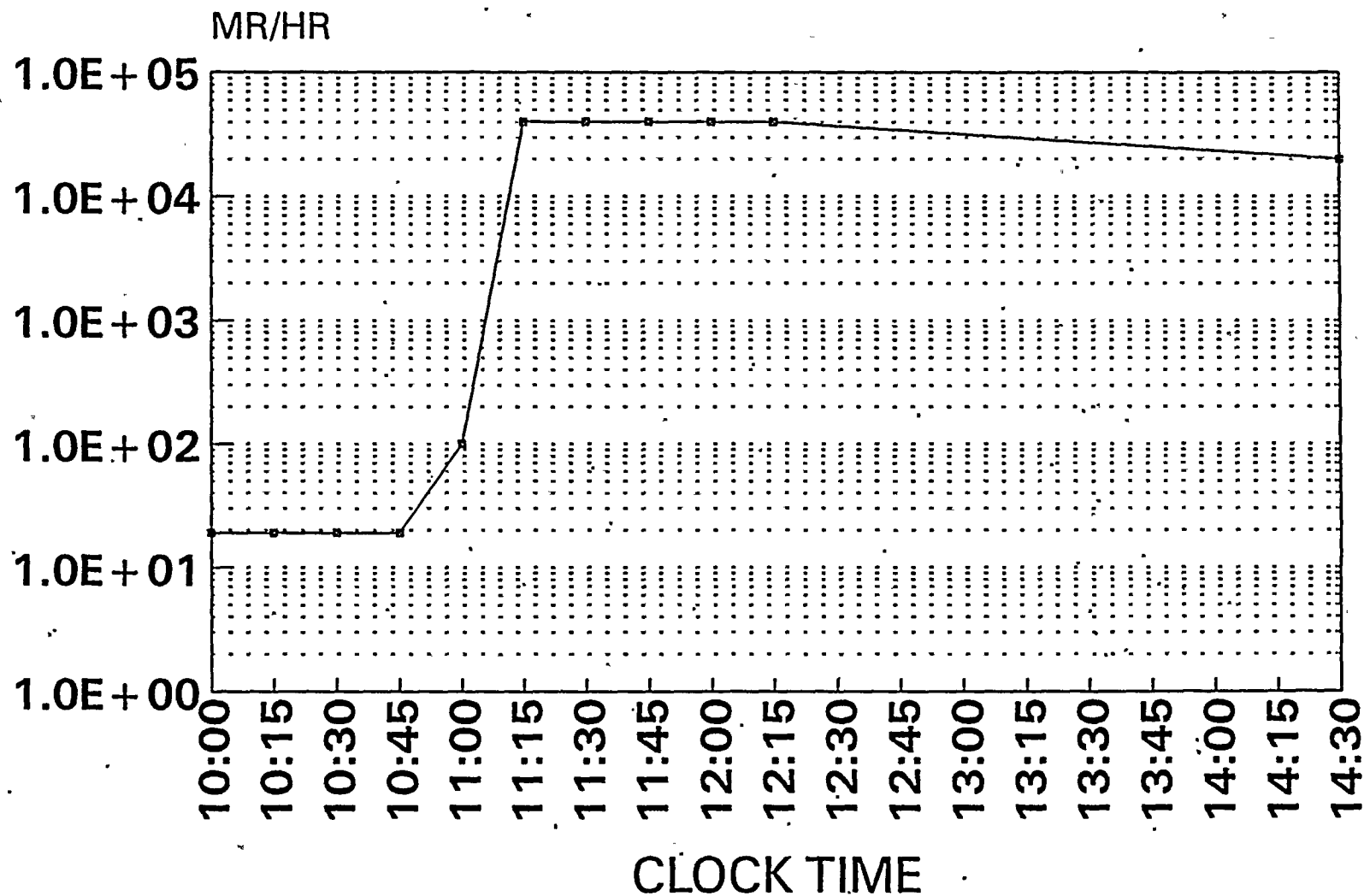
**FIGURE 9.2**  
**Plant Vent Concentrations**



+ NOBLE GAS + RADIOIODINE



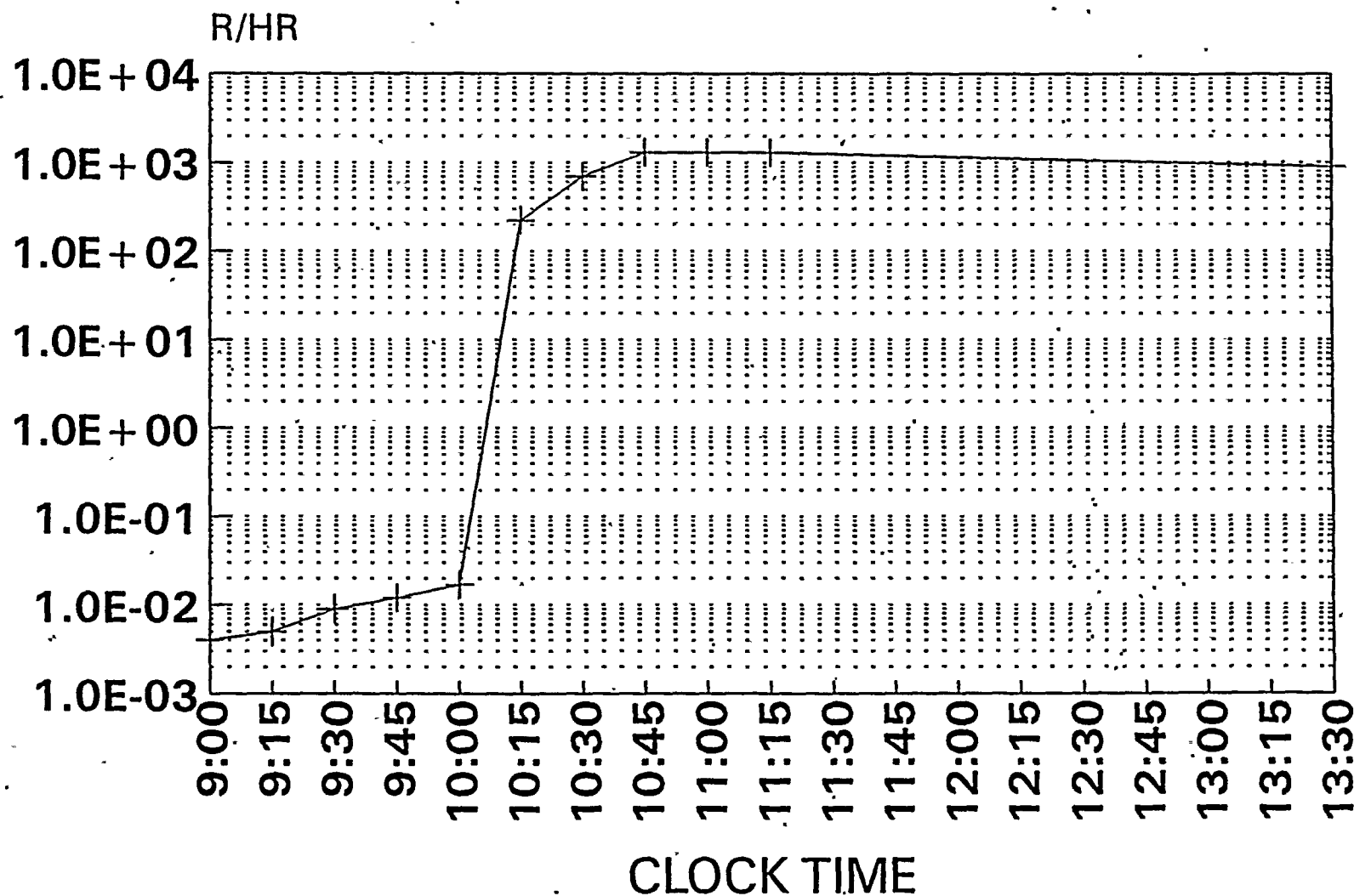
**FIGURE 9.3**  
**LETDOWN MONITOR (R-9) READING VS TIME**



— MONITOR R-9 READING



**FIGURE 9.4**  
**CONTAINMENT RADIATION DOSE RATE VS TIME**



+ R-29,30 READING

## SECTION 9.2

### IN-PLANT RADIOLOGICAL DATA MAPS

R.G. & E. CORPORATION  
GINNA STATION  
AUXILLARY BUILDING OPER.  
FLOOR SURVEY MAP

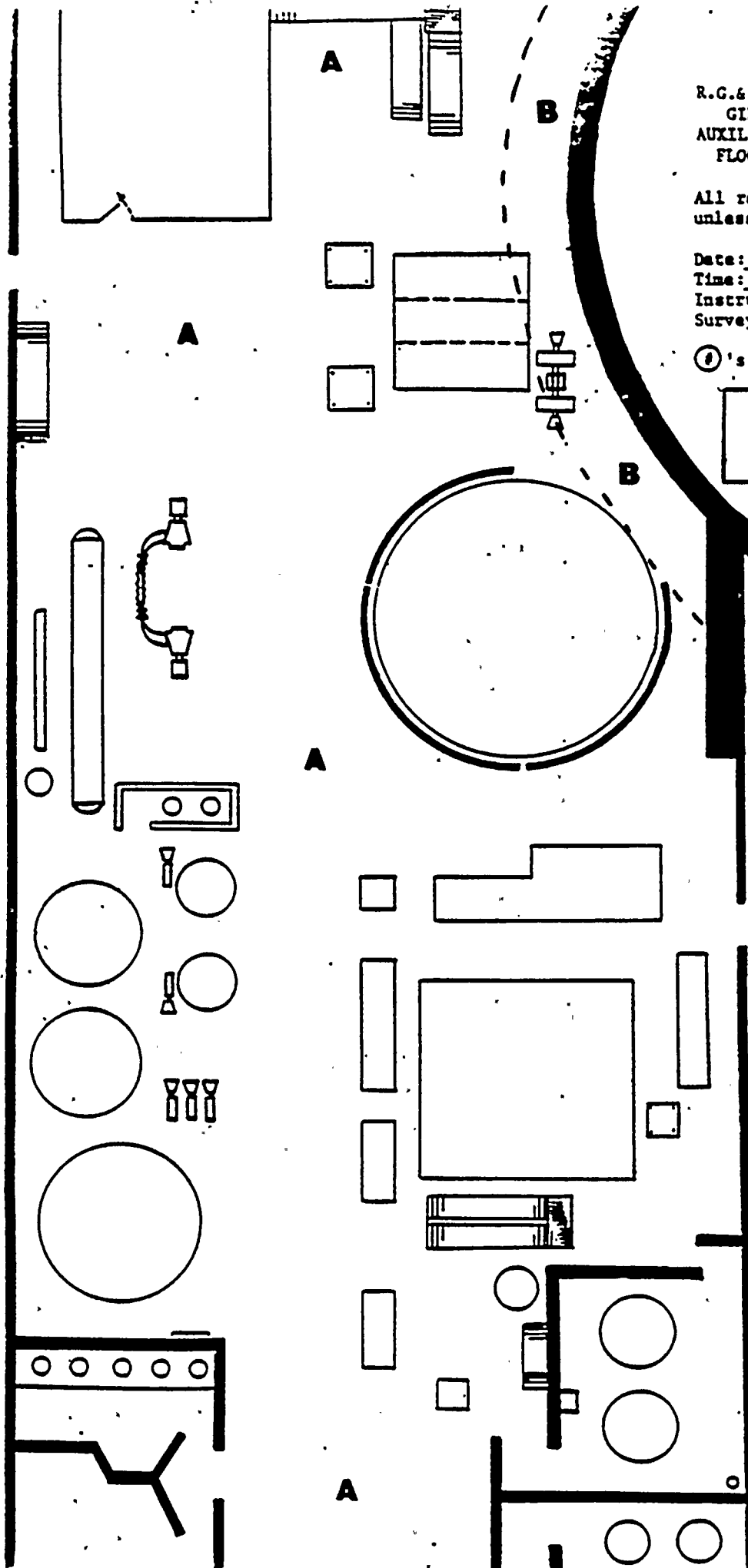
Date: \_\_\_\_\_  
Time: 0700-0945  
Instrument: \_\_\_\_\_  
Survey done by: \_\_\_\_\_

$$A = 0.15 \frac{\text{in}}{\text{hr}}$$
[illegible]

PARTICULATE CTX-40

**(REFER TO APPROPRIATE MAP)**

PARTICULATE 1 E-10





**A = 50 R/HQ**

**100,000**

1.9E70



R.G. & E. CORPORATION  
GINNA STATION  
AUXILIARY BUILDING OPER.  
FLOOR SURVEY MAP

All readings in MR/HR.  
unless otherwise noted.

Date: \_\_\_\_\_  
Time: After 1245  
Instrument: \_\_\_\_\_  
Survey done by: \_\_\_\_\_

①'s are SHEAR locations.

**A = 250 MR/HR**

SHEARS

1 | DPM/100 cm<sup>2</sup>

ALL AREAS

100,000 -

1,000,000

REMARKS:

AIRBORNE  
ACTIVITY (UC/CC)

IODINE: 6E-7

PARTICULATE:

2E-6



UPPER CATHALK AREA



UPPER CATWALK AREA



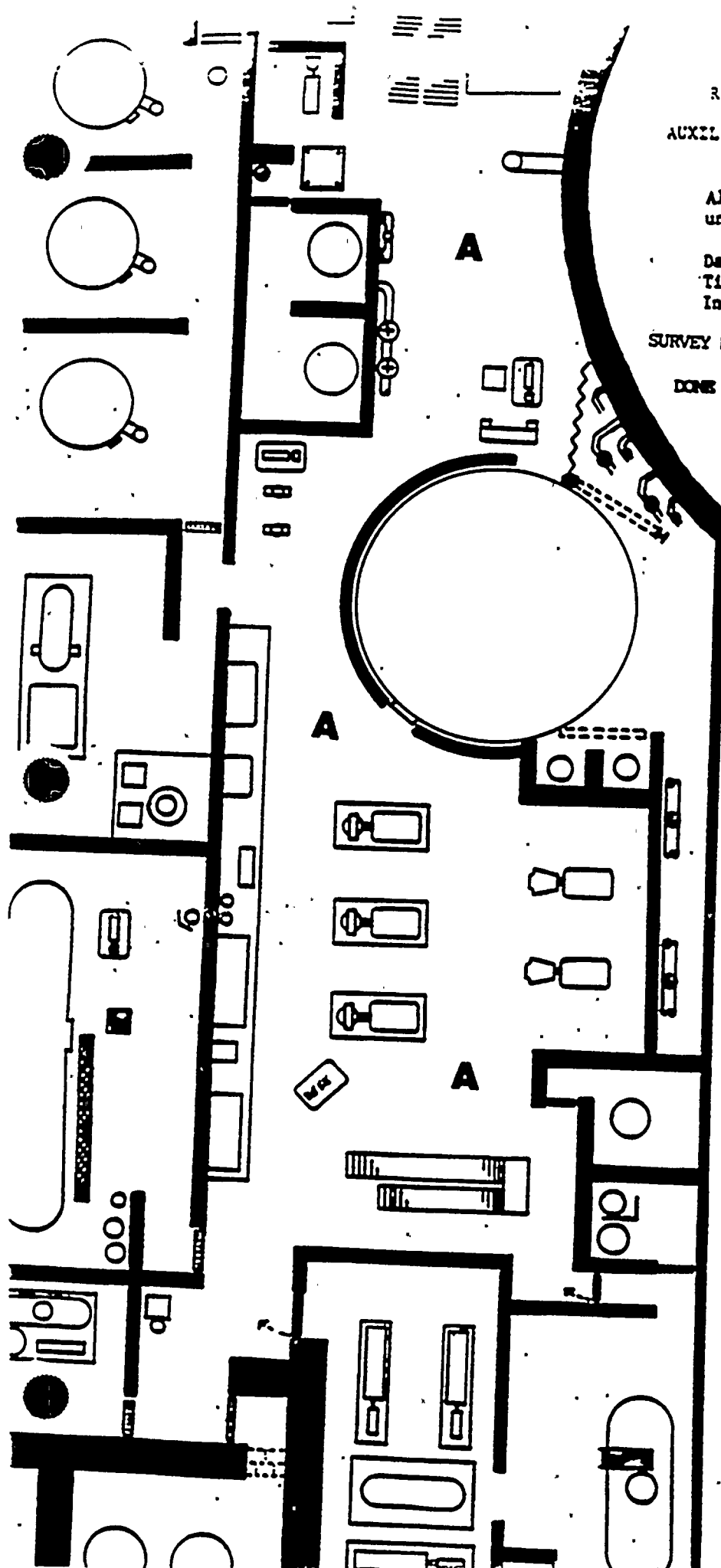


UPPER CATWALK AREA



UPPER CATWALK AREA

 INDICATES GATES





R.O.S. E. CORPORATION  
GENNA STATION  
AUXILIARY BUILDING BASEMENT  
FLOOR SURVEY MAP

All readings in MR/HR.  
unless otherwise noted.

Date: 0946-1115

Time: \_\_\_\_\_

Instrument: \_\_\_\_\_

SURVEY METER \_\_\_\_\_

A = 10 MR/HR

B = 25 MR/HR

DPH/100 cm

ALL AREAS

1,000,000 -

2,000,000

REMARKS:

AIRBORNE  
ACTIVITY (uCi/cc)

READING:  
4 E-1

PARTICULATE:

3.0 E+0

.... INDICATES GATES



R.O.S. E. CORPORATION  
GENNA STATION  
AUXILIARY BUILDING BASEMENT  
FLOOR SURVEY MAP

All readings in MR/HR.  
unless otherwise noted.

Date: 1115-1245

Time: \_\_\_\_\_

Instrument: \_\_\_\_\_

SURVEY METER \_\_\_\_\_

**A = 60 R/hr**

**B = 1000 R/hr**

# DPM/100 CM

ALL  
AREAS

500-1000

REMARKS:

AIRBORNE  
ACTIVITY (uCi/cc)

TOPLINE 2E-9

PARTICULATE:

2E-10

... INDICATES GATES





R.O.S. E. CORPORATION  
GINNA STATION  
AUXILIARY BUILDING BASEMENT  
FLOOR SURVEY MAP

All readings in MR/HR.  
unless otherwise noted.

Date: After 1245

Time: \_\_\_\_\_

Instrument: \_\_\_\_\_

SURVEY METER \_\_\_\_\_ # \_\_\_\_\_

**A** = 600 MR/hr  
**B** = 10 R/hr

DPH/100 CM

ALL AREAS

2,000,000 -

3,000,000

REMARKS:

AIRBORNE  
ACTIVITY (uCi/cc)

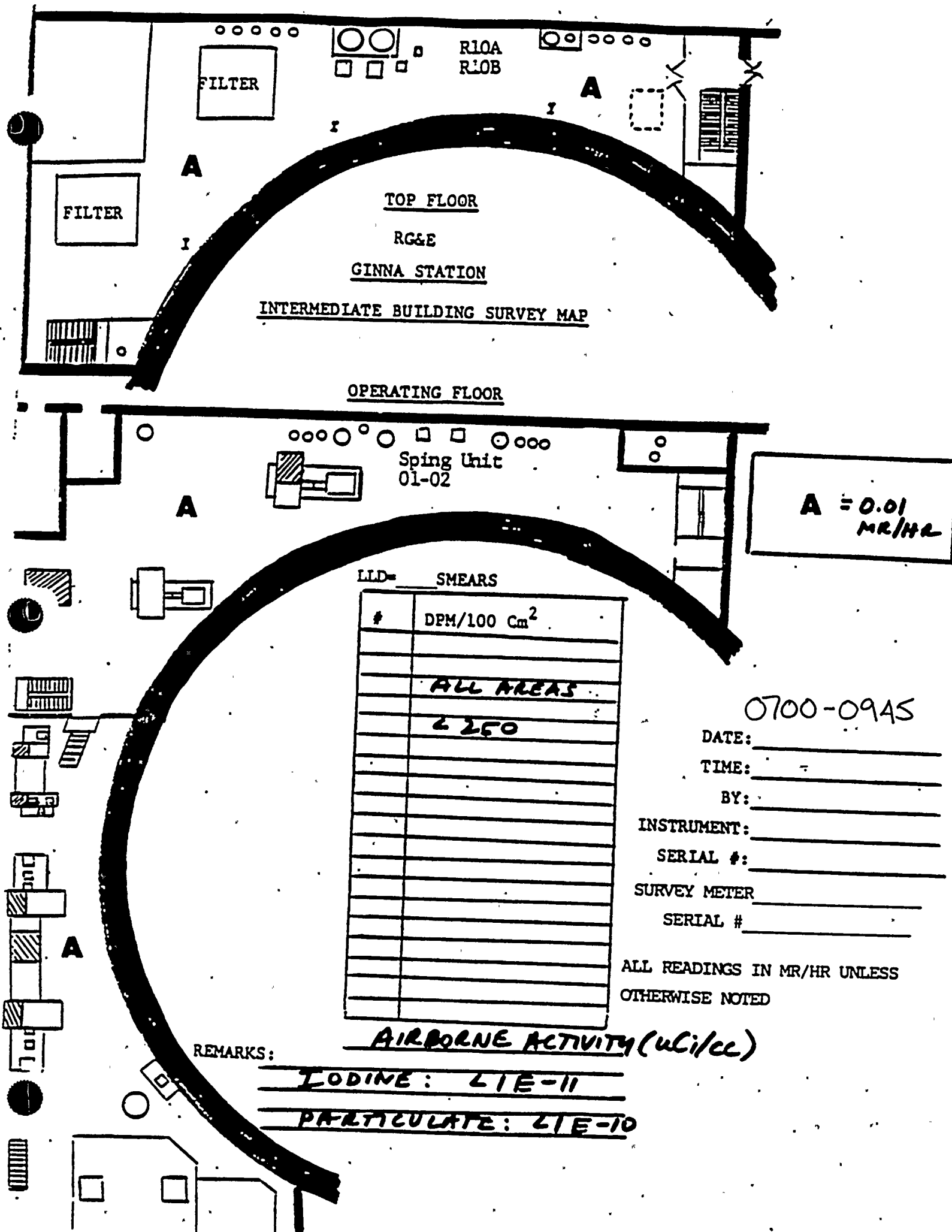
IODINE:

6 E-5

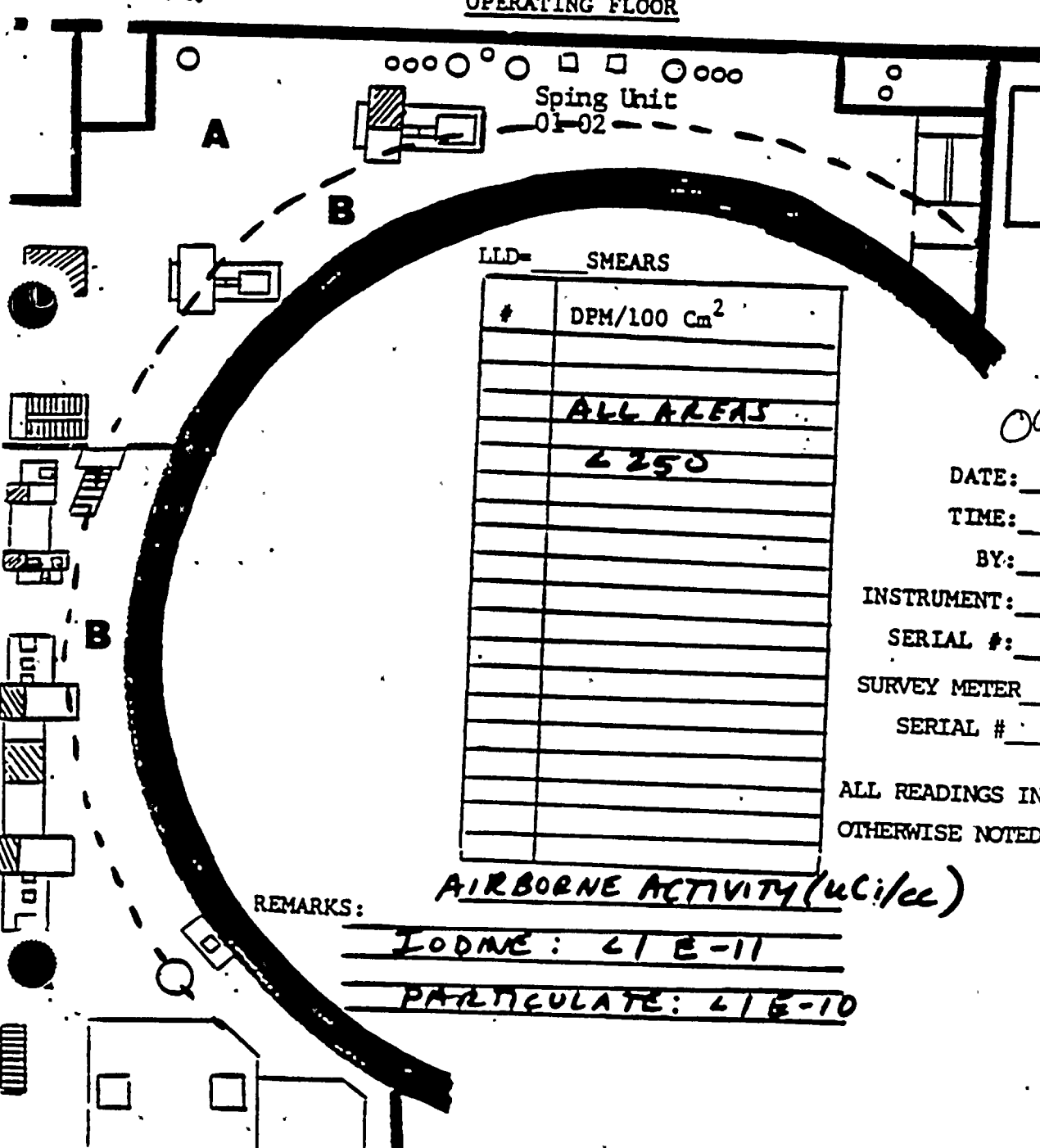
PARTICULATE:

7 E-5

.... INDICATES GATES







01-02

**B = 25 MR/HR**

LLD-\_\_\_\_\_SMEARS

[illegible]

0946-1115

DATE:

**TIME:** \_\_\_\_\_

**BY:** \_\_\_\_\_

**INSTRUMENT:**

SERIAL #:

**SURVEY METER**

SERIAL #

ALL READINGS IN MR/HR UNLESS  
OTHERWISE NOTED

REMARKS:

AIRBORNE ACTIVITY (uCi/cc)

LODME: C/E-11

PARTICULATE: 4/6-10



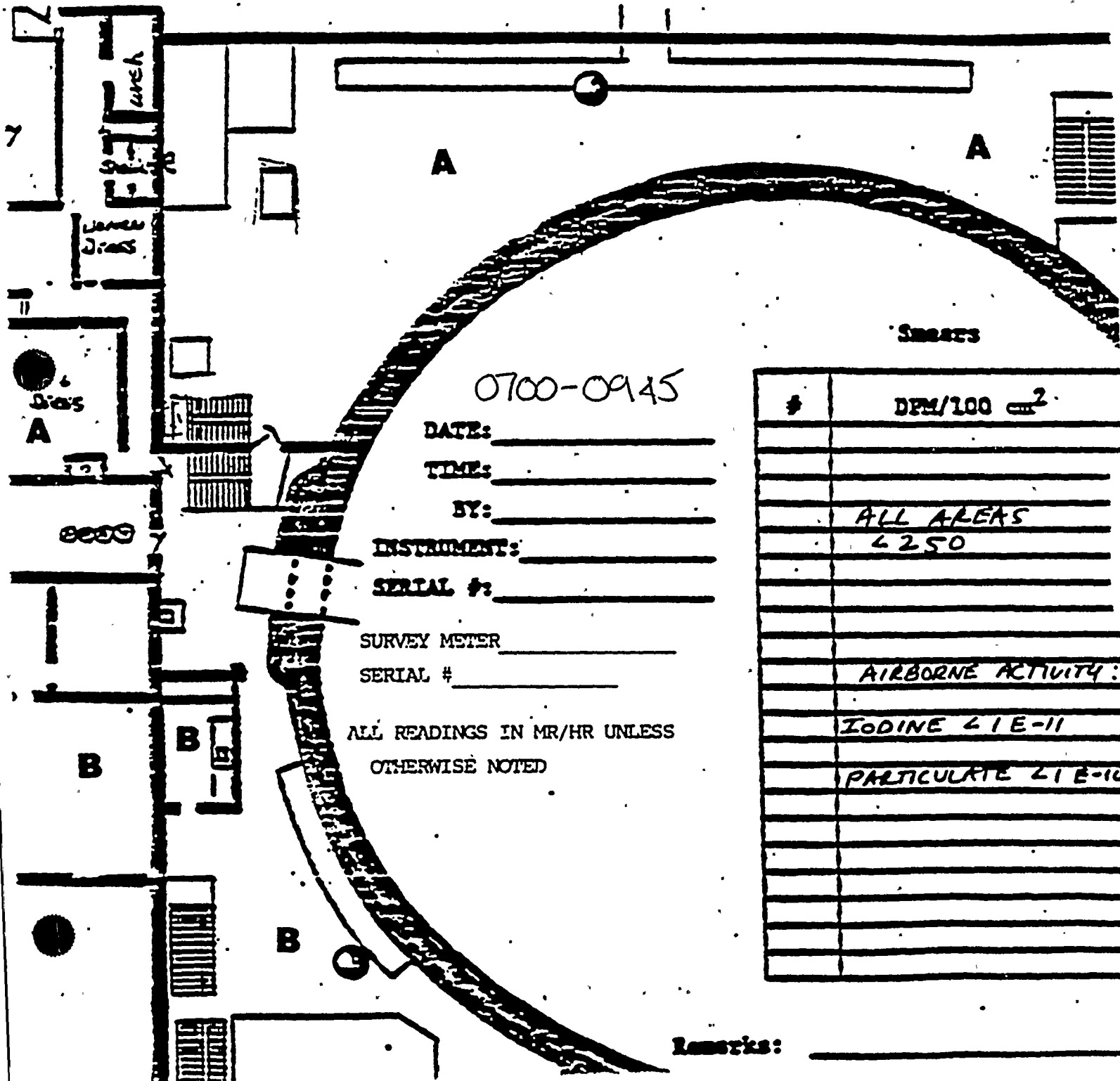








INTERMEDIATE BUILDING MEZZANINE FLOOR

$$B = 0.1 \text{ MR/HR}$$


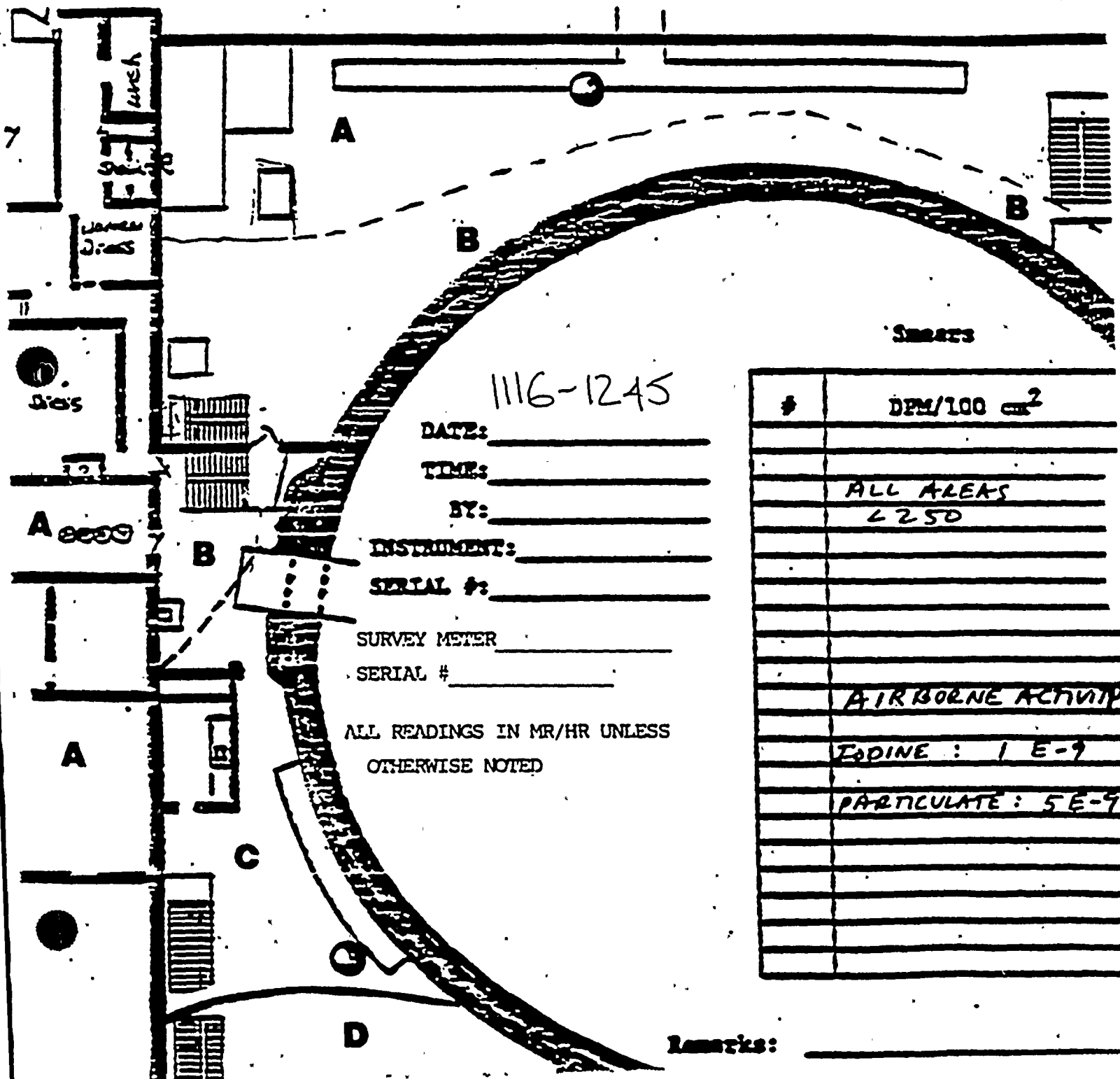






INTERMEDIATE BUILDING MEZZANINE FLOOR

**A** = 0.3 m/HR  
**B** = 25 m/HR  
**C** = 350 m/HR  
**D** = 2.0 R/HR



**Remarks:**

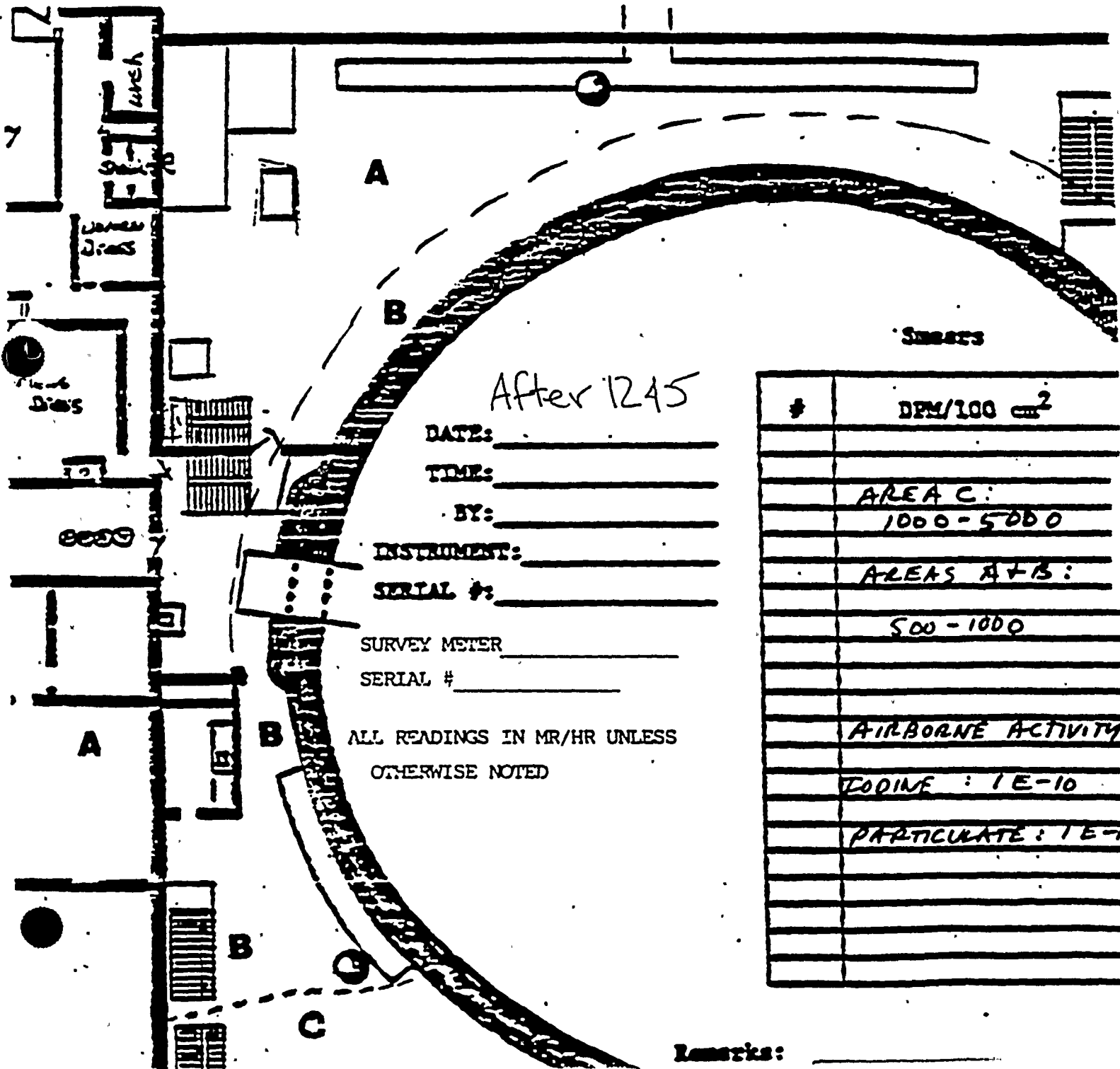


GINNA STATION

INTERMEDIATE BUILDING MEZZANINE FLOOR

SURVEY MAP

**A** = 0.2 MR/HR  
**B** = 5 MR/HR  
**C** = 10 MR/HR



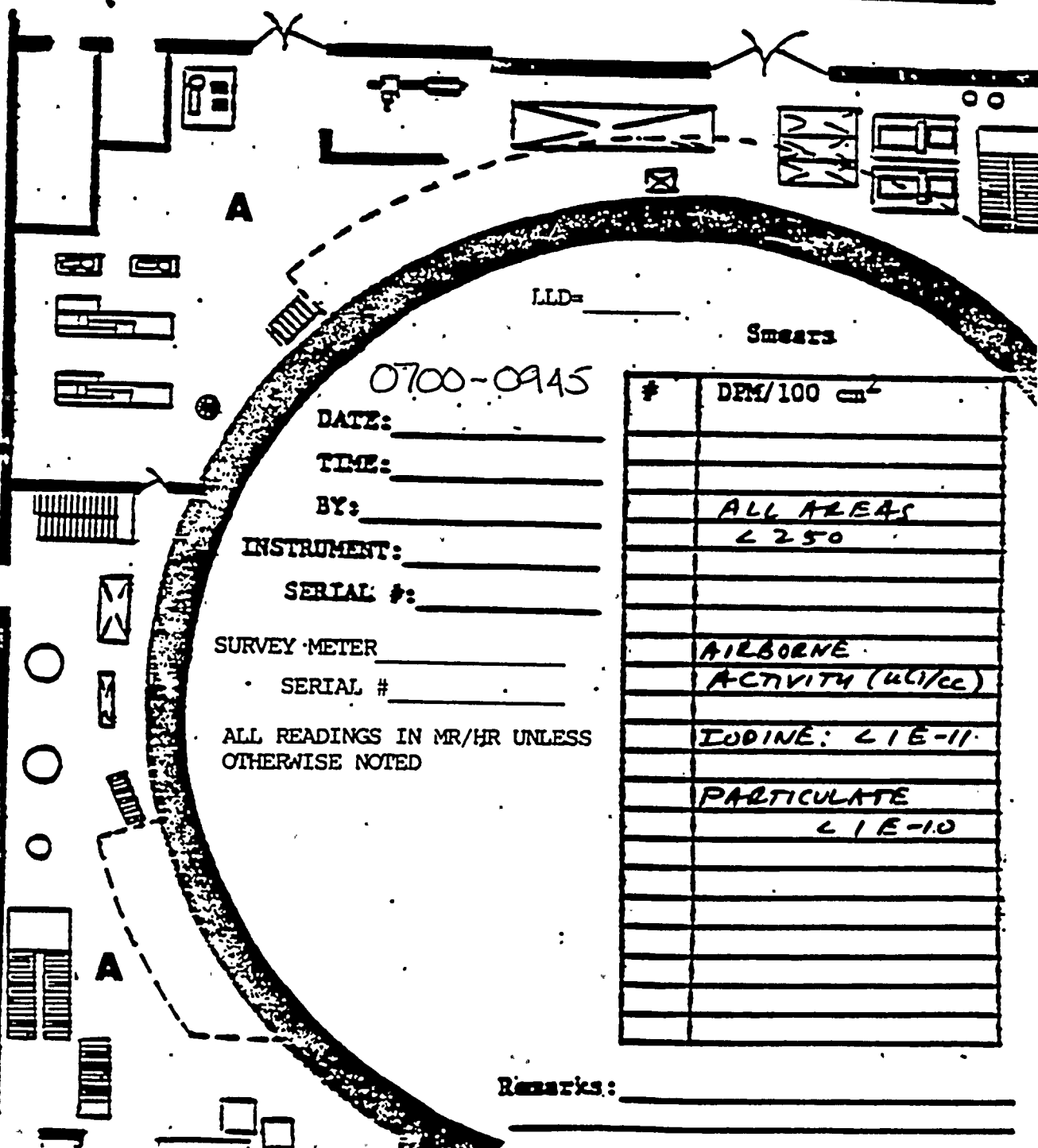




GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

## SURVEY MAP

$$A = 0.05 \text{ M R/LR}$$


**P.A.S.'S  
PANEL**

Remarks:





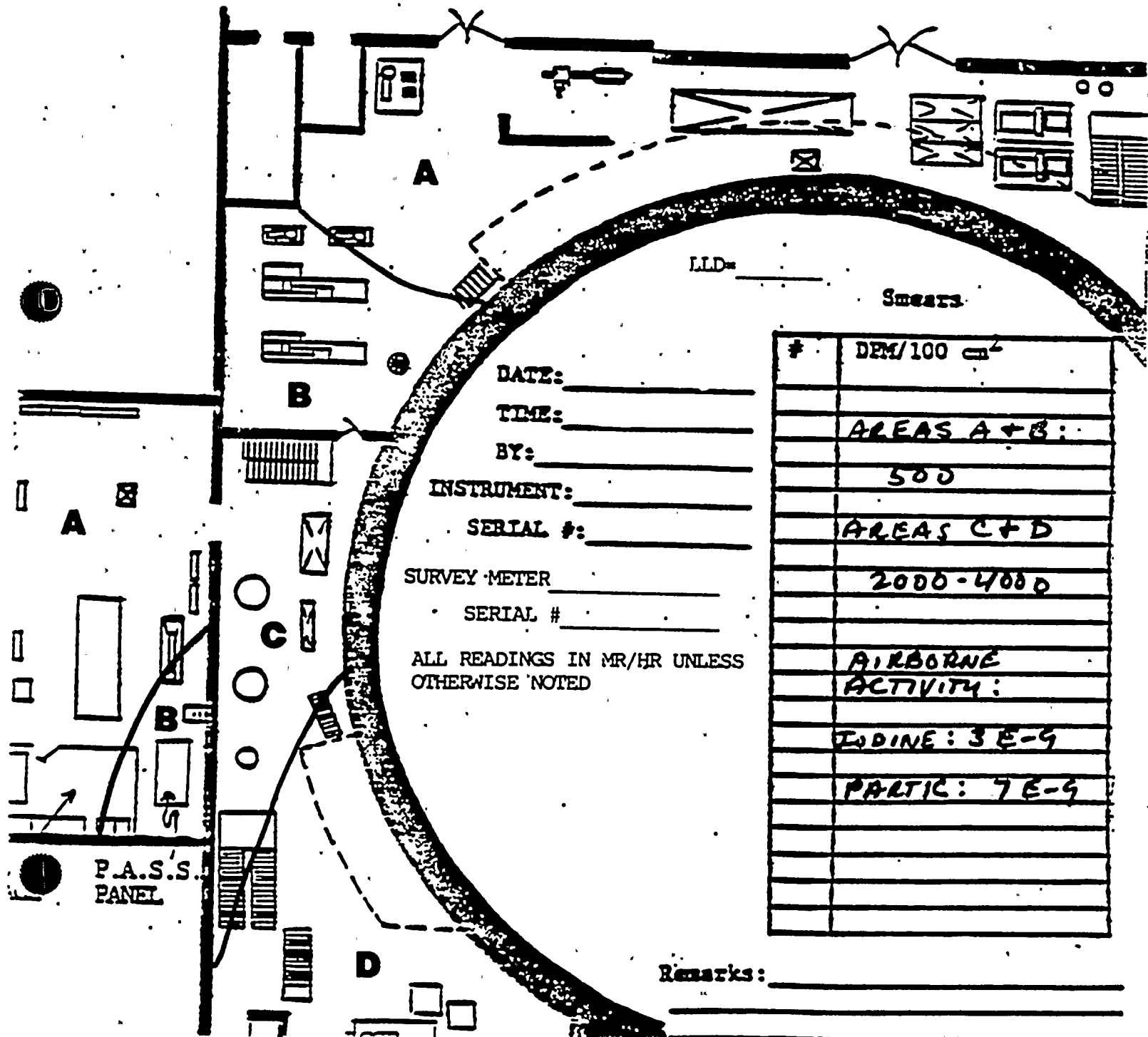
GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

## SURVEY MAP

\*\* DURING PASS  
 OPERATION \*\*  
 After 09.45

**A** = 25 MR/HR  
**B** = 50 MR/HR  
**C** = 300 MR/HR  
**D** = 3 R/HR



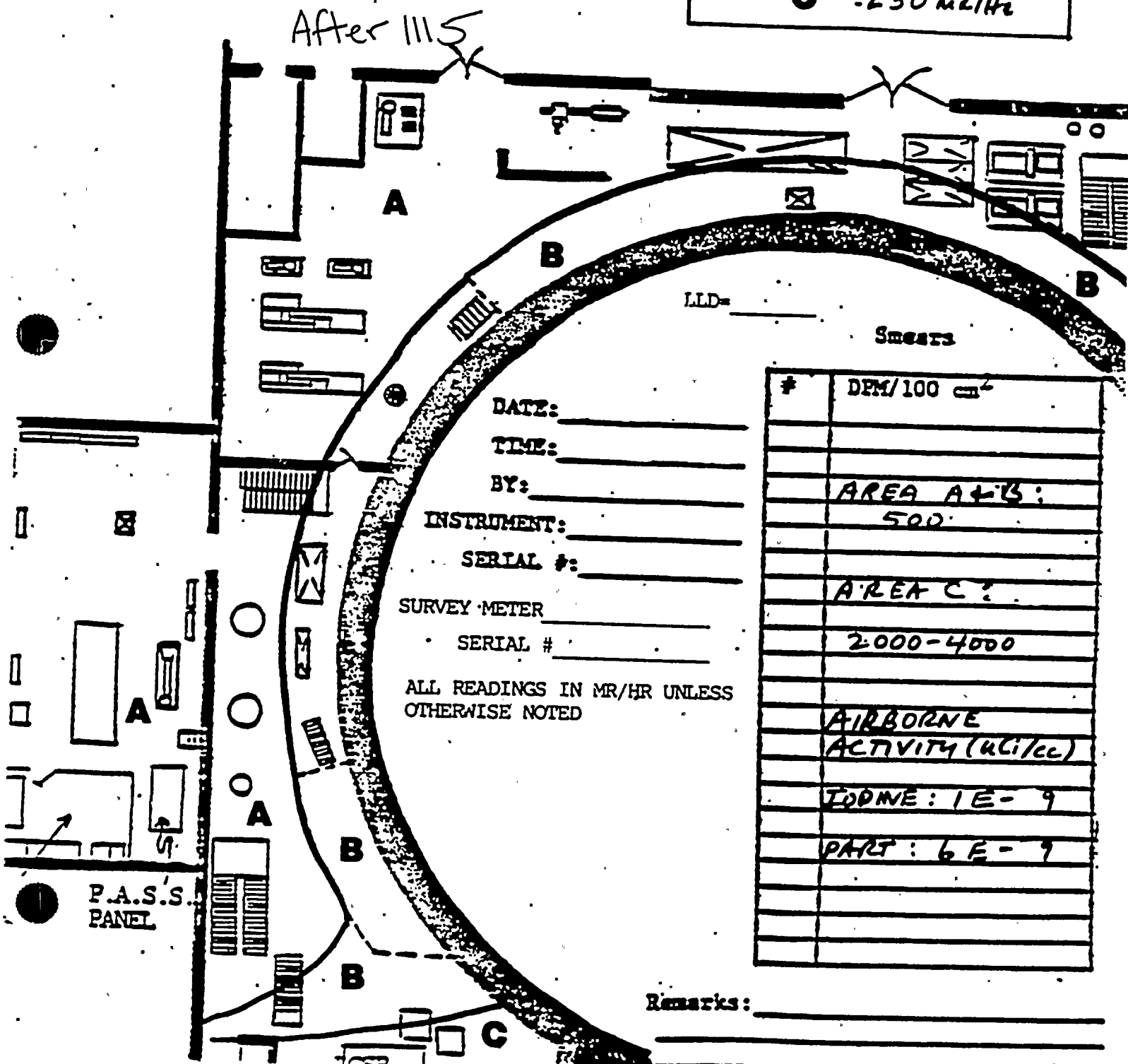


GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

SURVEY MAP

**A** = 5 mR/hr  
**B** = 2.5 mR/hr  
**C** = 250 mR/hr







**TURBINE BUILDING OPERATING FLOOR**

$$A = 0.01 \frac{m}{hr}$$

0700-1115

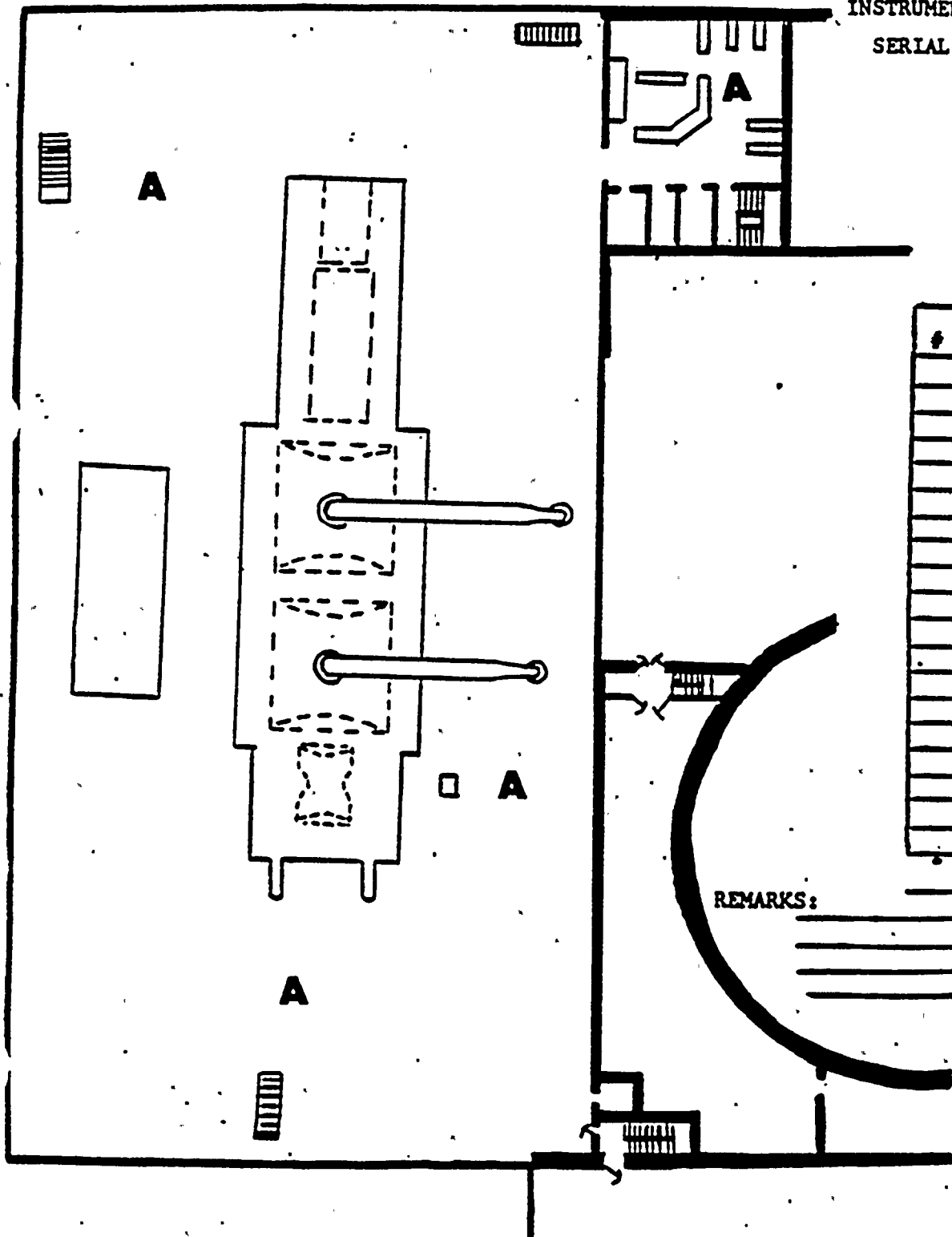
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

POWER: \_\_\_\_\_ BY: \_\_\_\_\_

**INSTRUMENT:** \_\_\_\_\_

SERIAL #:

**NORTH**



## SHEARS

#	DPM/100 Cm <sup>2</sup>
	ALL AREAS
	L I E - 50
	AIRBORNE
	ACTIVITY (uc/c)
.	IODINE L I E - 1.
	PARTICULATE
	L I E -

REMARKS:



RG&E  
GINNA STATION

TURBINE BUILDING OPERATING FLOOR

SURVEY MAP

**A** = 0.2 mCi/hr  
**B** = 1 mCi/hr

After 1115

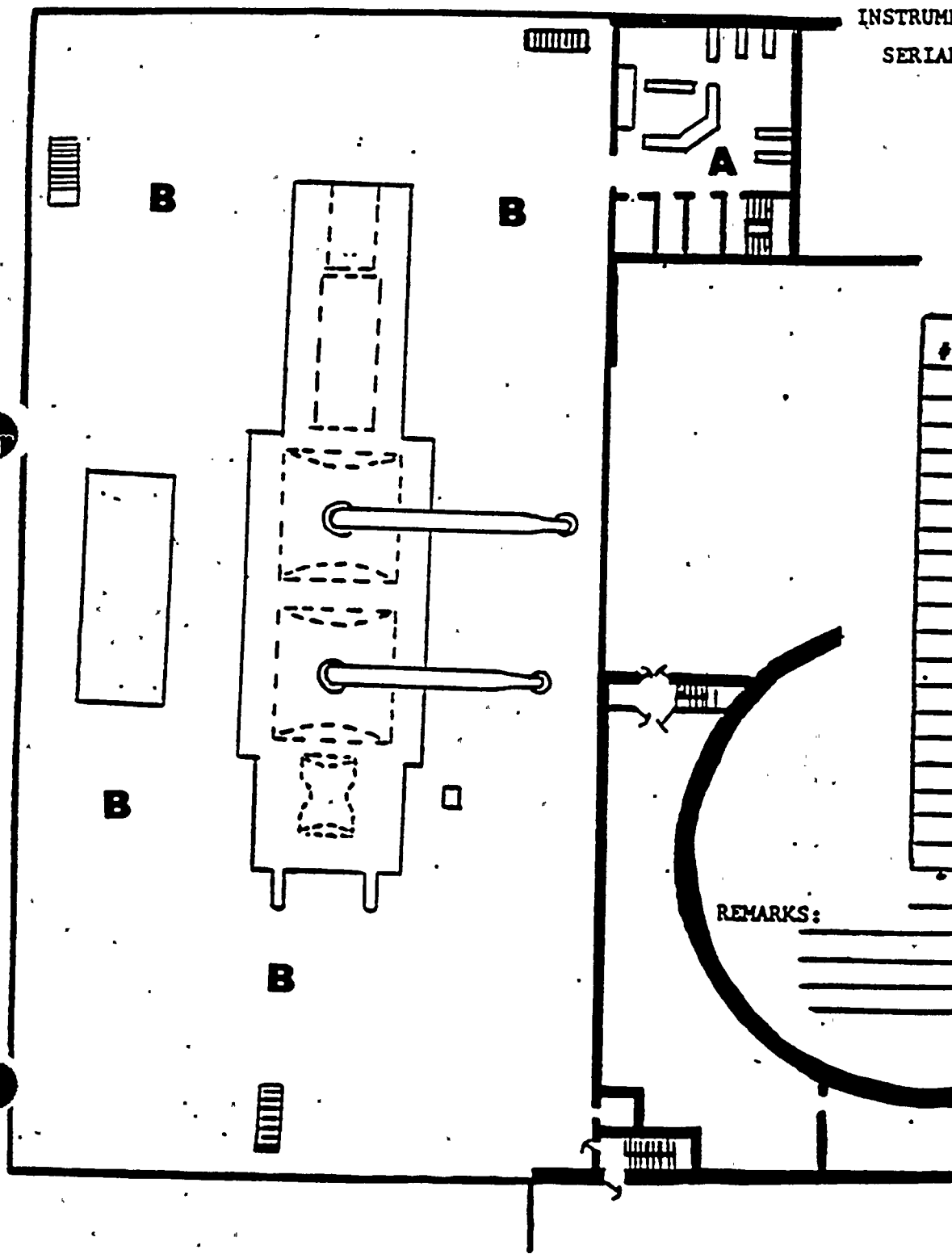
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

POWER: \_\_\_\_\_ BY: \_\_\_\_\_

INSTRUMENT: \_\_\_\_\_

SERIAL #: \_\_\_\_\_

NORTH



SMEARS

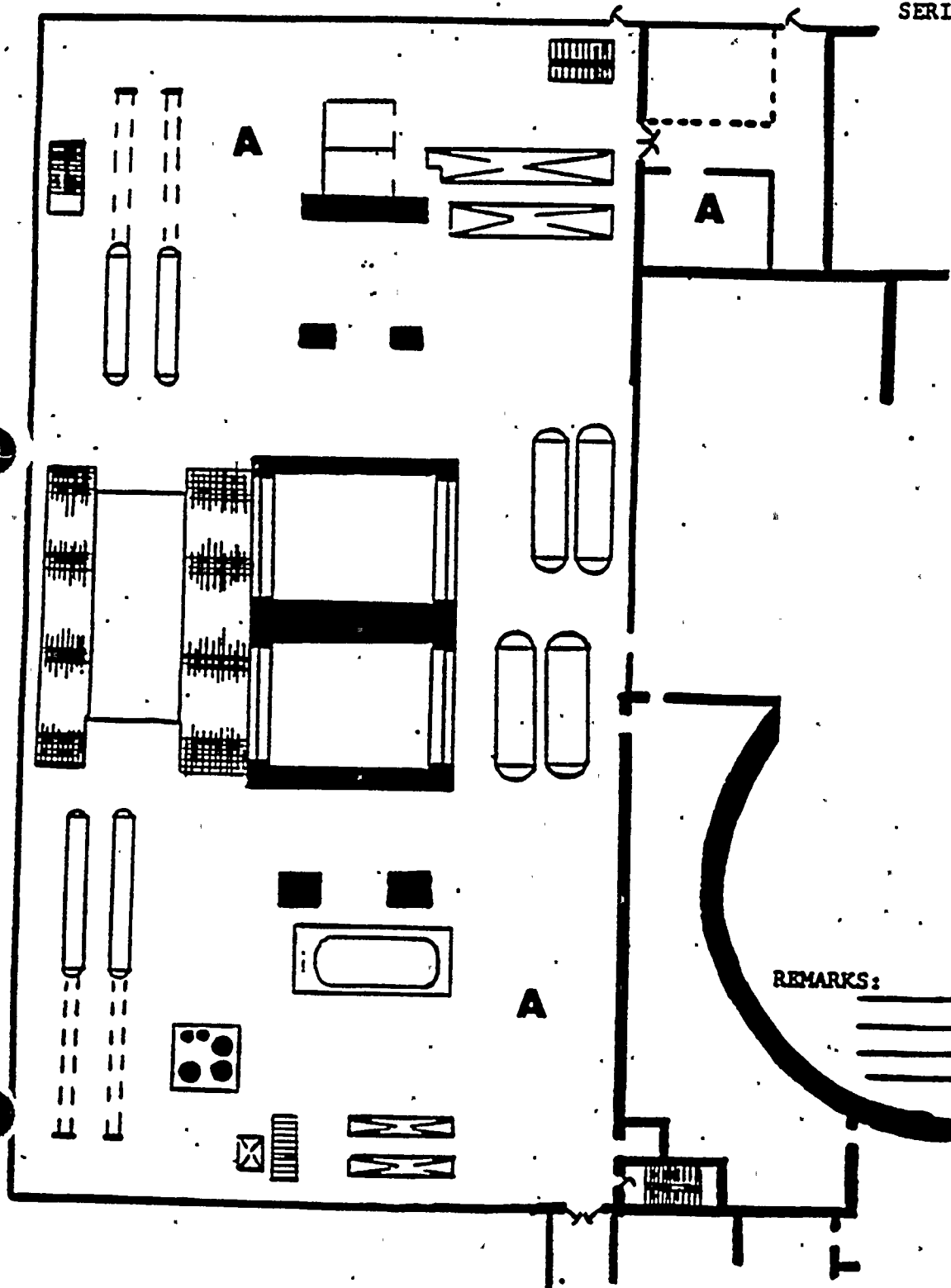
#	DPM/100 cm <sup>2</sup>
AREA B	250-1000
AREA A	4250
AIRBORNE	
ACTIVITY (uCi/g)	
IODINE: 1E-8	
PARTICULATE:	
	2E-8

REMARKS:

SURVEY MAP

0700-1115

**NORTH**



4	DPM/100 cm <sup>2</sup>
	ALL AREAS
	2250
	AIRBORNE
	ACTIVITY (uc
	IODINE: LIE
	PARTICULATE
	LIE-1

REMARKS:

RG&E

GINNA STATION

TURBINE BUILDING MEZZANINE FLOOR

SURVEY MAP

A = 0.02 MR/HR

B = 0.5 MR/HR

TSC = 0.02 MR/HR

After 1115

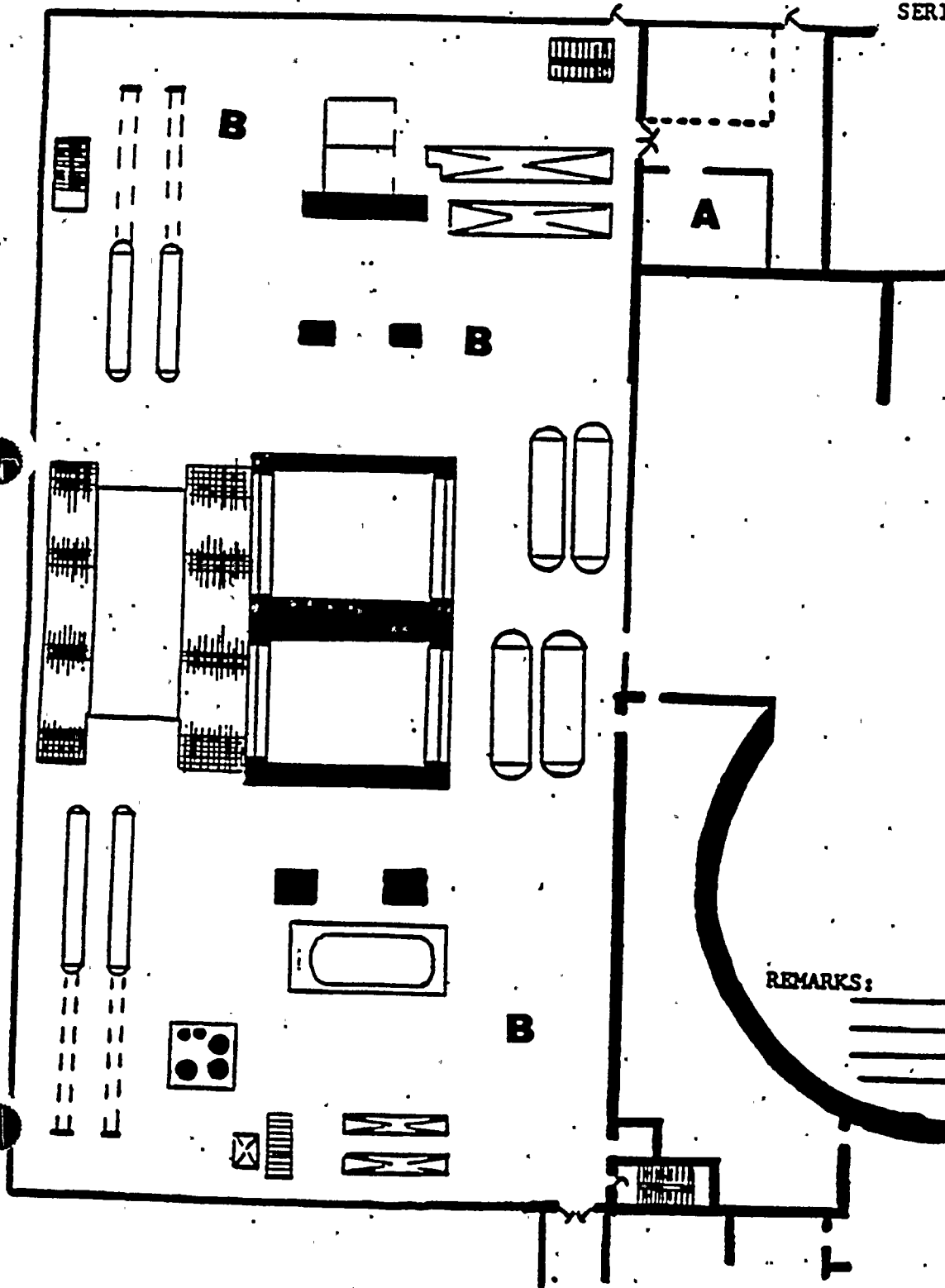
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

POWER: \_\_\_\_\_ BY: \_\_\_\_\_

INSTRUMENT: \_\_\_\_\_

SERIAL #: \_\_\_\_\_

NORTH



SHEARS

#	DEPM/100 Cm <sup>2</sup>
	ALL AREAS
	250-500
	AIRBORNE
	ACTIVITY (uL)
	IODINE: 3 E.
	PARTICULATE
	9 E-9

REMARKS:

## SURVEY MAP

$$A = 0.02 \text{ mR/mR}$$

**NORTH**



0700-0945

**A** = 0.02 M/HZ

**B** = 0.1 M/HZ

SMEARS:

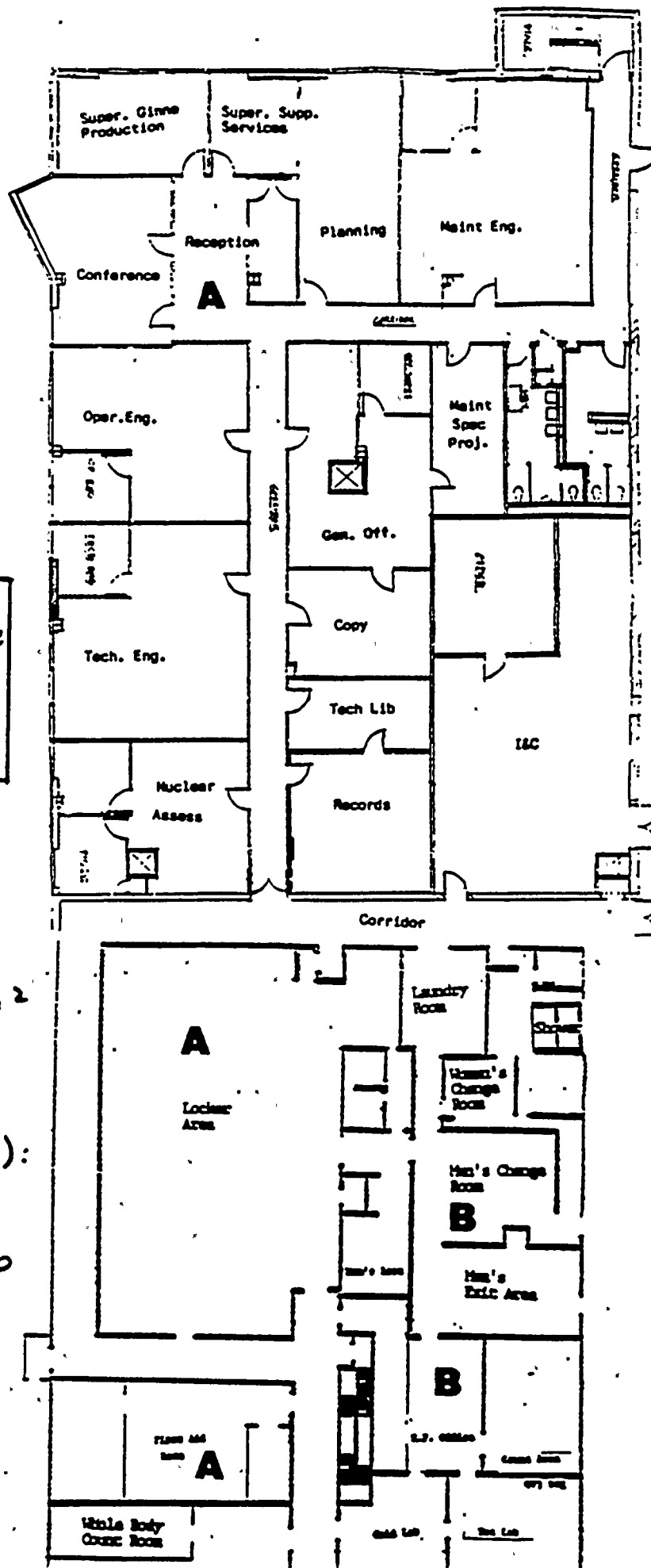
ALL AREAS

4250 dpm/100 cm<sup>2</sup>

AIRBORNE (uCi/cc):

IODINE: 41E-11

PARTIC: 41E-10



After 0945

**A** = 0.1 M/L/Hr

**B** = 0.5 M/L/Hr

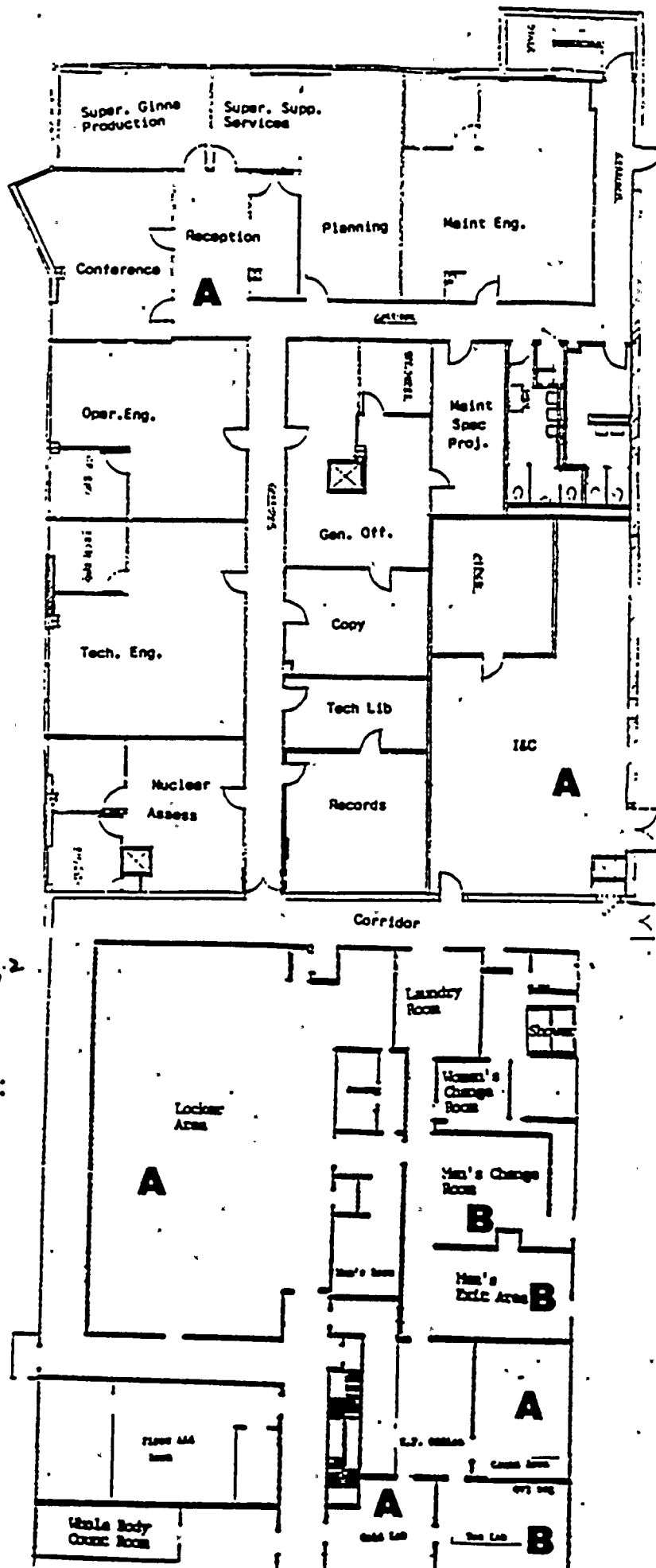
SMEARS:

2250 dpm/100cm<sup>2</sup>

AIRBORNE (uCi/cc):

IODINE: 1 E-9

PART: 2 E-9





## SECTION 9.3

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

TABLE 9.2

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY  
EQUILIBRIUM ACTIVITY

(AS OF 0500 HR, 12/06/95)

<u>Nuclide</u>	<u>Corrected Concentration (UCI/GM)</u>
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
Total Iodine	1.57E-02
I-131 Dose Equivalent	5.56E-03
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
Total Gas	1.87E+00



TABLE 9.3A

REACTOR COOLANT SYSTEM SAMPLE:  
GAS COLLECTION BOMB

(Collection Between 0945-1115)

<u>Nuclide</u>	<u>Concentration (<math>\mu\text{Ci/gm}</math>)</u> <u>Corrected to Time of Shutdown</u>
Kr-85	1.8 E+01
Kr-85m	1.7 E+03
Kr-87	2.9 E+03
Kr-88	4.4 E+03
Xe-131m	2.3 E+02
Xe-133	1.5 E+04
Xe-133m	2.3 E+03
Xe-135	2.9 E+03
Xe-135m	2.9 E+02
<b>Total Gas</b>	<b>2.9 E+04</b>

Undiluted Sample Dose Rate at 1 Meter = 170 MR/HR

Undiluted Sample Dose Rate at Contact = 1700 R/HR

Diluted Sample Dose Rate at 1 Meter = 0.03 MR/HR

Diluted Sample Dose Rate at Contact = 300 MR/HR

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

**TABLE 9.3B**

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

**(Collection After 1115)**

<b><u>Nuclide</u></b>	<b><u>Concentration (<math>\mu\text{Ci/gm}</math>)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
Kr-85	7.6 E+00
Kr-85m	7.4 E+02
Kr-87	1.2 E+03
Kr-88	1.8 E+03
Xe-131m	9.8 E+01
Xe-133	6.3 E+03
Xe-133m	9.8 E+02
Xe-135	1.2 E+03
Xe-135m	1.2 E+02
<b>Total Gas</b>	<b>1.2 E+04</b>

Undiluted Sample Dose Rate at 1 Meter = 70 MR/HR

Undiluted Sample Dose Rate at Contact = 700 R/HR

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

Diluted Sample Dose Rate at Contact = 130 MR/HR

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

**TABLE 9.4A**

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

**(Collection Between 0945-1115)**

<b><u>Nuclide</u></b>	<b><u>Concentration (UCI/GM)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
I-131	7.6 E+03
I-132	1.1 E+04
I-133	1.5 E+04
I-134	4.7 E+02
I-135	1.4 E+04
Cs-134	8.0 E+03
Cs-137	4.5 E+03
Ba-140	1.1 E+02
La-140	9.8 E+01
<b>Total Iodine</b>	<b>4.7 E+04</b>
<b>I-131 Dose Equivalent</b>	<b>1.0 E+04</b>
<b>Total Degassed Activity</b>	<b>6.1 E+04</b>

Undiluted Sample Dose Rate at 1 Meter = 280 MR/HR

Undiluted Sample Dose Rate at Contact = 2800 R/HR

Diluted Sample Dose Rate at 1 Meter = 0.05 MR/HR

Diluted Sample Dose Rate at Contact = 500 MR/HR

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

**TABLE 9.4B**

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

**(Collection After 1115)**

<b><u>Nuclide</u></b>	<b><u>Concentration (UCI/GM)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
-----------------------	---

I-131	5.1 E+03
I-132	7.3 E+03
I-133	1.0 E+04
I-134	3.2 E+02
I-135	9.2 E+03
Cs-134	8.0 E+03
Cs-137	4.5 E+03
Ba-140	1.1 E+02
La-140	9.8 E+01

<b>Total Iodine</b>	<b>3.2 E+04</b>
---------------------	-----------------

<b>I-131 Dose Equivalent</b>	<b>7.0 E+03</b>
------------------------------	-----------------

<b>Total Degassed Activity</b>	<b>4.5 E+04</b>
--------------------------------	-----------------

Undiluted Sample Dose Rate at 1 Meter = 190 MR/HR

Undiluted Sample Dose Rate at Contact = 1900 R/HR

Diluted Sample Dose Rate at 1 Meter = 0.03 MR/HR

Diluted Sample Dose Rate at Contact = 340 MR/HR

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

**TABLE 9.5A**

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

**(Collection Between 0945 - 1115)**

<b><u>Nuclide</u></b>	<b><u>Concentration (<math>\mu\text{Ci/gm}</math>)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
I-131	3.6 E+02
I-132	5.2 E+02
I-133	7.3 E+02
I-134	2.2 E+01
I-135	6.6 E+02
Cs-134	2.2 E+02
Cs-137	1.2 E+02
Ba-140	3.1 E+00
La-140	2.8 E+00
<b>Total Iodine</b>	<b>2.2 E+03</b>
<b>I-131 Dose Equivalent</b>	<b>5.0 E+02</b>
<b>Total Degassed Activity</b>	<b>2.7 E+03</b>

Undiluted Sample Dose Rate at 1 Meter = 13 MR/HR

Undiluted Sample Dose Rate at Contact = 135 R/HR

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

Diluted Sample Dose Rate at Contact = 25 MR/HR

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



**TABLE 9.5A**

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

**(Collection After 1115)**

<b><u>Nuclide</u></b>	<b><u>Concentration (<math>\mu\text{Ci/gm}</math>)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
I-131	6.7 E+02
I-132	9.9 E+02
I-133	1.4 E+03
I-134	4.2 E+01
I-135	1.2 E+03
Cs-134	8.4 E+02
Cs-137	4.8 E+02
Ba-140	1.2 E+01
La-140	1.0 E+01
<b>Total Iodine</b>	<b>4.2 E+03</b>
<b>I-131 Dose Equivalent</b>	<b>9.5 E+02</b>
<b>Total Degassed Activity</b>	<b>5.7 E+03</b>

Undiluted Sample Dose Rate at 1 Meter = 26 MR/HR

Undiluted Sample Dose Rate at Contact = 26 R/HR

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

Diluted Sample Dose Rate at Contact = 46 MR/HR

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

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

(Collection Between 0945-1115)

<b><u>Nuclide</u></b>	<b><u>Concentration (<math>\mu\text{Ci/cc}</math>)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
-----------------------	---

Kr-85	3.4 E-02
Kr-85m	3.2 E+00
Kr-87	5.4 E+00
Kr-88	8.1 E+00
Xe-131m	4.3 E-01
Xe-133	2.8 E+01
Xe-133m	4.3 E+00
Xe-135	5.4 E+00
Xe-135m	5.4 E-01

<b>Total Gas</b>	<b>5.4 E+01</b>
------------------	-----------------

I-131	1.4 E+00
I-132	2.0 E+00
I-133	2.8 E+00
I-134	8.9 E-02
I-135	2.6 E+00

<b>Total Iodine</b>	<b>8.9 E+00</b>
---------------------	-----------------

Cs-134	2.5 E-06
Cs-137	1.0 E-04
Ba-140	3.1 E-06
La-140	3.0 E-06

Undiluted Sample Dose Rate at 1 Meter = 0.3 MR/HR

Undiluted Sample Dose Rate at Contact = 3.0 R/HR

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

Diluted Sample Dose Rate at Contact = 0.5 MR/HR

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

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

(Collection After 1115)

<b><u>Nuclide</u></b>	<b><u>Concentration (<math>\mu\text{Ci/cc}</math>)</u></b> <b><u>Corrected to Time of Shutdown</u></b>
Kr-85	1.9 E-02
Kr-85m	1.8 E+00
Kr-87	3.0 E+00
Kr-88	4.6 E+00
Xe-131m	2.4 E-01
Xe-133	1.6 E+01
Xe-133m	2.4 E+00
Xe-135	3.0 E+00
Xe-135m	3.0 E-01
<b>Total Gas</b>	<b>3.0 E+01</b>
I-131	6.0 E-01
I-132	8.6 E-01
I-133	1.2 E+00
I-134	3.8 E-02
I-135	1.1 E+00
<b>Total Iodine</b>	<b>3.8 E+00</b>
Cs-134	1.0 E-06
Cs-137	6.0 E-05
Ba-140	2.1 E-06
La-140	2.1 E-06

Undiluted Sample Dose Rate at 1 Meter = 0.2 MR/HR

Undiluted Sample Dose Rate at Contact = 1.6 R/HR

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

Diluted Sample Dose Rate at Contact = 0.3 MR/HR

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

TABLE 9.7

CONTAINMENT HYDROGEN CONCENTRATION

<u>TIME</u>	<u>HYDROGEN (VOL.%)</u>
0700-0945	0.00
0946-1145	0.02
1146-1330	0.01
After 1330	0.00

TABLE 9.8

RCS AND SUMP BORON/pH DATA

<u>Sample</u>	<u>Time</u>	<u>ppm Boron</u>	<u>pH</u>
RCS	0700-0945	562	6.3
Sump		< 10	7.5

NOTE: Safety Injection starts at 0945 hr (LOCA)

RCS	0946-1115	1400	5.8
Sump		1100	6.1
RCS	After 1116	2300	5.2
Sump		2100	5.3

TABLE 9.9

CONTINUOUS AIR MONITOR READINGS IN AUXILIARY BUILDING

(READINGS IN COUNTS PER MINUTE)

<u>0700-0945 hrs:</u>	<u>GAS</u>	<u>IODINE</u>	<u>PARTICULATE</u>
TOP FLOOR	50	200	100
INTERMEDIATE FLOOR	50	200	100
BASEMENT FLOOR	100	300	200

0946-1115 hrs:

TOP FLOOR	150	300	200
INTERMEDIATE FLOOR	150	300	200
BASEMENT FLOOR	200	400	300

1116-1300 hrs:

ALL CAMS ALARMING. ALL READINGS OFFSCALE HIGH.

After 1300 hrs:

TOP FLOOR	100	500,000 *	600,000 *
INTERMEDIATE FLOOR	100	600,000 *	700,000 *
BASEMENT FLOOR	200	700,000 *	800,000 *

NOTE : \* = CAM ALARMING

## SECTION 10.0

### METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA

SECTION 10.1

METEOROLOGICAL DATA

(PLUME DIRECTION, WEATHER FORECASTS AND TOWER DATA)



A. 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 May 7, 1993. 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, southwesterly winds which will shift and become northeasterly by mid-morning.

During the period of release (1115-1245 hr), the average meteorological conditions are as follows:

Wind Speed = 5 mph (at 33 ft)

Wind Direction = 45 degrees (at 33 ft; wind from)

Pasquill Stability = E

WEATHER FORECAST INFORMATION

DECEMBER 6, 1995 · 7:00 AM - 14:30 PM

LAKE ONTARIO FORECAST:

TODAY: SOUTHWESTERLY WINDS WILL BE SHIFTING NORTHEASTERLY BY MID- MORNING. TEMPERATURES EXPECTED IN THE LOW- TO MID 40'S. WINDS WILL REMAIN FROM THE NORTHEAST AT 5 MPH THROUGHOUT THE REMAINDER OF THE AFTERNOON. WINDS SHIFTING NORTHERLY BY EARLY EVENING AND THEN BECOMING WESTERLY LATER TONIGHT.

PRINTOUTS FROM GINNA PRIMARY MET. TOWER

(15-MINUTE AVERAGES)

10-5

12/06/95 07:00

RECORD NUMBER 1316

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	3.1	MPH	0	1.7	2.7	6.1
SPD 33B	3.1	MPH	0	1.8	2.2	6.2
SPD150A	3.7	MPH	0	2.1	2.5	6.1
SPD150B	4.1	MPH	0	2.2	2.3	6.1
SPD250	3.7	MPH	0	2.2	2.7	6.2
DIR 33A	230	DEG	0	1.7	191	277
DIR 33B	230	DEG	0	1.8	192	271
DIR150A	227	DEG	0	2.1	197	277
DIR150B	230	DEG	0	1.7	191	275
DIR250	226	DEG	0	2.1	195	272
TER 33A	37.6	F	0			
TER 33B	37.1	F	0			
TER150A	36.5	F	0			
TER150B	36.4	F	0			
TER250A	35.1	F	0			
TER250B	35.3	F	0			
DT150-33A	-1.6	F/	0			
DT150-33B	-1.7	F/	0			
DT250-33A	-2.8	F/	0			
DT250-33B	-2.8	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 07:15

RECORD NUMBER 1317

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	2.9	MPH	0	1.7	2.7	8.1
SPD 33B	2.9	MPH	0	1.8	2.2	9.2
SPD150A	3.5	MPH	0	2.1	2.5	9.1
SPD150B	2.9	MPH	0	2.2	2.3	8.1
SPD250	3.5	MPH	0	2.2	2.7	9.2
DIR 33A	234	DEG	0	1.7	191	277
DIR 33B	237	DEG	0	1.8	192	271
DIR150A	231	DEG	0	2.1	197	277
DIR150B	233	DEG	0	1.7	191	275
DIR250	239	DEG	0	2.1	195	272
TER 33A	37.6	F	0			
TER 33B	37.5	F	0			
TER150A	36.6	F	0			
TER150B	36.5	F	0			
TER250A	35.4	F	0			
TER250B	35.3	F	0			
DT150-33A	-1.6	F/	0			
DT150-33B	-1.7	F/	0			
DT250-33A	-2.8	F/	0			
DT250-33B	-2.9	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 07:30

RECORD NUMBER 1318

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	2.9	MPH	0	1.7	2.7	6.1
SPD 33B	2.8	MPH	0	1.8	2.2	6.2
SPD150A	3.3	MPH	0	2.1	2.5	6.1
SPD150B	3.6	MPH	0	2.2	2.3	6.1
SPD250	3.3	MPH	0	2.2	2.7	6.2
DIR 33A	242	DEG	0	1.7	231	317
DIR 33B	245	DEG	0	1.8	232	311
DIR150A	245	DEG	0	2.1	237	317
DIR150B	247	DEG	0	1.7	231	315
DIR250	242	DEG	0	2.1	235	312
TER 33A	37.7	F	0			
TER 33B	37.9	F	0			
TER150A	36.7	F	0			
TER150B	36.5	F	0			
TER250A	35.5	F	0			
TER250B	35.3	F	0			
DT150-33A	-1.5	F/	0			
DT150-33B	-1.7	F/	0			
DT250-33A	-2.7	F/	0			
DT250-33B	-2.9	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00





12/06/95 07:45

RECORD NUMBER 1319

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
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SPD 33A	2.8	MPH	0	1.7	1.7	6.1
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SPD 33B	2.8	MPH	0	1.8	1.2	6.2
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SPD150A	3.0	MPH	0	2.1	1.5	6.1
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SPD150B	3.4	MPH	0	2.2	1.3	6.1
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SPD250	3.0	MPH	0	2.2	1.7	6.2
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DIR 33A	250	DEG	0	1.7	221	317
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DIR 33B	252	DEG	0	1.8	222	311
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DIR150A	258	DEG	0	2.1	227	317
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DIR150B	250	DEG	0	1.7	221	315
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DIR250	255	DEG	0	2.1	225	312
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TER 33A	38.2	F	0			
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TER 33B	38.3	F	0			
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TER150A	37.7	F	0			
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TER150B	37.6	F	0			
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TER250A	36.5	F	0			
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TER250B	36.3	F	0			
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DT150-33A	-1.5	F/	0			
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DT150-33B	-1.7	F/	0			
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DT250-33A	-2.7	F/	0			
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DT250-33B	-2.0	F/	0			
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DEWPOINT	28.7	F	0			
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RAIN	0.00	INCH	0	1.02	1.02	0.00
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12/06/95 08:00

RECORD NUMBER 1320

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	3.8	MPH	0	1.7	2.7	6.1
SPD 33B	3.7	MPH	0	1.8	2.2	6.2
SPD150A	3.8	MPH	0	2.1	2.5	6.1
SPD150B	4.1	MPH	0	2.2	2.3	6.1
SPD250	3.8	MPH	0	2.2	2.7	6.2
DIR 33A	278	DEG	0	1.7	231	317
DIR 33B	279	DEG	0	1.8	232	311
DIR150A	272	DEG	0	2.1	237	317
DIR150B	273	DEG	0	1.7	231	315
DIR250	278	DEG	0	2.1	235	312
TER 33A	38.8	F	0			
TER 33B	38.8	F	0			
TER150A	37.8	F	0			
TER150B	37.6	F	0			
TER250A	36.6	F	0			
TER250B	36.3	F	0			
DT150-33A	-1.4	F/	0			
DT150-33B	-1.7	F/	0			
DT250-33A	-2.0	F/	0			
DT250-33B	-2.0	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 08:15

RECORD NUMBER 1321

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
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SPD 33A	3.4	MPH	0	1.7	2.7	6.1
SPD 33B	3.4	MPH	0	1.8	2.2	6.2
SPD150A	3.5	MPH	0	2.1	2.5	6.1
SPD150B	3.8	MPH	0	2.2	2.3	6.1
SPD250	3.5	MPH	0	2.2	2.7	6.2
DIR 33A	293	DEG	0	1.7	231	317
DIR 33B	306	DEG	0	1.8	232	311
DIR150A	290	DEG	0	2.1	237	317
DIR150B	282	DEG	0	1.7	231	315
DIR250	281	DEG	0	2.1	235	312
TER 33A	39.4	F	0			
TER 33B	39.5	F	0			
TER150A	38.0	F	0			
TER150B	38.8	F	0			
TER250A	37.8	F	0			
TER250B	37.5	F	0			
DT150-33A	-1.4	F/	0			
DT150-33B	-1.0	F/	0			
DT250-33A	-1.6	F/	0			
DT250-33B	-1.7	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 08:30

RECORD NUMBER 1322

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	3.5	MPH	0	1.7	2.7	6.1
SPD 33B	3.5	MPH	0	1.8	2.2	6.2
SPD150A	3.2	MPH	0	2.1	2.5	6.1
SPD150B	3.4	MPH	0	2.2	2.3	6.1
SPD250	3.7	MPH	0	2.2	2.7	6.2
DIR 33A	298	DEG	0	1.7	241	317
DIR 33B	293	DEG	0	1.8	242	311
DIR150A	298	DEG	0	2.1	247	317
DIR150B	281	DEG	0	1.7	241	315
DIR250	284	DEG	0	2.1	245	312
TER 33A	39.2	F	0			
TER 33B	39.2	F	0			
TER150A	38.2	F	0			
TER150B	38.0	F	0			
TER250A	37.5	F	0			
TER250B	37.7	F	0			
DT150-33A	-0.5	F/	0			
DT150-33B	-0.7	F/	0			
DT250-33A	-1.7	F/	0			
DT250-33B	-1.8	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 08:45

RECORD NUMBER 1323

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	3.7	MPH	0	1.7	2.7	6.1
SPD 33B	3.8	MPH	0	1.8	2.2	6.2
SPD150A	3.8	MPH	0	2.1	2.5	6.1
SPD150B	4.1	MPH	0	2.2	2.3	6.1
SPD250	3.9	MPH	0	2.2	2.7	6.2
DIR 33A	313	DEG	0	1.7	241	337
DIR 33B	320	DEG	0	1.8	242	331
DIR150A	315	DEG	0	2.1	247	337
DIR150B	300	DEG	0	1.7	241	335
DIR250	316	DEG	0	2.1	245	332
TER 33A	40.9	F	0			
TER 33B	40.9	F	0			
TER150A	40.4	F	0			
TER150B	40.2	F	0			
TER250A	39.2	F	0			
TER250B	39.9	F	0			
DT150-33A	-0.5	F/	0			
DT150-33B	-0.7	F/	0			
DT250-33A	-1.3	F/	0			
DT250-33B	-1.3	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 09:00

RECORD NUMBER 1324

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	3.3	MPH	0	1.7	1.7	4.1
SPD 33B	3.5	MPH	0	1.8	1.2	4.2
SPD150A	3.5	MPH	0	2.1	1.5	4.1
SPD150B	3.7	MPH	0	2.2	1.3	4.1
SPD250	3.6	MPH	0	2.2	1.7	4.2
DIR 33A	338	DEG	0	1.7	241	347
DIR 33B	337	DEG	0	1.8	242	341
DIR150A	333	DEG	0	2.1	247	347
DIR150B	339	DEG	0	1.7	241	355
DIR250	339	DEG	0	2.1	245	352
TER 33A	40.6	F	0			
TER 33B	40.6	F	0			
TER150A	40.1	F	0			
TER150B	40.2	F	0			
TER250A	39.4	F	0			
TER250B	39.1	F	0			
DT150-33A	-0.5	F/	0			
DT150-33B	-0.7	F/	0			
DT250-33A	-1.2	F/	0			
DT250-33B	-1.2	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00





12/06/95 09:15

RECORD NUMBER 1325

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
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SPD 33A	4.0	MPH	0	1.7	2.7	6.1
SPD 33B	4.2	MPH	0	1.8	2.2	6.2
SPD150A	4.6	MPH	0	2.1	2.5	6.1
SPD150B	4.0	MPH	0	2.2	2.3	6.1
SPD250	3.9	MPH	0	2.2	2.7	6.2
DIR 33A	356	DEG	0	1.7	291	397
DIR 33B	353	DEG	0	1.8	292	391
DIR150A	358	DEG	0	2.1	287	397
DIR150B	352	DEG	0	1.7	291	395
DIR250	350	DEG	0	2.1	295	392
TER 33A	40.8	F	0			
TER 33B	40.9	F	0			
TER150A	40.3	F	0			
TER150B	40.1	F	0			
TER250A	39.8	F	0			
TER250B	39.8	F	0			
DT150-33A	-0.5	F/	0			
DT150-33B	-0.8	F/	0			
DT250-33A	-1.3	F/	0			
DT250-33B	-1.1	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 09:30

RECORD NUMBER 1326

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.1	MPH	0	1.7	2.7	6.1
SPD 33B	4.2	MPH	0	1.8	2.2	6.2
SPD150A	3.8	MPH	0	2.1	2.5	6.1
SPD150B	4.4	MPH	0	2.2	2.3	6.1
SPD250	4.2	MPH	0	2.2	2.7	6.2
DIR 33A	354	DEG	0	1.7	311	397
DIR 33B	360	DEG	0	1.8	312	391
DIR150A	353	DEG	0	2.1	317	397
DIR150B	356	DEG	0	1.7	311	395
DIR250	362	DEG	0	2.1	315	392
TER 33A	41.6	F	0			
TER 33B	41.6	F	0			
TER150A	41.1	F	0			
TER150B	41.2	F	0			
TER250A	40.7	F	0			
TER250B	40.4	F	0			
DT150-33A	-0.5	F/	0			
DT150-33B	-0.4	F/	0			
DT250-33A	-0.9	F/	0			
DT250-33B	-0.9	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 09:45

RECORD NUMBER 1327

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.3	MPH	0	1.7	3.7	7.1
SPD 33B	4.5	MPH	0	1.8	3.2	7.2
SPD150A	4.9	MPH	0	2.1	3.5	7.1
SPD150B	4.7	MPH	0	2.2	3.3	7.1
SPD250	5.4	MPH	0	2.2	3.7	7.2
DIR 33A	352	DEG	0	1.7	291	17
DIR 33B	356	DEG	0	1.8	322	11
DIR150A	357	DEG	0	2.1	327	17
DIR150B	359	DEG	0	1.7	321	15
DIR250	353	DEG	0	2.1	325	12
TER 33A	41.8	F	0			
TER 33B	41.9	F	0			
TER150A	41.4	F	0			
TER150B	41.5	F	0			
TER250A	41.4	F	0			
TER250B	41.1	F	0			
DT150-33A	-0.3	F/	0			
DT150-33B	-0.3	F/	0			
DT250-33A	-0.8	F/	0			
DT250-33B	-0.8	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 10:00

RECORD NUMBER 1328

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.4	MPH	0	1.7	3.7	8.1
SPD 33B	4.5	MPH	0	1.8	3.2	9.2
SPD150A	4.5	MPH	0	2.1	3.5	9.1
SPD150B	4.5	MPH	0	2.2	3.3	8.1
SPD250	4.7	MPH	0	2.2	3.7	9.2
DIR 33A	360	DEG	0	1.7	311	17
DIR 33B	2	DEG	0	1.8	312	11
DIR150A	2	DEG	0	2.1	317	17
DIR150B	3	DEG	0	1.7	311	15
DIR250	3	DEG	0	2.1	315	12
TER 33A	42.3	F	0			
TER 33B	42.3	F	0			
TER150A	41.9	F	0			
TER150B	41.9	F	0			
TER250A	41.9	F	0			
TER250B	41.7	F	0			
DT150-33A	-0.2	F/	0			
DT150-33B	-0.2	F/	0			
DT250-33A	-0.6	F/	0			
DT250-33B	-0.6	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00





12/06/95 10:15

RECORD NUMBER 1329

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	-----	-----	---	---
SPD 33A	4.6	MPH	0	1.7	2.7	7.1
SPD 33B	4.5	MPH	0	1.8	2.2	7.2
SPD150A	4.6	MPH	0	2.1	2.5	7.1
SPD150B	4.8	MPH	0	2.2	2.3	8.1
SPD250	4.6	MPH	0	2.2	2.7	7.2
DIR 33A	19	DEG	0	1.7	391	37
DIR 33B	21	DEG	0	1.8	392	31
DIR150A	22	DEG	0	2.1	397	37
DIR150B	23	DEG	0	1.7	391	35
DIR250	23	DEG	0	2.1	395	32
TER 33A	42.7	F	0			
TER 33B	42.8	F	0			
TER150A	42.5	F	0			
TER150B	42.6	F	0			
TER250A	42.4	F	0			
TER250B	42.4	F	0			
DT150-33A	-0.1	F/	0			
DT150-33B	-0.0	F/	0			
DT250-33A	-0.3	F/	0			
DT250-33B	-0.3	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 10:30

RECORD NUMBER 1330

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.6	MPH	0	1.7	2.7	7.1
SPD 33B	4.6	MPH	0	1.8	2.2	7.2
SPD150A	4.9	MPH	0	2.1	2.5	7.1
SPD150B	4.7	MPH	0	2.2	2.3	7.1
SPD250	4.5	MPH	0	2.2	2.7	7.2
DIR 33A	38	DEG	0	1.7	321	17
DIR 33B	40	DEG	0	1.8	12	61
DIR150A	42	DEG	0	2.1	17	67
DIR150B	37	DEG	0	1.7	11	65
DIR250	39	DEG	0	2.1	15	62
TER 33A	43.2	F	0			
TER 33B	43.4	F	0			
TER150A	43.1	F	0			
TER150B	43.2	F	0			
TER250A	43.0	F	0			
TER250B	43.0	F	0			
DT150-33A	-0.0	F/	0			
DT150-33B	-0.1	F/	0			
DT250-33A	-0.2	F/	0			
DT250-33B	-0.3	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

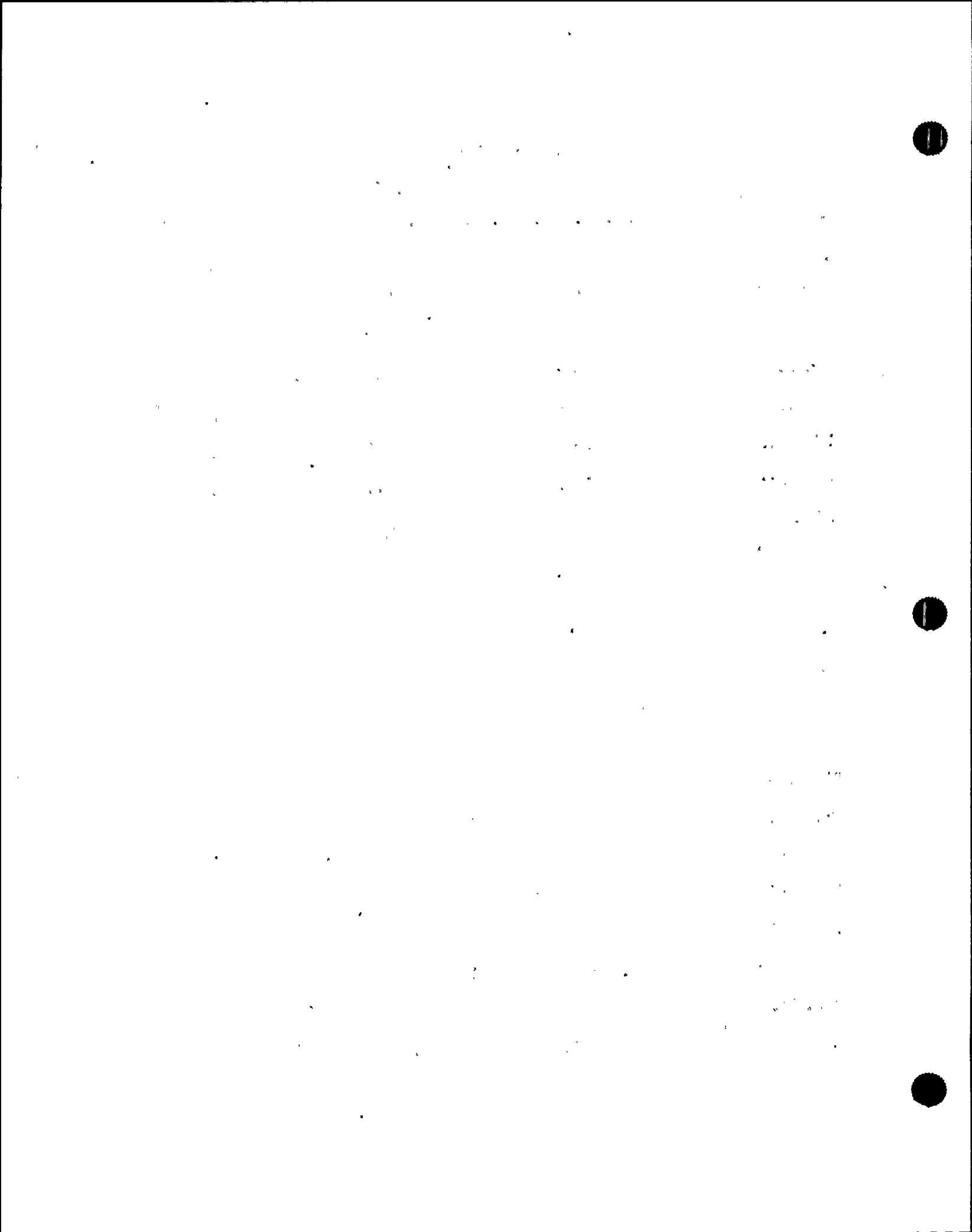
12/06/95 10:45

RECORD NUMBER 1331

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	-----	-----	---	---
SPD 33A	4.8	MPH	0	1.7	3.7	8.1
SPD 33B	4.8	MPH	0	1.8	3.2	9.2
SPD150A	5.8	MPH	0	2.1	3.5	9.1
SPD150B	5.5	MPH	0	2.2	3.3	8.1
SPD250	5.4	MPH	0	2.2	3.7	9.2
DIR 33A	47	DEG	0	1.7	21	67
DIR 33B	49	DEG	0	1.8	22	61
DIR150A	47	DEG	0	2.1	27	67
DIR150B	46	DEG	0	1.7	21	65
DIR250	50	DEG	0	2.1	25	62
TER 33A	43.5	F	0			
TER 33B	43.6	F	0			
TER150A	43.5	F	0			
TER150B	43.4	F	0			
TER250A	43.1	F	0			
TER250B	43.2	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	-0.1	F/	0			
DT250-33A	0.0	F/	0			
DT250-33B	0.0	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 11:00

RECORD NUMBER 1332

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.7	MPH	0	1.7	3.7	8.1
SPD 33B	4.7	MPH	0	1.8	3.2	9.2
SPD150A	4.7	MPH	0	2.1	3.5	9.1
SPD150B	5.3	MPH	0	2.2	3.3	8.1
SPD250	5.3	MPH	0	2.2	3.7	9.2
DIR 33A	46	DEG	0	1.7	11	67
DIR 33B	48	DEG	0	1.8	12	61
DIR150A	47	DEG	0	2.1	17	67
DIR150B	45	DEG	0	1.7	11	65
DIR250	49	DEG	0	2.1	15	62
TER 33A	44.0	F	0			
TER 33B	44.0	F	0			
TER150A	44.1	F	0			
TER150B	44.0	F	0			
TER250A	44.2	F	0			
TER250B	44.4	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	0.2	F/	0			
DT250-33B	0.1	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 11:15

RECORD NUMBER 1333

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.0	MPH	0	1.7	3.7	8.1
SPD 33B	5.0	MPH	0	1.8	3.2	9.2
SPD150A	5.1	MPH	0	2.1	3.5	9.1
SPD150B	5.2	MPH	0	2.2	3.3	8.1
SPD250	5.2	MPH	0	2.2	3.7	9.2
DIR 33A	45	DEG	0	1.7	21	67
DIR 33B	47	DEG	0	1.8	22	61
DIR150A	42	DEG	0	2.1	27	67
DIR150B	44	DEG	0	1.7	21	65
DIR250	50	DEG	0	2.1	25	62
TER 33A	44.5	F	0			
TER 33B	44.5	F	0			
TER150A	44.5	F	0			
TER150B	44.4	F	0			
TER250A	44.9	F	0			
TER250B	44.8	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	0.1	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 11:30

RECORD NUMBER 1334

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.0	MPH	0	1.7	3.7	8.1
SPD 33B	5.1	MPH	0	1.8	3.2	8.2
SPD150A	5.0	MPH	0	2.1	3.5	8.1
SPD150B	5.1	MPH	0	2.2	3.3	8.1
SPD250	5.1	MPH	0	2.2	3.7	8.2
DIR 33A	44	DEG	0	1.7	21	67
DIR 33B	46	DEG	0	1.8	22	61
DIR150A	43	DEG	0	2.1	27	67
DIR150B	44	DEG	0	1.7	21	65
DIR250	51	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	44.9	F	0			
TER150A	45.1	F	0			
TER150B	45.1	F	0			
TER250A	45.4	F	0			
TER250B	45.4	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	0.1	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.4	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 11:45

RECORD NUMBER 1335

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.9	MPH	0	1.7	3.7	8.1
SPD 33B	4.9	MPH	0	1.8	3.2	8.2
SPD150A	5.1	MPH	0	2.1	3.5	8.1
SPD150B	5.1	MPH	0	2.2	3.3	8.1
SPD250	4.9	MPH	0	2.2	3.7	8.2
DIR 33A	42	DEG	0	1.7	21	67
DIR 33B	45	DEG	0	1.8	22	61
DIR150A	43	DEG	0	2.1	27	67
DIR150B	44	DEG	0	1.7	21	65
DIR250	42	DEG	0	2.1	25	62
TER 33A	45.0	F	0			
TER 33B	45.0	F	0			
TER150A	45.2	F	0			
TER150B	45.2	F	0			
TER250A	45.5	F	0			
TER250B	45.4	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	0.1	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.4	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 12:00

RECORD NUMBER 1336

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.0	MPH	0	1.7	3.7	8.1
SPD 33B	5.1	MPH	0	1.8	3.2	8.2
SPD150A	5.3	MPH	0	2.1	3.5	8.1
SPD150B	5.0	MPH	0	2.2	3.3	8.1
SPD250	4.8	MPH	0	2.2	3.7	8.2
DIR 33A	51	DEG	0	1.7	21	67
DIR 33B	44	DEG	0	1.8	22	61
DIR150A	48	DEG	0	2.1	27	67
DIR150B	44	DEG	0	1.7	21	65
DIR250	43	DEG	0	2.1	25	62
TER 33A	45.0	F	0			
TER 33B	45.0	F	0			
TER150A	45.3	F	0			
TER150B	45.2	F	0			
TER250A	45.5	F	0			
TER250B	45.6	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.2	F/	0			
DT250-33A	0.6	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 12:15

RECORD NUMBER 1337

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.0	MPH	0	1.7	3.7	8.1
SPD 33B	5.1	MPH	0	1.8	3.2	9.2
SPD150A	5.0	MPH	0	2.1	3.5	9.1
SPD150B	4.9	MPH	0	2.2	3.3	8.1
SPD250	5.0	MPH	0	2.2	3.7	9.2
DIR 33A	48	DEG	0	1.7	21	67
DIR 33B	50	DEG	0	1.8	22	61
DIR150A	49	DEG	0	2.1	27	67
DIR150B	49	DEG	0	1.7	21	65
DIR250	48	DEG	0	2.1	25	62
TER 33A	45.0	F	0			
TER 33B	45.0	F	0			
TER150A	45.2	F	0			
TER150B	45.3	F	0			
TER250A	45.5	F	0			
TER250B	45.6	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.1	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.6	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 12:30

RECORD NUMBER 1338

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.7	MPH	0	1.7	3.7	8.1
SPD 33B	4.7	MPH	0	1.8	3.2	8.2
SPD150A	4.9	MPH	0	2.1	3.5	8.1
SPD150B	5.1	MPH	0	2.2	3.3	8.1
SPD250	5.3	MPH	0	2.2	3.7	8.2
DIR 33A	45	DEG	0	1.7	21	67
DIR 33B	47	DEG	0	1.8	22	61
DIR150A	45	DEG	0	2.1	27	67
DIR150B	45	DEG	0	1.7	21	65
DIR250	44	DEG	0	2.1	25	62
TER 33A	45.0	F	0			
TER 33B	45.0	F	0			
TER150A	45.3	F	0			
TER150B	45.3	F	0			
TER250A	45.5	F	0			
TER250B	45.6	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.1	F/	0			
DT250-33A	0.6	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 12:45

RECORD NUMBER 1339

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	-----	-----	---	---
SPD 33A	4.8	MPH	0	1.7	3.7	8.1
SPD 33B	4.9	MPH	0	1.8	3.2	8.2
SPD150A	5.2	MPH	0	2.1	3.5	8.1
SPD150B	4.8	MPH	0	2.2	3.3	8.1
SPD250	4.5	MPH	0	2.2	3.7	8.2
DIR 33A	52	DEG	0	1.7	341	17
DIR 33B	43	DEG	0	1.8	22	61
DIR150A	50	DEG	0	2.1	27	67
DIR150B	49	DEG	0	1.7	21	65
DIR250	50	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	44.9	F	0			
TER150A	45.2	F	0			
TER150B	45.2	F	0			
TER250A	45.5	F	0			
TER250B	45.5	F	0			
DT150-33A	0.2	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.4	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 13:00

RECORD NUMBER 1340

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.0	MPH	0	1.7	4.7	9.1
SPD 33B	5.1	MPH	0	1.8	4.2	9.2
SPD150A	5.0	MPH	0	2.1	4.5	9.1
SPD150B	5.1	MPH	0	2.2	4.3	9.1
SPD250	4.7	MPH	0	2.2	4.7	9.2
DIR 33A	49	DEG	0	1.7	21	67
DIR 33B	49	DEG	0	1.8	22	61
DIR150A	46	DEG	0	2.1	27	67
DIR150B	45	DEG	0	1.7	21	65
DIR250	44	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	44.9	F	0			
TER150A	45.3	F	0			
TER150B	45.3	F	0			
TER250A	45.5	F	0			
TER250B	45.6	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.2	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.6	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 13:15

RECORD NUMBER 1341

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.7	MPH	0	1.7	3.7	8.1
SPD 33B	4.8	MPH	0	1.8	3.2	8.2
SPD150A	5.0	MPH	0	2.1	3.5	8.1
SPD150B	5.5	MPH	0	2.2	3.3	8.1
SPD250	5.2	MPH	0	2.2	3.7	8.2
DIR 33A	49	DEG	0	1.7	21	67
DIR 33B	47	DEG	0	1.8	22	61
DIR150A	49	DEG	0	2.1	27	67
DIR150B	48	DEG	0	1.7	21	65
DIR250	49	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	44.9	F	0			
TER150A	45.3	F	0			
TER150B	45.3	F	0			
TER250A	45.5	F	0			
TER250B	45.5	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.2	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.6	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 13:30

RECORD NUMBER 1342

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.1	MPH	0	1.7	3.7	8.1
SPD 33B	4.9	MPH	0	1.8	3.2	8.2
SPD150A	5.1	MPH	0	2.1	3.5	8.1
SPD150B	5.0	MPH	0	2.2	3.3	8.1
SPD250	5.2	MPH	0	2.2	3.7	8.2
DIR 33A	49	DEG	0	1.7	21	67
DIR 33B	46	DEG	0	1.8	22	61
DIR150A	42	DEG	0	2.1	27	67
DIR150B	41	DEG	0	1.7	21	65
DIR250	43	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	45.0	F	0			
TER150A	45.2	F	0			
TER150B	45.2	F	0			
TER250A	45.5	F	0			
TER250B	45.4	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



12/06/95 13:45

RECORD NUMBER 1343

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	5.2	MPH	0	1.7	3.7	8.1
SPD 33B	5.2	MPH	0	1.8	3.2	8.2
SPD150A	5.0	MPH	0	2.1	3.5	8.1
SPD150B	5.4	MPH	0	2.2	3.3	8.1
SPD250	5.1	MPH	0	2.2	3.7	8.2
DIR 33A	48	DEG	0	1.7	21	67
DIR 33B	44	DEG	0	1.8	22	61
DIR150A	44	DEG	0	2.1	27	67
DIR150B	44	DEG	0	1.7	21	65
DIR250	48	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	45.0	F	0			
TER150A	45.2	F	0			
TER150B	45.3	F	0			
TER250A	45.5	F	0			
TER250B	45.4	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

12/06/95 14:00

RECORD NUMBER 1344

GINNA PLANT

ORIGINAL

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
SPD 33A	4.9	MPH	0	1.7	2.7	7.1
SPD 33B	4.9	MPH	0	1.8	2.2	7.2
SPD150A	5.5	MPH	0	2.1	2.5	7.1
SPD150B	4.8	MPH	0	2.2	2.3	7.1
SPD250	5.5	MPH	0	2.2	2.7	7.2
DIR 33A	48	DEG	0	1.7	21	67
DIR 33B	42	DEG	0	1.8	22	61
DIR150A	47	DEG	0	2.1	27	67
DIR150B	47	DEG	0	1.7	21	65
DIR250	42	DEG	0	2.1	25	62
TER 33A	44.9	F	0			
TER 33B	45.0	F	0			
TER150A	45.3	F	0			
TER150B	45.2	F	0			
TER250A	45.5	F	0			
TER250B	45.5	F	0			
DT150-33A	0.1	F/	0			
DT150-33B	0.2	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	28.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00



**SECTION 10.2**

**FIELD DATA AND MAPS**



TABLE 10.2

PLUME ARRIVAL/DEPARTURE TIMES

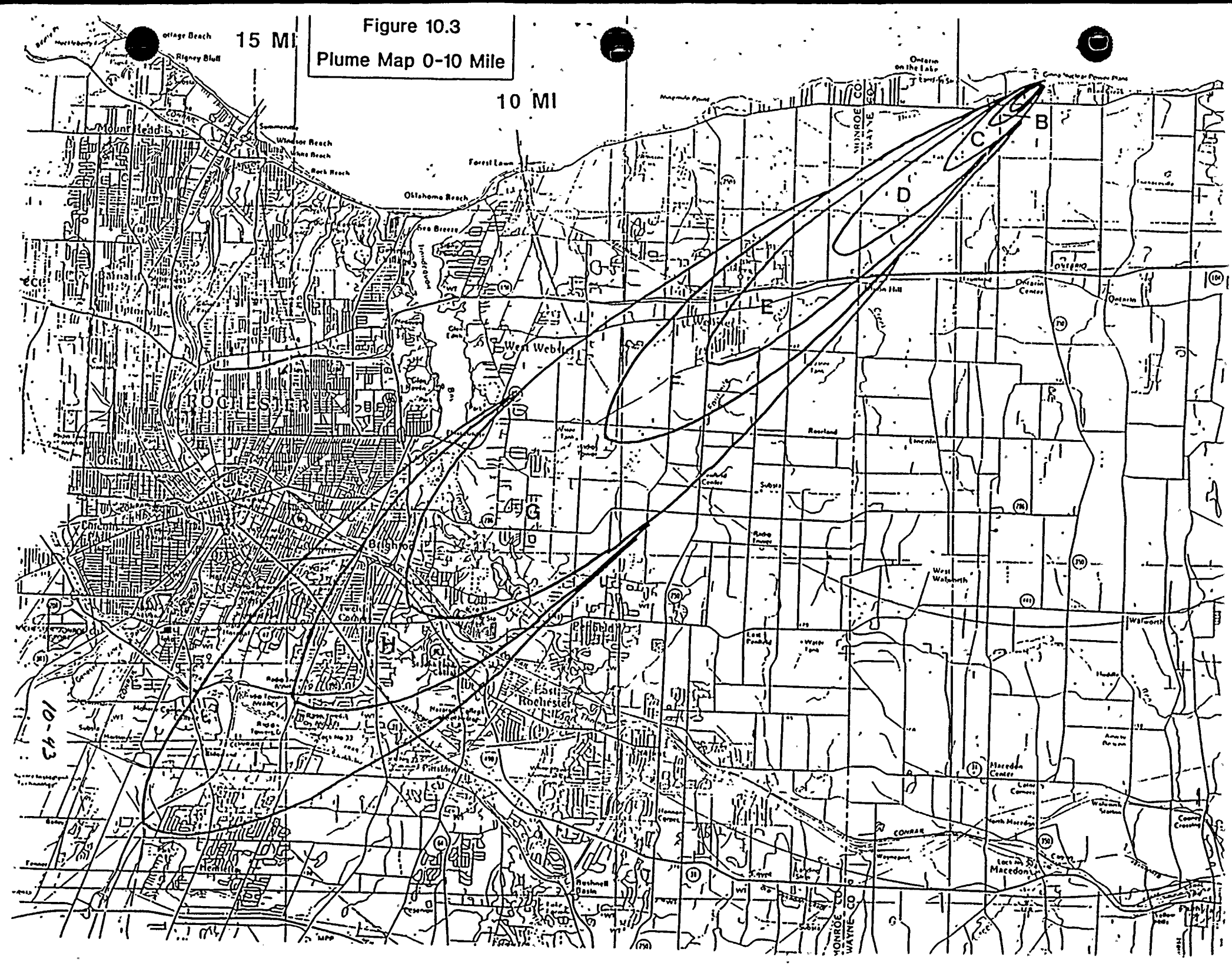
	ARRIVAL * <u>DISTANCE (MI)</u>	DEPARTURE ** <u>TABLE 10.3</u>
0.5	11:21	12:51
1.0	11:27	12:57
2.0	11:39	13:09
3.0	11:51	13:21
4.0	12:03	13:33
5.0	11:15	13:45
6.0	12:27	13:57
7.0	12:39	14:09
8.0	12:51	14:21
9.0	13:03	14:33
10.0	13:15	14:45
11.0	13:27	14:57
12.0	13:39	15:09

## NOTES:

\* After indicated arrival time, refer to offsite radiological data shown on Table 10.3 the zone of interest.

\*\* After indicated departure time, all dose rates (mr/hr) will be background. For ground deposition readings, refer to post-plume radiological data shown on Tables 10.4 and 10.5.

Figure 10.3  
Plume Map 0-10 Mile



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

ZONE	CLOSED WINDOW AT 3 FEET (mR/hr)	CLOSED WINDOW ON CONTACT (mR/hr)	OPEN WINDOW AT 3 FEET (mR/hr)	OPEN WINDOW ON CONTACT (mR/hr)	DOSIMETRY INCREMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
A	2.8E+03	2.8E+03	3.9E+03	3.9E+03	7.0E+02	3.1E+03	5.0E+02
B	1.3E+03	1.3E+03	1.8E+03	1.8E+03	3.3E+02	1.3E+03	2.4E+02
C	5.9E+02	5.9E+02	8.1E+02	8.1E+02	1.5E+02	6.1E+02	1.2E+02
D	2.8E+02	2.8E+02	3.8E+02	3.8E+02	6.9E+01	3.0E+02	7.3E+01
E	1.7E+02	1.7E+02	2.3E+02	2.3E+02	4.2E+01	1.9E+02	5.3E+01
F	1.1E+02	1.1E+02	1.5E+02	1.5E+02	2.8E+01	1.4E+02	4.4E+01
G	7.1E+01	7.1E+01	9.8E+01	9.8E+01	1.8E+01	9.9E+01	3.8E+01
H	5.1E+01	5.1E+01	7.0E+01	7.0E+01	1.3E+01	7.9E+01	3.4E+01
I	BKG	BKG	5.5E+01	5.5E+01	1.0E+01	6.6E+01	3.3E+01

**NOTES:**

- 1) Dose rate readings apply to Victoreen 450 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 WINDOW AT 3 FEET (mR/hr)	CLOSED WINDOW ON CONTACT (mR/hr)	OPEN WINDOW AT 3 FEET (mR/hr)	OPEN WINDOW ON CONTACT (mR/hr)	DOSIMETRY INCREMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
A	2.8E+03	2.8E+03	3.9E+03	3.9E+03	7.0E+02	5.1E+03	7.9E+02
B	1.3E+03	1.3E+03	1.8E+03	1.8E+03	3.3E+02	2.2E+03	3.8E+02
C	5.9E+02	5.9E+02	8.1E+02	8.1E+02	1.5E+02	9.9E+02	1.8E+02
D	2.8E+02	2.8E+02	3.8E+02	3.8E+02	6.9E+01	4.8E+02	9.9E+01
E	1.7E+02	1.7E+02	2.3E+02	2.3E+02	4.2E+01	3.0E+02	7.3E+01
F	1.1E+02	1.1E+02	1.5E+02	1.5E+02	2.8E+01	2.1E+02	5.5E+01
G	7.1E+01	7.1E+01	9.8E+01	9.8E+01	1.8E+01	1.5E+02	4.5E+01
H	5.1E+01	5.1E+01	7.0E+01	7.0E+01	1.3E+01	1.1E+02	4.0E+01
I	BKG	BKG	5.5E+01	5.5E+01	1.0E+01	9.2E+01	3.7E+01

**NOTES:**

- 1) Dose rate readings apply to Victoreen 450 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 CDV-700.

TABLE 10.4

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

ZONE	1 METER	1 CM
A	2700	50,000
B	1300	27,000
C	570	12,000
D	270	5700
E	160	3500
F	110	2300
G	69	1500
H	49	1100
I	BKG	830

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

ZONE	1 METER	1 CM
A	1700	23,000
B	780	11,000
C	350	4900
D	160	2300
E	100	1400
F	66	920
G	BKG	590
H	BKG	420
I	BKG	330

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)

ZONE	1 METER	1 CM
A	760	1300
B	350	600
C	160	270
D	74	130
E	46	77
F	BKG	BKG
G	BKG	BKG
H	BKG	BKG
I	BKG	BKG

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





SECTION 10.3

FIELD AIR SAMPLE ISOTOPIC DATA

TABLE 10.6

## GROUND DEPOSITION ISOTOPIC ACTIVITY FOR SOIL SAMPLES

ZONE	TOTAL GROUND ACTIVITY $\mu\text{Ci}/\text{M}^2$	I-131 $\mu\text{Ci}/\text{M}^2$	I-133 $\mu\text{Ci}/\text{M}^2$	CS-134 $\mu\text{Ci}/\text{M}^2$	CS-137 $\mu\text{Ci}/\text{M}^2$	BA-140 $\mu\text{Ci}/\text{M}^2$	LA-140 $\mu\text{Ci}/\text{M}^2$	SR-89 $\mu\text{Ci}/\text{M}^2$	SR-90 $\mu\text{Ci}/\text{M}^2$
A	5.84E+01	1.11E+01	2.14E+01	1.29E-02	5.94E-03	3.10E-04	3.07E-04	1.41E-05	1.29E-05
B	2.73E+01	5.20E+00	9.99E+00	6.02E-03	2.78E-03	1.45E-04	1.44E-04	6.61E-06	6.02E-06
C	1.22E+01	2.32E+00	4.47E+00	2.69E-03	1.24E-03	6.49E-05	6.43E-05	2.96E-06	2.69E-06
D	5.70E+00	1.09E+00	2.09E+00	1.26E-03	5.81E-04	3.03E-05	3.00E-05	1.38E-06	1.26E-06
E	3.51E+00	6.67E-01	1.28E+00	7.73E-04	3.57E-04	1.86E-05	1.85E-05	8.49E-07	7.73E-07
F	2.30E+00	4.38E-01	8.43E-01	5.08E-04	2.35E-04	1.22E-05	1.21E-05	5.58E-07	5.08E-07
G	1.47E+00	2.80E-01	5.38E-01	3.24E-04	1.50E-04	7.81E-06	7.74E-06	3.56E-07	3.24E-07
H	1.06E+00	2.01E-01	3.86E-01	2.33E-04	1.08E-04	5.61E-06	5.56E-06	2.56E-07	2.33E-07
I	8.33E-01	1.59E-01	3.05E-01	1.84E-04	8.48E-05	4.43E-06	4.39E-06	2.02E-07	1.84E-07

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

Soil Sample Depth	Conversion
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

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RECEIVED-REGION 1