

THE ROCHESTER GAS AND ELECTRIC CORPORATION

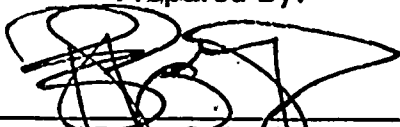
GINNA STATION


EMERGENCY PREPAREDNESS EXERCISE MANUAL

1993 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

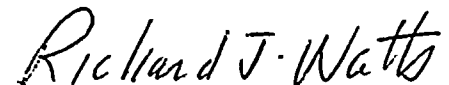
November 17,, 1993

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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

1993 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 approves this document as the standard for conduct in performance of the November, 1993 Emergency Preparedness Exercise.

THE ROCHESTER GAS AND ELECTRIC CORPORATION, GINNA STATION

1993 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 NUREG-0654, and 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.

1993 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

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GINNA STATION

1993 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

TABLE OF CONTENTS

FOREWORD

INTRODUCTION

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 Proposed Activities

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

1993 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

TABLE OF CONTENTS (Cont'd)

7.0	<u>EXERCISE SCENARIO</u>
7.1	Initial Conditions
7.2	Onsite Sequence of Events
7.3	Simulator Set Up Instructions
7.4	Simulator Use Guidelines
8.0	<u>MESSAGE FORMS AND PLANT DATA SHEETS</u>
9.0	<u>ONSITE RADIOLOGICAL AND CHEMISTRY DATA</u>
9.1	Radiological Summary
9.2	In-Plant Radiological Data
9.3	Post-Accident Sampling Results
10.0	<u>METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA</u>
10.1	Meteorological Data
10.2	Field Data and Maps
10.3	Field Air Isotopic Data

GINNA STATION

1993 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 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 Release Vent Concentrations Vs Time
- Figure 9.3 Letdown Monitor Reading Vs Time
- Figure 9.4 Containment Radiation Vs Time
- Figure 9.3 RCS Concentrations Vs Time

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

1993 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 7.0

Table 7.1	Simulator Set-up Data for Exercise Scenario (LATER)
Table 7.2	Simulator Set-up Data (Rad Monitor Readings) (LATER)
Table 7.3	Simulator Use Guidelines (LATER)

SECTION 9.0

Table 9.1	Assumed Release Quantities
Table 9.2	Equilibrium Reactor Coolant Activity
Table 9.3	Post-Accident Reactor Coolant Samples
Table 9.4	Post-Accident Containment Atmosphere Samples
Table 9.5	Post-Accident Containment Sump Samples
Table 9.6	Continuous Air Monitor Readings (Auxiliary Bldg & TSC)
Table 9.7	Air Sample Results in TSC and Control Room

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	Air Sample Isotopic Analysis Data

SECTION 1.0

SCOPE AND OBJECTIVES

1.0

SCOPE AND ONSITE OBJECTIVES - PLUME EXPOSURE PATHWAY

1.1

Scope

The 1993 Emergency Preparedness Plume Exposure Pathway Exercise will be conducted on a full-participation basis and will simulate accident events culminating in a radiological accident resulting in the activation of onsite 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 mobilization of state and local resources to adequately verify their capability to respond to an accident at the Ginna Nuclear Power Plant.

1.2

Onsite Objectives for the 1993 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 the determination of ambient radiation levels.
- 1.2.8 Demonstrate the proper use of appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 1.0 E-7 uCi/cc in the presence of noble gases.
- 1.2.9 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.
- 1.2.10 Demonstrate the ability to notify offsite officials and agencies within 15 minutes of declaration of an emergency.
- 1.2.11 Demonstrate the ability to periodically update offsite officials and agencies of the status of the emergency based on data available at Ginna Station.
- 1.2.12 Demonstrate the ability to notify emergency support pools as appropriate (i.e., INPO, ANI, etc.).
- 1.2.13 Demonstrate the ability to notify onsite personnel using plant alarms and public address systems.
- 1.2.14 Demonstrate the organization's ability to assess plant parameters and symptoms indicative of degrading plant conditions, and relate such symptoms to prescribed Emergency Action Levels.
- 1.2.15 Demonstrate the organization's ability to properly classify emergency conditions.
- 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 control access to the site.
- 1.2.18 Demonstrate the ability to continuously monitor and control emergency workers' exposure.

- 1.2.19 Demonstrate the adequacy of facilities and displays to support the Joint Emergency News Center operations.
- 1.2.20 Demonstrate the ability to brief the media in a clear, accurate, and timely manner.
- 1.2.21 Demonstrate the ability to provide advanced coordination of information released to the public.
- 1.2.22 Demonstrate the ability to establish and operate rumor control in a coordinated fashion.
- 1.2.23 Demonstrate the adequacy of in-plant post-accident sampling techniques and analysis.
- 1.2.24 Demonstrate the ability to develop a preliminary action plan to support plant recovery.
- 1.2.25 Demonstrate the ability to respond to information requests from simulated NRC staff during the course of the Exercise .
- 1.2.26 Demonstrate the ability to effect a timely shift change of key emergency response staff positions during the Exercise.
- 1.2.27 Demonstrate the ability to conduct a post-exercise critique which adequately characterizes licensee performance based upon controller and observer assessments.

1.3 Summary of Proposed Activities

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

TABLE 1.1

1993 GINNA STATION EMERGENCY PREPAREDNESS EXERCISE
(PLUME EXPOSURE)

PROPOSED ONSITE ACTIVITIES

	<u>RG&E</u>
Notification of Agencies	Actual
Call Up of Personnel	Actual
Activate Organization	Actual
Maintain Security	Actual
Plant Evacuation & Accountability	Actual
Conduct Dose Assessment	Actual
Protective Action Recommendations	Actual
Operate Joint Emergency News Center	Actual
Dispatch Field Survey Teams	Actual-3*
Obtain PASS Sample	Actual
Shift Change - Key Personnel	Actual **

* Field teams will be deployed and will demonstrate appropriate field monitoring techniques and communications with respective emergency response facilities. A minimum of 1 onsite and 2 offsite teams will be deployed.

** Shift change will include principal positions in the TSC, OSC, EOF and JENC.

SIMULATIONS

- o Respiratory protection and protective clothing will be simulated by onsite/offsite survey teams. In-Plant teams 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.
- o Informational requests from controllers simulating NRC staff .

1.4

SUMMARY OF PROPOSED OFFSITE OBJECTIVES AND ACTIVITIES

Proposed offsite objectives and activities are described in Attachment A.

ATTACHMENT A

OFFSITE EXERCISE OBJECTIVES

PROPOSED OBJECTIVES FOR GINNA

Wayne County Emergency Operations Center (WCEOC)

OBJECTIVE #	PEA ARCAs
<u>MOBILIZATION OF EMERGENCY PERSONNEL</u>	
1. 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.	None
<u>FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT</u>	
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.	None
<u>DIRECTION AND CONTROL</u>	
3. Demonstrate the capability to direct and control emergency operations.	None
<u>COMMUNICATIONS</u>	
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.	None
<u>EMERGENCY WORKER EXPOSURE CONTROL</u>	
5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.	None
<u>PLUME DOSE PROJECTION</u>	
7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.	WC-1
<u>PLUME PROTECTIVE ACTION DECISION MAKING</u>	
9. Demonstrate the capability to make timely and appropriate protective action decisions (PAD).	None

PROPOSED OBJECTIVES FOR GINNA

Wayne County Emergency Operations Center (WCEOC)

OBJECTIVE #	PEA ARCAs
<u>ALERT AND NOTIFICATION</u>	
10. 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.	None
<u>PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION</u>	
11. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONAL INDIVIDUALS, AND THE GENERAL PUBLIC</u>	
14. 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.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS</u>	
15. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS</u>	
16. Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).	None
<u>TRAFFIC AND ACCESS CONTROL</u>	
17. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.	None

PROPOSED OBJECTIVES FOR GINNA

Wayne County Field Activities (WCFA)

OBJECTIVE #	PEA ARCAs
-------------	--------------

MOBILIZATION OF EMERGENCY PERSONNEL

- | | |
|---|------|
| 1. 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. | None |
|---|------|

FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

- | | |
|--|--------|
| 2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. | *WC-16 |
|--|--------|

COMMUNICATIONS

- | | |
|---|------|
| 4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. | None |
|---|------|

EMERGENCY WORKER EXPOSURE CONTROL

- | | |
|--|------|
| 5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. | None |
|--|------|

FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

- | | |
|--|-----------------------|
| 6. Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements. | *WC-2
WC-3
WC-4 |
|--|-----------------------|

PLUME DOSE PROJECTION

- | | |
|--|-------|
| 7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering. | None. |
|--|-------|

FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

- | | |
|---|------|
| 8. Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume. | None |
|---|------|

* Field verification is not required.

PROPOSED OBJECTIVES FOR GINNA

Wayne County Field Activities (WCFA)

OBJECTIVE #	PEA ARCA's
-------------	---------------

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

- | | |
|--|------|
| 14. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specified, the general public. | None |
|--|------|

IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

- | | |
|---|------|
| 15. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations. | None |
|---|------|

IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

- | | |
|---|------|
| 16. Demonstrate the organizational capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ). | None |
|---|------|

TRAFFIC AND ACCESS CONTROL

- | | |
|--|------|
| 17. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas. | None |
|--|------|

RECEPTION CENTER - MONITORING, DECONTAMINATION, AND REGISTRATION

- | | |
|--|------|
| 18. Demonstrate the adequacy of procedures, facilities, equipment and personnel for the radiological monitoring, decontamination and registration of evacuees. | None |
|--|------|

CONGREGATE CARE

- | | |
|--|---------------|
| 19. Demonstrate the adequacy of facilities, equipment, supplies, personnel and procedures for congregate care of evacuees. | *WC-5
WC-8 |
|--|---------------|

* Field verification is not required.

PROPOSED OBJECTIVES FOR GINNA

Wayne County Field Activities (WCFA)

OBJECTIVE #	PEA ARCAs
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EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION

- | | |
|---|--------------|
| 22. Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment and vehicles. | WC-6
WC-7 |
|---|--------------|

PROPOSED OBJECTIVES FOR GINNA

Monroe County Emergency Operations Center (MCEOC)

OBJECTIVE #	PEA ARCAs
<u>MOBILIZATION OF EMERGENCY PERSONNEL</u>	
1. 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.	None
<u>FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT</u>	
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.	None
<u>DIRECTION AND CONTROL</u>	
3. Demonstrate the capability to direct and control emergency operations.	None
<u>COMMUNICATIONS</u>	
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.	None
<u>EMERGENCY WORKER EXPOSURE CONTROL</u>	
5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.	None
<u>PLUME DOSE PROJECTION</u>	
7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.	None
<u>PLUME PROTECTIVE ACTION DECISION MAKING</u>	
9. Demonstrate the capability to make timely and appropriate protective action decisions (PAD).	None

PROPOSED OBJECTIVES FOR GINNA

Monroe County Emergency Operations Center (MCEOC)

OBJECTIVE #	PEA ARCAs
<u>ALERT AND NOTIFICATION</u>	
10. 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.	None
<u>PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION</u>	
11. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONAL INDIVIDUALS, AND THE GENERAL PUBLIC</u>	
14. 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.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS</u>	
15. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.	None
<u>IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS</u>	
16. Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).	None
<u>TRAFFIC AND ACCESS CONTROL</u>	
17. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.	None

PROPOSED OBJECTIVES FOR GINNA

Monroe County Field Activities (MCFA)

OBJECTIVE #	PEA ARCA's
-------------	---------------

MOBILIZATION OF EMERGENCY PERSONNEL

- | | |
|---|------|
| 1. 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. | None |
|---|------|

FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

- | | |
|--|------|
| 2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. | None |
|--|------|

COMMUNICATIONS

- | | |
|---|------|
| 4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. | None |
|---|------|

EMERGENCY WORKER EXPOSURE CONTROL

- | | |
|--|--------------|
| 5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. | MC-3
MC-4 |
|--|--------------|

FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

- | | |
|--|------|
| 6. Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements. | None |
|--|------|

PLUME DOSE PROJECTION

- | | |
|--|------|
| 7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering. | None |
|--|------|

FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

- | | |
|---|------|
| 8. Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (0.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume. | None |
|---|------|

PROPOSED OBJECTIVES FOR GINNA

Monroe County Field Activities (MCFA)

OBJECTIVE #	PEA ARCAs
-------------	--------------

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

- | | |
|--|------|
| 14. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specified, the general public. | None |
|--|------|

IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS

- | | |
|---|------|
| 15. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations. | MC-1 |
|---|------|

IMPLEMENTATION OF PROTECTIVE ACTIONS - SCHOOLS

- | | |
|---|------|
| 16. Demonstrate the organizational capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ). | None |
|---|------|

TRAFFIC AND ACCESS CONTROL

- | | |
|--|------|
| 17. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas. | MC-2 |
|--|------|

RECEPTION CENTER - MONITORING, DECONTAMINATION, AND REGISTRATION

- | | |
|--|------|
| 18. Demonstrate the adequacy of procedures, facilities, equipment and personnel for the radiological monitoring, decontamination and registration of evacuees. | None |
|--|------|

CONGREGATE CARE

- | | |
|--|------|
| 19. Demonstrate the adequacy of facilities, equipment, supplies, personnel and procedures for congregate care of evacuees. | None |
|--|------|

MEDICAL SERVICES - TRANSPORTATION

- | | |
|--|------|
| 20. Demonstrate the adequacy of vehicles, equipment, procedures, and personnel for transporting contaminated, injured, or exposed individuals. | None |
|--|------|

PROPOSED OBJECTIVES FOR GINNA

Monroe County Field Activities (MCFA)

OBJECTIVE #	PEA ARCAs
-------------	--------------

MEDICAL SERVICES - FACILITIES

- | | |
|--|------|
| 21. Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals. | None |
|--|------|

EMERGENCY WORKERS, EQUIPMENT, AND VEHICLES - MONITORING AND DECONTAMINATION

- | | |
|---|------|
| 22. Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment and vehicles. | None |
|---|------|

PROPOSED OBJECTIVES FOR GINNA

Lake District Emergency Operations Center (LDEOC)

OBJECTIVE #	PEA ARCAs
<u>MOBILIZATION OF EMERGENCY PERSONNEL</u>	
1. 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.	None
<u>FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT</u>	
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.	None
<u>DIRECTION AND CONTROL</u>	
3. Demonstrate the capability to direct and control emergency operations.	None
<u>COMMUNICATIONS</u>	
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.	None

PROPOSED OBJECTIVES FOR GINNA

New York State Emergency Operations Center (SEOC)

OBJECTIVE #	PEA ARCAs
<u>MOBILIZATION OF EMERGENCY PERSONNEL</u>	
1. 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.	None
<u>FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT</u>	
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.	None
<u>DIRECTION AND CONTROL</u>	
3. Demonstrate the capability to direct and control emergency operations.	None
<u>COMMUNICATIONS</u>	
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.	None
<u>EMERGENCY WORKER EXPOSURE CONTROL</u>	
5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.	None
<u>PLUME DOSE PROJECTION (a)</u>	
7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.	None
<u>PLUME PROTECTIVE ACTION DECISION MAKING (a)</u>	
9. Demonstrate the capability to make timely and appropriate protective action decisions (PAD).	None

PROPOSED OBJECTIVES FOR GINNA

New York State Emergency Operations Center (SEOC)

OBJECTIVE #	PEA ARCAs
-------------	--------------

ALERT AND NOTIFICATION (a)

- | | |
|---|------|
| 10. 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. | None |
|---|------|

PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION (a)

- | | |
|--|------|
| 11. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public. | None |
|--|------|

IMPLEMENTATION OF PROTECTIVE ACTIONS - USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONAL INDIVIDUALS, AND THE GENERAL PUBLIC

- | | |
|--|------|
| 14. 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. | None |
|--|------|

- (a) This objective will be evaluated for SEOC should the Governor declare a State of Emergency.

PROPOSED OBJECTIVES FOR GINNA

Emergency Operations Facility (EOF)

OBJECTIVE #	PEA ARCAs
-------------	--------------

MOBILIZATION OF EMERGENCY PERSONNEL

- | | |
|---|------|
| 1. 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. | None |
|---|------|

FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT

- | | |
|--|------|
| 2. Demonstrate the adequacy of facilities, Equipment, displays, and other materials to support emergency operations. | None |
|--|------|

COMMUNICATIONS

- | | |
|---|-----------------------|
| 4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. | EOF-1
(State only) |
|---|-----------------------|

PROPOSED OBJECTIVES FOR GINNA

Joint News Center (JNC)

OBJECTIVE #	PEA ARCA's
<u>MOBILIZATION OF EMERGENCY PERSONNEL</u>	
1. 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.	None
<u>FACILITIES - EQUIPMENT, DISPLAYS, AND WORK ENVIRONMENT</u>	
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.	None JNC-1 (State only)
<u>COMMUNICATIONS</u>	
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.	None
<u>ALERT AND NOTIFICATION</u>	
10. 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.	None
<u>PUBLIC INSTRUCTIONS AND EMERGENCY INFORMATION</u>	
11. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.	None
<u>EMERGENCY INFORMATION - MEDIA</u>	
12. Demonstrate the capability to coordinate the development and dissemination of clear, accurate and timely information to the news media.	None
<u>EMERGENCY INFORMATION - RUMOR CONTROL</u>	
13. Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.	None

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. Federal Emergency Management Agency
3. National Weather Service

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 to participate in the Exercise solely for the purpose of observing/evaluating Exercise activity. They will be provided with orientation information and appropriate Exercise publications.

Observers will be appropriately identified by wearing arm bands or badges. Federal agency observers will be identified by wearing arm bands or badges with lettering stating "NRC" or "FEMA".

Visitors 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 be provided with orientation information and appropriate Exercise publications.

Visitors will be identified by wearing arm bands or badges stating "Visitor".

2.2.5 Requests to participate as a Visitor should be made in writing and contain the Visitor's full name, home address, phone number and organization affiliation. Requests to participate as Visitors 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 Manager 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 Site Area 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. 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 either by panel indications displayed in the Simulator Control Room or through plant data and status sheets. 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 messages as written. 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 messages as written. 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 onsite 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.

2.6

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 Drill must be obtained from:

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 International Airport.

3.1.2

Car

- A. Several car rental agencies are available at the Rochester-Monroe County International Airport to provide rental vehicles for ground transportation to Ginna Station.
- B. Persons traveling from the Rochester-Monroe County International Airport via auto should take Route 204 East to Route 390 South. Route 390 becomes Route 590 as one proceeds around the ~~Out~~ 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 International 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

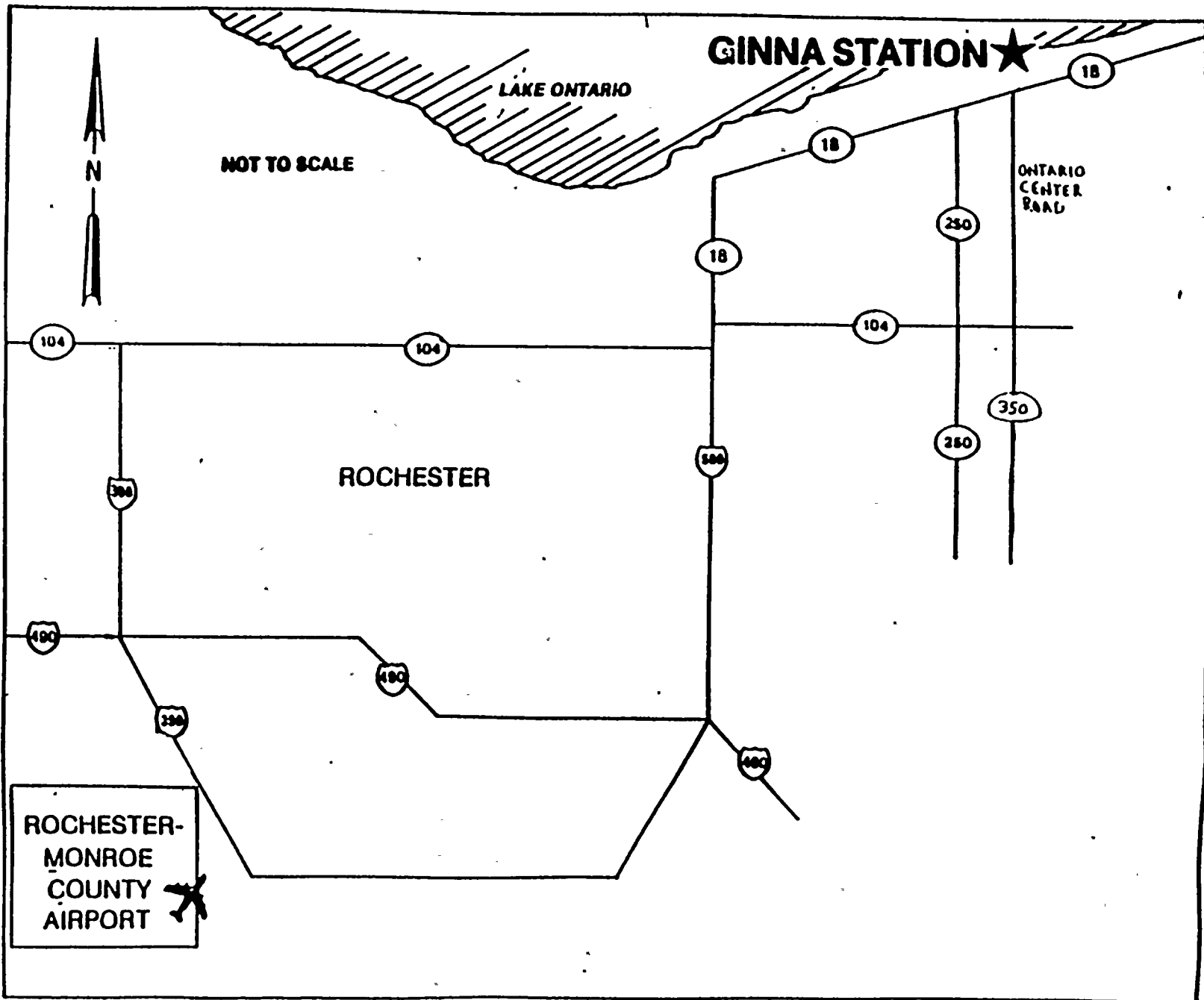
To get to the Emergency Operations Facility (EOF) and Engineering Support Center (ESC), go to the intersection of East Avenue and Chestnut Street (black square on map). EOF and ESC are in 49 East Avenue. The JENC is at 89 East Avenue (see Figure 3.2).

3.3

Accommodations

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

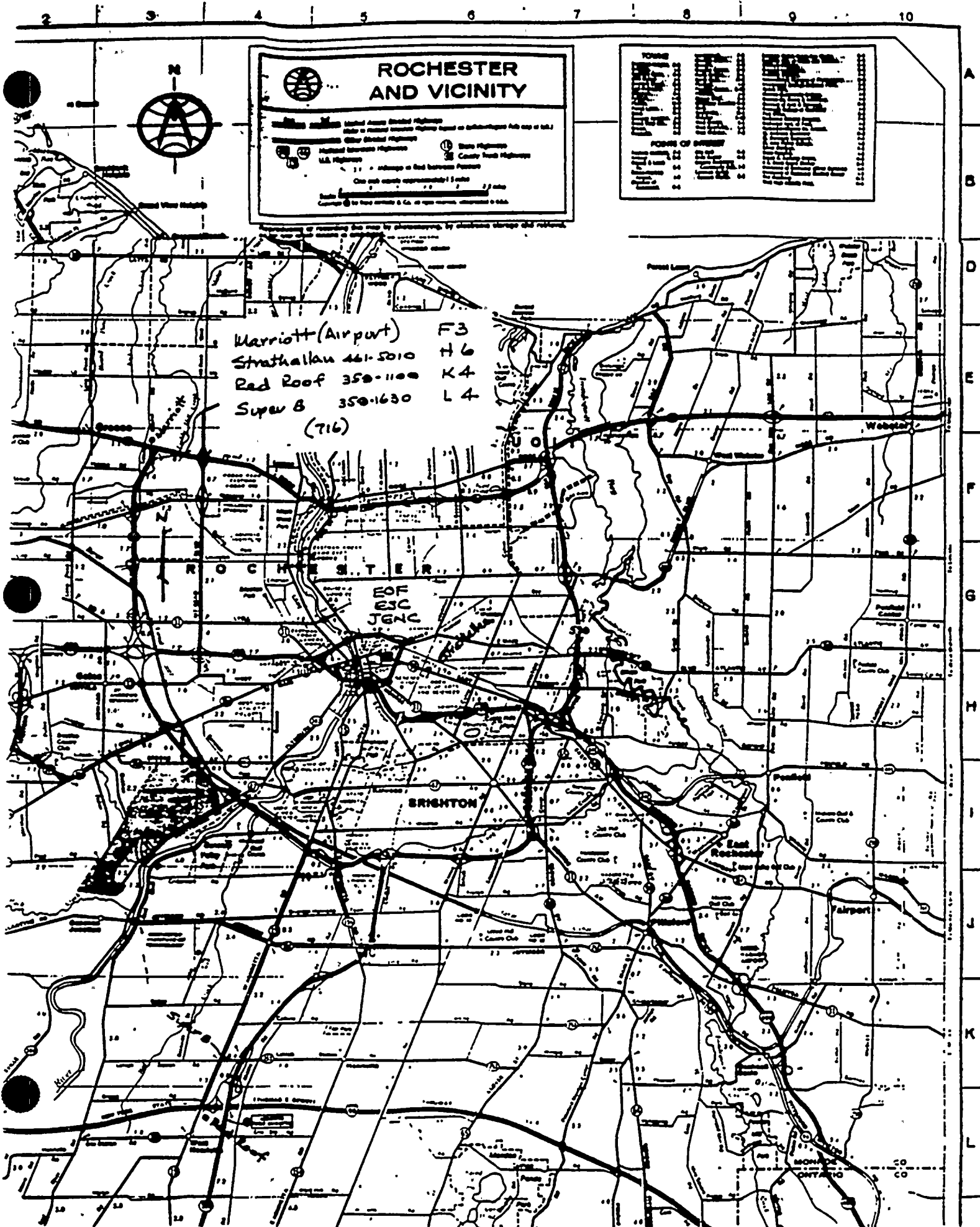
Depot Hotel, Pittsford	(716) 381-9900
Marriott Hotel, Greece	(716) 225-6880
Red Roof Inn, Henrietta	(716) 359-1100
Brookwood Inn, Pittsford	(716) 248-9000
Woodcliff Lodge, Perinton	(716) 248-4810

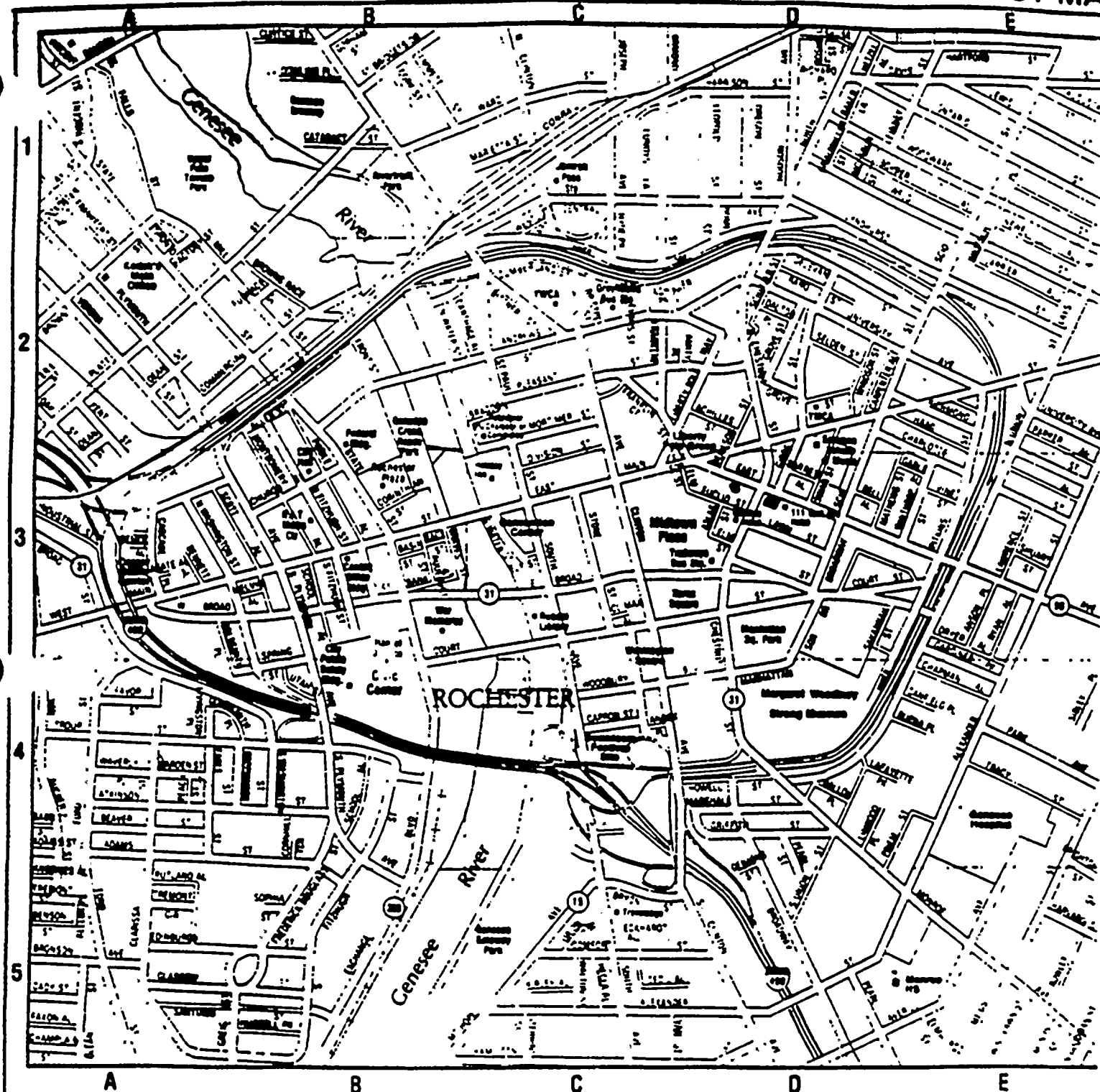


PLANT: **GINNA STATION**
LICENSEE: Rochester Gas & Electric Corp.

LOCATION: Ontario, N Y

FIGURE 3.1



**Government Offices**

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

Hotels & Motels

Cadillac Motel
Holiday Inn
Rochester Plaza
Travelodge

Points of Interest

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

Parks

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

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

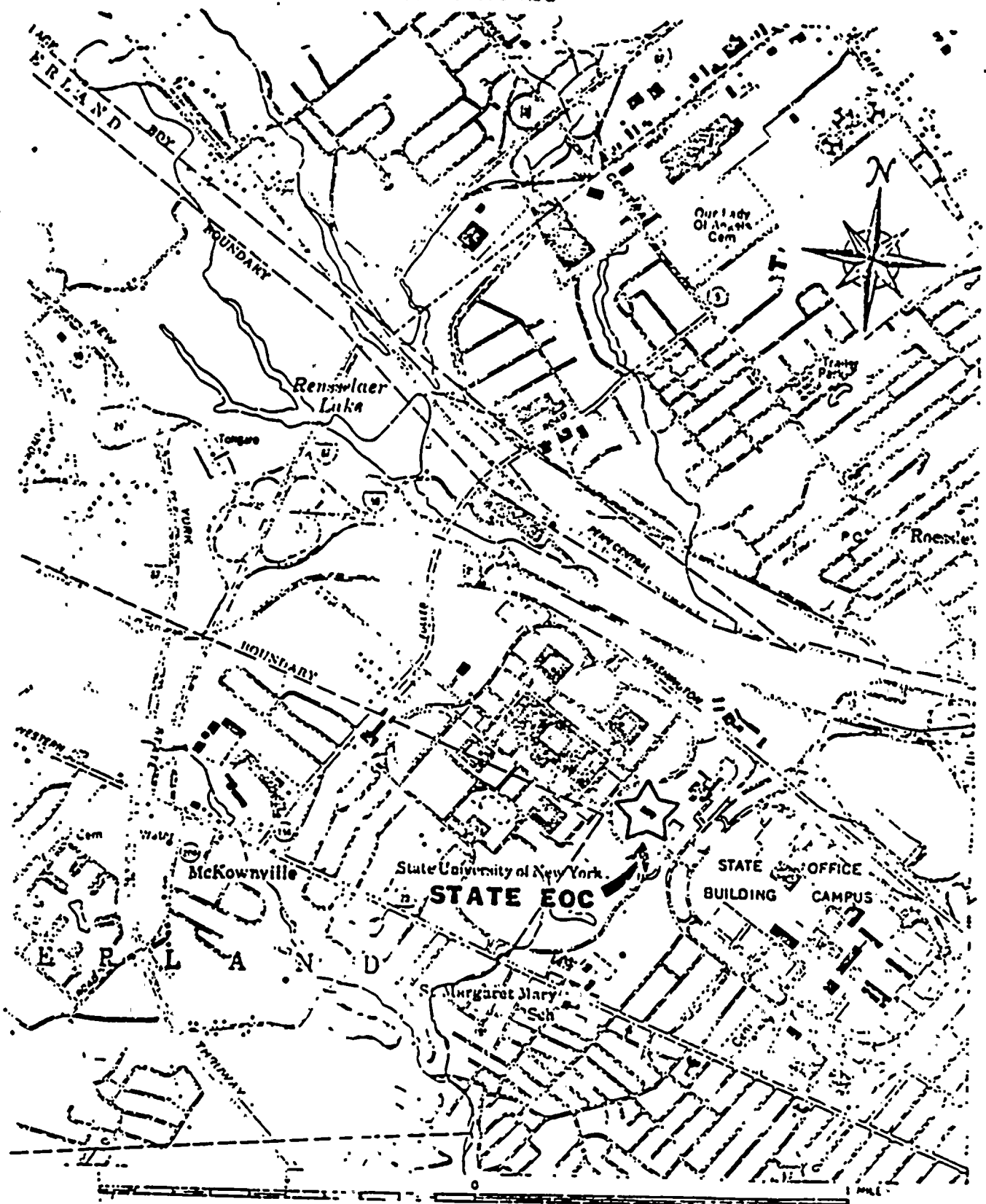
Figure 3.3

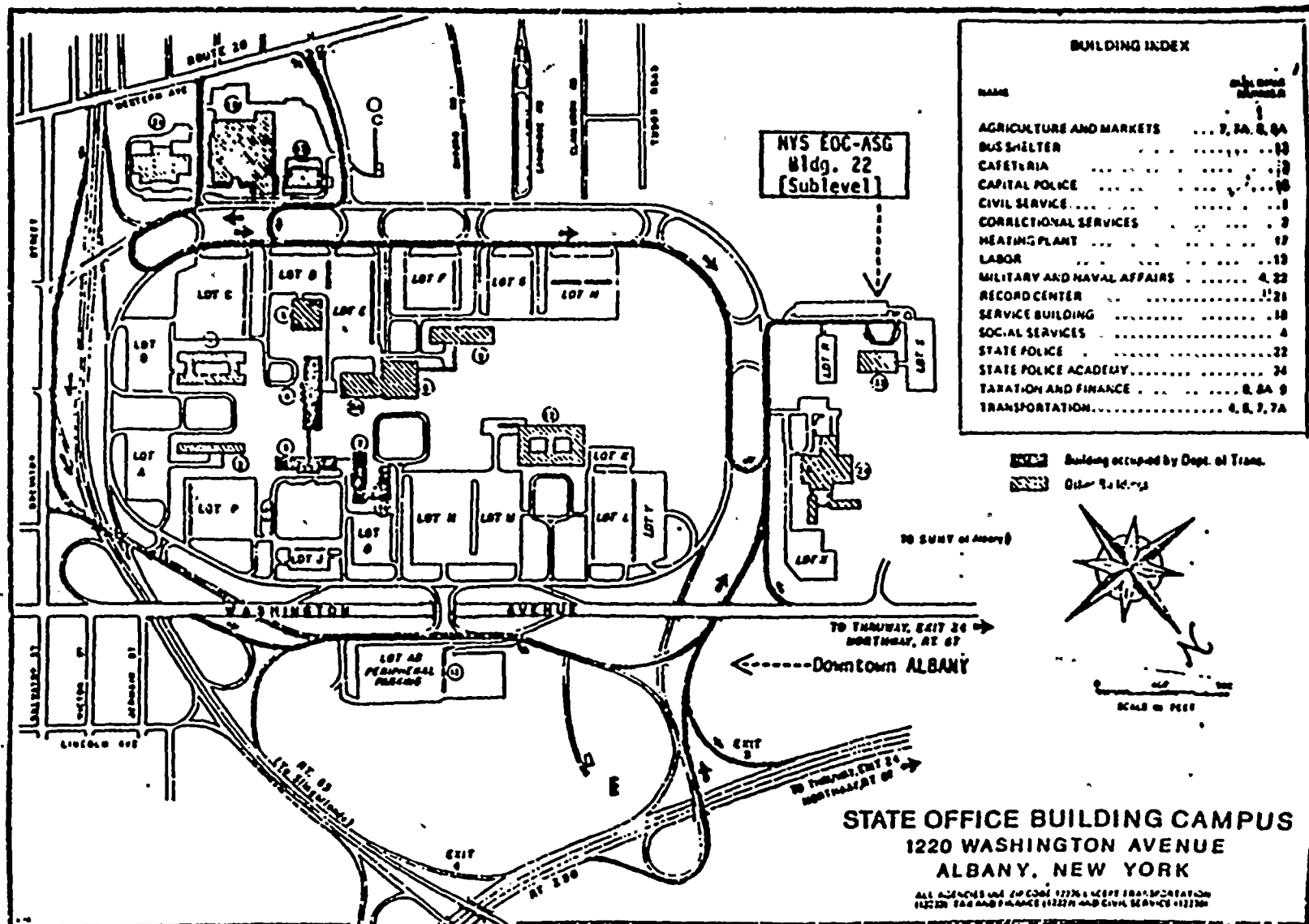
Figure 3.4

PART II - SEC. I - Proc. D

ATTACHMENT 1

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 GS Radiation Emergency Plan Implementing Procedures (EPIPS)
- 4.1.6 GS License and Technical Specifications
- 4.1.7 GS 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
- 4.1.11 INPO Emergency Preparedness Drill and Exercise Manual

Abbreviations - Acronyms

A/E	Architect Engineer
ALARA	As Low As Reasonably Achievable
AOV	Air-Operated Valve
ARMS	Area Radiation Monitor(s)
ARV	Atmospheric Relief Valve
ATWS	Anticipated Transient Without Scram
BAST	Boric Acid Storage Tank
CD	Civil Defense
CFR	Code of Federal Regulations
CV	Containment
CR	Control Room
DOE	Department of Energy
DOE-IRAP	DOE Interagency Radiological Assistance Plan
EAL(s)	Emergency Action Level(s)
EBS	Emergency Broadcast System
EC	Emergency Coordinator
ECL(s)	Emergency Classification Level(s)
ENS	Emergency Notification System (NRC)
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)
ERPA	Emergency Response Planning Area
ESC	Engineering Support Center
FEMA	Federal Emergency Management Agency
FRERP	Federal Radiological Emergency Response Plan
GS	Ginna Station
HALM	High Alarm
HP	Health Physicist
HPN	Health Physics Network
HVAC	Heating Ventilation Air Conditioning
INHB	Inhibited (Alarm Suppressed)
INPO	Institute of Nuclear Power Operations
JENC	Joint Emergency News Center
KI	Potassium Iodide
LALM	Low Alarm
LCO	Limited Condition of Operation
LOCA	Loss of Coolant Accident
LWR	Light Water Reactor
MOV	Motor-Operated Valve
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
PIO	Public Information Officer
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 (or Survey Center)
SI	Safety Injection
SPING	High Range Effluent Monitor
TSC	Technical Support Center

SECTION 5.0

CONTROLLER AND EVALUATOR INFORMATION

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 Lead Simulator Control Room Exercise Controller as part of the communications testing.

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 onsite Controller will have copies of time-related plant data sheets. Data sheets will be distributed only in the Control Room. Radiological and meteorological data will also be provided at locations where it is normally available.

- 5.1.7 Controllers will not provide information to the Players regarding scenario development or resolution of problem areas encountered in the course of the simulated emergency.
The Exercise participants are expected to obtain information through their own organizations and exercise their own judgement in determining response actions and resolving problems.
- 5.1.8 Some Players may insist that certain parts of the scenario are unrealistic. The Lead Controllers have the sole authority to clarify any questions regarding scenario content.
- 5.1.9 Each Controller will take detailed notes regarding the progress of the Exercise and the responses of the Exercise participants at their respective assigned locations. Each Controller will carefully note the arrival and departure time for participants, the times at which major activities or milestones occur and problem areas encountered. The Controllers will retain their notes for the purposes of reconstructing the Exercise chronology and preparing a written evaluation of the Exercise.

5.2 Evaluation Instructions

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

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

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

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

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

NA - Not applicable to the situation or not observed.

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

5.2.1

Facility

- o Accurate and timely determination of emergency action and classification levels.
- o Timely activation and staffing for each classification level.
- o Familiarity of personnel with appropriate emergency instructions, duties and responsibilities.
- o Timely notification of Rochester Gas and Electric Corporation, local, State and Federal personnel/agencies (information updates performed).
- o Adequacy of internal information systems (i.e., message handling, displays, status boards and maps).
- o Properly controlled documentation and accurate, timely record-keeping.
- o Utilization of correct communications procedures and techniques.
- o Capability of facility supervisors/directors to interface with personnel and coordinate facility activities.
- o Consideration of personnel safety (exposure control).
- o Adequacy of interface between emergency response facilities.
- o Adequacy of equipment and supplies.
- o Timely initiation of onsite protective/corrective actions.
- o Development of protective action recommendations.
- o Radiological surveys and assessment of plant damage and hazardous conditions performed.
- o Timely request of emergency support services.
- o Coordinated, accurate and orderly dissemination of information to the news media.
- o Proper assumption of command and control.

5.2.2

Team

- o Timely notification and activation.
- o Adequacy of staffing.
- o Familiarity with appropriate emergency procedures, duties and responsibilities.
- o Availability and utilization of proper equipment.
- o Performance of contamination/decontamination control.
- o Proper interface with emergency support personnel.
- o Utilization of correct communications instructions and techniques.
- o Availability of referenced documents to team members.
- o Utilization of proper radiological control practices (i.e., access control, protective clothing, shielding, stay time).
- o Performance of radiological surveys.
- o Timely and proper performance of damage assessment.
- o Properly maintained survey records and maps.
- o Adequacy of briefing sessions prior to dispatch.
- o Direction and control by team leaders.
- o Timely requests for offsite assistance if required.
- o Coordination and interface between emergency response team members.
- o Proper interfaces with plant supervisory personnel.
Controllers/Observers will record their comments for the purpose of reconstructing the Exercise chronology and preparing a written evaluation of the Exercise.

5.3

Personnel Assignments

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

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 1993 Exercise activities (SEE ATTACHED LIST).

EXERCISE CONTROLLER LIST

<u>Position</u>	<u>Personnel Assigned</u>
Exercise Coordinator	R. Beldue
Control Room Simulator	D. Hudnut (Lead) J. O'Toole M. Ruby J. Zulawski
Control Room (Real)	Day Shift Supervisor in Operations Office
Technical Support Center	
Lead	T. Alexander
Technical & Operations	B. Zollner T. White
Security	R. Wood R. Benne
Dose Assessment	T. Hedges
Health Physics & Chemistry	B. Thomson
General	P. Polfleit
Operations Support Center	
Lead	J. Huff J. Knorr
Fire	D. Biedenbach M. Cavanaugh
Operations	S. Carter R. Jenkins
I&C	T. Joachimczyk E. McGrattan
Mechanical	S. Meister G. Gibaud J. Liese
Electrical	R. Yates R. Marriott
Post Accident Sampling System	J. Raike

EXERCISE CONTROLLER LIST**Position****Personnel Assigned****Survey Center**

Lead	S. Poulton
Other (Evacuation/Re-Entry)	A. Jones
Red Team	D. Ganskop
Blue Team	J. Edler
Green Team	J. Mazzeo
Yellow Team	J. Zapetis
Orange Team	S. Stinson

Emergency Operations Facility

Lead & Operations	W. Backus
Communications & Data Flow	B. Stanfield
Dose Assessment	Outside Utility Personnel
Survey Teams	G. Haverly
General	R. Watts J. Neis

Engineering Support Center

C. Herschell

Joint Emergency News CenterF. Orienter
TBD (Outside Utility Personnel)**National Weather Service**

G. English

GINNA STATION
1993 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, develop 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 sample Public Information questions generally for RG&E;

Attachment 2 lists sample County Rumor Control Questions;

Attachment 3 lists sample questions for simulated press corps individuals.

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

GINNA STATION
1993 EMERGENCY EXERCISE

ATTACHMENT 1

SAMPLE PUBLIC INFORMATION QUESTIONS

TIME

- 0900 • My husband works in the Wayne County Sheriff's Office. He said he's heard that there's some sort of problem at the nuclear plant.
- Is that true?
 - Will this be on the news?
 - How dangerous a situation is it?
- This is _____ from TV Station WGRC. We've heard that there is an accident of some kind at the Ginna Nuclear Plant. Can you tell us what is happening?
- 0915 • This is _____ from the Wolf Newspapers. I understand that you have an accident at the Ginna Nuclear Plant. What's going on up there?
- How bad is the problem?
 - How did the trouble start in the plant?
 - Is it under control?
 - What's the state of the plant?
 - What kind of danger is involved?
- 0930 • This is WBBT AM Radio News. We've heard that your plant has had a fire and explosion. Can you confirm?
- Have any workers been injured?
 - If so what is the extent of their injuries?
 - Is the safety of the public threatened?
 - At what time will you have a press conference?

- Where will it be held?
- We'd like to send someone to the plant, for interviews and photos..Where do they go?

0945 • This is _____ from TV 11 News. We have a report you have some serious problems at Ginna Station. Would you tell our listeners the story?

- Is the plant experiencing an uncontrolled release of radiation?
- How do you know?
- Who is in charge of the emergency?
- What is his/her title?
- Can we get a statement from him/her?

1000 • This is _____ calling from the Associated Press. Can you give me a summary on the problem at your Ginna Nuclear Plant?

- Are you under a state of emergency ?
- Was the reactor damaged?
- Did you evacuate the site?
- Why not?
- Are you going to evacuate the public living by the plant?
- Is this worse than the 1982 Ginna accident?
- Where exactly is the plant located?

1000 Yes, this is _____, I'm the Webster Town Supervisor. My office is getting flooded with calls from local residents.

- What is happening at Ginna?
- Is the plant still under your control?
- Have the local authorities been notified?
- Which ones?
- Are we in Local State of Emergency?
- Is there any danger to the public?

1015 This is Channel 9 News. We have some questions on the Ginna problem.

- What exactly is going on at Ginna?
- Has the situation been resolved or are things getting worse?
- Are you evacuating the site?
- Are you going to tell the public to evacuate the area around the plant?
- Has Governor Cuomo been notified?
- Have the sirens been activated?

1015 • This is _____.

- I've heard you declared an "ALERT" earlier today.
- What does that signify---how bad a problem do you have?
- What time did it happen?
- How did the problem start?
- Has anyone been killed?
- Are there any injuries?
- The situation appears to be getting worse...is this true?

1030 • This is _____. I'm at the news desk at the Times Union. I'm trying to help write tonight's story on the Ginna disaster.

- I'm confused about what's going on at Ginna...is the problem a fire or a radiation leak to the atmosphere?
- Has the problem ended?
- What is the significance of an "ALERT"?
- How serious a problem is that?
- Which government officials been called?
- What is RG&E doing now?
- What time did you declare the emergency?
- Didn't Ginna have a similar problem several years ago?
- Ginna seems to be having more "technical malfunctions" than other US nuclear plants, how do you explain that?

1045 • This is _____. I'm calling from WRTQ Radio in Oswego.

- How do I get "official" information....who's in charge?
- Who do I talk to for getting more information about radiation being released from the plant?
- Are farmers supposed to be sheltering livestock?

1045 • I've got a small dairy farm in Williamson and I need to know what I should do.

- Where would I get more stored feed for my cattle if my pasture gets contaminated?
- I think I heard the sirens...do I need to evacuate?

- 1100
- I heard that you declared a "General Emergency".
 - When did this happen?
 - How much of the plant has been damaged?
 - Is there is a release of radiation?
 - Has anyone been injured in or around the plant?
 - Is the plant safe or in big trouble?
- 1115
- What does a "General Emergency" mean? Doesn't that mean that no one can go near the plant for the next several weeks?
 - Is this accident similar to or worse than the one you had before?
 - Why didn't we have more warning about this problem before now?
 - When will this problem be over, or don't you know?
 - Will you evacuate people around the plant?
 - In simple terms, what are you doing to control this emergency situation?
 - Will lots of radiation be released, or has it already started?
 - Is this as bad as the disaster at Chernobyl?
- 1130
- My father is in the Hill-Haven Nursing Home in Webster.
 - What will happen to him?
 - How long will this emergency last?
 - How do we keep informed?
 - Is this as bad as Chernobyl?
 - I just heard on my scanner that someone found evidence of terrorist sabotage on a plant safety system, is the plant going to blow up?

1200 • Do you expect that any radiation will be 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 the Webster area (or Ontario)?
- If we're evacuated, will my house ever be safe to return to?
- Where are people supposed to go if they evacuate?

1215 • What is the problem at Ginna?

- I'm confused---How did the problem start?
- Is this plant similar to Chernobyl or TMI?
- Can it blow up?
- How much radiation is being released off site?
- What protective actions are in effect for Wayne (Monroe) County?
- If people around the plant have to evacuate their homes, when will they be allowed return?

1215 • Are farm animals on pasture grazing safe?

- What about the apple orchards around the plant, how will they be impacted?
- Are you releasing radiation?
 - If so what are the levels?
- Are farmers supposed to take any action to protect their livestock?
- Who is the best source of truthful information on this emergency?

1230 • This is _____ from WRKU Radio in Albany.

- How serious is the Ginna situation now?
- Is the problem under control yet?
- How many people live around the plant?
- What are you going to do to fix the situation?
- When is the next press briefing?
- Can we interview anyone at the plant?
- Where is your News Center located?
- How do I get there?
- Where is the wind going?
- Who's in charge of the emergency?
- We heard that there was sabotage resulting in both a fire and serious release of radiation, what can you tell us about how this came about?

1245 • I live in Webster on Lake Road. I'm worried about leaving my cats behind if I evacuate my home.

- Can I take them along with me to a county evacuation shelter?
- What else should I take along if I go?
- How many days of pet food should I bring?

1300 • This is TV 25 in Kingston, Ontario. Is it true that your G-e-e-na reactor is suffering a mishap and can you give us an update a-boot the severity of the problem?

- Briefly, what happened this morning to begin this problem?
- Do you Americans consider this to be worse than Three Mile Island?
- Do the authorities believe there's chance that the winds may carry radioactive material across Lake Ontario to Canada?
- Can you tell our viewers how your reactor is different from ours?
- For example, will there be heavy water contamination in the Lake?
- We also heard that there was a toxic leak at the plant, what is your comment?

1315 • I hear there's an emergency at the nuclear power plant.

- What happened and how bad is it?
- How do we get additional information? I live in Ontario, NY.

1330 • I'm _____ of Radio Station WTTY. You're on our "NEWS LINE" and could you tell our listeners what's happening at the Ginna Nuclear plant?

- Is the Monroe County Executive going to declare a state of emergency?
- What does the County Executive intend to recommend to the public?
- Are there any recommendations for people living within a few miles of Ginna?
- Should Monroe or Wayne County residents take any kind of proactive measures because of the problem we're hearing about on the news?

1345 • Is there a security problem at Ginna?

- Was there sabotage?
- Is the plant under control?

ATTACHMENT 2

SAMPLE RUMOR CONTROL MESSAGES FOR WAYNE COUNTY

TIME

0910 • Could you tell me about the problem at Ginna? I'm a Sodus resident.

- Is there a chemical or a radiation problem at Ginna?
- Is the problem at Ginna or Nine Mile Unit II?
- Is the plant shut down ?

0945 • I hear there's an emergency at the nuclear power plant.

- What happened and how bad is it?
- I'm _____ of Radio Station WOOR. We'd like to tape a short interview ...can you provide the answers?
- Could you tell our listeners what's going on at the Ginna Nuclear plant?
- Is the County Executive going to declare a state of emergency?
- What does the County Executive intend to recommend to the public?
- Are there any recommendations for people living within a few miles of Ginna?
- Should County residents take any kind of proactive measures because of the problem we're hearing about on the newswires?

1000 • Has any dangerous radiation leaked yet?

- How can you be sure? Are you checking it?
- How can I find out when there is a release?
- Who is in charge of the emergency?
- Is the plant shut down at this time?

- 1015 • My son works at Hardee's in Ontario... he's there now.
- How will he know about the Ginna problem?
 - Is he safe where he is?
 - Does RG&E have an emergency plan?
 - If so, how does the County figure in it?
 - We've lost our emergency information handbook and need one right away. Will one of the emergency people you have deliver one to us?
- 1030 • Is there a security problem at Ginna?
- Was there sabotage?
 - Is the plant under control?
 - What damage was done?
- 1045 • I heard there was an explosion and fire at Ginna. What is really happening?
- Are you in a general state of emergency?
- 1110 • I live on Lake Road in Williamson. I'm just east of the Town Line with the Town of Ontario. I need some information.
- If there's an evacuation, I'm going to need help with my two infant twins. Can you help me? We only have one car.
- 1125 • How many nuclear plants are in the area?
- Which one is having the problem now?
 - Where's our power going to come from if the plant is shut down for a while?
 - Have you guys called for extra help with your problem?
 - Who's running the emergency?

- 1145
- What station on the radio should we be listening to?
 - 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? We all remember the Ice Storm and how they lied then to save their butts!
- 1200
- I live in Newark, but I could live 50 miles away and wouldn't feel safe...are you going to let us know if we need to get out?
 - How?
 - I heard you're bring all the irradiated people from around the plant to Newark High School...is that true? We'll all be radioactive!
- 1215
- I live near the plant and heard there is an "GENERAL ALERT", and then I heard it called something else... What's going on?
 - Are you checking the radiation levels outside?
 - Did the World Trade Center terrorists do this?
- 1225
- What's this I hear about a fire at Ginna?
 - Was that because of a big explosion or something?
 - How many people got hurt and who's running the plant now?
 - Somebody told me the Ginna workers "bail out" from the plant when there's a problem. Is that true?
- 1230
- Is Cuomo or Clinton sending help?
 - What's happening right now at the Ginna plant?
 - Is the plant burning out of control?
- 1245
- My neighbors are saying that something blew up at the Ginna plant. Is this true?

- 1245
- Has a State of Emergency been declared?
 - What should the public do to protect itself?
 - My wife and I are concerned because we haven't heard the sirens go off...we live over in Macedon.
 - Shouldn't we hear sirens now or sometime real soon?
 - We don't think you county disaster people are being told everything by RG&E. I can't even get a straight answer on my monthly electric bill. What's really going on?
 - I don't trust the power plant people; they'd lie to save their own skins.
 - Do you have anybody checking on them to make sure they're trying to control it?
 - Will the County Board of Supervisors look into this accident and stop Ginna from starting up again?
- 1300
- Yeah...I got one question....Who's going to pay for all the clean-up from this accident? If you think the ratepayers are going to take it you know where again.....you're dead wrong! What's going to happen?
- 1315
- Should I close my restaurant due to the accident at Ginna Station? I'm over in Ontario Village.
 - What are we supposed to do?
 - Who do I call to find out if we're going to have to leave?
 - Who will guard my place if we evacuate?
- 1320
- I'm calling from California, I have family in Rochester....what's going on at your plant?
- 1330
- What's happening at Ginna?

- 1340 • I heard that at Ginna a disgruntled employee sabotaged the plant and that's what caused this accident! Have they caught the person yet?
- Has there been a radiation release?
- What's happening to all the school kids in the Williamson 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?

- 1350 • What do I do? I live on Paddy Road near route 350 in Ontario.

- 1400 • I hear that the Maplewood Nursing Home will keep its patients where they are. My wife works there, but I can't reach her because the phones are busy. Will they be safe there?
- 1415 • I'm leaving now. Where do I go for temporary housing? I live on State Road near Route 250.

- 1420 • I'm calling from Penfield.....has there been a release of radiation from Ginna?
- I'm calling from Pennsylvania....I live 5 miles from Ginna.....can we return home tomorrow?
- 1430 • What's happening at Ginna?

- 1435 • I'm evacuating now. Which way is safe to travel? We live next to the intersection of Kenyon and Stony Lonesome Roads in Ontario. We need temporary housing. I've got 4 kids with me.
- 1445 • 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 County Line Road in Wayne County.
- How do I get there?
- Who's going to pay my expenses?
- Who do I call to get a check for my expenses?

SAMPLE RUMOR CONTROL MESSAGES
FOR MONROE COUNTY

TIME

- 0940 • I hear there's an emergency at the nuclear power plant.
- How serious is the problem?
 - Are schools going to be dismissed early?
 - Can I pick up my two children at the RL Thomas School in Webster?
- I'm _____ of Radio Station WTZ. Can you tell our listeners what's happening at the Ginna Nuclear plant? You're live on our "MORNING SHOW".
- Have officials in Monroe County declared a state of emergency?
 - What is Monroe County doing to assist in this emergency?
 - Will you have a press conference?
 - Has there been a problem at the Ginna Plant?
- 0950 • I live down on Plank Road near Jackson Road....Have any chemicals or radiation been released, can they get into the drinking water?
- Is the problem under control?
 - Should we leave our home because of the mishap at the plant? We're very concerned about this.
 - What's the problem at your plant?
 - When will the emergency be over?
 - What caused the problem at Ginna?
- 1000 • My daughter and a friend are out shopping in Irondequoit.
- How are they going to be warned about the plant problem?
 - We live in West Webster on Backus Road...are we safe?
 - Are you going to block off the roads...my daughter needs to be able to drive back home!

- 1010 • What's happening at the nuclear plant?
 - Is the problem I've been hearing about at Russell Station or Ginna?
 - Who caused the accident?
 - My mother works in the library in Webster.
 - How do they know there's problem?
 - Are they safe?
 - I can't get through to the library..the line is busy.
 - What do you recommend I do?
- 1015 • We live in Penfield Village...are we far enough away?
 - Is the plant under control now?
 - Will we lose our power because of the accident?
 - Is there a brochure we're supposed to have to tell us what to do?
 - Who is in charge of your emergency?
 - Is it under control?
- 1020 • I'm calling from Consolidated Edison....could you give me some information about the event this morning at Ginna?
- 1025 • We've lost our emergency information handbook and need one right away. Which Zone do we live in?
 - We live on Shoecraft Road near State 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?
- 1030 • What happened at Ginna this morning?
 - What do I do if the sirens blow? ~
 - Are all RG&E's plants under attack?
 - What happened this morning?
 - Where can I buy a radiation instrument to check the outside?

- 1100 • I have some milk goats out in our field...out on County Line Road by State Road. What do I do with the goats? Bring 'em inside?
- We live in a one-story wood-frame 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!
 - Is the Ginna plant running now?
 - Will you be blowing the sirens?
 - If so, what do we do?
 - I need to know what's going on and what to do.
 - My neighbors are frightenedwe live on Holt Road near Woodhull .
 - Can we go outside? Are we in danger?
 - Are you people checking the radiation?
 - What are we supposed to do when sirens go off?

- 1115 • My neighbor's a cop....we says you've got a security problem. How bad is it?
- How many security people are at Ginna?
 - Have you called for help?
 - Did the sabotage cause the chemical release?
 - Did terrorists blow up Ginna?
 - Were employees or outsiders involved in the destruction of safety equipment?
 - Are the plants in Oswego having problems too, or is it just Ginna?

- 1130 • We hear that emergency shelters are open now....what do we bring if we need to stay for awhile and how much will it cost?
- How do we get checked for radiation? My whole family is feeling nauseated and weak.

- Is Wayne County going to be declared a disaster area?
 - Is this accident as bad as Chernobyl or TMI?
 - Where do the school kids go? My daughter goes to State Road Elementary School.
 - Should I close my business due to the accident? Who will pay for the lost income? (The business is on Empire Blvd. near Bay Road).
- 1200 • Are schools closing in Fairport...my kids are at the High School?
- What are we supposed to do? - we live on Route 31.
 - What should I do for my chickens to protect them from radiation?
 - I heard Ginna is melting down. Is it true that State people are coming to take over?
 - We heard the Governor is coming to take charge of Ginna.
 - How wide an area will be evacuated - 20, 30 miles?
 - How far is Ginna from Fairport?
 - Should Fairport residents leave their homes?
 - Is there a plan for nuclear emergencies?
 - Is it finished?
 - Who wrote the plan and who approved it?
 - Is RG&E responsible for the accident that happened?

1230 • I heard the siren but now what do we do? We live just down the road from Ginna...and I don't see anyone leaving the plant....are they all dead?

- Would you send out the sheriff's department to check?
- What's happening at the Ginna plant?
- I'm leaving now. Can I pick my son? He's got a job at Taco Bell in Webster.
- I live in East Rochester...we just had a problem a few weeks ago with the drinking water, heavy metals in the water or something.
- Are we going to have to boil our drinking water again because of the plant's radiation?
- Can my pets be outside, can they drink water that's outside?

1300 • I think I am supposed to leave but don't have a place to stay. I live in Monroe E-R-P-A Number 4.

- Which county shelter can I stay at?
- How do I get there?
- Who's going to pay my expenses?
- I heard the accident at the Ginna Station is just a false rumor. What's going on?
- I live exactly 5 miles southwest of the plant....there's never been a problem before and I'm not going to leave now. I'm sure the media's just blowing this out of proportion.
- Why haven't you made the announcement on radio?
- Who's going to guard all the neighbor's houses after they run away to the shelters?
- Is the Ginna emergency over yet?
- Is the Ginna reactor shut down?
- Is the plant burning?

1330 • What is the Ginna problem that occurred this morning?

- I've heard people are being asked to leave. Is that true?
- Were we supposed to hear the sirens?
- What radio station or T.V. channel should we have on?
- Who is running the reactor at Ginna? I hear the safety equipment was tampered with this morning by someone in the plant.
- Where is the emergency information in the phone book. I can't find it.
- What should we take if we leave our home?
- How do we get transportation if we don't have a car and need to evacuate? We live on Holt Road near Lake Road.
- Is the accident over with at Ginna?
- Who's going to pay for the mess you created?

1345 • Is there contamination on the ground now from Ginna?

- My homeowners insurance states I'm not covered for nuclear accidents! What do I do now?
- Who will check my home and property to make sure there's no radiation? We live on Jackson Road.
- I'm calling from Buffalo...I got my family out of our house in Webster this morning. When will it be safe to go home again?
- Can we be checked for nuclear radiation somewhere, on our way home?
- Who can we get to check our farm pond to see if there's any contamination?
- I've got a well on my property (about 6 miles west of Ginna on Lake Road). Can we still drink from our well?
- Who can I contact if I have more questions, and I'm sure I will!
- I'm calling from England.....what kind of plant is Ginna?
- Has there been a release to the atmosphere?
- Was there iodine in the release?

- 1400 • How long will people who evacuate from Monroe ERPA 1 have to stay away from home?
- Can homeowners go back and check their homes in the meantime?
 - What if there's a fire in one of our houses? Are you just going to let it burn?
 - Are residents supposed to take potassium iodide?
 - If we can't get the potassium, can we take salt tablets?
 - What is happening at Ginna now?
 - We caught some trout just east of the plant this morning, around 8 or 9 am.
 - What should we do with the fish?
 - Is my boat contaminated now and am I?

ATTACHMENT 3

SAMPLE PRESS CORPS QUESTIONS

- What happened to the turbine at Ginna?
- Was there a fire...is it out....what's the damage?
- Is it true a leak occurred?
- What kind of leak was it - chemical or radiation?
- Isn't it true the plant is always releasing to the atmosphere?
- Is the reactor stable and under control?
- Is this plant similar to Indian Point?
- Were any workers injured or 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 manage the situation over the next several hours?
- How long will the emergency be in effect?
- When is the next press briefing?
- How many media representatives are at the News Center?
- What agencies are at the News Center?
- Where is the wind heading now?
- What is the weather forecast? What effect will that have on your recommendations?
- Who's in charge of the emergency?
- Please explain the relationship of the State, the two Counties and RG&E in terms of how decisions are made during this emergency.

- Who makes the decision to activate the sirens, who decides to evacuate or shelter, and how is that decision reached?
- How can we be sure that the best interests of the public are paramount in the decision-makers mind?
- How does the County Executive and County Chairman get the technical information they need to make informed decisions?
- 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?
- When can people who have sheltered, stop sheltering?
- What effect will the release of radioactivity have on Lake Ontario fish?
- What impact will the radiation released have on unborn babies?
- How many cancer deaths are there likely to be in Wayne and Monroe counties as a result of this accident?
- When do you expect to enter "Recovery"? What does that mean exactly?
- Will there be any further radioactive releases?
- Will the sirens be sounded any further?
- How do tourists know how to protect themselves?
- How is the plant getting power now to run its safety systems?
- Will the shareholders or ratepayers absorb the cost of this mishap?
- Will Ginna need to be decommissioned?
- Is this the same type of problem that Ginna experienced in 1982?
- Who will pay for all the damage to personal property from this accident?
- After cleaning up the radioactive waste from this accident, where does it all get sent? Has RG&E significantly added to the State's low-level waste crisis?

- Why doesn't RG&E distribute potassium iodide to the public?...do RG&E people get it?
- How close have you come to a meltdown?
- How do you know the extent of damage to the Ginna reactor?

ATTACHMENT 4

SAMPLE "SPOUSE PHONE" QUESTIONS

- 0930 • This is Rick Watts's wife calling....do you have any information concerning a problem at Ginna? I just heard something on the radio about a fire.
- 1005 • Do you have any news on Ginna? My husband works in the warehouse....I don't want to bother him, but am just checking to see that everything's okay.
- 1015 • My husband works at Ginna, and is there now. He works in the Training Center (Jim Huff).
- Has there been a fire?
 - Is it out yet?
 - Can I drive to the plant and drop off some sandwiches for Jim if he's got to stay overnight?
- 1045 • My sister called me this morning and said there was a problem at the plant, and said she'd keep me posted. I haven't heard anything from her for 4 hours.
- She said she might be sent to work in the EOF. Is everyone there now?
 - Will the workers have to stay at the plant?
 - I need to get through to the EOF to ask her what arrangements I should make concerning her kids at day care...since I'm at work. Her name is Barb Butler.
- 1100 • My son-in-law works at Ginna as a Trainer (Jim Knorr).
- Where are the plant workers now... have they left the plant?
 - Is the plant under control now?

- How long will the emergency last?
- 1115 • My father, Wesley Backus works in Operations at Ginna.
- What's happening at the plant?
 - How bad is it?
 - Are the workers in danger? My father works around the back-up safety equipment.
 - Are Ginna employees allowed to call home?
 - If he can, have Wesley Backus call home so I can stop worrying.
- 1130 • 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 an explosion at the plant, and that there's a fire too. Is that true?
 - Has everyone evacuated the plant?
 - Were any of the employees hurt?
 - How can I reach my husband? He's on blood pressure medication. I need to know he's all right.
- 1145 • This is Gail Beldue. My husband, Dick is either at Ginna Station or East Avenue today. I need to get a message to him. We live 3 miles from the plant and may need to evacuate.
- Do you know for sure if residents will have to evacuate?
 - If we evacuate, tell Dick that I will go to my parents house.
 - Tell him I hope he's okay.
- 1200 • My wife is a secretary 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?
- Can I pick my wife up? If so, where do I meet her?

1230 • My dad works at the plant..could you tell us what's happening?

SECTION 6.0
SCHEDULE OF EVENTS

1993 GINNA PLUME EXPOSURE PATHWAY EXERCISE

SCHEDULE OF EVENTS

<u>DATE</u>	<u>TIME</u>	<u>PERSONNEL GROUPS</u>	<u>ACTIVITY</u>
11/15	9-1030 AM	ALL (EOF)	PLAYER BRIEFING
	11-12	ALL (JENC)	PLAYER BRIEFING
	3-4 PM	ALL PLANT PLAYERS (BROOKWOOD)	PLAYER BRIEFING
11/16	8-11 AM	AS ASSIGNED (BROOKWOOD)	CONTROLLER BRIEFING
	1-5 PM	NRC TEAM (BROOKWOOD)	BADGING BRIEFING
11/17	?	ALL	1993 EXERCISE
11/18	8-10 AM	CONTROLLERS (BROOKWOOD)	PRE-CRITIQUE MEETING
11/18	10-11	OPEN (BROOKWOOD)	RGE CORPORATE CRITIQUE
11/18	11-12	OPEN (BROOKWOOD)	NRC CRITIQUE
11/19	8-12 AM	FEMA/NYS/CO/RGE	PRE-CRITIQUE MEETING (OFFSITE EXERCISE ACTIVITIES)
11/19	2 PM	OPEN (89 EAST AVE BSMT)	FEMA CRITIQUE

SECTION 7.0

EXERCISE SCENARIO

NARRATIVE SUMMARY

The scenario begins with the R. E. Ginna Nuclear Power Plant operating at approximately 98% rated thermal power. The Plant has been operating at this power level continuously for approximately 180 days. Initial conditions of note are:

- Offsite power 34.5 KV circuit 751 is out for pole replacement and cable repair due to a tractor trailer truck hitting a pole. Subsequently normal power was restored to buses 14 and 18 from offsite power 34.5 KV circuit 767.
- The "B" Safety Injection Pump is held and disassembled because of high vibration on the pump's outboard bearing. The "B" Safety Injection Pump electrical breaker "b" contact has been jumpered.
- "B" Charging Pump is held for plunger replacement and the maintenance is approximately 50% completed.
- Thermographic checks have detected a hot spot on Bus 14 Station Service Transformer.

At 0730, a loud bang is heard outside the Control Room door to the turbine building, and annunciator I-27 (ROTOR ECCENTRICITY OR VIBRATION) alarms almost immediately. An Auxiliary Operator sent out to check the turbine-generator reports that a turbine blade has penetrated the #2 LP turbine casing at its southeast corner and the turbine blade is lying by the Control Room door. An Alert is declared.

At 0805, a fire is detected in the Charging Pump Room. The fire brigade is activated. The "C" charging pump trips. Operators control pressurizer level and seal injection flow with the remaining charging pump. The fire is extinguished. There should be no change of emergency classification.

At 0910, a LOCA inside Containment occurs (with initial assumed leakage = 10,000 gpm). All safeguards equipment operates normally except the "B" safety injection pump, which is out for corrective maintenance. A Site Area Emergency is declared.

At 1005, with the tripping of the 480-volt safeguards bus, all safety injection to the core is terminated. A General Emergency is declared. This will warrant licensee-recommended protective actions.

At 1050, a release above Technical Specifications begins.

At 1250, the release is terminated and offsite radiological levels begin to decrease rapidly.

Recovery and re-entry discussions begin at approximately 1315 hrs.

The Exercise is terminated at approximately 1400-1500 hrs.

NOTE: An actual shift change of key ERO positions will occur within approximately 2 hours of the time EOF assumes command and control. It is estimated the shift change will be completed by 1200 hrs.

**GINNA STATION
1993 EMERGENCY PREPAREDNESS EXERCISE**

INITIAL CONDITIONS

1. The R. E. Ginna Nuclear Power Plant is operating at approximately 98% rated thermal power. The Plant has been operating at this power level continuously for approximately 180 days.
2. Equilibrium primary Coolant Isotopic activity as of 0300 hours (11/17/93) is provided in Table 9.2 of scenario section 9.3. Total activity is 2.56 Microcuries/Gram. Chemistry Log Sheet available from controller.
3. The Reactor Coolant System (RCS) total leakage is 0.250 GPM as of 0400 hours this morning. Identified RCS leakage is 0.092 GPM.
4. 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).
5. Offsite power 34.5 KV circuit 751 is out for pole replacement and cable repair due to a tractor trailer truck hitting a pole on Slocum Road North at 0600 this morning. The "A" emergency diesel generator started and energized safeguards buses 14 and 18. Subsequently, normal power was restored to buses 14 and 18 from offsite power 34.5 KV circuit 767 and the "A" emergency diesel generator was stopped and aligned for auto standby.
6. The "B" Safety Injection Pump is held because of high vibration on the pumps outboard bearing. The high vibration was detected yesterday (11/16/93) during the performance of PT-2.1Q (Safety Injection System Quarterly Test). The pump's outboard bearing is disassembled, cleaned and new bearings have been checked out of QA Storage. The pump is now awaiting re-assembly and an A-52.4 has been submitted for the "B" Safety Injection Pump. The "B" Safety Injection Pump electrical breaker "b" contact has been jumpered per EM-777 (MOV-871 and 871B Control Circuit Jumpers).
7. "B" Charging Pump is held for plunger replacement. The pump was held yesterday morning (11/16/93) at 0700 and the maintenance is approximately 50% completed.
8. A preventive maintenance analyst, while doing thermography on Bus 14 during the early morning hours, reports to the shift supervisor that he has found a hot spot on Bus 14 Station Service Transformer. He also informs the shift supervisor that he will talk to maintenance later this morning about planning a Bus 14 outage to check out the transformer.

GINNA STATION
1993 EMERGENCY PREPAREDNESS EXERCISE

ON SITE SEQUENCE OF EVENTS

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
0700	-00/15	Initial Conditions established (#1C).
0715	00/00	Announcement to Commence Annual Emergency Exercise (#1).
0730	+00/15	A loud bang is heard outside the Control Room door to the turbine building and annunciator I-27 (ROTOR ECCENTRICITY OR VIBRATION). Alarms almost immediately (#4).

ANTICIPATED RESULTS

Control Room

Operators should perform the actions of AR-I-27 and transition to AP-TURB.3 (Turbine Vibration) and perform the action of tripping the turbine as vibration on #6 bearing is higher than the trip criteria of 14 mils.

Operators transition to E-0 (Reactor Trip or Safety Injection) and perform the applicable actions and then transition to ES-0.1 (Reactor Trip Response) and perform its applicable actions.

Operators should send an auxiliary operator out to check the main turbine - generator (#5).

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
0732	+00/17	Annunciator F-21 (COND HI PRESS 20" Hg OR LOSS OF BOTH CIRC WTR PMPS) alarms and condenser vacuum is 19" Hg and decreasing (#6).

ANTICIPATED RESULTS

Control Room

Operators performing the applicable actions of ES-0.1.

0740	+00/25	The Auxiliary Operator sent out to check the turbine - generator reports that a turbine blade has penetrated the #2 LP turbine casing at its southeast corner and the turbine blade is lying by the Control Room door (#7).
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ALERT

ANTICIPATED RESULTS

Control Room

Operators performing the applicable actions of ES-0.1 (Reactor Trip Response).

An ALERT should be declared in accordance with EPIP 1-0, Ginna Station Event Evaluation and Classification, EAL: Hazards Being Experienced or Projected; Turbine Blade Failure which Penetrates the Turbine Casing. Appropriate notifications should be made per EPIP 1-5.

If an ALERT is not declared in approximately 15 minutes, a contingency message should be given out to declare it (#9x).

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
0805	+00/50	<p>Fire zone Z-01 (AUX BLDG 235-8 BSMT E. CHP ROOM) Alarms (#11).</p> <p><u>ANTICIPATED RESULTS</u></p> <p><u>Control Room</u></p> <p>Operators should sound the fire alarm and activate the fire brigade per SC-3.1.1 (#12).</p> <p>Operators should inform the TSC of the Charging Pump Room fire alarm.</p> <p>Operators should be transitioning to 0-2.2.</p>
0807	+00/52	<p>The "C" charging pump trips out. Annunciator G-25 (MOTOR OFF CTR SECT PMPS EXCEPT MAIN AND AUX FEED PMPS) alarms (#13).</p> <p><u>ANTICIPATED RESULTS</u></p> <p><u>Control Room</u></p> <p>Operators should control pressurizer level and seal injection flow with the remaining charging pump.</p>
~0815	~ +01/00	<p>Fire Brigade captain, after arriving at the Charging Pump Room, reports that the fire appears to be on the "C" charging pump motor with much smoke present and they are fighting the fire (#14).</p> <p><u>ANTICIPATED RESULTS</u></p> <p><u>Control Room</u></p> <p><u>NOTE:</u> Offsite fire fighting assistance is not participating. if assistance is requested, controllers will intercede to prevent off-site fire department response.</p> <p>Operators should be performing the applicable actions of 0-2.2 .</p> <p>Operators should inform TSC of the fire on the "C" charging pump.</p>

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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TECHNICAL SUPPORT CENTER

TSC should be assuming command and control at approximately this time.

TSC, when operational, should check into the loss of 34.5KV circuit 751 problem.

TSC, when operational, should evaluate the fire in the Charging Pump Room.

EMERGENCY OPERATIONS FACILITY

EOF may be activating at this time due to plant conditions.

0825

+01/10

Fire Brigade captain reports to the Control Room that the fire in the Charging Pump Room is extinguished and that it was on the "C" charging pump motor. He also reports that the "A" charging pump is running normal with no apparent damage from the fire (#15).

ANTICIPATED RESULTS

Control Room

Operators should inform the TSC of the fire being extinguished on the "C" charging pump and the condition of the "A" charging pump.

TECHNICAL SUPPORT CENTER

TSC should re-evaluate the emergency classification per EPIP 1-0. There should be no change of emergency classification.

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
0910	+01/55	The following events occur simultaneously (#21):
<u>SITE AREA EMERGENCY</u>		<ul style="list-style-type: none"> ° Pressurizer level and pressure decreases uncontrollably. ° A Safety Injection Actuation occurs automatically from pressurizer Lo pressure. ° Containment pressure is increasing. ° Safety Injection Flow is greater than 100 GPM. ° All safeguards equipment operates normally except the "B" safety injection pump. It is out for corrective maintenance.

ANTICIPATED RESULTS

Control Room

Operators perform the appropriate actions of E-0 (Reactor Trip or Safety Injection).

Operators should inform TSC of the loss of coolant accident.

Operators should transition to E-1 (Loss of Reactor or Secondary Coolant) and then to CR-FR-P.1 (Response to Imminent Pressurized Thermal Shock Condition) and then back to E-1 and start performing applicable actions.

TECHNICAL SUPPORT CENTER

TSC should declare a SITE AREA EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification, "EAL: Reactor Coolant Leakage (RCS); LOCA identified inside Containment and SI total flow > 100 GPM using FI-924/FI-925. Appropriate notifications should be made per EPIP 1-5.

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
		TSC should be expediting the maintenance on the "B" safety injection pump.
		If a Site Area Emergency is not declared in approximately 15 minutes, a contingency message should be given out to declare it (#26x).
		EOF should be activating at this time, if not done earlier.
0915	+02/00	The "B" RHR pump trips out. Annunciator J-9 is received in Control Room (#23).

ANTICIPATED RESULTS

Control Room

Operators should try to restart the "B" RHR pump 5 times per AR-J-9. It will not restart.

Operators should notify an auxiliary operator to check the "B" RHR pump and motor. An auxiliary operator may already be in the Auxiliary Building per step 18C of E-1.

Operators should notify the TSC of the tripping and failure to restart of the "B" RHR pump.

Operators performing the applicable actions of E-1.

Technical Support Center

TSC should send a team into Auxiliary Building to check out the "B" RHR pump trip problem if the auxiliary operator not already in there.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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TSC should be evaluating the loss of safeguards equipment and be expediting repairs as quickly as possible.

TSC should be informing the EOF of plant status, actions being taken and any required needs.

EMERGENCY OPERATIONS FACILITY

EOF should be evaluating plant conditions and taking actions as required.

0920

+02/05

The "A" emergency diesel generator trips out. Annunciator (J-24) is received in the Control Room (#24).

ANTICIPATED RESULTS

Control Room

Operators should send an auxiliary operator out to the "A" Emergency Diesel Generator Room to check the local alarm panel and the emergency diesel generator.

Operators should inform the TSC of the "A" emergency diesel generator tripping out.

0935

+02/20

The auxiliary operator sent out to the "A" Emergency Diesel Generator Room to check the local alarm panel and the emergency diesel generator, reports to the Control Room/TSC that the local alarm panel indicates a "lube oil low pressure" alarm and there is a large amount of oil on the floor by the large lube oil filter on the east side of engine, and the engine oil level is extremely low (#25).

ANTICIPATED RESULTS

Control Room

Operators should inform TSC of the "A" emergency diesel generator problem.

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
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TECHNICAL SUPPORT CENTER

TSC should send a repair team out to evaluate and repair the "A" emergency diesel generator problem.

0950

+02/35

Radiation levels start to increase slowly in the Auxiliary Building (#30).

ANTICIPATED RESULTS

Control Room

Operators performing the applicable actions of the E-1 (Loss of Reactor or Secondary Coolant).

Operators should inform the TSC of increasing radiation levels in the Auxiliary Building.

TECHNICAL SUPPORT CENTER

TSC should be evaluating plant conditions and taking actions where required.

TSC should be informing the EOF of plant status, actions being taken and any required needs.

TSC should be evaluating the increase of radiation in the Auxiliary Building as to its source and its effect on the personnel in the Auxiliary Building.

EMERGENCY OPERATIONS FACILITY

EOF should be evaluating plant conditions and taking action as required.

EOF Dose Assessment should be evaluating the increasing radiation levels in the Auxiliary Building.

REPAIR TEAMS

Performing actions as required to return equipment to service as soon as possible.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
1000	+ 02/45	<p>The auxiliary operator and/or TSC team in the Auxiliary Building to check the Auxiliary Building Sub Basement per step 18C of E-1 and the "B" RHR pump trip problem reports to the TSC/Control Room that the "B" RHR pump motor has a burned insulation smell and it is hot to the touch. He/they also report(s) that while in the Auxiliary Building Sub Basement, he/they observed a small amount of water dripping from the large pipe between Containment and MOV-850A. He/they also report(s) that after closer inspection of the dripping water, he/they observed what looked like a three (3) inch long crack at the bottom of the pipe. He/they also inform the TSC/Control Room that they are evacuating the Auxiliary Building as radiation levels have started to increase. (#22,31).</p>

ANTICIPATED RESULTS

Control Room

If the Control Room is informed, the operators should inform the TSC of observed dripping water and crack on the pipe between Containment and MOV-850A.

Operators performing the applicable actions of E-1 (Loss of Reactor or Secondary Coolant).

When TSC requests Control Room to close MOV-851A, Control Room should request TSC to send a team into the Auxiliary Building to turn the breaker on for MOV-851A as it is turned off during operations.

NOTE: If breaker is turned on prior to Bus 14 tripping the breaker will trip as the valve comes off its back seat.

TECHNICAL SUPPORT CENTER

TSC should be evaluating the dripping and cracked pipe and request Control Room to close MOV-851A to isolate the leak from Containment.

TSC should be evaluating the increasing radiation levels in the Auxiliary Building and possibly evacuate the Auxiliary Building.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
		<p>TSC should be evaluating plant conditions and taking actions where required.</p> <p>TSC should be informing the EOF of plant status, actions being taken and any required needs.</p> <p><u>EMERGENCY OPERATIONS FACILITY</u></p> <p>EOF should be evaluating the increasing radiation levels in the Auxiliary Building and taking action as required.</p>
1005	+02/50	<p>Repair Team sent out to check the "A" emergency diesel generator problem reports that a gasket has blown out on the lube oil line between the engine lube oil pump and the large lube oil filter. They estimate it will take approximately two and one half hours to repair and refill the engine with oil.</p> <p><u>ANTICIPATED RESULTS</u></p> <p><u>TECHNICAL SUPPORT CENTER</u></p> <p>TSC should inform the "A" emergency diesel generator repair team to expedite repairs.</p> <p>TSC should inform the EOF of The "A" emergency diesel generator problem and the estimated repair time.</p> <p><u>EMERGENCY OPERATIONS FACILITY</u></p> <p>EOF should be assuming command and control at approximately this time. Preparations for an actual shift change of key ERO personnel will begin shortly after EOF assumes command and control.</p>
1005 <u>GENERAL EMERGENCY</u>	+02/50	<p>480 Volt safeguards Bus 14, trips out. Annunciators (J-29, J-7, J-9) alarm. All safety injection to the core is terminated (#33).</p>

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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ANTICIPATED RESULTS

Control Room

Operators should inform the TSC immediately of the loss of Bus 14 and safety injection to the core.

Operators should try to start the "C" S.I. Pump on Bus 16. If they do, the breaker will not close. They may also transfer the "B" instrument bus to maintenance supply.

TECHNICAL SUPPORT CENTER

TSC should inform the EOF of the loss of Bus 14 and safety injection to the core.

TSC should be evaluating the time to core uncover and request that the EOF also evaluate this time projection.

TSC may send a team into the Auxiliary Building to turn on the breaker for MOV-851A.

TSC may send a team into the Auxiliary Building to check on the loss of Bus 14.

TSC should try to expedite the repair of the "A" emergency diesel generator.

TSC should recommend to the EOF that a **GENERAL EMERGENCY** should be declared in accordance with EPIP-1-0, Ginna Station Event Evaluation and Classification", EAL: Reactor Coolant Leakage (RCS); LOCA Identified inside CNMT and no ECCS delivery to the RCS

TSC should be evaluating possible methods of water injection to the core, such as cross-tying Bus 14 and Bus 16 or using the "B" reactor coolant drain tank pump. If TSC decides to cross-tie the Buses 14-16, one of two tie-breakers will not close. If TSC decides to use the "B" reactor coolant drain tank pump, the suction strainer will plug after approximately 2 minutes of operation and will have to be cleaned prior to any further use (#33).

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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EMERGENCY OPERATIONS FACILITY

EOF, after evaluating plant conditions, should declare a GENERAL EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification, "EAL: Reactor Coolant Leakage (RCS); LOCA Identified inside CNMT and no ECCS delivery to the RCS.

Appropriate notification should be made per EPIP 1-5.

EOF should be making immediate Protective Action Recommendations in accordance with EPIP 2-1, "Protective Action Recommendations".

If a GENERAL EMERGENCY not declared in approximately 15 minutes, a contingency message should be given out to declare it (#42x).

REPAIR TEAMS

Performing actions as required to return equipment to service as soon as possible.

≈ 1015

≈ 03/00

Core exit thermocouples and R-29, R-30 start increasing and RVLIS starts decreasing (#41).

ANTICIPATED RESULTS

Control Room

Operators should inform the TSC of the increasing core exit thermocouples, the increasing radiation in Containment, and the decreasing RVLIS.

Operators should perform the applicable actions of CR-FR-C.1 (Response to Inadequate Core Cooling) when required.

TECHNICAL SUPPORT CENTER

TSC should be evaluating plant status and taking actions as required.

TSC should inform the EOF of the increasing core exit thermocouples, the increasing radiation in Containment,

APPROPRIATE
TIME

SCENARIO
TIME

EVENT DESCRIPTION AND MESSAGE #

and the decreasing RVLIS.

TSC should inform the EOF of the general plant status, actions being taken and need required.

TSC may realize by this time that in order to recover core cooling, they will need to complete repairs on the "A" emergency diesel generator, tie it into Bus 14, and start all available safety injection pumps, even though they may not be completely sure of why Bus 14 tripped out. The thermography report given in the initial conditions should give them confidence that the problem is in the transformer connections and not the Bus.

TSC should also realize that once they energize Bus 14, MCC-1C will be energized and they can now close MOV-851A when the breaker's AC power is turned on, thus terminating the radioactive leak source from Containment to the Auxiliary Building.

TSC may also evaluate the possibility of back feeding Bus 14 from Bus 13 using the 14-13 breaker.

EMERGENCY OPERATIONS FACILITY

EOF evaluating plant status and taking action as required.

1050

+03/35

Radiation levels increase substantially in the Auxiliary Building. This is due to the leaking pipe between Containment and MOV-850A opening up where the crack is. A release above Technical Specifications begins (#45).

ANTICIPATED RESULTS

Control Room

Operators may transition to ECA-1.1 (Loss of Emergency Coolant Recirculation) due to loss of both RHR pumps.

TECHNICAL SUPPORT CENTER

TSC should be expediting the turning on of the AC power breaker to MOV-851A.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
		TSC should be expediting the recovery of AC power to Bus 14.
		TSC should inform the EOF of the increased radiation levels in the Auxiliary Building.
		TSC should inform the EOF of plant status, actions being taken, and needs required.

EMERGENCY OPERATION FACILITY

EOF should be evaluating plant conditions and taking actions as required.

EOF Dose Assessment should be evaluating the plant vent release and making protective action recommendations to the Recovery Manager.

The EOF/Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should recommend protective actions to offsite agencies as required.

REPAIR TEAMS

Repair teams should be expediting repairs as conditions permit.

1100	+ 03/45	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#46).
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ANTICIPATED RESULTS

Control Room

Operators should perform the applicable actions of AR-L-10.

Operators should inform the TSC of the operation of the Auxiliary Building sump pump.

TECHNICAL SUPPORT CENTER

TSC should evaluate the Auxiliary Building sump pump operation and the possibility of the leak in the pipe

APPROPRIATE	SCENARIO
<u>TIME</u>	<u>TIME</u>

EVENT DESCRIPTION AND MESSAGE #

between Containment and MOV-850A getting worse.

EMERGENCY OPERATIONS FACILITY

EOF evaluating plant status and taking actions as required.

1110

+03/55

Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#47).

ANTICIPATED RESULTS

Control Room

Operators should perform the applicable actions of AR-L-10.

Operators should inform the TSC of the operation of the Auxiliary Building sump pump.

Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling). When they attempt to start the RCP's they trip out immediately.

TECHNICAL SUPPORT CENTER

TSC should be evaluating the plant status and taking actions as required.

1120

+04/05

Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#49).

ANTICIPATED RESULTS

Control Room

Operators should perform applicable actions of AR-L-10.

Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
1125	+04/10	Power Control informs the Control Room that offsite 34.5KV circuit 751 is ready to be restored to service (#50).

ANTICIPATED RESULTS

Control Room

Operators should inform the TSC that circuit 751 is ready to be restored to service.

Operators should, if directed by the TSC, restore circuit 751 to service per 0-6.9.2 .

1130	+04/15	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarm (#51).
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ANTICIPATED RESULTS

Control Room

Operators should perform the applicable actions of AR-L-10.

Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

TECHNICAL SUPPORT CENTER

TSC should be expediting the return of the "A" emergency diesel generator to service.

EMERGENCY OPERATIONS FACILITY

EOF Dose Assessment should be evaluating the release from the plant vent and making protective action recommendations to the Recovery Manager as necessary.

The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should make protective action recommendations to offsite agencies as necessary.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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1140	+04/25	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#52).
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ANTICIPATED RESULTS

Control Room

Operators should be performing the applicable actions of AR-L-10

1145	+04/30	Repair Team working on the "A" emergency diesel generator reports to the TSC that the emergency diesel generator repairs should be completed in approximately fifteen minutes (#53).
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ANTICIPATED RESULTS

TECHNICAL SUPPORT CENTER

TSC should be planning the recovery of core cooling and the termination of the release from the Auxiliary Building when the "A" emergency diesel generator is returned to service.

TSC should request operations to check the "A" emergency diesel generator line-up as much as they can to expedite the return to service of the D/G.

TSC should inform the EOF of the estimated time that the "A" emergency diesel generator will be ready for return to service.

1150	+04/35	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#54).
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ANTICIPATED RESULTS

Control Room

Operators should perform the applicable actions of AR-L-10.

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
1155	+04/40	Repair Team working on the "A" emergency diesel generator reports to the TSC that it is ready to be returned to service (#55).

ANTICIPATED RESULTS

Control Room

Operators, when requested by the TSC, should line up the "A" emergency diesel generator per T-27.1 (#56).

Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

TECHNICAL SUPPORT CENTER

TSC should request that the Control Room have the "A" emergency diesel generator lined up for normal operation and to allow it to tie into Bus 14.

TSC should inform the Control Room to start all safety injection pumps and Containment recirc fans available as soon as Bus 14 is energized by the "A" emergency diesel generator.

TSC should inform the Control Room to close MOV-851A as soon as MCC-C is energized if MOV-851A AC power breaker was turned on.

1200	+04/45	Annunciator L-10 (AUX BLDG SUMP PUMP START) Alarms (#57).
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ANTICIPATED RESULTS

Control Room

Operators should be performing the applicable actions of AR-L-10.

<u>APPROPRIATE TIME</u>	<u>SCENARIO TIME</u>	<u>EVENT DESCRIPTION AND MESSAGE #</u>
1210	+04/55	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#58).
		<u>ANTICIPATED RESULTS</u>
		<u>Control Room</u>
1215	+05/00	Operators should be performing the applicable actions of AR-L-10.
		Auxiliary Operator lining up the "A" Emergency Diesel Generator informs the Control Room/TSC that the "A" emergency diesel generator is lined up per T-27.1 (#59).
		<u>ANTICIPATED RESULTS</u>
		<u>Control Room</u>
		Operators should start the "A" diesel generator and ensure it ties into Bus 14.
		Operators should start the "A" and "C" safety injection pumps, the "A" RHR pump and the "A" and "D" Containment recirc fan coolers. All equipment starts except the "C" safety injection pump (burned out motor).
		Operators should attempt closure of MOV-851A, if the AC power to the breaker has been previously turned on. If the AC power to the breaker has been previously turned on then the valve will come off its back seat and the breaker will trip out. Indication of this will be, mid-position indication of valve will not change. If the AC power to the breaker has not been turned on then no valve closure should be attempted at this time.
		Operators should inform the TSC of S.I. pumps and Containment recirc fan coolers starting.
		Operators should inform TSC of MOV-851A failure to close if the AC power was previously turned on to the breaker.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling and then return to E-1 (Loss of Reactor or Secondary Coolant).

TECHNICAL SUPPORT CENTER

TSC should send a team into the Auxiliary Building to turn on the AC power to MOV-851A. If the AC power to the valve breaker had been turned on previously, the TSC may send an electrician with this team to check the breaker (#60).

TSC should be evaluating plant conditions, checking on progress of repair teams and taking action as required.

TSC should be informing the EOF of plant status and actions being taken for plant recovery.

EMERGENCY OPERATIONS FACILITY

EOF should be evaluating plant conditions and taking actions as required.

EOF should be requesting the Engineering Support Center to perform a core damage assessment.

EOF Dose Assessment should be tracking the release plume.

The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies as required.

The shift change of all key ERO positions should be complete by approximately this time.

REPAIR TEAMS

Repair Teams should be expediting repairs as conditions permit.

1220

+05/05

Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#61).

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
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ANTICIPATED RESULTS

Control Room

Operators should be performing the applicable actions of AR-L-10.

Operators should be performing the applicable actions of E-1 (Loss of Reactor or Secondary Coolant).

1235	+ 05/20	Annunciator L-10 (AUX BLDG SUMP PUMP AUTO START) Alarms (#63).
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Plant vent reading are decreasing due to Containment pressure reduction, reducing the leak out of the pipe between MOV-850A and Containment and also due to the resumption of core cooling reducing the radiation levels in Containment (#65).

ANTICIPATED RESULTS

Control Room

Operators should be performing the applicable actions of AR-L-10.

Operators should be performing applicable actions of E-1 (Loss of Reactor or Secondary Coolant).

Operators may realize, at this time, that the Auxiliary Building sump pump operation interval is increasing and should inform the TSC of this.

TECHNICAL SUPPORT CENTER

TSC should be expediting sending a team into Auxiliary Building to check and/or turn on the AC power breaker for MOV-851A.

TSC should be evaluating plant status and taking action as required.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
---------------------	------------------	---------------------------------

TSC may be evaluating the Auxiliary Building sump pump down interval change.

TSC should be informing the EOF of plant status and actions being taken for plant recovery.

EMERGENCY OPERATIONS FACILITY

EOF should be evaluating plant conditions as required.

EOF Dose Assessment should be tracking the release plume and coordinating/recommending protective action recommendations to the Recovery Manager.

The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies as required.

REPAIR TEAMS

Repair Teams should be expediting repairs as conditions permit.

1245

+05/30

The team sent into the Auxiliary Building to check and/or turn on the AC power breaker for MOV-851A reports the following, depending on the situation:

If the AC power breaker for MOV-851A was not previously turned on, then the team will turn it on and report this to the TSC.

If the AC power breaker for MOV-851A was previously turned on and then tripped, the team will report their findings to the TSC and await further instruction. After evaluation the TSC should request the breaker be reset and turned on. This should be done by the team (#60).

ANTICIPATED RESULTS

Control Room

Operators should close MOV-851A when requested by the TSC. MOV-851A will be considered closed at 1250 hours, isolating the leak on the pipe between CV and

APPROPRIATE	SCENARIO
<u>TIME</u>	<u>TIME</u>

EVENT DESCRIPTION AND MESSAGE #

MOV-850A. NOTE: MOV-851A will be considered closed at 1250 hours for scenario purposes.

Operators should inform the TSC of MOV-851A closure.

TECHNICAL SUPPORT CENTER

If the as power breaker for MOV-851A was previously turned on and then tripped, TSC should evaluate this and most probably decide the following: the breaker could have tripped starting the closing cycle of the valve due to not being operated for a long period of time, or the breaker may not have been completely reset the first time by the Auxiliary Operator. Based on the above and the emergency conditions that exists, the TSC should have the team reset and turn on the breaker for MOV-851A and then request the Control Room close MOV-851A.

If the AC power breaker for MOV-851A was not previously turned on, TSC will request the Control Room to close MOV-851A.

1300

+05/45

With the leak from Containment isolated, the Auxiliary Building sump pump is no longer operating at short intervals and the plant vent radiation readings are beginning to decrease significantly (#65).

ANTICIPATED RESULTS

Control Room

Operators should be performing the applicable actions of E-1 (Loss of Reactor or Secondary Coolant).

TECHNICAL SUPPORT CENTER

TSC should inform the EOF of the closure of MOV-851A and the decreasing plant vent radiation readings.

TSC evaluating plant conditions and taking action as required.

TSC should be checking on progress of repair teams.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION AND MESSAGE #
		TSC should be informing the EOF of plant status and actions being taken for plant recovery.
		<u>EMERGENCY OPERATIONS FACILITY</u>
		EOF should be evaluating plant conditions and taking actions as required.
		EOF Dose Assessment should be tracking the release plume and coordinating/recommending protective action recommendations to the Recovery Manager.
		The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies as required.
		<u>REPAIR TEAMS</u>
		Repair teams should be expediting repairs as conditions permit.
≈ 1315	+ ≈ 06/00	Recovery/Re-entry discussions may 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.
≈ 1400-1500	+ ≈ 06/45-07/45	After all exercise objectives have been demonstrated, the exercise will be terminated.

SECTION 8.0

MESSAGE FORMS AND PLANT DATA SHEETS

MINI SCENARIOS

- (1) ***"B" Safety Injection pump outboard pump bearing replacement, 0715 Hours mechanics.***
- (2) ***"B" Charging pump plunger replacement, 0715 Hours (mechanics).***
- (3) ***Checking Turbine Generator noise and vibration problem, 0730 Hours (auxiliary operator).***
- (4) ***Charging Pump Room fire, 0805 Hours (fire brigade).***
- (5) ***"C" Charging pump fire repair, 0825 Hours (mechanics, electricians, and I&C).***
- (6) ***Checking Auxiliary Building sub-basement for RHR system leakage per E-1 and "B" RHR pump trip problem, 0910 Hours (auxiliary operator/TSC team).***
- (7) ***Checking "A" emergency diesel generator local alarm panel and the Emergency Diesel Generator, 0920 Hours (auxiliary operator).***
- (8) ***"A" emergency diesel generator problem, 0935 Hours (pipe fitters and mechanics).***
- (9) ***Checking Bus 14 tripping out problem, 1005 Hours (electricians).***

- (10) *Checking "C" Safety Injection pump breaker on Bus 16 problem, 1005 Hours (electricians).*
- (11) *Turning on AC power breaker for MOV-851A, 1005 Hours (auxiliary operator/TSC team).*
- (12) *Bus 14-16 cross-tie breaker problem, 1005 Hours (electricians).*
- (13) *Possible back feeding Bus 14 from Bus 13 using 14-13 tie-breaker problem, 1005 Hours (electricians).*
- (14) *Possible line up of the "B" RCDT pump to CNMT sump "B" or the RWST, 1005 Hours (TSC, Control Room and auxiliary operator).*
- (15) *Cleaning the "B" RCDT pump suction strainer, 1005 Hours (pipefitter).*
- (16) *Line up of "A" emergency diesel generator per T-27.1, 1155 Hours (Auxiliary operator).*
- (17) *Check and/or turn on the AC power breaker for MOV-851A, 1215 Hours (auxiliary operator and/or electrician).*

CONTROLLERS FOR MINI-SCENARIOS

A. AUXILIARY OPERATOR CONTROLLERS

1. **0730:** *Checking Turbine-Generator for noise and vibration problem.*
2. **0910:** *Checking Auxiliary Building sub-basement for RHR system leakage per E-1 and "B" RHR pump trip problem.*
3. **0920:** *Checking "A" Emergency Diesel Generator Local Alarm Panel and the Emergency Diesel Generator.*
4. **1005:** *Turning on AC power breaker for MOV-851A.*
5. **1005:** *Possible line up of the "B" RCDT pump to CNMT sump "B" or the RWST.*
6. **1155:** *Line-up of the "A" Emergency Diesel Generator per T-27. 1.*
7. **1215:** *Check and/or turn on the AC power breaker for MOV-851A (an electrician may be involved also).*

B. ELECTRICIANS CONTROLLERS

1. **0825:** *"C" Charging pump fire repair.*
2. **1005:** *Checking Bus 14 tripping out problem.*
3. **1005:** *Checking "C" Safety Injection Pump failure to start on Bus 14 and 16 problem.*
4. **1005:** *Bus 14-16 cross-tie breaker problem.*
5. **1005:** *Possible backfeeding Bus 14 from Bus 13 using 14-13 tie breaker problem.*
6. **1215:** *Check and/or turn on the AC power breaker for MOV-851A (An Auxiliary Operator may be involved also).*

C. MECHANICS CONTROLLERS

1. 0715: "B" Safety Injection Pump outboard bearing repair.
2. 0715: "B" Charging Pump plunger replacement.
3. 0825: "C" Charging Pump fire repair.
4. 0935: "A" Emergency Diesel Generator Repair.

D. I AND C CONTROLLER

1. 0825: "C" Charging Pump fire repair.

E. FIRE BRIGADE CONTROLLERS

1. 0805: Charging Pump room fire.

F. PIPE FITTER CONTROLLERS

1. 0935: "A" Emergency Diesel Generator problem.
2. 1005: Cleaning of "B" RCDT suction strainers.

Time: 0700
Message: IC

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Review initial conditions and Plant Status Sheets with the Exercise operating crew.
- 2) Review Exercise precautions/limitations and any Exercise activities that are normal (pre-staging, simulated notifications, extent of participation of offsite agencies, etc.).
- 3) Ensure that the operating crew understands that the Exercise is not to interfere with safe plant operations.
- 4) Explain that abbreviation "OOS" means "out of service," i.e. repairs must be made before the equipment can be used.

Anticipated Results:

- 1) Participants should review conditions, plant data, and other procedures as applicable.

GINNA STATION
1993 EMERGENCY PREPAREDNESS EXERCISE
INITIAL CONDITIONS

1. The R. E. Ginna Nuclear Power Plant is operating at approximately 98% rated thermal power. The Plant has been operating at this power level continuously for approximately 180 days.
2. Equilibrium primary coolant isotopic activity as of 0300 hours (11/17/93) is provided in table 9.2 of Scenario Section 9.3 . Total activity is 2.56 microcuries/gram. Chemistry log sheet available from controller.
3. The Reactor Coolant System (RCS) total leakage is 0.250 gpm as of 0400 hours this morning. Identified RCS leakage is 0.092 gpm.
4. 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).
5. Offsite power 34.5 kv circuit 751 is out for pole replacement and cable repair due to a tractor trailer truck hitting a pole on Slocum Road, north at 0600 this morning. The "A" Emergency Diesel Generator started and energized safeguards buses 14 and 18. Subsequently normal power was restored to buses 14 and 18 from offsite power 34.5 kv circuit 767 stopped and aligned for auto standby.
6. The "B" Safety Injection Pump is held because of high vibration on the pumps outboard bearing. The high vibration was detected yesterday (11/16/93) during the performance of PT-2.1Q (Safety Injection System Quarterly Test). The pumps outboard bearing is disassembled, cleaned and new bearings have been checked out of a QA storage. The pump is now awaiting re-assembly. An A-52.4 has been submitted for the "B" Safety Injection Pump. The "B" Safety Injection Pump electrical breaker "b" contact has been jumped per EM-777 (MOV-871 and 871B Control Circuit Jumpers).
7. "B" Charging Pump is held for plunger replacement. The pump was held yesterday morning (11/16/93) at 0700 and the maintenance is approximately 50% completed.
8. A preventive maintenance analyst, while doing thermography on Bus 14 during the early morning hours, reports to the shift supervisor that he has found a hot spot on Bus 14 station service transformer. He also informs the Shift Supervisor that he will talk to maintenance later this morning about planning a Bus 14 outage to check out the transformer.

1993 EVALUATED EXERCISE

Time: 0700DATA SHEETMAJOR PARAMETERSENGINEERED SAFEGUARDS

Reactor Shutdown YES/NO
 N-31 0 CPS
 N-32 0 CPS
 N-35 8.1E-4 AMPS
 N-36 8.1E-4 AMPS
 Avg. Nuclear Power 98.1 %
 RCS Pressure 2248 PSIG
 PRZR Level 48.2 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 52.1 %
 1B S/G Level 52.1 %
 1A S/G Pressure 701 PSIG
 1B S/G Pressure 701 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses ENERGIZED/DEENERGIZED
 DC Batteries A/30 VOLTS B/30 VOLTS
 Cnmt Pressure .24 PSIG
 Cnmt Sump A Level 2.0 FEET
 Cnmt Sump B Level < 8 INCHES
 A Loop Hot Leg 601.1 °F
 A Loop Cold Leg 544.2 °F
 B Loop Hot Leg 601.1 °F
 B Loop Cold Leg 544.1 °F
 RVLIS 99.1 %
 *CET 600.6 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 0 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Turb. Driven INSERT/STBY/OOS
 CST Level 21.0 FEET

High Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERT/STBY/OOS/RECIRC
 1B. INSERT/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

A & C CHARGING PUMPS IN SERVICE"B" CHARGING PUMP HELD

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 SPEAKER 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	8.12829-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	8.12829-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	98.08	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2248.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.2	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.1	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.3	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	47.4	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	701.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	701.	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 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	.24	GOOD	PSIG
28 LSUMPB	CONTAINMENT SUMP B AVERAGE LEVEL	2.0	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP E LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP E LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP F LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP E LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP E LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP F LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP E LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCL4 HOT LEG TEMPERATURE	601.1	GOOD	DEGF
40 T0410A	RCL5 HOT LEG TEMPERATURE	601.1	GOOD	DEGF
41 T0450	RCL4 COLD LEG TEMPERATURE	544.2	GOOD	DEGF
42 T0451	RCL5 COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43 TAVGAWID	RCL4 TAVG (THOT/TCOLD WIDE RNG)	572.7	GOOD	DEGF
44 TAVGBKID	RCL5 TAVG (THOT/TCOLD WIDE RNG)	572.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.1	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	600.6	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX F. PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX F. 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	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.5	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	320.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	44.4	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.6	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.33255-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.62382+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.01995-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.91742+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.72782+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.60555+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.63785+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.74732+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.52712+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.06844+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.04173+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.35480+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52995-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	67.9	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	81.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	81.0	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	81.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	81.0	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	94.1	GOOD	DEGF

Time: 0715
Message: 1

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

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

"Attention; Attention all personnel. The Ginna Nuclear Station is now starting its 1993 Emergency Preparedness Evaluated Exercise. All Exercise messages must be started and ended with
'THIS IS AN EXERCISE'."

Announce twice.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Ensure that the PA announcement is made.

Anticipated Results:

- 1) Simulator Control Room makes the PA announcement.

MAJOR PARAMETERS

Reactor Shutdown	YES/NO
N-31	<u>0</u> CPS
N-32	<u>0</u> CPS
N-35	<u>8.1E-4</u> AMPS
N-36	<u>8.1E-4</u> AMPS
Avg. Nuclear Power	<u>98.1</u> %
RCS Pressure	<u>2248</u> PSIG
PRZR Level	<u>48.1</u> %
A RCP	<u>RUNNING</u> /STOPPED
B RCP	<u>RUNNING</u> /STOPPED
1A S/G Level	<u>52.1</u> %
1B S/G Level	<u>52.1</u> %
1A S/G Pressure	<u>701</u> PSIG
1B S/G Pressure	<u>701</u> PSIG
Turbine/Generator	<u>ONLINE</u> /OFFLINE
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED
480V Buses	<u>ENERGIZED</u> /DEENERGIZED
DC Batteries	A/ <u>30</u> VOLTS B/ <u>30</u> VOLTS
Cmnt Pressure	<u>2.6</u> PSIG
Cmnt Sump A Level	<u>2.8</u> FEET
Cmnt Sump B Level	<u>2.0</u> INCHES
A Loop Hot Leg	<u>601.1</u> °F
A Loop Cold Leg	<u>544.2</u> °F
B Loop Hot Leg	<u>601.1</u> °F
B Loop Cold Leg	<u>544.1</u> °F
RVLIS	<u>99.1</u> %
*CET	<u>600.6</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 21.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	8.12829-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	8.12829-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	98.08	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2248.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.1	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.1	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.3	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INORE TC SUBCOOLED MARGIN	47.4	GOOD*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	GOOD	%
16 LSSB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	701.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	701.	GOOD	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21 BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22 BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.26	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.0	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	601.1	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	601.1	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	544.2	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.7	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.1	GOOD	%
46 TCCORE	E1.1 INORE TC AVERAGE TEMP	600.6	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	NTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	NTR 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	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	321.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	44.2	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.4	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.8	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.33255-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.62382+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.01995-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.91742+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.04112+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.65481+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.60555+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.63785+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.63474+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.64774+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.11348+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.45797+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	68.6	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	81.5	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	81.5	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	81.5	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	81.5	GOOD	DEGF
43 TCV17	CV OPERATING LVL 6FT TEMP #17	94.4	GOOD	DEGF

Time: 0715
Message: 2

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Mechanics working on "B" Safety Injection Pump outboard bearing replacement.

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations are conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

ROCHESTER GAS AND ELECTRIC

GINNA STATION

1993 EVALUATED EXERCISE

MINI SCENARIO

TITLE: "B" Safety Injection Pump Outboard Bearing Replacement.
Scenario expected start time: 0715

INITIAL CONDITIONS: "B" Safety Injection Pump is held in accordance with "A" procedure A-1401. Bearing is disassembled, with shaft cleaned up for new bearing installation. Bearing obtain from inventory control "QA" storage.

METHOD OF INITIATION: Start of work day crew begins preparation to replace bearing on pump, lubricating new bearing in Machine Shop.

INDICATIONS:

CONTROL ROOM: Trouble card submitted by R&T on pump high vibration readings during PT-2.1Q (Safety Injection System Quarterly Test).
Machine shop initiated work package for outboard bearing replacement on "B" safety injection pump.

EXPECTED SEQUENCE OF ACTIONS:

Machine Shop crew will start work for day on bearing assembly at 0730

Bearing will be reinstated per M-11.12.1 (Safety Injection Pump, Mechanical Inspection).

After completion of maintenance R&T to conduct test.

Pump returned to service after test completion 24 hours from scenario start.

REPAIR TIME:

Bearing installation will take 8 hours to complete after crew renews work, before given to R&T to test.

FINAL CONDITIONS: Pump bearing in final stages of reassembly.

Time: 0715
Message: 3

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Mechanics working on "B" Charging Pump Plunger Replacement.

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations are conducted.

Anticipated Results:

- 2) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE

MINI-SCENARIO

ACTIVITY: "B" Charging Pump Plunger Replacement.
Scenario expected start time: 0715

INITIAL CONDITIONS:

The pump was held yesterday for repack of plunger due to leakage requirements. The replacement of the spare repacked plunger assemblies is 50% complete, repacked units need to be installed.

METHOD OF INITIATION:

Normal work day start will have the machinist on the job as initial conditions for exercise.

INDICATIONS:

CONTROL ROOM:

Auxiliary Building, Auxiliary Operator reported excessive leakage on the pump two days ago and a trouble report written for the Machine Shop to repack the "B" Charging Pump. Hold request and work order for machine shop have been processed to repack the pump.

LOCAL:

Operator when calculating leakage from the charging pumps determined the "C" charging pump leak rate was high and a trouble report was written against the pump.

EXPECTED SEQUENCE OF ACTIONS:

Work crew from the Machine shop was removed from this job to help change the bearing on the "B" Safety Injection Pump.

Work order is active and SWP for task is active, pump is disassembled and needing spare plunger placed in the pump and torqued down.

REPAIR TIME:

When a crew returns to the task it will take 6 hours to complete the pump to restore to service.

FINAL CONDITION:

Pump is in some state of repair, not completed at conclusion of Exercise.

Time: 0730
Message: 4

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

- ° A loud bang is heard outside the Control Room door to the Turbine Building.
- ° Annunciator I-27 (Rotor Eccentricity or Vibration) alarms.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Simulator Control Room Controller to bang door just prior to the simulator operator starting event.

Anticipated Results:

- 1) Operators should perform the actions of AR-I-27 and transition to AP-Turb.3 (Turbine Vibration) and perform the actions of tripping the turbine as vibration on #6 bearing is higher than the trip criteria of 14 mils.
- 2) Operators should transition to E-O (Reactor Trip or Safety Injection) and perform the applicable actions and then transition to ES-O.1 (Reactor Trip Response) and perform its applicable actions.
- 3) Operators should send an Auxiliary Operator out to check the main turbine-generator.

MAJOR PARAMETERS

Reactor Shutdown YES/NO
 N-31 0 CPS
 N-32 0 CPS
 N-35 2.1E-4 AMPS
 N-36 8.1E-4 AMPS
 Avg. Nuclear Power 98.1 %
 RCS Pressure 2248 PSIG
 PRZR Level 48.3 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 52.1 %
 1B S/G Level 52.1 %
 1A S/G Pressure 701 PSIG
 1B S/G Pressure 701 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses ENERGIZED/DEENERGIZED
 DC Batteries A 130 VOLTS B 130 VOLTS
 Cnmt Pressure 2.6 PSIG
 Cnmt Sump A Level 2.1 FEET
 Cnmt Sump B Level 1.8 INCHES
 A Loop Hot Leg 606.1 °F
 A Loop Cold Leg 544.2 °F
 B Loop Hot Leg 606.1 °F
 B Loop Cold Leg 544.1 °F
 RVLIS 99.1 %
 *CET 600.6 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 0 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Turb. Driven INSERT/STBY/OOS
 CST Level 21.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERT/STBY/OOS/RECIRC
 1B. INSERT/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	8.12829-04	INHB	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	8.12829-04	INHB	AMP
7 NP	AVERAGE NUCLEAR POWER	98.09	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2248.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	48.3	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.1	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.3	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INDURE TC SUBCOOLED MARGIN	47.4	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	701.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	701.	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 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	.26	GOOD	PSIG
29 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.1	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	601.1	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	601.1	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	544.2	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNS)	572.7	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNS)	572.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.1	GOOD	%
46 TCCORE	E1.1 INDURE TC AVERAGE TEMP	600.6	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	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	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	317.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.8	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.7	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.75882+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09030-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.69093+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.60555+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.63785+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.23426+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.52712+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.00678+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.46428+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	68.7	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	81.6	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	81.6	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	81.6	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	81.6	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	94.4	GOOD	DEGF

Time: 0730
Message: 5

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Auxiliary Operator sent to check turbine-generator

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations are conducted.

Anticipated Results:

- 1) As per Mini-Scenario

GINNA STATION

1993 EVALUATED EXERCISE

MINI SCENARIO

TITLE: Checking Turbine Generator noise and vibration problem.
Expected Scenario start time: 0730

INITIAL CONDITIONS:

Turbine generator on line.

METHOD OF INITIATION:

A loud bang is heard outside the Control Room door. Control Room requests that Auxiliary Operator check out the Turbine Generator for abnormalities.

INDICATIONS:

CONTROL ROOM:

- Alarm window I-27 "Rotor Eccentricity or Vibration"
- Bearing vibration indication

LOCAL:

- A turbine blade has penetrated the #2 LP turbine casing at its southeast corner and is lying by the Control Room door.
- Sound of air rushing into condenser through the penetration.
- Feel of turbine generator vibrating

EXPECTED SEQUENCE OF ACTIONS:

- Investigate Turbine Generator for signs of abnormalities
- Notice penetration of turbine casing.
- Notice turbine blade lying by Control Room door.
- Notice turbine generator vibrating.
- Notice sound of air rushing into condenser through the penetration.
- Inform Control Room of findings no later than 0740.

FINAL CONDITIONS:

Turbine Generator is tripped and comes to rest and all condenser vacuum is lost.

Time: 0732
Message: 6

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

°Annunciator F-21 (Cond HI Press 20" Hg or Loss of Both Circ Wtr Pmps) alarms

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When operators check condenser vacuum, inform them that it is 19" and decreasing.

Anticipated Results:

- 1) Operators continue to perform the applicable actions of ES-0.1 .

Time: 0740
Message: 7

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

Auxiliary Operator checking the turbine generator informs Control Room of conditions
per mini-scenario message #5 by 0740.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Auxiliary Operator sent out to check the turbine generator must report his findings to Control Room by this time (i.e. 0740).

Anticipated Results:

- 1) Operators should be performing the applicable actions of ES-0.1 (Reactor Trip Response).
- 2) An ALERT should be declared in accordance with EPIP 1-0, "Ginna Station Event and Evaluation and Classification," EAL:Hazards Being Experienced or Projected; Turbine Blade Failure which Penetrates the Turbine Casing.

Time: 0745
Message: 8

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

- 1) Operators should be performing the applicable actions of ES-0.1 (Reactor Trip Response).

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>1270</u> CPS
N-32	<u>1274</u> CPS
N-35	<u>3.4E-11</u> AMPS
N-36	<u>2.9E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2132</u> PSIG
PRZR Level	<u>25.0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>20.4</u> %
1B S/G Level	<u>21.6</u> %
1A S/G Pressure	<u>1022</u> PSIG
1B S/G Pressure	<u>1019</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	A <u>130</u> VOLTS B <u>130</u> VOLTS
Cmnt Pressure	<u>2.4</u> PSIG
Cmnt Sump A Level	<u>2.1</u> FEET
Cmnt Sump B Level	<u>5.8</u> INCHES
A Loop Hot Leg	<u>551.9</u> °F
A Loop Cold Leg	<u>550.4</u> °F
B Loop Hot Leg	<u>551.9</u> °F
B Loop Cold Leg	<u>550.2</u> °F
RVLIS	<u>99.2</u> %
*CET	<u>551.7</u> °F
S/G A Total Aux FW Flow	<u>163</u> GPM
S/G B Total Aux FW Flow	<u>171</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 21.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM
3	N31	SOURCE RANGE DETECTOR N-31	1.27057+04	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.27497+04	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	3.41977-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	2.96481-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2132.	GOOD PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	25.0	GOOD %
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.1	GOOD %
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.3	GOOD %
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD
14	TSUBTC	INORE TC SUBCOOLED MARGIN	93.9	GOOD* DEG F
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	20.4	LWRN %
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	21.6	LWRN %
17	PSGA	STM GEN A AVERAGE PRESSURE	1022.	GOOD PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	1019.	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 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	.24	GOOD PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.1	GOOD FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD
39	T0409A	RCLA HOT LEG TEMPERATURE	551.9	GOOD DEG F
40	T0410A	RCLB HOT LEG TEMPERATURE	551.9	GOOD DEG F
41	T0450	RCLA COLD LEG TEMPERATURE	550.4	GOOD DEG F
42	T0451	RCLB COLD LEG TEMPERATURE	550.2	GOOD DEG F
43	TAVGANID	RCLA TAVG (THOT/TCOLD WIDE RNG)	551.2	GOOD DEG F
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	551.1	GOOD DEG F
45	LRV	REACTOR VESSEL AVERAGE LEVEL	99.2	GOOD %
46	TCCORE	E1.1 INORE TC AVERAGE TEMP	551.7	GOOD* DEG F
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	163.	GOOD GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	171.	GOOD GPM
49	EKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD
50	EKR082	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	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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	5.2	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	317.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.8	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.7	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.81048-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.75882+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.02920+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.69093+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.57806+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.59268+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.23426+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.48313+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.64774+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.00678+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.45797+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	70.7	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	82.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	82.0	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	82.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	82.0	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	93.5	GOOD	DEGF

Time: 0755
Message: 9x

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room Supervisor/Emergency Coordinator

Simulated Plant Conditions:

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

Declare an ALERT in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification", EAL: Hazards Being Experienced or Projected; Turbine Blade Failure which Penetrates the Turbine Casing.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Deliver only if an ALERT has not been declared. Do Not deliver if emergency classification discussions are in progress.

Anticipated Results:

- 1) Deliver contingency message if alert not declared or is not being discussed.

Time: 0800
Message: 10

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

- 1) Operators should be performing the applicable actions of ES-0.1 (Reactor Trip Response).

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>225</u> CPS
N-32	<u>215</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2241</u> PSIG
PRZR Level	<u>20.3</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>28.8</u> %
1B S/G Level	<u>29.0</u> %
1A S/G Pressure	<u>1018</u> PSIG
1B S/G Pressure	<u>1015</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	A <u>130</u> VOLTS B <u>130</u> VOLTS
Cnmt Pressure	<u>0.24</u> PSIG
Cnmt Sump A Level	<u>2.1</u> FEET
Cnmt Sump B Level	<u>2.8</u> INCHES
A Loop Hot Leg	<u>550.6</u> °F
A Loop Cold Leg	<u>549.7</u> °F
B Loop Hot Leg	<u>550.6</u> °F
B Loop Cold Leg	<u>549.3</u> °F
RVLIS	<u>99.4</u> %
*CET	<u>550.6</u> °F
S/G A Total Aux FW Flow	<u>163</u> GPM
S/G B Total Aux FW Flow	<u>172</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	2.25683+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	2.15030+02	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 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2241.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	20.3	GOOD	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.3	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.5	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	102.2	GOOD*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	28.8	LWRN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	29.0	LWRN	%
17 PSGA	STM GEN A AVERAGE PRESSURE	1018.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	1015.	GOOD	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON 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	.24	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.1	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	550.6	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	550.6	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	549.7	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	549.3	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNS)	550.1	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNS)	550.0	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.4	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	550.6	GOOD*	DEGF
47 FAUXFWA	S/S A TOTAL AUX FEEDWATER FLOW	163.	GOOD	GPM
48 FAUXFWB	S/S B TOTAL AUX FEEDWATER FLOW	172.	GOOD	GPM
49 BKR0B1	NTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR0B2	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	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.5	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	339.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	42.4	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	4.49262+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09030-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.66072+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.62648+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.51138+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.61516+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.45036+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.40910+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.06844+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.99813+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.8	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	82.5	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	82.5	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	82.5	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	82.5	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	93.1	GOOD	DEGF

Time: 0805
Message: 11

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following fire zone alarms:
Z-01 (Aux Bldg 235-8 Bsmt E. Chp Room)

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

- 1) Operators should sound the fire alarm and activate the fire bridge per SC-3.1.1 .
- 2) Control Room should inform the TSC of the Charging Pump Room fire alarm.
- 3) Operators should be transitioning to O-2.2 .



Time: 0805
Message: 12

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Charging Pump Room Fire, Fire Brigade

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations are conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Charging Pump Room Fire, Fire Brigade.
Expected Scenario start time: 0805

INITIAL CONDITIONS:

"C" Charging Pump Running

METHOD OF INITIATION:

Fire zone Z-01 (Aux Bldg 235-8 Bsmt E. Chp Room) alarms in Control Room. Control Room sounds the fire alarm and activates the fire brigade per SC-3.1.1 at 0807 hours the "C" charging pump trips out.

INDICATIONS:

CONTROL ROOM: • Alarm window K-31 fire system alarm panel.

• Fire alarm panel alarm Z-01 "Aux Bldg 235-8 Bsmt E. Chp Room".

LOCAL: • Much smoke in area of the "C" charging pump motor.

EXPECTED SEQUENCE OF ACTIONS:

- Investigate Charging Pump Room for signs of fire
 - Notice smoke in area of "C" Charging Pump Motor.
 - Notice "A" charging pump running normal.
 - Notice no other fire related problems in Charging Pump Room.
- Report above observations to the Control Room By ≈ 0815 hours.
- Extinguish fire using accepted fire fighting practices.
- Report fire is extinguished to the Control Room at 0825 hours.
- Return all fire fighting equipment to its proper storage.

FINAL CONDITIONS:

Fire is extinguished and reported to the Control Room at 0825 hours and all fire fighting equipment is properly stored.

Time: 0807
Message: 13

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following annunciator is received:

- ° G-25 (Motor Off CTR Sect PMPs Except Main and Aux Feed Pmps).

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) WHEN operators check the control board, inform them that the "C" charging pump switch indicates a white light and the "C" charging pump indicates tripped.

Anticipated Results:

- 1) Operators should perform the applicable actions of AR-G-25.
- 2) Operators should control pressurizer level and seal injection flow with the remaining charging pump.
- 3) Control Room should inform TSC of "C" charging pump trip.
- 4) Operators should be performing the applicable actions of O-2.2 .

Time: 0815
Message: 14

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Fire Brigade captain, after arriving at the Charging Pump Room, should report to the Control Room by ≈ 0815 hours that the fire appears to be on the "C" charging pump motor with much smoke present and that they are fighting the fire.
- 2) Offsite fire fighting assistance is not participating. If assistance is requested, controllers will intercede to prevent off-site fire department response.

Anticipated Results:

- 1) Operators should inform TSC of the fire on the "C" charging pump.
- 2) Operators should be performing the applicable actions of 0-2.2.
- 3) TSC should be assuming command and control at approximately this time.
- 4) TSC, when operational, should check into the loss of 34.5 kv circuit 751 problem.
- 5) TSC, when operational, should evaluate the fire in the Charging Pump Room.
- 6) EOF may be activating at this time due to plant conditions.

1993 EVALUATED EXERCISE

Time: 0815MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>216</u> CPS
N-32	<u>216</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2247</u> PSIG
PRZR Level	<u>18.5</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>34.4</u> %
1B S/G Level	<u>33.4</u> %
1A S/G Pressure	<u>1019</u> PSIG
1B S/G Pressure	<u>1016</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	<u>A130</u> VOLTS <u>B130</u> VOLTS
Cmnt Pressure	<u>2.4</u> PSIG
Cmnt Sump A Level	<u>2.2</u> FEET
Cmnt Sump B Level	<u>5.8</u> INCHES
A Loop Hot Leg	<u>550.8</u> °F
A Loop Cold Leg	<u>549.9</u> °F
B Loop Hot Leg	<u>550.8</u> °F
B Loop Cold Leg	<u>549.7</u> °F
RVLIS	<u>99.4</u> %
*CET	<u>550.6</u> °F
S/G A Total Aux FW Flow	<u>69</u> GPM
S/G B Total Aux FW Flow	<u>70</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 19.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	2.16520+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	2.16520+02	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04232-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2247.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	18.5	LWRN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.3	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.5	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	102.6	GOOD*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	34.4	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	33.4	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	1019.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	1016.	GOOD	PSIG
19 GENBKRI	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKRI2	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	.24	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	2.2	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	550.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	550.8	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	549.9	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	549.7	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	550.3	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	550.2	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.4	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	550.6	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	69.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	70.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 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	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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	1432.	LALM	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	7.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	321.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	42.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	42.0	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.9	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.59727+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	2.95121-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.85101+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.02920+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.62648+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.59175+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.68380+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.45036+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.59268+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.40910+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.09175+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.99813+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.8	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	82.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	82.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	82.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	82.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	92.8	GOOD	DEGF

Time: 0825
Message: 15

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room Controller

Simulated Plant Conditions: See the Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Fire Brigade captain should report to Control Room at this time that the fire in the Charging Pump Room is extinguished and that it was on the "C" charging pump motor. He should also report that the "A" charging pump is running normal with no apparent damage from the fire.

Anticipated Results:

- 1) Operators should inform the TSC of the fire being extinguished on the "C" charging pump and the condition of the "A" charging pump.
- 2) TSC should re-evaluate the Emergency Classification per EPIP 1-0. There should be no change of Emergency Classification.

Time: 0825
Message: 16

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Mechanics working on "C" Charging Pump Motor Fire Damage

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI SCENARIO

TITLE: "C" Charging Pump Motor Fire.
Scenario expected start time: 0825

INITIAL CONDITIONS:

The reported fire on the "C" charging pump is declared out by the Fire Brigade. Fire captain reports the fire was located in the motor of the charging pump.

METHOD OF INITIATION:

Control Room reports to the Emergency Coordinator that the fire is out and the "C" charging pump is out of service.

INDICATIONS:

CONTROL ROOM: Fire Zone 2-01 alarm was responded to by fire brigade, "C" charging pump trip from the fire, and Brigade Captain reports the fire in the motor has been put out.

LOCAL: Fire Brigade Captain reports the fire is out to Control Room.

EXPECTED SEQUENCE OF ACTIONS:

Trouble report is written to repair motor on "C" charging pump.

Planner puts together work order and package for major repair to vari-drive procedure M-11.4.4 and motor procedure M-45.0 .

Possible trouble-shooting inspection of unit by the planner and mechanic.

Check of inventory to see if replacement motor available for unit.

REPAIR TIME:

Dependent on: amount of time to have a new motor shipped in to replace the damaged unit, to have the stator sent out for rewind, or whether a rotor is in inventory control, unit will not be repaired for at least 1 month.

FINAL CONDITIONS: Clean up of Charging Pump Room by maintenance shop and machine shop and electrical shop evaluating the course of action to take for motor repair.

Time: 0825
Message: 17

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Electricians working on "C" Charging Pump Motor Fire Damage

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provided information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Charging Pump Room Fire (1C charging pump)
Expected scenario start time: 0825

INITIAL CONDITIONS:
Charging Pump 1C running.

METHOD OF INITIATION:
Fire Zone Alarm. Zone 2-01 (Aux Building 235-8 Basement, Charging Pump Room).
Charging Pump 1C breaker trips.

INDICATIONS:

CONTROL ROOM:
Fire Alarm Zone 2-01
Annunciator Window:
"J-25" Motor Off: CHP1A
"F-14" Charging Pump Speed

White (disagreement) light: CHP1A

BUS 16/POS15C Amptector: "Instantaneous" trip indication
If meggered - 0Ω to ground, $0 \Omega \phi$ to ϕ

CHP1A MOTOR: Smell of burnt insulation

EXPECTED SEQUENCE OF ACTIONS:
Investigate fire alarm, Zone 2-01, Auxiliary Building
• Smoke discovered in vicinity of Charging Motor 1C
• Auxiliary Operator/Electricians check CHP1C
• Discover Amptector "instantaneous" button is out
Obtain holds, clearances, and test equipment.
Simulate measuring resistance phase to phase and meggering motor from Bus 16/Pos 15C readings:
Megger readings: 0Ω Phase to ground
Phase to phase resistance 0Ω

FINAL CONDITIONS:
Motor requires replacement/rewinding due to shorted windings.

Time: 0825
Message: 18

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: I&C Working on "C" Charging Pump Motor Fire Damage

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION

1993 EXERCISE

MINI-SCENARIO

TITLE: "C" Charging Pump Room Fire
Expected scenario start time: 0825

INITIAL CONDITIONS:
Charging Pump "C" operational.

METHOD OF INITIATION:
Fire in Charging Pump Room.

INDICATIONS:
Solenoids 14306S and 14305S are charged and leaking air.

EXPECTED SEQUENCE OF ACTIONS:

Replace both Solenoids

FINAL CONDITIONS:

Both Solenoids are replaced and tested.

Time: 0830
Message: 19

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> /NO
N-31	<u>217</u> CPS
N-32	<u>206</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2251</u> PSIG
PRZR Level	<u>19.4</u> %
A RCP	<u>RUNNING</u> /STOPPED
B RCP	<u>RUNNING</u> /STOPPED
1A S/G Level	<u>36.5</u> %
1B S/G Level	<u>32.8</u> %
1A S/G Pressure	<u>1018</u> PSIG
1B S/G Pressure	<u>1014</u> PSIG
Turbine/Generator	<u>ONLINE</u> /OFFLINE
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED
480V Buses	<u>ENERGIZED</u> /DEENERGIZED
DC Batteries	A/ <u>30</u> VOLTS B/ <u>30</u> VOLTS
Cmnt Pressure	<u>0.23</u> PSIG
Cmnt Sump A Level	<u>1.4</u> FEET
Cmnt Sump B Level	<u><8</u> INCHES
A Loop Hot Leg	<u>550.2</u> °F
A Loop Cold Leg	<u>549.5</u> °F
B Loop Hot Leg	<u>550.2</u> °F
B Loop Cold Leg	<u>549.1</u> °F
RVLIS	<u>99.4</u> %
*CET	<u>550.0</u> °F
S/G A Total Aux FW Flow	<u>82</u> GPM
S/G B Total Aux FW Flow	<u>109</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 19.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	2.17270+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	2.06300+02	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.04232-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2251.	GOOD	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	19.4	LWRN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.4	GOOD	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.6	GOOD	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	103.5	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	36.5	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	32.8	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	1018.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	1014.	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 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	.23	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.4	GOOD	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	550.2	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	550.2	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	549.5	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	549.1	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	549.8	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	549.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	99.4	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	550.0	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	82.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	109.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	6.2	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	343.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	42.6	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	42.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.2	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.49262+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09030-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.66072+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.62648+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.51138+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.61516+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.45036+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.40910+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.99813+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	75.2	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	83.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	83.9	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	83.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	83.9	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	92.5	GOOD	DEGF

Time: 0845
Message: 20

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> NO
N-31	<u>213</u> CPS
N-32	<u>203</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2252</u> PSIG
PRZR Level	<u>21.2</u> %
A RCP	<u>RUNNING</u> /STOPPED
B RCP	<u>RUNNING</u> /STOPPED
1A S/G Level	<u>37.7</u> %
1B S/G Level	<u>37.1</u> %
1A S/G Pressure	<u>1017</u> PSIG
1B S/G Pressure	<u>1014</u> PSIG
Turbine/Generator	<u>ONLINE</u> /OFFLINE
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED
480V Buses	<u>ENERGIZED</u> /DEENERGIZED
DC Batteries	A <u>130</u> VOLTS B <u>130</u> VOLTS
Cnmt Pressure	<u>.24</u> PSIG
Cnmt Sump A Level	<u>1.4</u> FEET
Cnmt Sump B Level	<u>2.8</u> INCHES
A Loop Hot Leg	<u>550.2</u> °F
A Loop Cold Leg	<u>549.5</u> °F
B Loop Hot Leg	<u>550.2</u> °F
B Loop Cold Leg	<u>549.1</u> °F
RVLIS	<u>99.4</u> %
*CET	<u>550.0</u> °F
S/G A Total Aux FW Flow	<u>72</u> GPM
S/G B Total Aux FW Flow	<u>102</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED (STBY)/OOS
 B. RUNNING/UNLOADED (STBY)/OOS
 TSC RUNNING/UNLOADED (STBY)/OOS
 Security RUNNING/UNLOADED (STBY)/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. (INSERV)/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 68 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 94.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 94 %

Containment Recirc Fans

1A. (INSERV)/STBY/OOS
 1B. (INSERV)/STBY/OOS
 1C. (INSERV)/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. (INSERV)/STBY/OOS
 1B. (INSERV)/STBY/OOS
 1C. (INSERV)/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 84/75 PSIG

Component Cooling Water Pumps

1A. (INSERV)/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM
3	N31	SOURCE RANGE DETECTOR N-31	2.13550+02	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	2.03469+02	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.04232-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.03276-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2252.	GOOD PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	21.2	GOOD %
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	97.4	GOOD %
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	96.6	GOOD %
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	103.5	GOOD* DEGF
15	LS6A	STM GEN A NARROW RANGE AVG LEVEL	37.7	GOOD %
16	LS6B	STM GEN B NARROW RANGE AVG LEVEL	37.1	GOOD %
17	PS6A	STM GEN A AVERAGE PRESSURE	1017.	GOOD PSIG
18	PS6B	STM GEN B AVERAGE PRESSURE	1014.	GOOD PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM
23	BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL
24	BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM
27	PCV	CONTAINMENT AVERAGE PRESSURE	.24	GOOD PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.4	GOOD FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD
39	T0409A	RCLA HOT LEG TEMPERATURE	550.2	GOOD DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	550.2	GOOD DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	549.5	GOOD DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	549.1	GOOD DEGF
43	TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	549.8	GOOD DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	549.6	GOOD DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	99.4	GOOD %
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	550.0	GOOD* DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	72.	GOOD GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	102.	GOOD GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD
51	V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD
52	V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	84.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	75.	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.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.7	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	342.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	42.6	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	42.9	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.81048-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.62382+00	GOOD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.91742+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.02920+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.65481+02	GOOD	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.57806+02	GOOD	CPM
16 R12	CONTAINMENT GAS MONITOR	2.59268+02	GOOD	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.63474+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.48313+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.64774+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.11348+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.75130-01	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.45797+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	86.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	89.4	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	89.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	89.4	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	89.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	92.4	GOOD	DEGF

Time: 0910-0915
Message: 21

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

The following annunciators are received:

- ° D-20 (Pressurizer Lo Press Trip 1873 psi)
- ° D-19 (Pressurizer Lo Press SI 1750 psig)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) All safeguards equipment operates normally except the "B" SI Pump. It is out for maintenance.
- 2) SI flow is greater than 100 GPM.

Actions Expected:

- 1) Operators should perform the immediate and subsequent actions of E-O (Reactor Trip or Safety Injection).
- 2) Operators should inform TSC of the loss of coolant accident.
- 3) TSC should declare a SITE AREA EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification," EAL: Reactor Coolant Leakage (RCS); LOCA identified inside Containment and SI total flow > 100 GPM using FI-924/FI-925. Appropriate notifications should be made per EPIP 1-5.
- 4) TSC should be expediting the maintenance on the "B" SI pump.
- 5) EOF should be activating at this time, if not done earlier.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES)</u> /NO
N-31	<u>12.749</u> CPS
N-32	<u>12.793</u> CPS
N-35	<u>4.4E-10</u> AMPS
N-36	<u>3.6E-10</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>704</u> PSIG
PRZR Level	<u>0.0</u> %
A RCP	<u>RUNNING</u> /STOPPED
B RCP	<u>RUNNING</u> /STOPPED
1A S/G Level	<u>38.8</u> %
1B S/G Level	<u>43.6</u> %
1A S/G Pressure	<u>1010</u> PSIG
1B S/G Pressure	<u>1002</u> PSIG
Turbine/Generator	<u>ONLINE</u> /OFFLINE
4 KV Buses	<u>(ENERGIZED)</u> /DEENERGIZED
480V Buses	<u>(ENERGIZED)</u> /DEENERGIZED
DC Batteries	A/ <u>32</u> VOLTS B/ <u>30</u> VOLTS
Cmnt Pressure	<u>28.4</u> PSIG
Cmnt Sump A Level	<u>16.2</u> FEET
Cmnt Sump B Level	<u>< 8</u> INCHES
A Loop Hot Leg	<u>512.7</u> °F
A Loop Cold Leg	<u>354.3</u> °F
B Loop Hot Leg	<u>516.9</u> °F
B Loop Cold Leg	<u>261.3</u> °F
RVLIS	<u>54.3</u> %
*CET	<u>507.0</u> °F
S/G A Total Aux FW Flow	<u>49</u> GPM
S/G B Total Aux FW Flow	<u>51</u> GPM

DIESEL GENERATORS

A. (RUNNING/UNLOADED)/STBY/OOS
 B. (RUNNING/UNLOADED)/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 Turb. Driven INSERT/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 163 GPM
 FI-925 281 GPM
 1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 1C. (INSERT)/STBY/OOS
 BAST Level = 37 %

Low Head S.I. Pumps

FI-626 GPM
 1A. (INSERT)/STBY/OOS/RECIRC
 1B. (INSERT)/STBY/OOS/RECIRC
 RWST Level = 93.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 NaOH Tank Level = 93 %

Containment Recirc Fans

1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 1C. (INSERT)/STBY/OOS
 1D. (INSERT)/STBY/OOS
 Post Accident Dampers (OPEN)/CLOSED

Service Water Pumps

1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 1C. (INSERT)/STBY/OOS
 1D. (INSERT)/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. (INSERT)/STBY/OOS
 1B. (INSERT)/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. (INSERT)/STBY/OOS
 1D. (INSERT)/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.27497+04	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.27937+04	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	4.46682-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	3.64755-10	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	704.	HALN	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	INDRE TC SUBCOOLED MARGIN	-8.9	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	38.8	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	43.6	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	1010.	GOOD	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	1002.	GOOD	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	28.35	HALN	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	16.2	HALN	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37 L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38 L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39 T0409A	RCLA HOT LEG TEMPERATURE	512.7	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	516.9	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	354.3	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	201.3	GOOD	DEGF
43 TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	433.5	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	361.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	54.3	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	507.0	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	49.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	51.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50 BKR082	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	163.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	281.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	884.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	93.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	356.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.3	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.9	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.6	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.09029+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.66072+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.14412+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.57744+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01303+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	8.45036+00	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.40910+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.99813+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	203.1	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	215.8	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	215.7	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	215.8	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	215.7	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	228.2	GOOD	DEGF

Time: 0910
Message: 22

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Auxiliary Operator/TSC Team checking Auxiliary Building Sub-Basement for RHR System leakage per E-1 and "B" RHR pump trip problem.

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provided information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Checking Auxiliary Building Sub-Basement for RHR system leakage per E-1 and "B" RHR Pump trip problem.
Expected scenario start time: 0910 hours

INITIAL CONDITIONS:

- ° RCS has experienced a large break LOCA.
- ° "A" and "B" RHR pumps running.

METHOD OF INITIATION:

- ° Step 18 of E-1 dispatches an Auxiliary Operator/TSC Team to check the Auxiliary Building Sub-Basement for RHR System leakage.
- ° It is expected that this action will be requested in conjunction with the checking of the tripping of the "B" RHR pump at 0915 hours.

INDICATIONS:

CONTROL ROOM:

- ° Alarm window J-9 (Safeguard Breaker Trip).

EXPECTED SEQUENCE OF ACTIONS:

- ° Investigate Auxiliary Building Sub-Basement for signs of RHR system leakage.
- ° Notice water dripping from the large pipe between Containment and MOV-850A.
- ° Notice, after closer inspection of the dripping water, what appears to be an approximately 3 inch crack at the bottom of the pipe.
- ° Notice that radiation levels in the area are increasing rapidly.

- ° Investigate "B" RHR pump for signs of any problems:
- ° Notice burnt insulation smell.
- ° Notice motor is hot to the touch.
- ° Report all of the above observations to the Control Room/TSC at 1000 Hours (i.e. not before or not after).

FINAL CONDITIONS:

Observations are reported to Control Room at 1000 Hours and Auxiliary Operator/TSC Team leaves the area immediately due to increasing radiation.

Time: 0915
Message: 23

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following annunciator is received:

- J-9 (Safeguard Breaker Trip)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When board operators check Control Board, inform them that the "B" RHR pump switch light indicates a white light.
- 2) Operators should attempt to restart the "B" RHR pump 5 times per AR-J-9. IT WILL NOT RESTART.

Anticipated Results:

- 1) Operators should try to restart the "B" RHR pump 5 times per AR-J-9. IT WILL NOT RESTART.
- 2) Operators should notify an Auxiliary Operator to check the "B" RHR pump and motor. An Auxiliary Operator may already be in the Auxiliary Building per step 18C of E-1.
- 3) Operators should notify the TSC of the tripping and failure to restart of the "B" RHR pump.

- 4) Operators performing the applicable actions of E-1.
- 5) TSC should send a team into Auxiliary Building to check out the "B" RHR pump if Auxiliary Operator not already in there.
- 6) TSC should be evaluating the loss of safeguards equipment and be expediting repairs as quickly as possible.
- 7) TSC should be informing the EOF of plant status, actions being taken and any required needs.
- 8) EOF should be evaluating plant conditions and taking actions as required.

Time: 0920
Message: 24

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following annunciator is received:

- J-24 (Emergency Diesel Gen 1A Panel)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When board operators check Control Board, inform them that the "A" Emergency Diesel Generator indicates no voltage.

Anticipated Results:

- 1) Operators should send an Auxiliary Operator out to the "A" Emergency Diesel Generator Room to check the local alarm panel and the Emergency Diesel Generator.
- 2) Operators should inform the TSC of the tripping out of the "A" Emergency Diesel Generator.

Time: 0920
Message: 25

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Auxiliary Operator checking "A" Emergency Diesel Generator Local Alarm Panel and the Emergency Diesel Generator.

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Checking "A" Emergency Diesel Generator Local Alarm Panel and the Emergency Diesel Generator.
Expected scenario start time: 0920 Hours

INITIAL CONDITIONS:

- "A" Emergency Diesel Generator running due to a safety injection activation at 0910 hours.
- Safety Injection was activated due to an RCS large break LOCA.

METHOD OF INITIATION:

- "A" Emergency Diesel Generator trips out at 0920 due to low level lube oil pressure.
- Control Room requests Auxiliary Operator to check the local alarm panel and the emergency diesel generator.

INDICATIONS:

CONTROL ROOM:

- Alarm window J-24 (Emergency Diesel Generator 1A Panel).
- No voltage on "A" Emergency Diesel Generator.

LOCAL:

"Lube Oil Low Pressure" Alarm.

EXPECTED SEQUENCE OF ACTIONS:

- Investigate "A" Emergency Diesel Generator local alarm panel and "A" Emergency Diesel Generator for signs of trouble.
- Notice on Local Alarm Panel a "Lube oil low pressure" alarm.
- Notice a large amount of oil on the floor by the large lube oil filter on the east side of engine.

° Notice engine oil level extremely low if he checks engine oil level.

° Report all of the above observations to the Control Room/TSC at 0935 hours.

FINAL CONDITIONS:

Observations are reported to Control Room/TSC at 0935 hours.

Time: 0925
Message: 26X

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Emergency Coordinator

Simulated Plant Conditions:

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

Declare a SITE AREA EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification; EAL: Reactor Coolant Leakage (RCS): LOCA Identified Inside Containment and SI Total Flow > 100 GPM using FI-924/FI-925.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Deliver only if SITE AREA EMERGENCY has not been declared. Do not deliver if emergency classification discussions are in progress.

Anticipated Results:

- 1) Deliver contingency message if SITE AREA EMERGENCY not declared or is not being discussed.

Time: 0930
Message: 27

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Anticipated Results:

1) Operators performing the applicable actions of E-1.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES/NO)</u>
N-31	<u>40</u> CPS
N-32	<u>41</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>39</u> PSIG
PRZR Level	<u>0.0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>42.7</u> %
1B S/G Level	<u>47.7</u> %
1A S/G Pressure	<u>885</u> PSIG
1B S/G Pressure	<u>869</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>(ENERGIZED/DEENERGIZED)</u>
480V Buses	<u>(ENERGIZED/DEENERGIZED)</u>
DC Batteries	<u>A/30 VOLTS B/30 VOLTS</u>
Cmnt Pressure	<u>4.91</u> PSIG
Cmnt Sump A Level	<u>31.2</u> FEET
Cmnt Sump B Level	<u>>78<113</u> INCHES
A Loop Hot Leg	<u>271.5</u> °F
A Loop Cold Leg	<u>148.8</u> °F
B Loop Hot Leg	<u>273.4</u> °F
B Loop Cold Leg	<u>131.2</u> °F
RVLIS	<u>74.4</u> %
*CET	<u>265.1</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>17</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 Turb. Driven INSERT/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 185 GPM
 FI-925 380 GPM
 1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 1C. (INSERT/STBY/OOS)
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1400 GPM
 1A. (INSERT/STBY/OOS/RECIRC)
 1B. (INSERT/STBY/OOS/RECIRC)
 RWST Level = 78.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 NaOH Tank Level = 80 %

Containment Recirc Fans

1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 1C. (INSERT/STBY/OOS)
 1D. (INSERT/STBY/OOS)
 Post Accident Dampers (OPEN/CLOSED)

Service Water Pumps

1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 1C. (INSERT/STBY/OOS)
 1D. (INSERT/STBY/OOS)
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. (INSERT/STBY/OOS)
 1B. (INSERT/STBY/OOS)
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. (INSERT/STBY/OOS)
 1D. (INSERT/STBY/OOS)

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRN
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRN
3	N31	SOURCE RANGE DETECTOR N-31	4.01328+01	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	4.15431+01	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	39.	LALN 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	ALRN
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRN
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	5.9	LWR* DEGF
15	LSSA	STM GEN A NARROW RANGE AVG LEVEL	42.7	GOOD %
16	LSSB	STM GEN B NARROW RANGE AVG LEVEL	47.7	GOOD %
17	PSGA	STM GEN A AVERAGE PRESSURE	885.	GOOD PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	869.	GOOD PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRN
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRN
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRN
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRN
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	ALRN
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRN
27	PCV	CONTAINMENT AVERAGE PRESSURE	4.91	HALN 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	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	ALRN
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	ALRN
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	271.5	GOOD DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	273.9	GOOD DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	148.8	GOOD DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	131.2	GOOD DEGF
43	TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	210.1	GOOD DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	202.5	GOOD DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	74.4	LALN %
46	TCORE	E1.1 INCORE TC AVERAGE TEMP	265.1	GOOD* DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	17.	GOOD GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD
50	BKR082	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	185.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	380.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	78.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.6	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	295.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.3	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	44.0	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.7	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.81048-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	8.26987+03	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.66072+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.90068+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.95683+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	9.99992+06	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.23027+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.48313+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	7.03879+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.09175+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.99813+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	138.4	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	135.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	135.6	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	135.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	135.6	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	133.1	GOOD	DEGF

Time: 1000-1500

Message: 27.1

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: TSC Emergency Coordinator, EOF/Recovery Manager and Support Staff

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

Please provide appropriate responses to the following questions/issues raised by simulated NRC staff:

1. What is the status of emergency?
2. What if any PAR's have been recommended?
3. NRC response team members will be arriving in Rochester; please assure adequate working space at EOF (2 people), TSC (2 people) and JENC (1).
4. Please provide qualified staff member to man the HPN line in the EOF.
5. Please have most recent radiological and meteorological data provided via the HPN line or by fax.
6. How many EBS messages have been issued?
7. What PARS have been implemented by the Counties and NYS?

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Deliver throughout the Exercise between 0930-1400 hrs per Controller discretion.
- 2) Deliver by telephone call or by speed message.

Actions Expected:

- 1) TSC Emergency Coordinator or EOF/Recovery Manager should be responsive to information requests, but should not allow the simulated NRC staff member to prevent them from attending to their principal duties.

Time: 0935
Message: 28

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Repair Teams Repairing "A" Emergency Diesel Generator Problem.

Simulated Plant Conditions: See the Attached Mini-Scenarios

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenarios.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: "A" Emergency Diesel Generator.
Scenario expected start time: 0935

INITIAL CONDITIONS:

The diesel generator tripped on a "Lube Oil Low Pressure" at 0920 after being started at 0910 from a safety injection activation.

METHOD OF INITIATION:

Remote alarm in the Control Room on "A" Diesel Generator. Auxiliary Operator reports on Low Pressure on Lube Oil was cause for trip, this is reported to Emergency Coordinator of Diesel failure.

INDICATIONS:

CONTROL ROOM: Alarm on "A" Diesel Generator

LOCAL: "Lube Oil Low Pressure" alarm at 45 psi indicator flashing.

Oil on floor near lube oil filter and under engine.

EXPECTED SEQUENCE OF ACTIONS:

Trouble report written for repair of "A" Diesel Generator.

Planner and Mechanic sent to Diesel Room to trouble shoot problem with unit.

Team reports back of flange failure at 1005 hours, work order developed to replace gasket and refill the engine with lube oil.

Maintenance crew sent to Diesel Room to clean up the oil spill.
(1 ½ hours to complete)

Inventory control personnel make arrangements to go to warehouse off site to bring in lube oil for Diesel Delvac 1240. Security will need to be contacted to allow for transporting oil through gate.

Procedure M-15.2 "A" or "B" Diesel Generator Minor Inspection

and Maintenance Change Flex Hose on Lube Oil System.

M-37.130 Disassemble & Reassemble of Pipe Flange Connections.

Steam Fitters and Machinist go to shops for tools and gasket material to replace failed gasket and return oil to sump.

Gasket is replaced by fitters in a 1 hour time frame. The machinist add oil to engine after oil arrives from warehouse. (1 hour to pump in 225 gals of cold oil).

Oil level in sump returned to proper level, line up of engine made by operation to put unit back into service.

REPAIR TIME:

The repairs to the engine to be completed by 1145, estimate of 2½ hours to complete. (Note: this time frame may not be long enough due to the oil being stored in offsite warehouse in real conditions.)

FINAL CONDITIONS:

1A Diesel Generator is back in service supplying power for the scenario. (1155 hours)

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: "A" Emergency Diesel Generator Problem from Low Lube Oil Pressure.
Scenario expected start time: 0935

INITIAL CONDITIONS:

Started automatically because of Safety Injection actuation, tripped out at 0920 hours.

METHOD OF INITIATION:

Tripped out, operations sent out Auxiliary Operator to investigate.

INDICATIONS:

- * "A" Emergency Generator tripped out at 0920 hours.
- * Auxiliary Operator checks local alarm, low lube oil pressure.
- * Located large amount of oil on floor by the large lube oil filter on east side of the engine.

EXPECTED SEQUENCE OF ACTIONS:

- * Repair team investigation finds oil leak on flange between pump and oil filter.
- * Reports to TSC at 1005 hours approximately 2½ hours for repairs, and obtains holds as required for maintenance.
- * Fitters simulates installing new gasket.
- * Inventory Control transporting oil from storage.
- * Mechanics simulates replacing oil as required.
- * Maintenance to clean area as required for safe operation.

FINAL CONDITIONS:

At 1145 hours the repair team will report to TSC that the Generator repairs on "A" Diesel will be completed in approximately 15 minutes.

At 1155 hours the repair team will report that repairs are completed.

Time: 0945

Message: 29

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) At 0935 hours the Auxiliary Operator checking the "A" Emergency Diesel Generator trip problem reports his observations to Control Room/TSC. See message #25.

Anticipated Results:

- 1) Operators should inform TSC of "A" Emergency Diesel Generator problem.
- 2) TSC should send a repair team out to evaluate and repair the "A" Emergency Diesel Generator problem.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>41</u> CPS
N-32	<u>37</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>34</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>43.1</u> %
1B S/G Level	<u>48.1</u> %
1A S/G Pressure	<u>847</u> PSIG
1B S/G Pressure	<u>825</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	A <u>132</u> VOLTS B <u>130</u> VOLTS
Cmnt Pressure	<u>0.96</u> PSIG
Cmnt Sump A Level	<u>31.2</u> FEET
Cmnt Sump B Level	<u>180/13</u> INCHES
A Loop Hot Leg	<u>254.2</u> °F
A Loop Cold Leg	<u>142.2</u> °F
B Loop Hot Leg	<u>269.7</u> °F
B Loop Cold Leg	<u>142.2</u> °F
RVLIS	<u>78.1</u> %
*CET	<u>248.4</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>1</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Turb. Driven INSERT/STBY/OOS
 CST Level 19.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 163 GPM
 FI-925 293 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1400 GPM
 1A. INSERT/STBY/OOS/RECIRC
 1B. INSERT/STBY/OOS/RECIRC
 RWST Level = 59.9 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 NaOH Tank Level = 70 %

Containment Recirc Fans

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERT/STBY/OOS
 1B. INSERT/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERT/STBY/OOS
 1D. INSERT/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRN
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRN
3	N31	SOURCE RANGE DETECTOR N-31	4.12570+01	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.71962+01	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	34.	LALN 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	ALRN
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRN
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	16.8	LWR* DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	43.1	GOOD %
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	48.1	GOOD %
17	PSGA	STM GEN A AVERAGE PRESSURE	847.	GOOD PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	825.	GOOD PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRN
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRN
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRN
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRN
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	ALRN
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRN
27	PCV	CONTAINMENT AVERAGE PRESSURE	.96	HWRN 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	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	ALRN
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRN
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	254.2	GOOD DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	269.7	GOOD DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	158.4	GOOD DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	142.2	GOOD DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	206.3	GOOD DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	206.0	GOOD DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	78.1	LALN %
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	248.4	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	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD
50	BKR082	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	163.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	293.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	59.9	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.4	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	8.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	45.0	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.5	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.33255-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	8.03526+03	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.03739+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.91742+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.01995+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.87136+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.01741+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	1.02182+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	2.90486+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.24990+02	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.06844+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.11348+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.45797+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	98.5	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	94.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	93.9	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	94.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	93.9	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	89.4	GOOD	DEGF

Time: 0950
Message: 30

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room Controller

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) If operators check Auxiliary Building Radiation Monitors, inform them that they are beginning to increase slowly.

Anticipated Results:

- 1) Operators performing the applicable actions of E-1.
- 2) Operators should inform the TSC of increasing radiation levels in the Auxiliary Building if they notice them increasing.
- 3) TSC should be evaluating plant conditions and taking actions where required.
- 4) TSC should be informing the EOF of plant status, actions being taken and any required needs.
- 5) TSC should be evaluating the increase of radiation in the Auxiliary Building as to its source and its effect on personnel that may be in the Auxiliary Building (assuming they are cognizant of the increase).

- 6) EOF should be evaluating plant conditions and taking actions as required.
- 7) EOF Dose Assessment should be evaluating the increasing radiation levels in the Auxiliary Building (assuming they are cognizant of the increase).
- 8) Repair teams should be performing actions as required to return equipment to service as soon as possible.

Time: 1000
Message: 31

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room Controller

Simulated Plant Conditions: See the Attached Event 2 Sheet

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The Auxiliary Operator and/or TSC Team in the Auxiliary Building to check the Auxiliary Building Sub-Basement per step 18C of E-1 and the "B" RHR pump trip problem reports his observations to the Control Room/TSC. (See message #22).

Anticipated Results:

- 1) If the Control Room is informed, the operators should inform the TSC of observed dripping water and crack on the pipe between CNMT and MOV-850A.
- 2) Operators performing the applicable actions of E-1.
- 3) When TSC requests Control Room to close MOV-851A, Control Room should request TSC to send a team into Auxiliary Building to turn the breaker on for MOV-851A as it is turned off during operation. Note: If breaker is turned on prior to Bus 14 tripping, the breaker will trip as valve comes off of its backseat.

- 4) TSC should be evaluating the dripping and cracked pipe and request Control Room to close MOV-851A to isolate the leak from Containment.
- 5) TSC should be evaluating the increasing radiation levels in the Auxiliary Building and possibly evacuate the building.
- 6) EOF Dose Assessment should be evaluating the increasing radiation levels in the Auxiliary Building.

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	892.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	41.0	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	7.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	17.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.5	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	8.03526+03	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	2.95121+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.91742+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.98539+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.87136+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.00867+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	1.03962+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	4.98310+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.59268+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.95828+02	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.11348+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.00638+00	GOOD	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.45797+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UEI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.67992-02	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	GOOD	UEI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99987-04	GOOD	UEI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	2.30991-06	GOOD	UEI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UEI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UEI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UEI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.60975-05	GOOD	UEI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UEI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	82.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	81.7	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	81.7	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	81.7	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	81.7	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	81.3	GOOD	DEGF

Time: 1005
Message: 32

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: TSC Controller

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Repair team sent out to check the "A" Emergency Diesel Generator problem reports back their observations, repair strategy and repair times. See message #28.

Anticipated Results:

- 1) TSC should inform the "A" Emergency Diesel Generator repair team to expedite repairs.
- 2) TSC should inform the EOF of the "A" Emergency Diesel Generator repair team to expedite repairs.
- 3) TSC should inform the EOF of the "A" Emergency Diesel Generator problem and the estimated repair time.
- 4) EOF should be assuming command and control at approximately this time.

Time: 1005
Message: 33

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciators are required:

- J-29 (480V Transformer Trip)
- J-7 (480V Main or the Tie Breaker Trip)
- J-9 (Safeguard Breaker Trip)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When Board Operators check the Control Room Board inform them that the Bus 14 high side and low side breaker switches indicate white lights and Bus 14 indicates "O" voltage. Also indications of Safety Injection to the core indicates no flow.

Anticipated Results:

- 1) Operators should inform the TSC of the loss of Bus 14 and Safety Injection to the core.
- 2) Operators should try to start the "C" SI Pump on Bus 16. If they do, the breaker will keep tripping out. They may also transfer the "B" instrument Bus to the maintenance supply.

- 3) TSC should inform the EOF of the loss of Bus 14 and Safety Injection to the core.
- 4) TSC should be evaluating the time to core uncover and request that the EOF evaluate this time also.
- 5) TSC may send a team into the Auxiliary Building to turn on the breaker for MOV-851A.
- 6) TSC may send a team into the Auxiliary Building to check on the loss of Bus 14.
- 7) TSC should try to expedite the repair of the "A" Emergency Diesel Generator.
- 8) TSC should recommend to the EOF that A GENERAL EMERGENCY should be declared in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification; EAL: Reactor Coolant Leakage (RCS); LOCA Identified Inside CNMT and no ECCS Delivery to the RCS.
- 9) TSC should be evaluating possible methods of water injection to the core, such as cross-tying Bus 14 and Bus 16 or using the "B" Reactor Coolant Drain Tank pump. If TSC decides to cross-tie Bus 14-16, one of the two tie-breakers will not close. If TSC decides to use the "B" Reactor Coolant Drain Tank pump, the suction strainer will plug after approximately 2 minutes of operation and will have to be cleaned prior to any further use.
- 10) EOF, after evaluating plant conditions, should declare a GENERAL EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification, "EAL: Reactor Coolant Leakage (RCS); LOCA Identified Inside CNMT and no ECCS Delivery to the RCS. Appropriate notifications should be made per EPIP 1-5.
- 11) EOF should be making immediate protective action recommendations in accordance with EPIP 2-1, "Protective Action Recommendations".
- 12) Repairs teams performing actions as required to return equipment to service as soon as possible.

Time: 1005
Message: 34

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Repair Team Checking Loss of Bus 14/Bus 14 Transformer Problem

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information when appropriate actions are simulated or investigations conducted.

Actions Expected:

- 1) As per Mini-Scenario.

GINNA STATION

1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Loss of Bus 14/Bus 14 Transformer
Expected scenario start time: 1005

INITIAL CONDITIONS:

Bus 14 energized. Thermography performed on Bus 14 at 0730 indicates a hot spot on transformer high side connection (Phase A).

METHOD OF INITIATION:

Bus 14 supply breaker opens (52/14SS).

INDICATIONS:

CONTROL ROOM: ° Annunciator Windows:
"J-7" 480V main or tie breaker trip
"L-14" Bus 14 under voltage safeguards

° White (disagreement) lights:
52/14SS Highside breaker
52/14 Lowside breaker

Bus 12A/Unit 15: ° "50G" Relay tripped (red flag showing)

Bus 14/Unit 18B: ° No abnormal indications, "as found"

Bus 14 Trans: ° Phase A connection on the transformer is charred and tracking to ground.

EXPECTED SEQUENCE OF ACTIONS:

■ Repair team forms to:

- ° Inspect Bus 14
- ° Inspect Bus 14 transformer

- Check Bus 14, 480V supply breaker indications
- Check Bus 14, 4KV supply breaker indications
- Obtain holds, clearances, test equipment, and safety equipment.
- Simulate meggering station service transformer from Bus 12A/Unit 15 readings:

Megger readings: 0 Ω phase to ground (phase A)
100 Gig Ω to ground (phase B&C)

Phase to phase resistance < 1 Ω

- Simulate meggering Bus 14, readings:

Megger readings: 150 Gig Ω to ground
100 Gig Ω (phase-phase)

FINAL CONDITIONS:

Station service Transformer 14 out of service and requires replacement.

Time: 1005
Message: 35

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Repair Team Checking Loss of Safety Injection Pump "C" Problem.

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Loss Of Safety Injection Pump 1C (SIPC)
Expected scenario start time: 1005

INITIAL CONDITIONS:

Safety Injection Pump 1C is not running

METHOD OF INITIATION:

SIP1C pump fails to start when attempted from either supply (Bus 14 or 16).

INDICATIONS:

CONTROL ROOM:

- Bus 16 power supply breaker (SIP1C1) opens
- White disagreement light, Bus 16
- Bus 14 deenergized

NOTE

When Bus 14 is reenergized, if SIP1C2 breaker (Bus 14 supply) is attempted to shut, trips open immediately, white disagreement light.

Bus 16/POS13A: ◦ Amptector: "Instantaneous" trip indication
◦ If meggered - 0 Ω to ground, 0 Ω ϕ to ϕ

SIP1C Motor: ◦ Smell of burnt insulation

EXPECTED SEQUENCE OF ACTIONS:

- Repair team and Auxiliary Operator investigates loss of SI pump 1C.
 - Light smoke discovered in vicinity of SI motor 1C
 - Auxiliary Operator/Electricians check SIP1C
 - Discover Amptector "instantaneous" button is out

- Obtain holds, clearances, and test equipment
- Simulate measuring resistance phase to phase and meggering motor from Bus 16/Pos 13A readings:
 - Megger readings: 0 Ω Phase to ground
 - Phase to phase resistance 0 Ω

FINAL CONDITIONS:

Motor requires replacement/rewinding due to grounded windings.

Time: 1005
Message: 36

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Repair Team Checking Bus 14-16 Tie Breaker Failure Problem

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information when appropriate actions are simulated or investigation conducted.

Anticipated Results:

- 1) As per Mini-Scenario

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Bus 14-16 Tie Breaker Failure (Bus 16)
Expected scenario time: 1005

INITIAL CONDITIONS:

Bus tie breaker 14-16 (Bus 16 open)

METHOD OF INITIATION:

- ° Loss of Bus 14 and "A" Diesel Generator is out of service.
- ° TSC orders the 14-16 Bus tie breakers closed.
Mechanically (Bus 14 & 16).

NOTE:

Operation of 14-16 Bus tie breaker from control requires jumpering of contacts in the control circuitry.
This breaker **MUST NOT** be repaired and returned to service until Emergency Diesel Generator "A" is supplying Bus 14 (approx 1220).

INDICATIONS:

CONTROL ROOM: ° No indications

Bus 16/POS12C: ° Breaker "trips free" when manually shut and will not latch shut.

Bus 14/POS19C: ° Amptector: as found.
° Breaker operates normally.

EXPECTED SEQUENCE OF ACTIONS:

- Repair forms to:
 - ° Determine how/if possible to defeat interlocks to operate Bus 14-16 tie breaker (Bus 16) from control.
- Form team to operate Bus 14-16 tie breakers locally.
 - ° Obtain Health Physics coverage and dosimetry.
 - ° Obtain key for operation of Bus 14 tie breaker.

- Simulate operating Bus 14-16 tie breaker (Bus 14).
- Simulate attempting to operate Bus 14-16 tie breaker (Bus 16).

FINAL CONDITIONS:

Bus 14-16 breaker (Bus 16) open and will not shut (will not latch shut).

Time: 1005
Message: 37

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Repair Team Checking out Bus 14-13 Tie Breaker Problem

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Bus 14-13 Tie Breaker Failure (Bus 14)
Expected scenario start time: 1005

INITIAL CONDITIONS:

Bus tie breaker 14-13 (Bus 14) open.

METHOD OF INITIATION:

- ° Loss of Bus 14 and "A" Diesel Generator is out of service.
- ° TSC orders the 14-13 bus tie breakers closed mechanically (Bus 14 & 13).

NOTE:

Operation of 14-13 bus tie breaker (Bus 14) from control requires jumpering of contacts in the control circuitry.
This breaker MUST NOT be repaired and returned to service until Emergency Diesel Generator "A" is supplying bus 14 (approx 1220).

INDICATIONS:

CONTROL ROOM:

- ° Bus 14-13 (Bus 13) tie breaker light indicates correctly.
- Bus 14/POS19B: ° Breaker "trips free" when manually shut and will not latch shut.
- Bus 13/POS10C: ° Amptector: as found
° Breaker operates normally.

EXPECTED SEQUENCE OF ACTIONS:

- Repair team forms to:
 - ° Determine how/if possible to defeat interlocks to operate Bus 14-13 tie breaker (Bus 14) from control.
- Form team to operate Bus 14-13 tie breaker locally.
 - ° Obtain Health Physics coverage and dosimetry.

- ° Obtain key for operation of Bus 14 tie breaker.
- Simulate operating Bus 14-13 tie breaker (Bus 13).
- Simulate attempting to operate Bus 14-13 tie breaker (Bus 14).

FINAL CONDITIONS:

Bus 14-13 breaker (Bus 14) open and will not shut (will not latch shut).

Time: 1005
Message: 38

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Auxiliary Operator/TSC Team turning on AC Breaker for MOV-851A

Simulated Plant Conditions: See the Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE
MINI-SCENARIO

TITLE: Turning on AC Breaker for MOV-851A
Expected scenario start time: 1005

INITIAL CONDITIONS:

- ° RCS has experienced a large break LOCA.
- ° Step 18 of E-1 dispatches an Auxiliary Operator/TSC team to check the Auxiliary Building Sub-Basement for RHR system leakage.
- ° Auxiliary Operator/TSC team observes water dripping and what appears to be a 3 inch long crack at the bottom of the pipe between Containment and MOV-850A. The above observations are reported to the Control Room/TSC at 1000 hours.

METHOD OF INITIATION:

- ° The Control Room/TSC may, after learning of the dripping water and cracked pipe, request the Auxiliary Operator/TSC team to turn on the AC Breaker to MOV-851A so it may be closed.

INDICATIONS:

CONTROL ROOM: ° MOV-851A open.

LOCAL: ° MOV-851A AC Breaker locked in off position.

EXPECTED SEQUENCE OF ACTIONS:

- ° Obtain locked valve key from Shift Supervisor.
- ° Proceed to Auxiliary Building operating floor at MCC-1C position 10M.
- ° Unlock and turn on AC Breaker to MOV-851A.
- ° Report to Control Room/TSC the AC power to MOV-851A is on.

NOTE: Auxiliary Operator/TSC team controller will coordinator with simulator operators when breaker is turned on to MOV-851A.

FINAL CONDITIONS:

- ° MOV-851A Ac power breaker is turned on and this is reported to the Control Room/TSC.

Time: 1005
Message: 39

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: TSC/Control Room Auxiliary Operator lining up "B" RCDT Pump to Containment Sump "B" or the RWST.

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION

1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Lining up of the "B" RCDT Pump to CNMT Sump B or the RWST.
Expected scenario start time: 1005

INITIAL CONDITIONS:

- ° RCS has experienced a large break LOCA.
- ° At 1005 hours Bus 14 normal supply breaker tripped and the "A" Emergency Diesel Generator could not tie in as it was out for emergency maintenance.
- ° Because of the above and other equipment out of service, all safety injection to the core is lost.
- ° All Safety Injection pumps available are powered by Bus 14.

METHOD OF INITIATIONS:

- ° The TSC, as an emergency action, may request that the "B" RCDT pump be lined up to pump from either Containment sump "B" or RWST to the core.

INDICATIONS:

- ° No safety injection to the core with a large break LOCA in progress.
- ° Radiation levels are extremely high in the Auxiliary Building.

EXPECTED SEQUENCE OF ACTIONS:

- ° Containment Sump "B" Line-up:
- ° Obtain a copy of ER-RHR.1 (RCDT Pump Operation for Core Cooling) and simulator alignment of the "B" RCDT pump per the post accident sump recirculation section.
- ° Inform TSC/Control Room when alignment is complete.

NOTE: TSC/Control Room Auxiliary Operator controller will coordinate with simulator operator when RCDT pump from

Containment sump is simulated lined up.

- ° RWST Line-up:
- ° Using P&ID's 33013-1247 and 33013-1272 sheet 2 of 2, research and simulate lining up "B" RCDT from RWST to the core.
- ° Inform TSC/Control Room when alignment is complete.

NOTE: TSC/Control Room Auxiliary Operator controller will coordinate with simulator operator when RCDT pump from RWST is simulated lined up.

FINAL CONDITIONS:

- ° If "B" RCDT pump is aligned and started, its suction strainer will plug in approximately 2 minutes.

Time: 1005
Message: 40

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Pipefitters Cleaning "B" RCDT Pump Suction Strainer

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Anticipated Results:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Cleaning of "B" RCDT Pump Suction Strainer
Expected scenario start time: 1005

INITIAL CONDITIONS:

Bus 14 tripped out and the "A" Emergency Diesel Generator could not tie in, and all safety injection to core is lost.

METHOD OF INITIATION:

As an emergency action, the TSC may request the Control Room to line up the "B" RCDT pump.

INDICATIONS:

- "B" RCDT Pump Suction Strainer is plugged.

EXPECTED SEQUENCE OF ACTIONS:

- Operation aligns "B" RCDT pump for service
- Pump strainer will plug after two minutes of operation.
- High levels of radiation in Auxiliary Building.
- Fitters on standby for cleaning suction strainer.

FINAL CONDITIONS:

- At 1220 hours "A" Emergency Diesel Generator is supplying Bus 14.
- Suction strainer on "B" RCDT pump no longer requires cleaning.

Time: 1015
Message: 41

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Core exit thermocouples and R-29, R-30 start increasing and RVLIS starts decreasing.

Anticipated Results:

- 1) Operators should inform the TSC of the increasing core exit thermocouples, the increasing radiation in Containment, and the decreasing RVLIS.
- 2) Operators should perform the applicable actions of FR-C.1 (Response to inadequate Core Cooling) when required.
- 3) TSC should evaluating plant status and taking actions as required.
- 4) TSC should inform the EOF of the increasing core exit thermocouples, the increasing radiation in Containment and the decreasing RVLIS.
- 5) TSC should be informing the EOF of the general plant status actions being taken

and needs required.

- 6) TSC may realize by this time that in order to recover core cooling they will need to complete repairs on the "A" Emergency Diesel Generator, tie it into Bus 14, and start all available SI pumps, even though they may not be completely sure of why Bus 14 tripped out. The thermography report given in the initial conditions should give them some confidence that the problem is in the transformer connections and not the Bus.
- 7) TSC should also realize that once they energize Bus 14, MCC-1C will be energized and they can now close MOV-851A, when the breakers AC power is turned on, thus terminating the radioactive leak source from Containment to the Auxiliary Building.
- 8) TSC may also evaluate the possibility of back feeding Bus 14 from Bus 13 using the 14-13 tie breaker.
- 9) EOF evaluating plant status and taking action as required.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>30</u> CPS
N-32	<u>39</u> CPS
N-35	<u>10E-11</u> AMPS
N-36	<u>10E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>46</u> PSIG
PRZR Level	<u>0.0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>42.4</u> %
1B S/G Level	<u>48.7</u> %
1A S/G Pressure	<u>811</u> PSIG
1B S/G Pressure	<u>784</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses <u>14 Buses</u>	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries ^{OUT} A <u>130</u> VOLTS	B <u>130</u> VOLTS
Cmnt Pressure	<u>1.18</u> PSIG
Cmnt Sump A Level	<u>31.2</u> FEET
Cmnt Sump B Level	<u><190>113</u> INCHES
A Loop Hot Leg	<u>293.8</u> °F
A Loop Cold Leg	<u>201.5</u> °F
B Loop Hot Leg	<u>293.3</u> °F
B Loop Cold Leg	<u>158.2</u> °F
RVLIS	<u>57.2</u> %
*CET	<u>289.5</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	5.00609+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	46.	LALN	PSIG
9 LPZR	FRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	2.4	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	-11.3	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	42.4	GOOD	%
16 LGSB	STM GEN B NARROW RANGE AVG LEVEL	48.7	GOOD*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	811.	GOOD*	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	784.	GOOD*	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	1.18	HWR*	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 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	293.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	293.3	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGANID	RCLA TAVG (THOT/TCOLD WIDE RNG)	293.8	GOOD*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	293.3	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	51.2	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	289.5	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 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	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	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	

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	884.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	37.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	24.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.57744+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.03068+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	9.49508+06	HALN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	7.38114+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.60390+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.98380+02	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.97126+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.16895+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.00245+01	HWRN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.00245+01	HWRN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	8.00000+00	HWRN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.62984-06	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	75.6	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	83.6	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	83.6	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	83.6	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	83.6	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	91.7	GOOD	DEGF

Time: 1020
Message: 42X

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Recovery Manager

Simulated Plant Conditions:

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

Declare a GENERAL EMERGENCY in accordance with EPIP 1-0, "Ginna Station Event Evaluation and Classification, "EAL: Reactor Coolant Leakage (RCS); LOCA Identified Inside CNMT and no ECCS Delivery to the RCS.

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Deliver only if a GENERAL EMERGENCY has not been declared. Do not deliver if emergency classification discussions are in progress.

Anticipated Results:

- 1) Deliver contingency message if GENERAL EMERGENCY not declared or is not being discussed.

Time: 1030
Message: 43

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Anticipated Results:

- 1) Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

MAJOR PARAMETERS

Reactor Shutdown	(YES/NO)
N-31	<u>62,229</u> CPS
N-32	<u>39</u> CPS
N-35	<u>1.8E-10</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>15</u> PSIG
PRZR Level	<u>0.0</u> %
A RCP	RUNNING/STOPPED
B RCP	RUNNING/STOPPED
1A S/G Level	<u>41.7</u> %
1B S/G Level	<u>21.1</u> %
1A S/G Pressure	<u>766</u> PSIG
1B S/G Pressure	<u>3</u> PSIG
Turbine/Generator	ONLINE/OFFLINE
4 KV Buses	(ENERGIZED/DEENERGIZED)
480V Buses 14 buses out	(ENERGIZED/DEENERGIZED)
DC Batteries	A/ <u>30</u> VOLTS B/ <u>30</u> VOLTS
Cnmt Pressure	<u>1.33</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><180>113</u> INCHES
A Loop Hot Leg	<u>249.4</u> °F
A Loop Cold Leg	<u>201.5</u> °F
B Loop Hot Leg	<u>249.6</u> °F
B Loop Cold Leg	<u>158.2</u> °F
RVLIS	<u>38.4</u> %
*CET	<u>803.0</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>129</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	6.22297+04	HWRN	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.78648-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	15.	LALN	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	20.3	INH*	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	-716.6	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	41.7	GOOD	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	21.1	LWR*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	766.	600*	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	3.	LALN	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	1.33	HWR*	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 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	249.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	249.6	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	249.4	600*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	249.6	600*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	38.4	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	803.0	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	129.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	37.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.91250-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.03068+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.03068+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01741+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.89974+01	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.40921+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.42468+02	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.97126+02	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.19722+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	8.00061+01	HWRN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	8.00061+01	HWRN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.48337+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	8.00000+00	HWRN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	1.77994-05	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.77994-05	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPINS)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPINS)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	69.2	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	80.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	80.8	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	80.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	80.8	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	92.5	GOOD	DEGF

Time: 1045
Message: 44

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Anticipated Results:

- 1) Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

MAJOR PARAMETERS

Reactor Shutdown (YES/NO)
 N-31 118.713 CPS
 N-32 39 CPS
 N-35 2.66-10 AMPS
 N-36 1.08-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 1 PSIG
 PRZR Level 0.0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 67.4 %
 1B S/G Level 27.9 %
 1A S/G Pressure -4 PSIG
 1B S/G Pressure -4 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses (ENERGIZED/DEENERGIZED)
 480V Buses 14 Asat (ENERGIZED/DEENERGIZED)
 DC Batteries A 30 VOLTS B 30 VOLTS
 Cnmt Pressure 152 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <180>113 INCHES
 A Loop Hot Leg 215.5 °F
 A Loop Cold Leg 201.5 °F
 B Loop Hot Leg 215.5 °F
 B Loop Cold Leg 158.2 °F
 RVLIS 36.7 %
 *CET 852.9 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 28 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.18713+05	HALM	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	2.64239-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1.	LALM	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	1.0	INH*	%
11 FROLB	REACTOR COOLANT LOOP B AVG FLOW	1.3	INH*	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	-820.7	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	67.4	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	27.9	LWR*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	-4.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	-4.	LALM	PSIG
19 GENBKRI	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKRI2	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	.52	GOOD*	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INH*	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INH*	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INH*	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INH*	
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	215.5	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	215.5	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	215.5	GOOD*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	215.5	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	36.7	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	852.9	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	28.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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 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	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	HALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	37.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.66051+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01741+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.14156+02	GOOD	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.54829+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	2.55563+03	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.12263+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	7.99485+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	7.99485+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.41457+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+01	HWRN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	8.24988-04	HWRN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.24988-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	9.10997-04	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	66.0	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	70.6	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	70.6	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	70.6	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	70.6	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	75.3	GOOD	DEGF

Time: 1050
Message: 45

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Scenario Controllers

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Radiation levels increase substantially in Auxiliary Building. This due to the leaking pipe between Containment and MOV-850A opening up where the crack is. A release above technical specifications begins.

Anticipated Results:

- 1) Operators may transition to ECA-1.1 (Loss of Emergency Coolant Recirculation) due to loss of both RHR pumps.
- 2) TSC should be expediting the turning on of the AC power breaker to MOV-851A.
- 3) TSC should be expediting the recovery of AC power to Bus 14.
- 4) TSC should inform the EOF of the increased radiation levels in the Auxiliary Building.
- 5) TSC should inform the EOF of plant status, actions being taken and needs required.

- 6) EOF should be evaluating plant conditions and taking actions as required.
- 7) EOF Dose Assessment should be evaluating the plant vent release and making protective action recommendations to the EOF/Recovery Manager.
- 8) The EOF/Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should recommend protective actions to offsite agencies as required.
- 9) Repair teams should be expediting repairs as conditions permit.

Time: 1100
Message: 46

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

The following Annunciator is received:

° L-10 (Auxiliary Building Sump Pump Auto Start)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Anticipated Results:

- 1) Operators should perform the applicable actions of AR-L-10.
- 2) Operators should inform the TSC of the operation of the Auxiliary Building sump pump.
- 3) TSC should evaluate the Auxiliary Building sump pump operation and the possibility of the leak in the pipe between Containment and MOV-850A getting worse.
- 4) EOF evaluating plant status and taking actions as required.

MAJOR PARAMETERSENGINEERED SAFEGUARDS

Reactor Shutdown YES/NO
 N-31 101.976 CPS
 N-32 39 CPS
 N-35 2.0E-10 AMPS
 N-36 1.0E-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 1 PSIG
 PRZR Level 0.0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 67.7 %
 1B S/G Level 32.9 %
 1A S/G Pressure -5 PSIG
 1B S/G Pressure -5 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses 146 out ENERGIZED/DEENERGIZED
 DC Batteries A 130 VOLTS B 130 VOLTS
 Cnmt Pressure .11 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <180>113 INCHES
 A Loop Hot Leg 214.4 °F
 A Loop Cold Leg 201.5 °F
 B Loop Hot Leg 214.4 °F
 B Loop Cold Leg 158.2 °F
 RVLIS 39.0 %
 *CET 845.5 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 28 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 21.0 FEET

High Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.01976+05	HALN	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	2.02302-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRC3	REACTOR COOLANT SYSTEM AVG PRESS	1.	LALN	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	2.4	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	-814.9	LALN	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	67.7	HALN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	32.9	GOOD	%
17 PSGA	STM GEN A AVERAGE PRESSURE	-5.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	-5.	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	.11	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 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	214.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	214.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD	DEGF
44 TAVSBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	39.0	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	845.5	HALN	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	28.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	37.1	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.91250-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.02182+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.02182+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	9.74430+06	HALN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.02772+06	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.54829+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.78647+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.88550+05	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	7.07943+03	HALN	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.90134+03	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.90134+03	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.47698+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRY	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.01004-02	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.01004-02	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	64.4	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	65.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	65.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	65.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	65.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	66.3	GOOD	DEGF

Time: 1110
Message: 47

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

The following annunciator is received:

° L-10 (Auxiliary Building Sump Pump Auto Start)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Anticipated Results:

- 1) Operators should perform the applicable actions of AR-L-10.
- 2) Operators should inform the TSC of the operation of the Auxiliary Building sump pump.
- 3) Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling). When they attempt to start the RCP's they trip out immediately.
- 4) TSC should be evaluating the plant status and taking actions as required.

Time: 1115
Message: 48

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

MAJOR PARAMETERSENGINEERED SAFEGUARDS

Reactor Shutdown YES/NO
 N-31 100.925 CPS
 N-32 39 CPS
 N-35 2.1E-10 AMPS
 N-36 1.0E-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 1 PSIG
 PRZR Level 0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 68.2 %
 1B S/G Level 38.1 %
 1A S/G Pressure -5 PSIG
 1B S/G Pressure -5 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses 14 Buses OUT ENERGIZED/DEENERGIZED
 DC Batteries A 130 VOLTS B 130 VOLTS
 Cnmt Pressure 0.08 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <180>113 INCHES
 A Loop Hot Leg 214.4 °F
 A Loop Cold Leg 201.5 °F
 B Loop Hot Leg 214.4 °F
 B Loop Cold Leg 158.2 °F
 RVLIS 39.0 %
 *CET 823.4 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 28 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

High Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.0 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.00925+05	HALM	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	2.07971-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1.	LALM	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.6	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.3	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	-819.5	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	68.2	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	38.1	GOOD*	%
17 PSSA	STM GEN A AVERAGE PRESSURE	-5.	LALM	PSIG
18 PSSB	STM GEN B AVERAGE PRESSURE	-5.	LALM	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	.09	GOOD*	PSIG
28 LSUMP A	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 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	214.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	214.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	39.0	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	823.4	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	28.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	884.	LALN	GPM
2 LRWT	REFUELING WATER STORAGE TANK LVL	37.0	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.81048-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.04864+07	HENH	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.70232+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.02624+07	HENH	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.71623+05	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.57039+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.57744+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.80051+05	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	6.75108+03	HALN	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	1.60209+03	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	1.60209+03	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.42683+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	GOOD	UCI/CC
28 R12A9	CV VENT CHAN 9-HIGH RANGE GAS	9.99787-04	GOOD	UCI/CC
29 R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	9.98974-03	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	63.7	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	64.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	64.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	64.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	64.3	GOOD	DEGF
43 TCV17	CV OPERATING LVL 6FT TEMP #17	64.9	GOOD	DEGF

Time: 1120
Message: 49

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

The following annunciator is received:

° L-10 (Auxiliary Building Sump Pump Auto Start)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs approximately one minute.

Anticipated Results:

- 1) Operators should be performing the applicable actions of AR-L-10.
- 2) Operators should be performing the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).

Time: 1125
Message: 50

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See the Attached Sheets

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

The following message is received from Power Control:

° Offsite 34.5KV circuit 751 is ready to be restored to service.

FOR CONTROLLER USE ONLY

Controller Notes:

Anticipated Results:

- 1) Operators should inform the TSC that Circuit 751 is ready to be restored to service.
- 2) Operators should, if directed by the TSC, restore Circuit 751 to service per 0-6.9.2 .

Time: 1130
Message: 51

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

The following annunciator is received:

° L-10 (Auxiliary Building Sump Pump)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs approximately one minute.

Actions Expected:

- 1) Operators should perform the applicable actions of AR-L-10.
- 2) Operators should be perform the applicable actions of FR-C.1 (Response to Inadequate Core Cooling).
- 3) TSC should be expediting the return of the "A" Emergency Diesel Generator to service.
- 4) EOF Dose Assessment should be evaluating the release from the plant vent and making protective action recommendations to the EOF/Recovery Manager.
- 5) The EOF/Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should make protective action recommendations to offsite agencies.

MAJOR PARAMETERSENGINEERED SAFEGUARDS

Reactor Shutdown YES/NO
 N-31 104.111 CPS
 N-32 39 CPS
 N-35 2.3E-10 AMPS
 N-36 1.0E-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 1 PSIG
 PRZR Level 0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 67.8 %
 1B S/G Level 43.9 %
 1A S/G Pressure -5 PSIG
 1B S/G Pressure -5 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses 14 Bus out ENERGIZED/DEENERGIZED
 DC Batteries A 130 VOLTS B 30 VOLTS
 Cnmt Pressure 0.06 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <180>113 INCHES
 A Loop Hot Leg 214.4 °F
 A Loop Cold Leg 201.5 °F
 B Loop Hot Leg 214.4 °F
 B Loop Cold Leg 158.2 °F
 RVLIS 38.9 %
 *CET 816.2 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 28 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

High Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.0 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 ATWS	ANTICIPATED TRANSIENT W/D SCRAM	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.04111+05	HALM	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	2.31206-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1.	LALM	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.6	INH8	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INH8	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	-830.8	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	67.8	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	43.9	GOOD*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	-5.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	-5.	LALM	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 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	.06	GOOD*	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 9 INCHES (TRAIN A)	HIGHER	INH8	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INH8	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INH8	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INH8	
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	RCL HOT LEG TEMPERATURE	214.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	214.4	GOOD	DEGF
41 T0450	RCL COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGAWID	RCL TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	38.9	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	816.2	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	28.	GOOD	GPM
49 BKR081	NTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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 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	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	892.	HALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	37.0	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.75992-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.95683+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.03068+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	9.49508+06	HALN	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.92827+05	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.60390+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.91393+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.54989+05	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	7.14084+03	HALN	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	1.40847+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRI	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	63.4	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	64.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	64.0	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	64.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	64.0	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	64.6	GOOD	DEGF

Time: 1140
Message: 52

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

° L-10 (Auxiliary Building Sump Pump auto start)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Actions Expected:

- 1) Operators should be performing the applicable actions of AR-2-10.

Time: 1145
Message: 53

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

MESSAGE FOR: TSC/Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

The following information is received in TSC from repair team working on the "A" Emergency Diesel Generator:

- ° Repairs should be completed in approximately fifteen minutes.

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

- 1) TSC should be planning the recovery of core cooling and the termination of the release from the Auxiliary Building when the "A" Emergency Diesel Generator is returned to service.
- 2) TSC should request operations to check the "A" Emergency Diesel Generator line-up as much as they can to expedite the return to service of the D/G.
- 3) TSC should inform the EOF of the estimated time that the "A" D/G will be ready for return to service.

MAJOR PARAMETERS

Reactor Shutdown YES/NO
 N-31 105.539 CPS
 N-32 39 CPS
 N-35 2.3E-10 AMPS
 N-36 1.0E-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 1 PSIG
 PRZR Level 0.0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 67.6 %
 1B S/G Level 48.5 %
 1A S/G Pressure -5 PSIG
 1B S/G Pressure -5 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses ENERGIZED/DEENERGIZED
 DC Batteries A 130 VOLTS B 130 VOLTS
 Cnmt Pressure 0.6 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <180>113 INCHES
 A Loop Hot Leg 214.4 °F
 A Loop Cold Leg 201.5 °F
 B Loop Hot Leg 214.4 °F
 B Loop Cold Leg 158.2 °F
 RVLIS 39.0 %
 *CET 807.3 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 28 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 37.0 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.05559+05	HALN	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	2.30143-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1.	LALN	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.6	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.3	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INORE TC SUBCOOLED MARGIN	-791.2	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	67.6	HALN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	48.5	GOOD*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	-5.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	-5.	LALN	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.06	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 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	214.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	214.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
44 TAVSBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	214.4	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	39.0	LALN	%
46 TCCORE	E1.1 INORE TC AVERAGE TEMP	807.3	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	28.	GOOD	GPM
49 BKR021	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR062	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	6000	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	6000	GPM
55 P2150	SERVICE WATER PUMPS A & B HEADER	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	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	

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	892.	LALN	GPM
2 LRWS1	REFUELING WATER STORAGE TANK LVL	37.0	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.66051+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01741+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.50877+05	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.54829+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.02182+07	HENG	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	9.80051+05	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	6.86868+03	HALN	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	1.41457+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	9.96974-03	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	63.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	63.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	63.9	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	63.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	63.9	GOOD	DEGF
43 TCV17	CV OPERATING LEVEL 6FT TEMP #17	64.5	GOOD	DEGF

Time: 1150
Message: 54

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

- ° L-10 (Auxiliary Building Sump Pump auto start).

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Actions Expected:

- 1) Operators should perform the applicable actions of AR-L-10.

Time: 1155
Message: 55

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: TSC

Simulated Plant Conditions:

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

The following information is received in TSC from repair team working on the "A" Emergency Diesel Generator:

- ° The "A" Emergency Diesel Generator is ready for return to service.

FOR CONTROLLER USE ONLY:

Controller Notes:

1)

Actions Expected:

- 1) Operators, when requested by the TSC, should line up the "A" Emergency Diesel Generator per T-27.1 .
- 2) Operators should be performing the applicable actions of FR-C.1 .
- 3) TSC should request that the Control Room have the "A" Emergency Diesel Generator lined up for normal operation and allow it to tie into Bus 14.
- 4) TSC should inform Control Room to start all Safety Injection pumps and Containment recirc fans available as soon as Bus 14 is energized by the "A" Emergency Diesel Generator.

- 5) TSC should inform the Control Room to close MOV-851A as soon as MCC-C is energized, if MOV-851A AC power breaker was turned on.



Time: 1155
Message: 56

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Auxiliary Operator lining up the "A" Emergency Diesel Generator per T-27.1

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Actions Expected:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Lining up the "A" Emergency Diesel Generator per T-27.1
Expected scenario start time: 1155 Hours

INITIAL CONDITIONS:

- ° RCS has experienced a large break LOCA.
- ° The "A" Emergency Diesel Generator tripped on low lube oil pressure ten minutes after the LOCA.
- ° At 1005 hours Bus 14 tripped out due to a transformer problem.
- ° Because of the above events and other equipment out of service, all safety injection to the core is lost. The core is now uncovered and sustaining major damage.
- ° The maintenance repair team has repaired the "A" Emergency Diesel Generator and has informed the TSC it is ready for return to service.

METHOD OF INITIATION:

- ° The TSC requests the control room to have the "A" Emergency Diesel Generator expeditiously lined up per T-27.1 .

INDICATIONS:

- ° None

EXPECTED SEQUENCE OF ACTIONS:

- ° Obtain a copy of T-27.1 .
- ° Perform T-27.1 expeditiously (simulate).
- ° Inform TSC/Control Room at 1215 hours that the "A" Emergency Diesel Generator is lined up per T-27.1 (whether it is or not).

FINAL CONDITIONS:

- ° The "A" Emergency Diesel Generator is considered lined up and reported to TSC/Control Room at 1215 hours.
- ° Controller must notify Simulator Operator just prior to Auxiliary Operator notifying Control Room/TSC.

Time: 1200
Message: 57

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

° L-10 (Auxiliary Building Sump Pump auto start).

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Actions Expected:

- 1) Operators should be performing the applicable actions of AR-L-10.

Time: 1210
Message: 58

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

° L-10 (Auxiliary Building Sump Pump auto start).

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Actions Expected:

- 1) Operators should be performing the applicable actions of AR-L-10.

Time: 1215
Message: 59

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room/TSC

Simulated Plant Conditions: See Attached Sheets

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

The following information is received in the Control Room/TSC from the Auxiliary Operator lining up the "A" Emergency Diesel Generator:

- ° The "A" Emergency Diesel Generator is lined up per T-27.1 .

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

- 1) Operators should start the "A" Emergency Diesel Generator and ensure it ties into Bus 14.
- 2) Operators should attempt to start the "A" and "C" safety injection pumps, the "A" RHR pump and the "A" and "D" containment recirc fan coolers. All equipment starts except the "C" SI pump (burned out motor).
- 3) Operators should attempt closure of MOV-851A if the AC power to the breaker has been previously turned on. If the AC power to the breaker has been previously turned on, then the valve will come off its back seat and the breaker will trip out. If the AC power to the breaker has not been previously turned on, then no valve closure should be attempted at this time.

- 4) Operators should inform the TSC of the equipment started on Bus 14.
- 5) Operators should inform the TSC of the failure of the "C" SI pump to start on Bus 14.
- 6) Operators should inform TSC of MOV-851A failure to close if AC power was previously turned on to the breaker.
- 7) Operators should be performing the applicable actions of FR-C.1 and then return to E-1.
- 8) TSC should send a team into the Auxiliary Building to turn on the AC power to MOV-851A. If the AC power to the valve breaker had been turned on previously, the TSC may send an electrician with this team to check the breaker.
- 9) TSC should be evaluating plant conditions and taking action as required.
- 10) TSC should be checking on progress of repair teams.
- 11) TSC should be informing the EOF of plant status and actions being taken for plant recovery.
- 12) EOF should be evaluating plant conditions and taking actions as required.
- 13) EOF should be requesting the engineering support center to perform a core damage assessment.
- 14) EOF Dose Assessment should be tracking the release plume and coordinating/recommending protective action recommendations to the Recovery Manager.
- 15) The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies.
- 16) Repair teams should be expediting repairs as conditions permit.
- 17) Controllers should verify that all key positions in the TSC, OSC, Survey Center, EOF, ESC and JENC have undergone a shift turnover by this time.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> <u>NO</u>
N-31	<u>03.313</u> CPS
N-32	<u>39</u> CPS
N-35	<u>1.3E-10</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>0</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING</u> / <u>STOPPED</u>
B RCP	<u>RUNNING</u> / <u>STOPPED</u>
1A S/G Level	<u>67.1</u> %
1B S/G Level	<u>61.2</u> %
1A S/G Pressure	<u>-5</u> PSIG
1B S/G Pressure	<u>-5</u> PSIG
Turbine/Generator	<u>ONLINE</u> / <u>OFFLINE</u>
4 KV Buses	<u>ENERGIZED</u> / <u>DEENERGIZED</u>
480V Buses	<u>ENERGIZED</u> / <u>DEENERGIZED</u>
DC Batteries	A <u>30</u> VOLTS B <u>30</u> VOLTS
Cnmt Pressure	<u>.08</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><180</u> / <u>113</u> INCHES
A Loop Hot Leg	<u>213.9</u> °F
A Loop Cold Leg	<u>201.5</u> °F
B Loop Hot Leg	<u>213.9</u> °F
B Loop Cold Leg	<u>158.2</u> °F
RVLIS	<u>38.9</u> %
*CET	<u>792.6</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>27</u> GPM

DIESEL GENERATORS

A. RUNNING / UNLOADED / STBY / OOS
 B. RUNNING / UNLOADED / STBY / OOS
 TSC RUNNING / UNLOADED / STBY / OOS
 Security RUNNING / UNLOADED / STBY / OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 Turb. Driven INSERV / STBY / OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 0 GPM
 1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 BAST Level = 70 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV / STBY / OOS / RECIRC
 1B. INSERV / STBY / OOS / RECIRC
 RWST Level = 36.8 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS
 Post Accident Dampers OPEN / CLOSED

Service Water Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	6.33138+04	HWRN	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.94456+01	BAD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.34276-10	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	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	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.0	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.3	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	-779.5	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	67.1	HALN	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	61.2	HWR*	%
17 PSGA	STM GEN A AVERAGE PRESSURE	-5.	LALN	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	-5.	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	.03	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 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	213.9	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	213.9	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	201.5	BAD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	158.2	BAD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	213.9	GOOD*	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	213.9	GOOD*	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	38.9	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	792.6	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	27.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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	

5-175

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	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	884.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	36.8	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.81048-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	7.80727+03	BAD	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.14412+00	BAD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	BAD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	2.95121+00	BAD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.04864+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.70232+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.02624+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.71623+05	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.57039+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.57744+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.00577+06	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	6.75108+03	HALN	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	9.02219+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	9.02219+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.42683+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	5.00000+00	HALN	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	5.00000+00	HALN	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	63.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	64.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	64.0	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	64.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	64.0	GOOD	DEGF
43 TCV17	CV OPERATING LEVEL 6FT TEMP #17	64.7	GOOD	DEGF

Time: 1215
Message: 60

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Auxiliary Operator and/or electricians checking and/or turning on the AC power breaker for MOV-851A.

Simulated Plant Conditions: See Attached Mini-Scenario

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

FOR CONTROLLER USE ONLY:

Controller Notes:

- 1) Provide information verbally when appropriate actions are simulated or investigations conducted.

Actions Expected:

- 1) As per Mini-Scenario.

GINNA STATION
1993 EVALUATED EXERCISE

MINI-SCENARIO

TITLE: Checking and/or Turning on the AC Power Breaker for MOV-851A.
Expected scenario start time: 1215 Hours

INITIAL CONDITIONS:

- ° RCS has experienced a large break LOCA.
- ° Because of a leak from the large pipe between Containment and MOV-850A, it is imperative that the breaker from MOV-851A be turned on so MOV-851A can be closed to isolate the leak from Containment.
- ° Bus 14 has been out of service since 1005 hours and has just been re-energized at approximately 1220 hours.
- ° MOV-851A receives its AC power from MCC-1C position 10M. MCC-1C receives its power from Bus 14.
- ° It is possible that the AC power breaker to MOV-851A was turned on subsequent to the restoration of Bus 14. If this is true, then when power is restored to Bus 14 and the Control Room attempts to close MOV-851A, the AC power breaker will trip on overload as the valve attempts to come off its backseat.

METHOD OF INITIATIONS:

- ° TSC requests the AC power breaker for MOV-851A be checked and/or turned on.

INDICATIONS:

- ° If team is to check breaker before they turn it on it will be normal.
- ° AC power breaker for MOV-851A it either locked off or is tripped off.

EXPECTED SEQUENCE OF ACTIONS:

Breaker previously turned on and has tripped:

- Obtain locked valve key.
- Proceed to MCC-1C, position 10M.
- Inspect breaker for signs of a problem.
- Observe no problems.
- Unlock breaker and turn on.

Note: The breaker will be considered turned on at 1245 hours (no sooner, no later) for scenario purposes.

- Report the breaker is turned on at 1245 hours to the Control Room/TSC.

Note: Controller to coordinate this with the Simulator Operator.

Breaker not previously turned on:

- Obtain locked valve key.
- Proceed to MCC-1C, position 10M.
- Unlock breaker and turn on.

Note: The breaker will be considered turned on at 1245 hours (no sooner, no later) for scenario purposes.

- Report the breaker is turned on at 1245 hours to the Control Room/TSC.

Note: Controller to coordinate this with the Simulator Operator.

FINAL CONDITIONS:

- The AC power breaker for MOV-851A will be considered turned on at 1245 hours.
- MOV-851A will be considered closed at 1250 hours for scenario purposes.

Time: 1220
Message: 61

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

- ° L-10 (Auxiliary Building Sump Pump auto start)

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "B" Auxiliary Building sump pump starts and runs for approximately one minute.

Actions Expected:

- 1) Operators should be performing the applicable actions of AR-L-10.
- 2) Operators should be performing the applicable actions of E-1 (loss of reactor or secondary coolant).

Time: 1230
Message: 62

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

1) Operators should be performing the applicable actions of E-1.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES) NO</u>
N-31	<u>29</u> CPS
N-32	<u>28</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>0</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>66.2</u> %
1B S/G Level	<u>66.8</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	A <u>30</u> VOLTS B <u>30</u> VOLTS
Cnmt Pressure	<u>.02</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><180>113</u> INCHES
A Loop Hot Leg	<u>207.2</u> °F
A Loop Cold Leg	<u>197.0</u> °F
B Loop Hot Leg	<u>207.4</u> °F
B Loop Cold Leg	<u>119.4</u> °F
RVLIS	<u>72.9</u> %
*CET	<u>202.4</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>27</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 232 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1200 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 33.5 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	2.97166+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	2.85101+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00461-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	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	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	INCORE TC SUBCOOLED MARGIN	-1.5	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	66.2	HWRN	%
16 LSCB	STM GEN B NARROW RANGE AVG LEVEL	66.8	HWRN	%
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	.02	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 5 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 8 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	207.2	GOOD	DEGF
40 T0410A	RCLE HOT LEG TEMPERATURE	207.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	197.0	GOOD	DEGF
42 T0451	RCLE COLD LEG TEMPERATURE	119.4	GOOD	DEGF
43 TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	202.1	GOOD	DEGF
44 TAVSBWID	RCLE TAVG (THOT/TCOLD WIDE RNG)	163.4	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	72.9	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	202.4	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	27.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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	0.	6000	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	232.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	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	

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	884.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	33.5	GOOD	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	5.09916+05	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	6.34598+04	HALN	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	6.06036+04	HALN	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	6.13055+04	HALN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.57744+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.78647+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.04864+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.04562+06	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.41963+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	1.04864+07	HENG	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03663+06	HALN	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	6.80964+03	HWRN	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	5.00465+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	5.00465+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.42069+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	5.20000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	8.85986+00	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	8.85986+00	HWRN	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	5.00000+00	HALN	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	5.00000+00	HALN	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	63.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	63.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	63.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	63.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	63.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVEL 6FT TEMP #17	63.4	GOOD	DEGF

Time: 1235
Message: 63

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions:

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

The following Annunciator is received:

° L-10 (Auxiliary Building Sump Pump auto start).

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The "A" Auxiliary Building sump pump starts and runs for approximately one minute.
- 2) Plant vent readings are decreasing due to Containment pressure reduction, reducing the leak out of the pipe between MOV-850A and Containment and also due to the resumption of core cooling reducing the radiation levels in containment.

Actions Expected:

- 1) Operators should be performing the applicable actions of AR-L-10.
- 2) Operators should be performing the applicable actions of E-1.
- 3) Operators may realize at this time that the Auxiliary Building sump pump operation interval is increasing (decreased leakage) and should inform the TSC of this.
- 4) TSC should be expediting sending a team into Auxiliary Building to check and/or turn on the AC power breaker for MOV-851A.
- 5) TSC should be evaluating plant status and taking action as required.
- 6) TSC may be evaluating the Auxiliary Building sump pump down interval change.
- 7) TSC should be informing the EOF of plant status and actions being taken for plant recovery.
- 8) EOF should be evaluating plant conditions and taking action as required.
- 9) EOF Dose Assessment should be tracking the release plume and coordinating/recommending protective action recommendations to the Recovery Manager.
- 10) The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies as required.
- 11) Repair teams should be expediting repairs as conditions permit.

Time: 1245
Message: 64

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The team sent into the Auxiliary Building to check and/or turn on the AC power breaker for MOV-851A reports the following; depending on the situation:
 - ° If the AC power breaker for MOV-851A was not previously turned on, then the team will simulate turning it on and report this to the TSC at 1245 hours.
 - ° If the AC power breaker for MOV-851A was previously turned on and then tripped, the team will report there findings to the TSC and await further instructions. After evaluation the TSC should request the breaker be reset and reported turned on. This should be simulated by the team and reported to the TSC at 1245 hours. (see message #60).

Actions Expected:

- 1) Operators should close MOV-851A when requested by TSC. MOV-851A will be considered closed completely at 1250 hours isolating the leak on the pipe between Containment and MOV-850A.
- 2) Operators should inform the TSC of MOV-851A closure.
- 3) If the AC power breaker for MOV-851A was previously turned on and then tripped, TSC should evaluate this and most probably decide the following:
 - ° The breaker could have tripped starting the closing cycle of the valve due to not being operated for a long period of time or the breaker may not have been completely reset the first time by the Auxiliary Operator.
 - ° Based on the above and the emergency conditions that exists, the TSC should have the team reset and turn on the breaker for MOV-851A and then request the Control Room to close MOV-851A.
- 4) If the AC power breaker for MOV-851A was not previously turned on, TSC will request the Control Room close MOV-851A.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> / NO
N-31	<u>30</u> CPS
N-32	<u>34</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2</u> PSIG
PRZR Level	<u>0</u> %
A RCP	RUNNING / <u>STOPPED</u>
B RCP	RUNNING / <u>STOPPED</u>
1A S/G Level	<u>66.2</u> %
1B S/G Level	<u>74.1</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	ONLINE / <u>OFFLINE</u>
4 KV Buses	<u>ENERGIZED</u> / DEENERGIZED
480V Buses	<u>ENERGIZED</u> / DEENERGIZED
DC Batteries	A <u>130</u> VOLTS B <u>130</u> VOLTS
Cnmt Pressure	<u>.00</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u>180.7</u> INCHES
A Loop Hot Leg	<u>191.8</u> °F
A Loop Cold Leg	<u>105.4</u> °F
B Loop Hot Leg	<u>191.8</u> °F
B Loop Cold Leg	<u>168.3</u> °F
RVLIS	<u>81.0</u> %
*CET	<u>190.6</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>27</u> GPM

DIESEL GENERATORS

A. RUNNING / UNLOADED / STBY / OOS
 B. RUNNING / UNLOADED / STBY / OOS
 TSC RUNNING / UNLOADED / STBY / OOS
 Security RUNNING / UNLOADED / STBY / OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 Turb. Driven INSERV / STBY / OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 232 GPM
 1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 200 GPM
 1A. INSERV / STBY / OOS / RECIRC
 1B. INSERV / STBY / OOS / RECIRC
 RWST Level = 27.8 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS
 Post Accident Dampers OPEN / CLOSED

Service Water Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV / STBY / OOS
 1B. INSERV / STBY / OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV / STBY / OOS
 1D. INSERV / STBY / OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	3.02342+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.40015+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00461-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2.	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 TSUBTC	INCORE TC SUBCOOLED MARGIN	9.4	LWR*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	66.2	HWRN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	74.1	HALM	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.00	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	191.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	191.8	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	185.4	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	168.3	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	188.6	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	180.1	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	81.0	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	190.6	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	27.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	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 FS1A	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	232.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	884.	LALN	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	27.8	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.86136-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	4.95448+05	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	3.19888+04	HALN	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	3.18053+04	HALN	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.07255+04	HALN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.02624+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.57744+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01303+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.05014+06	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.66051+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.04562+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.89725+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	5.00465+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	5.00465+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.35480+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.42993-01	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	4.42993-01	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	2.00000+00	HALN	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	2.00000+00	HALN	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	65.7	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	64.4	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	64.4	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	64.4	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	64.4	GOOD	DEGF
43 TCV17	CV OPERATING LEVEL 6FT TEMP #17	63.2	GOOD	DEGF

Time: 1300
Message: 65

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) With the leak from Containment isolated, the Auxiliary Building sump pump is no longer operating at short intervals and the plant vent radiation readings are beginning to decrease significantly.

Actions Expected:

- 1) Operators should be performing the applicable actions of E-1.
- 2) TSC should inform the EOF of the closure of MOV-851A and the decreasing plant vent radiation readings.
- 3) TSC evaluating plant conditions and taking action as required.
- 4) TSC should be checking on the progress of repair teams.
- 5) TSC should be informing the EOF of plant status and actions being taken for plant recovery.

- 6) EOF should be evaluating plant conditions and taking actions as required.
- 7) EOF Dose Assessment should be tracking the release plume and coordinating/recommending protective action recommendations to the Recovery Manager.
- 8) The Recovery Manager, after evaluating the EOF Dose Assessment recommendations, should update protective action recommendations to offsite agencies as required.
- 9) Repair teams should be expediting repairs as conditions permit.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>83</u> CPS
N-32	<u>81</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>2</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>66.4</u> %
1B S/G Level	<u>78.1</u> %
1A S/G Pressure	<u>2</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	<u>A/30VOLTS B/30 VOLTS</u>
Cnmt Pressure	<u>2.01</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><100/115</u> INCHES
A Loop Hot Leg	<u>216.8</u> °F
A Loop Cold Leg	<u>214.8</u> °F
B Loop Hot Leg	<u>200.2</u> °F
B Loop Cold Leg	<u>204.5</u> °F
RVLIS	<u>27.3</u> %
*CET	<u>303.3</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 232 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 0 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 23.6 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	8.37527+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	8.11894+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.01859-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.01859-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	40.2	INH*	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	-54.1	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	66.4	HWRN	%
16 LSEB	STM GEN B NARROW RANGE AVG LEVEL	78.1	HALN	%
17 PSGA	STM GEN A AVERAGE PRESSURE	2.	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	2.01	HWRN	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 8 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	216.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	200.2	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	214.8	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	204.5	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	215.8	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	202.3	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	27.3	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	303.3	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	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	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	232.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6494.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	23.6	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	2.98538+05	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.23027+01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.83465+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	3.42767+01	HALN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALN	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.99992+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.03962+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.01449+06	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.46178+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	9.78647+06	HALN	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05014+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.89725+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	HALN	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.42993-01	HALN	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	4.42993-01	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	2.00000+00	HALN	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	2.00000+00	HALN	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	84.4	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	92.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	93.1	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	92.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	93.1	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	101.8	GOOD	DEGF

Time: 1315
Message: 66

GINNA STATION

1993 EVALUATED EXERCISE

MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

- 1) Recovery/Re-entry discussions may commence. This should include preliminary discussions about short term and intermediate term concerns, including preliminary designation of the Recovery organization.
- 2) State and counties may also conduct parallel discussions. Recovery/Re-entry interface between TSC/EOF and offsite agencies should be demonstrated as time allows.

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>
N-31	<u>173</u> CPS
N-32	<u>173</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>3</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>65.1</u> %
1B S/G Level	<u>80.1</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>
480V Buses	<u>ENERGIZED/DEENERGIZED</u>
DC Batteries	A/ <u>30</u> VOLTS B/ <u>30</u> VOLTS
Cnmt Pressure	<u>3.15</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><180/113</u> INCHES
A Loop Hot Leg	<u>213.1</u> °F
A Loop Cold Leg	<u>209.9</u> °F
B Loop Hot Leg	<u>210.4</u> °F
B Loop Cold Leg	<u>209.4</u> °F
RVLIS	<u>39.1</u> %
*CET	<u>625.7</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 232 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1100 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 22.3 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.72981+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.72981+02	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.03276-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.02330-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	3.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	69.9	INH*	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	38.8	INH*	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	-480.3	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	65.1	HWRN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	80.1	HALM	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	3.15	HWRN	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INH*	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INH*	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INH*	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INH*	
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	213.1	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	210.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	209.9	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	209.4	GOOD	DEGF
43 TAVGANID	RCLA TAVG (THOT/TCOLD WIDE RNG)	211.5	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	209.9	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	39.1	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	625.7	HWR*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	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	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	232.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	22.3	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.56051-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.05492+05	HALN	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.31069+01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	3.00262+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.25170+01	WARN	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.00432+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.78647+06	HALN	CPM
16 R12	CONTAINMENT GAS MONITOR	1.03068+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.02772+06	HALN	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.46178+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.43249+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR FLOWDOWN DRAIN	1.99952+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALN	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALN	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.39035+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	1.00000+02	HALN	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.20996-03	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	1.00000+00	HALN	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	1.00000+00	HALN	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	79.5	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	99.7	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	99.7	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	99.7	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	99.7	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	120.0	GOOD	DEGF

Time: 1330
Message: 67

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Accident evaluation and response continues.

Actions Expected:

- 1) Recovery/Re-entry and declassification discussions should commence per the guidance provided in EPIP 3-4, "Emergency Declassification and Recovery". Discussions should include but not be limited to the following:
 - A) Preliminary discussions between the EOF and the TSC on the following:
 - Short Term plant concerns such as;
 1. Cool down of the plant
 2. Repair and return to service of 480 volt Bus 14 transformer.
 3. Repair and return to service of the "B" RHR pump.
 4. Repair and return to service of the "B" SI pump.
 5. Repair and return to service of the "C" SI pump.
 6. Repair and return to service of the Bus 14-16 tie breaker.

° Intermediate term plant concerns such as:

1. Core damage assessment.
2. Clean-up of Auxiliary Building.
3. Clean-up of water in containment.
4. Long-term core cooling.
5. Radiological release calculations and evaluation.

-B). Preliminary designation of the recovery organization.

C). State and counties may also conduct parallel recovery/re-entry discussions.

- 2) Recovery/Re-entry interface between the EOF/TSC and offsite agencies should be demonstrated as time allows.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES/NO)</u>
N-31	<u>136</u> CPS
N-32	<u>140</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>4</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>64.3</u> %
1B S/G Level	<u>82.1</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>(ENERGIZED/DEENERGIZED)</u>
480V Buses	<u>(ENERGIZED/DEENERGIZED)</u>
DC Batteries	<u>A130 VOLTS B130 VOLTS</u>
Cnmt Pressure	<u>3.62</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u>>180/214 INCHES</u>
A Loop Hot Leg	<u>210.7</u> °F
A Loop Cold Leg	<u>214.6</u> °F
B Loop Hot Leg	<u>210.7</u> °F
B Loop Cold Leg	<u>212.9</u> °F
RVLIS	<u>34.7</u> %
*CET	<u>305.6</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. (RUNNING/UNLOADED/STBY/OOS)
 B. (RUNNING/UNLOADED/STBY/OOS)
 TSC (RUNNING/UNLOADED/STBY/OOS)
 Security (RUNNING/UNLOADED/STBY/OOS)

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 Turb. Driven (INSERV/STBY/OOS)
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 408 GPM
 1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1100 GPM
 1A. (INSERV/STBY/OOS/RECIRC)
 1B. (INSERV/STBY/OOS/RECIRC)
 RWST Level = 20.8 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)
 Post Accident Dampers (OPEN/CLOSED)

Service Water Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	1.36301+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.40119+02	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.02801-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.02330-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	4.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	.6	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	INDCORE TC SUBCOOLED MARGIN	-169.4	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	64.3	HWRN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	82.1	HALN	%
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	3.62	HWRN	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 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	INHB	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	INHB	
35 L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	HIGHER	ALRM	
36 L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	HIGHER	ALRM	
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	210.7	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	210.7	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	214.6	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	212.9	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNS)	212.3	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNS)	211.9	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	34.7	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	305.6	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	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.	6000	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	408.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	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	

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	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	20.8	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.17275-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.05492+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	6.27336+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.93427+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.00000+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.00432+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.78647+06	HALM	CPM
16 R12	CONTAINMENT GAS MONITOR	1.04864+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.02772+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.41963+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.59917+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01012+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.98952+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.39035+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.20996-03	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPIN)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPIN)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	94.6	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	107.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	106.7	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	107.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	106.7	GOOD	DEGF
43 TCV17	CV OPERATING LEVEL 6FT TEMP #17	119.0	GOOD	DEGF

Time: 1345
Message: 68

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Accident evaluation and response continues.

Actions Expected:

- 1) Recovery/Re-entry and declassification discussions should commence per the guidance provided in EPIP 3-4, "Emergency Declassification and Recovery". Discussions should include but not be limited to the following:

A) Preliminary discussions between the EOF and the TSC on the following:

° Short Term plant concerns such as:

1. Cool down of the plant
2. Repair and return to service of 480 volt Bus 14 transformer.
3. Repair and return to service of the "B" RHR pump.
4. Repair and return to service of the "B" SI pump.
5. Repair and return to service of the "C" SI pump.
6. Repair and return to service of the Bus 14-16 tie breaker.

° Intermediate term plant concerns such as:

1. Core damage assessment.
2. Clean-up of Auxiliary Building.
3. Clean-up of water in containment.
4. Long-term core cooling.
5. Radiological release calculations and evaluation.

B). Preliminary designation of the recovery organization.

C). State and counties may also conduct parallel recovery/re-entry discussions.

- 2) Recovery/Re-entry interface between the EOF/TSC and offsite agencies should be demonstrated as time allows.

MAJOR PARAMETERS

Reactor Shutdown	(YES) NO
N-31	<u>128</u> CPS
N-32	<u>133</u> CPS
N-35	<u>1.0E-4</u> AMPS
N-36	<u>1.0E-4</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>3</u> PSIG
PRZR Level	<u>0</u> %
A RCP	RUNNING/STOPPED
B RCP	RUNNING/STOPPED
1A S/G Level	<u>65.6</u> %
1B S/G Level	<u>84.3</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	ONLINE/OFFLINE
4 KV Buses	ENERGIZED/DEENERGIZED
480V Buses	ENERGIZED/DEENERGIZED
DC Batteries	A <u>130</u> VOLTS B <u>130</u> VOLTS
Cnmt Pressure	<u>3.17</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><100>113</u> INCHES
A Loop Hot Leg	<u>210.4</u> °F
A Loop Cold Leg	<u>215.0</u> °F
B Loop Hot Leg	<u>210.7</u> °F
B Loop Cold Leg	<u>204.5</u> °F
RVLIS	<u>39.0</u> %
*CET	<u>802.3</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 232 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1100 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 19.7 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 81/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATNS	ALRN	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRN	
3 N31	SOURCE RANGE DETECTOR N-31	1.28085+02	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	1.33045+02	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.02801-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.02330-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	3.	LENG	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALN	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLOW	75.3	INH+	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	43.1	INH+	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRN	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRN	
14 TSBTC	INCORE TC SUBCOOLED MARGIN	-785.6	LAL*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	65.6	HWRN	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	84.3	HALN	%
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	ALRN	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRN	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRN	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRN	
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	ALRN	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRN	
27 PCV	CONTAINMENT AVERAGE PRESSURE	3.17	HWRN	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENG	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INH+	
30 L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	HIGHER	INH+	
31 L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	HIGHER	INH+	
32 L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	HIGHER	INH+	
33 L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	HIGHER	ALRN	
34 L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	HIGHER	ALRN	
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	210.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	210.7	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	215.0	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	204.5	GOOD	DEGF
43 TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	212.7	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	207.6	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	39.0	LALN	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	802.3	HAL*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	6000	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	232.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	6000	PSIG
57 BKRO41	SERVICE WATER PUMP A	ON	6000	
58 BKRO42	SERVICE WATER PUMP B	ON	6000	
59 BKRO43	SERVICE WATER PUMP C	ON	6000	
60 BKRO44	SERVICE WATER PUMP D	ON	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	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	19.7	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	41.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	43.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	38.8	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-4.3	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.05492+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	5.72137+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.93427+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.00432+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.78647+06	HALM	CPM
16 R12	CONTAINMENT GAS MONITOR	1.04864+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.02772+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.41963+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.59917+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01012+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.00678+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.46428+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.20996-03	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LVL 6FT TEMP #3	85.3	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	100.9	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	100.9	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	100.9	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	100.9	GOOD	DEGF
43 TCV17	CV OPERATING LVL 6FT TEMP #17	116.4	GOOD	DEGF

Time: 1415
Message: 69

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Accident evaluation and response continues.

Actions Expected:

- 1) Recovery/Re-entry and declassification discussions should commence per the guidance provided in EPIP 3-4, "Emergency Declassification and Recovery". Discussions should include but not be limited to the following:
 - A) Preliminary discussions between the EOF and the TSC on the following:
 - ° Short Term plant concerns such as:
 1. Cool down of the plant
 2. Repair and return to service of 480 volt Bus 14 transformer.
 3. Repair and return to service of the "B" RHR pump.
 4. Repair and return to service of the "B" SI pump.
 5. Repair and return to service of the "C" SI pump.
 6. Repair and return to service of the Bus 14-16 tie breaker.

° Intermediate term plant concerns such as:

1. Core damage assessment.
2. Clean-up of Auxiliary Building.
3. Clean-up of water in containment.
4. Long-term core cooling.
5. Radiological release calculations and evaluation.

B). Preliminary designation of the recovery organization.

C). State and counties may also conduct parallel recovery/re-entry discussions.

- 2) Recovery/Re-entry interface between the EOF/TSC and offsite agencies should be demonstrated as time allows.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES/NO)</u>
N-31	<u>39</u> CPS
N-32	<u>36</u> CPS
N-35	<u>1.0E-11</u> AMPS
N-36	<u>1.0E-11</u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>6</u> PSIG
PRZR Level	<u>0</u> %
A RCP	<u>RUNNING/STOPPED</u>
B RCP	<u>RUNNING/STOPPED</u>
1A S/G Level	<u>69.7</u> %
1B S/G Level	<u>69.7</u> %
1A S/G Pressure	<u>0</u> PSIG
1B S/G Pressure	<u>0</u> PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>
4 KV Buses	<u>(ENERGIZED)/DEENERGIZED</u>
480V Buses	<u>(ENERGIZED)/DEENERGIZED</u>
DC Batteries	<u>A/30 VOLTS B/30VOLTS</u>
Cnmt Pressure	<u>64</u> PSIG
Cnmt Sump A Level	<u>31.2</u> FEET
Cnmt Sump B Level	<u><180/113</u> INCHES
A Loop Hot Leg	<u>146.7</u> °F
A Loop Cold Leg	<u>152.6</u> °F
B Loop Hot Leg	<u>139.8</u> °F
B Loop Cold Leg	<u>124.1</u> °F
RVLIS	<u>87.6</u> %
*CET	<u>150.1</u> °F
S/G A Total Aux FW Flow	<u>0</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

A. (RUNNING/UNLOADED/STBY/OOS)
 B. (RUNNING/UNLOADED/STBY/OOS)
 TSC (RUNNING/UNLOADED/STBY/OOS)
 Security (RUNNING/UNLOADED/STBY/OOS)

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 Turb. Driven (INSERV/STBY/OOS)
 CST Level 20.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM
 FI-925 361 GPM
 1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1100 GPM
 1A. (INSERV/STBY/OOS/RECIRC)
 1B. (INSERV/STBY/OOS/RECIRC)
 RWST Level = 17.1 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)
 Post Accident Dampers (OPEN/CLOSED)

Service Water Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. (INSERV/STBY/OOS)
 1B. (INSERV/STBY/OOS)
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. (INSERV/STBY/OOS)
 1D. (INSERV/STBY/OOS)

*CET = Average of Selected Core Exit Thermocouples

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.	
1	ATWS	ANTICIPATED TRANSIENT W/D SCRAM	ATWS	ALRM	
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3	N31	SOURCE RANGE DETECTOR N-31	3.91741+01	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.63077+01	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	6.	LALM	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	TSUBTC	INCORE TC SUBCOOLED MARGIN	69.6	GOOD*	DEGF
15	LS6A	STM GEN A NARROW RANGE AVG LEVEL	69.7	HALM	%
16	LS6B	STM GEN B NARROW RANGE AVG LEVEL	88.5	HALM	%
17	PS6A	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18	PS6B	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19	GENBKRI	GENERATOR ON LINE BREAKER 161372	TRIPPED	ALRM	
20	GENBKRI2	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	.64	GOOD	PSIG
28	LSURPA	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	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	141.7	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	139.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	152.6	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	124.1	GOOD	DEGF
43	TAV6AWID	RCLA TAV6 (THOT/TCOLD WIDE RNG)	147.2	GOOD	DEGF
44	TAV6BWID	RCLB TAV6 (THOT/TCOLD WIDE RNG)	131.9	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	87.6	LALM	%
46	TCORE	E1.1 INCORE TC AVERAGE TEMP	150.1	GOOD*	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKROB1	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKROB2	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	361.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	17.1	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.2	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	71.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	46.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	47.9	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.05492+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	9.49513-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.73842+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.00577+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.57744+06	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.02182+07	HENS	CPM
16 R12	CONTAINMENT GAS MONITOR	1.00867+07	HENS	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.04562+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.58151+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.59917+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01888+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.93865+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.42069+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.1	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	69.4	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	69.4	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	69.4	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	69.4	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	67.7	GOOD	DEGF

Time: 1430
Message: 70

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room

Simulated Plant Conditions: See Attached Sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Accident evaluation and response continues.

Actions Expected:

- 1) Recovery/Re-entry and declassification discussions should commence per the guidance provided in EPIP 3-4, "Emergency Declassification and Recovery". Discussions should include but not be limited to the following:
 - A) Preliminary discussions between the EOF and the TSC on the following:
 - ° Short Term plant concerns such as:
 1. Cool down of the plant
 2. Repair and return to service of 480 volt Bus 14 transformer.
 3. Repair and return to service of the "B" RHR pump.
 4. Repair and return to service of the "B" SI pump.
 5. Repair and return to service of the "C" SI pump.
 6. Repair and return to service of the Bus 14-16 tie breaker.

° Intermediate term plant concerns such as:

1. Core damage assessment.
2. Clean-up of Auxiliary Building.
3. Clean-up of water in containment.
4. Long-term core cooling.
5. Radiological release calculations and evaluation.

B). Preliminary designation of the recovery organization.

C). State and counties may also conduct parallel recovery/re-entry discussions.

2) Recovery/Re-entry interface between the EOF/TSC and offsite agencies should be demonstrated as time allows.

3) Lead Controllers should ensure that the shift change demonstration has been adequately completed.

MAJOR PARAMETERSENGINEERED SAFEGUARDS

Reactor Shutdown YES/NO
 N-31 39 CPS
 N-32 39 CPS
 N-35 1.0E-11 AMPS
 N-36 1.0E-11 AMPS
 Avg. Nuclear Power 0 %
 RCS Pressure 5 PSIG
 PRZR Level 0 %
 A RCP RUNNING/STOPPED
 B RCP RUNNING/STOPPED
 1A S/G Level 71.8 %
 1B S/G Level 90.7 %
 1A S/G Pressure 0 PSIG
 1B S/G Pressure 0 PSIG
 Turbine/Generator ONLINE/OFFLINE
 4 KV Buses ENERGIZED/DEENERGIZED
 480V Buses ENERGIZED/DEENERGIZED
 DC Batteries A 30 VOLTS B 30 VOLTS
 Cnmt Pressure 66 PSIG
 Cnmt Sump A Level 31.2 FEET
 Cnmt Sump B Level <100>113 INCHES
 A Loop Hot Leg 132.1 °F
 A Loop Cold Leg 137.4 °F
 B Loop Hot Leg 132.1 °F
 B Loop Cold Leg 107.6 °F
 RVLIS 90.4 %
 *CET 138.1 °F
 S/G A Total Aux FW Flow 0 GPM
 S/G B Total Aux FW Flow 0 GPM

DIESEL GENERATORS

A. RUNNING/UNLOADED/STBY/OOS
 B. RUNNING/UNLOADED/STBY/OOS
 TSC RUNNING/UNLOADED/STBY/OOS
 Security RUNNING/UNLOADED/STBY/OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Turb. Driven INSERV/STBY/OOS
 CST Level 20.5 FEET

High Head S.I. Pumps

FI-924 0 GPM
 FI-925 450 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 BAST Level = 10 %

Low Head S.I. Pumps

FI-626 1100 GPM
 1A. INSERV/STBY/OOS/RECIRC
 1B. INSERV/STBY/OOS/RECIRC
 RWST Level = 15.4 %

Containment Spray Pumps

FI-931A 0 GPM
 FI-931B 0 GPM
 1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 NaOH Tank Level = 53 %

Containment Recirc Fans

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS
 A&B Header Pressure 87/86 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS
 1B. INSERV/STBY/OOS
 Surge Tank Level = 50 %

Standby Aux. Feedwater Pumps

1C. INSERV/STBY/OOS
 1D. INSERV/STBY/OOS

*CET = Average of Selected Core Exit Thermocouples

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	ATWS	ALRM
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM
3	N31	SOURCE RANGE DETECTOR N-31	3.90390+01	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.95821+01	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	5.	LALM 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	TSUBTC	INCORE TC SUBCOOLED MARGIN	82.7	GOOD* DEGF
15	LS6A	STM GEN A NARROW RANGE AVG LEVEL	71.8	HALM %
16	LS6B	STM GEN B NARROW RANGE AVG LEVEL	90.7	HALM %
17	PS6A	STM GEN A AVERAGE PRESSURE	0.	LALM PSIG
18	PS6B	STM GEN B AVERAGE PRESSURE	0.	LALM PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 16I372	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	.66	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	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	132.1	GOOD DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	132.1	GOOD DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	137.4	GOOD DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	107.6	GOOD DEGF
43	TAVSAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	134.7	GOOD DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	119.8	GOOD DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	90.4	LALM %
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	138.1	GOOD* DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD
51	V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD
52	V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	458.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	15.4	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	2.8	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	71.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	47.0	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	48.1	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.1	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.17275-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.12608+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	9.94259-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.69153+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	9.82880-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.91393+06	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.01741+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	1.02182+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.80051+05	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.67216+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.01012+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.05057+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.41457+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.6	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	69.7	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	69.7	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	69.7	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	69.7	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	67.7	GOOD	DEGF

Time: ≈ 1500
Message: 71

GINNA STATION
1993 EVALUATED EXERCISE
MESSAGE FORM

Message for: Simulator Control Room/TSC/EOF/JENC/ESC/SURVEY CTR

Simulated Plant Conditions: See Attached Sheets

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

THE EXERCISE IS TERMINATED

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Deliver when all exercise objectives have been demonstrated.

Actions Expected:

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

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	3.50752+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.91741+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00925-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	5.	LALM	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 TSUBTC	INCORE TC SUBCOOLED MARGIN	75.8	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	76.4	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	75.6	HALM	%
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 161J72	TRIPPED	ALRM	
20 GENBKRI2	GENERATOR ON LINE BREAKER 9X1J72	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	.64	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 8 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	136.9	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	136.9	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	134.4	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	134.0	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	135.7	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	135.5	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	90.3	LALM	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	139.0	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 BKROB1	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50 BKROB2	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	0.	GOOD	GPM
54 FS1B	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	14.6	LRWST	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.6	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	74.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	48.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	48.6	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.1	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.44062-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.07254+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	9.54992-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.85101+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.01742+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.02624+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.99992+06	HALM	CPM
16 R12	CONTAINMENT GAS MONITOR	9.78647+06	HALM	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.01449+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.61516+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.69671+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.09175+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.89725+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.40241+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.2	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	69.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	69.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	69.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	69.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	67.3	GOOD	DEGF

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	3.47135+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.74540+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00461-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	6.	LALM	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 TSUBTC	INCORE TC SUBCOOLED MARGIN	88.6	GOOD*	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	78.7	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	98.0	HALM	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	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	.66	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 8 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	125.8	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	125.8	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	128.2	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	127.8	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	127.0	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	126.8	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	90.4	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	130.4	GOOD*	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKROB1	MTR AUXILIARY FEEDWATER PUMP A	OFF.	GOOD	
50 BKROB2	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52 V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	14.6	LWRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	4.3	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	68.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	48.9	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	48.9	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.0	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	8.91250-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.07254+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	9.82880-01	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.66072+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	1.00577+00	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.66051+06	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.57744+06	HALM	CPM
16 R12	CONTAINMENT GAS MONITOR	1.02624+07	HENS	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	1.01449+06	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.38579+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	1.91370+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.46428+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	71.8	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	69.8	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	69.8	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	69.8	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	69.8	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	67.8	GOOD	DEGF

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	ATWS	ALRM
2	RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM
3	N31	SOURCE RANGE DETECTOR N-31	3.27340+01	GOOD CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.36511+01	GOOD CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00461-11	GOOD AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD AMP
7	NP	AVERAGE NUCLEAR POWER	.00	GOOD %
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	6.	LALM 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	TSUBTC	INCORE TC SUBCOOLED MARGIN	92.6	GOOD DEG
15	LSSA	STM GEN A NARROW RANGE AVG LEVEL	81.0	HALM %
16	LSSB	STM GEN B NARROW RANGE AVG LEVEL	100.0	HENG %
17	PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM 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	.66	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	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	124.2	GOOD DEG
40	T0410A	RCLB HOT LEG TEMPERATURE	124.2	GOOD DEG
41	T0450	RCLA COLD LEG TEMPERATURE	124.4	GOOD DEG
42	T0451	RCLB COLD LEG TEMPERATURE	124.1	GOOD DEG
43	TAVGANID	RCLA TAVG (THOT/TCOLD WIDE RNG)	124.3	GOOD DEG
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	124.2	GOOD DEG
45	LRV	REACTOR VESSEL AVERAGE LEVEL	90.4	GOOD %
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	128.2	GOOD DEG
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	BKROB1	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD
50	BKROB2	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD
51	V3505	AUX FW PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD
52	V3504	AUX FW PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT1 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
53 FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	GOOD	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	GOOD	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	GOOD	PSIG
57 BKR041	SERVICE WATER PUMP A	ON	GOOD	
58 BKR042	SERVICE WATER PUMP B	ON	GOOD	
59 BKR043	SERVICE WATER PUMP C	ON	GOOD	
60 BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	14.6	LRWN	%
3 WS033	33 FOOT LEVEL WIND SPEED	5.2	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	64.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	49.1	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	49.0	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	-.1	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	2.90067+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.00577+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.88402+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	9.88555-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	9.78647+06	HALM	CPM
15 R11	CONTAINMENT AIR PARTICULATE	9.74430+06	HALM	CPM
16 R12	CONTAINMENT GAS MONITOR	1.01303+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.63272+05	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.60390+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.27077+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.03216+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.10438+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.39035+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	72.1	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	70.0	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	70.0	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	70.0	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	70.0	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	68.1	GOOD	DEGF

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	ATWS	ALRM	
2 RXT	REACTOR TRIP BREAKER STATUS	RX TRIPPED	ALRM	
3 N31	SOURCE RANGE DETECTOR N-31	3.56860+01	GOOD	CPS
4 N32	SOURCE RANGE DETECTOR N-32	3.29609+01	GOOD	CPS
5 N35	INTERMEDIATE RANGE DETECTOR N-35	1.00461-11	GOOD	AMP
6 N36	INTERMEDIATE RANGE DETECTOR N-36	1.00461-11	GOOD	AMP
7 NP	AVERAGE NUCLEAR POWER	.00	GOOD	%
8 PRCS	REACTOR COOLANT SYSTEM AVG PRESS	6.	LALM	PSIG
9 LPZR	PRESSURIZER AVERAGE LEVEL	.0	LALM	%
10 FRCLA	REACTOR COOLANT LOOP A AVG FLW	.0	INHB	%
11 FRCLB	REACTOR COOLANT LOOP B AVG FLOW	.0	INHB	%
12 RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
13 RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	ALRM	
14 TSUBTC	INCORE TC SUBCOOLED MARGIN	95.0	GOOD	DEGF
15 LSGA	STM GEN A NARROW RANGE AVG LEVEL	83.5	HALM	%
16 LSGB	STM GEN B NARROW RANGE AVG LEVEL	100.0	HENB	%
17 PSGA	STM GEN A AVERAGE PRESSURE	0.	LALM	PSIG
18 PSGB	STM GEN B AVERAGE PRESSURE	0.	LALM	PSIG
19 GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	ALRM	
20 GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	ALRM	
21 BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	ALRM	
22 BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	ALRM	
23 BUS12A	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
24 BUS12B	NOT TERMINATED ON PPCS (7/19/91)	NOT TRIP	DEL	
25 B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	ALRM	
26 B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	ALRM	
27 PCV	CONTAINMENT AVERAGE PRESSURE	.66	GOOD	PSIG
28 LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	31.2	HENB	FEET
29 L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	HIGHER	INHB	
30 L0943E	SUMP B LEVEL 8 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	123.4	GOOD	DEGF
40 T0410A	RCLB HOT LEG TEMPERATURE	123.4	GOOD	DEGF
41 T0450	RCLA COLD LEG TEMPERATURE	122.7	GOOD	DEGF
42 T0451	RCLB COLD LEG TEMPERATURE	122.4	GOOD	DEGF
43 TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	123.1	GOOD	DEGF
44 TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	122.9	GOOD	DEGF
45 LRV	REACTOR VESSEL AVERAGE LEVEL	90.5	GOOD	%
46 TCCORE	E1.1 INCORE TC AVERAGE TEMP	127.9	GOOD	DEGF
47 FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48 FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49 BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF.	GOOD	
50 BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51 V3505	AUX FW PUMP STEAM SUPPLY VALVE A	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.	6000	GPM
54 FSIB	SAFETY INJECTION LOOP B AVG FLOW	0.	6000	GPM
55 P2160	SERVICE WATER PUMPS A & B HEADER	87.	6000	PSIG
56 P2161	SERVICE WATER PUMPS C & D HEADER	86.	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	

TREND GROUP ASSIGNMENT SUMMARY

GROUP: EVENT2 PROCEDURE: EPIP 1-5 PLANT STATUS

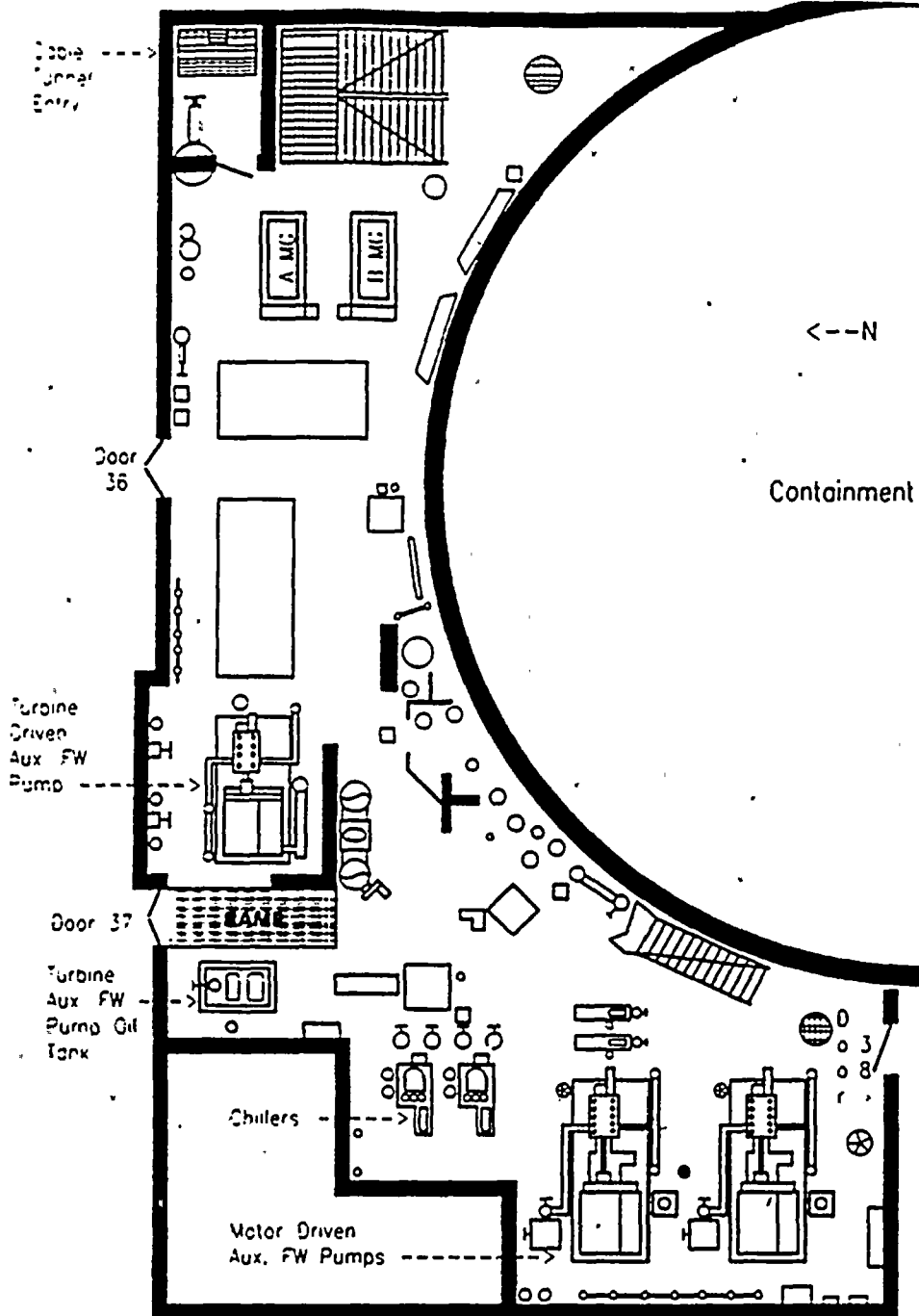
POINT ID	DESCRIPTION	VALUE	QUAL	E. U.
1 F0619	COMPONENT COOLING LOOP TOTAL FLW	6493.	GOOD	GPM
2 LRWST	REFUELING WATER STORAGE TANK LVL	14.6	LMRN	%
3 WS033	33 FOOT LEVEL WIND SPEED	3.7	GOOD	MPH
4 WD033	33 FOOT LEVEL WIND DIRECTION	67.	GOOD	DEG.
5 WT033	33 FOOT LEVEL TEMPERATURE	49.5	GOOD	DEGF
6 WT250	250 FOOT LEVEL TEMPERATURE	49.6	GOOD	DEGF
7 WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	.1	GOOD	DEGF
8 R01	AREA 1-CONTROL ROOM	9.22572-02	GOOD	MR/HR
9 R02	AREA 2-CONTAINMENT	3.14411+05	HALM	MR/HR
10 R05	AREA 5-SPENT FUEL PIT	1.02329+00	GOOD	MR/HR
11 R09	AREA 9-LETDOWN LINE MONITOR	2.75423+01	GOOD	MR/HR
12 R34	AREA 34 - AUX BLDG CV SPRAY PUMP	9.44062-01	GOOD	MR/HR
13 R35	AREA 35-PASS SAMPLE PANEL	1.09648+00	GOOD	MR/HR
14 R10A	CONTAINMENT IODINE MONITOR R10A	1.00432+07	HENG	CPM
15 R11	CONTAINMENT AIR PARTICULATE	1.01741+07	HENG	CPM
16 R12	CONTAINMENT GAS MONITOR	1.04864+07	HENG	CPM
17 R10B	PLANT VENT IODINE MONITOR R10B	9.84289+05	HALM	CPM
18 R13	AUX BLDG EXHAUST AIR PARTICULATE	2.55932+02	GOOD	CPM
19 R14	AUX BLDG EXHAUST GAS MONITOR	5.69671+01	GOOD	CPM
20 R18	LIQUID WASTE DISPOSAL MONITOR	1.05925+03	GOOD	CPM
21 R19	STEAM GENERATOR BLOWDOWN DRAIN	2.06835+03	GOOD	CPM
22 R29	AREA 29-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
23 R30	AREA 30-CONTAINMENT HIGH RANGE	2.99398+02	HALM	R/HR
24 R15	CONDENSER AIR EJECTOR EXHAUST	1.46428+03	GOOD	CPM
25 R12A5	CV VENT CHAN 5-LOW RANGE GAS	4.20511-05	GOOD	UCI/CC
26 R12A6	CV VENT CHAN 6-AREA GAMMA	2.00000+00	GOOD	MR/HR
27 R12A7	CV VENT CHAN 7-MID RANGE GAS	4.20511-05	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	2.30991-06	GOOD	UCI/CC
30 R14A7	PLANT VENT CHAN 7-MID RANGE GAS	9.98974-04	GOOD	UCI/CC
31 R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	2.20996-03	GOOD	UCI/CC
32 R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.22985-06	GOOD	UCI/CC
33 R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.80975-05	GOOD	UCI/CC
34 R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.52999-03	GOOD	UCI/CC
35 R31	AREA 31 STEAM LINE A (SPING)	3.61997-03	GOOD	MR/HR
36 R32	AREA 32 STEAM LINE B (SPING)	3.61997-03	GOOD	MR/HR
37 CVH	CV HYDROGEN CONCENTRATION	.0	GOOD	%
38 TCV03	CV BASEMENT LEVEL 6FT TEMP #3	72.4	GOOD	DEGF
39 TCV07	CV INTERMEDIATE LVL 6FT TEMP #7	70.3	GOOD	DEGF
40 TCV08	CV INTERMEDIATE LVL 6FT TEMP #8	70.3	GOOD	DEGF
41 TCV09	CV INTERMEDIATE LVL 6FT TEMP #9	70.3	GOOD	DEGF
42 TCV10	CV INTERMEDIATE LVL 6FT TEMP #10	70.3	GOOD	DEGF
43 TCV17	CV OPERATING LEVL 6FT TEMP #17	68.2	GOOD	DEGF

R.E.GINNA STATION

Intermediate Building North - Basement Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTENTHES SRP



No. dpm/100cm2

07:30-09:10
 All Areas
 (Clean)
 Radiation Levels
 0.01mR/hr
 Smears
 250dpm
 Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

= Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

* = Cont. Area
 * = High Cont. Area
 + = Radiation Area
 * = High Rad. Area
 * = Locked High Rad.

R.E.GINNA STATION

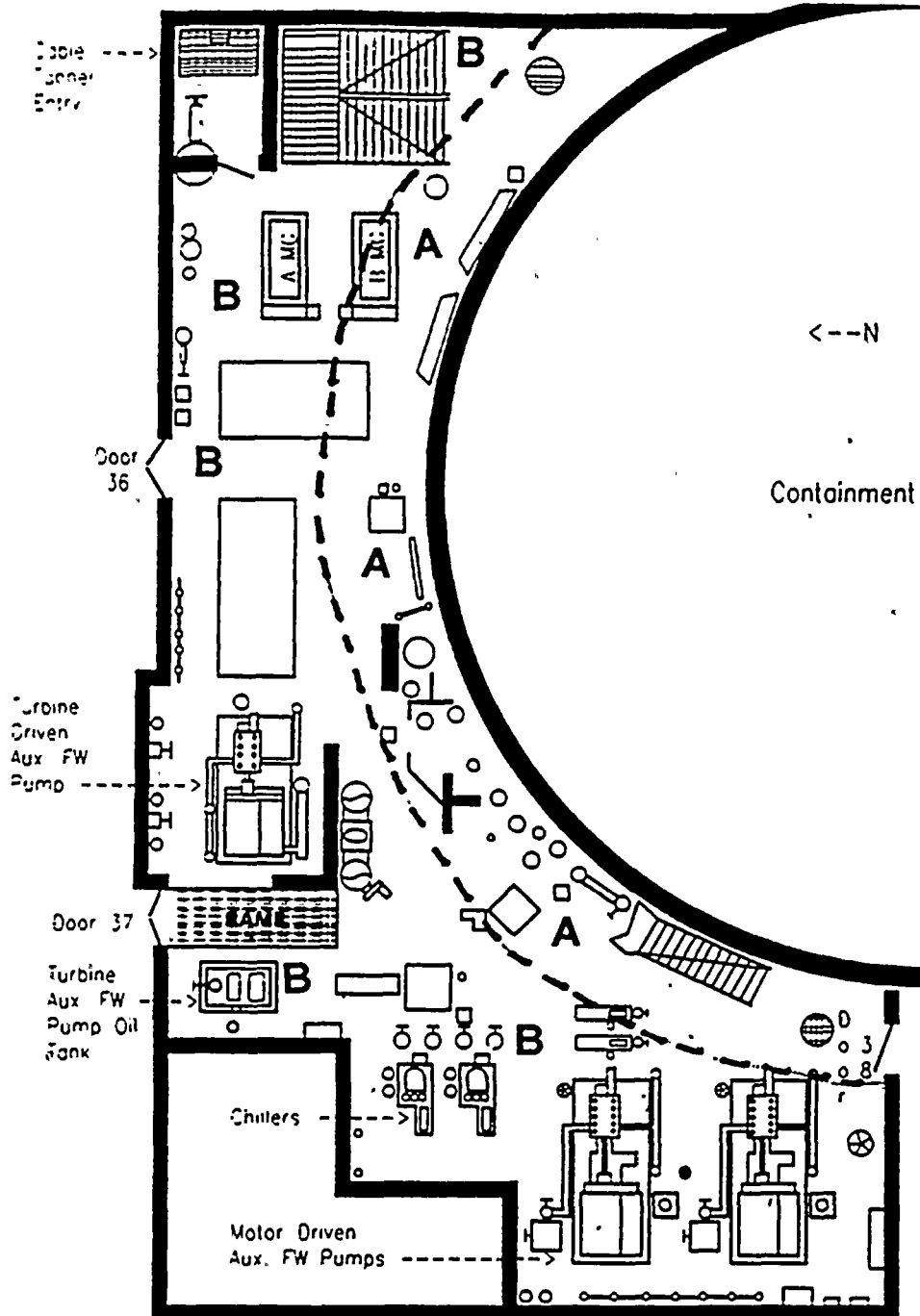
Intermediate Building North - Basement Level

Technician: _____ Date: _____ Time: _____

Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in mr/hr unless otherwise noted.

INT-THES PEP



No. dpm/100cm²

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

(#) = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

• = Cont. Area
 • = High Cont. Area
 • = Radiation Area
 • = High Rad. Area
 • = Locked High Rad.

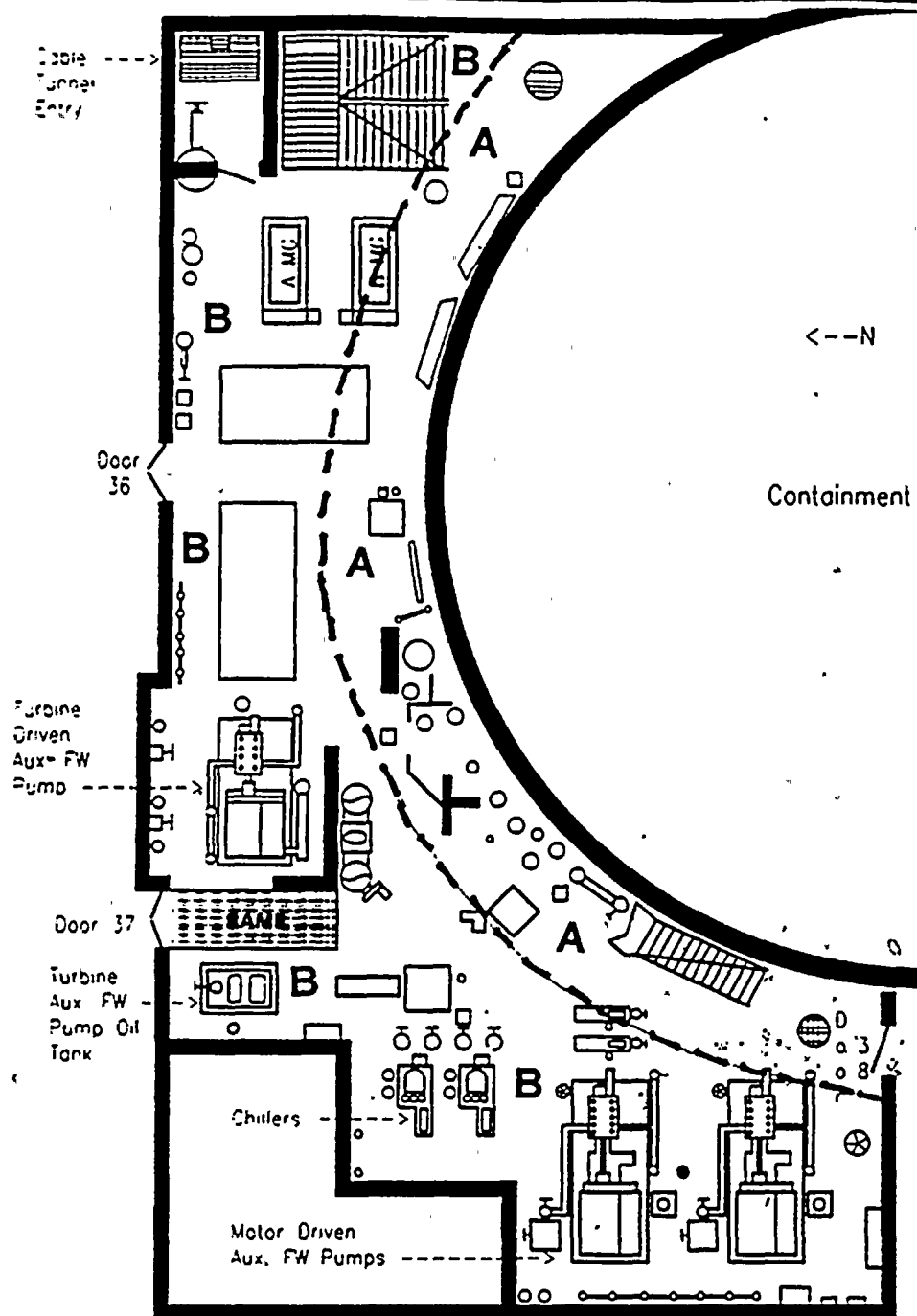
R.E.GINNA STATION

Intermediate Building North - Basement Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in mr/hr unless otherwise noted.

INT4THLS FR



No.	dpm/100cm ²
-----	------------------------

10:30-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- # = Smear Location -x-x- = Rad/Cont. Barrier
= Radiation Level # = Neutron Radiation Level
#c = Contact Reading

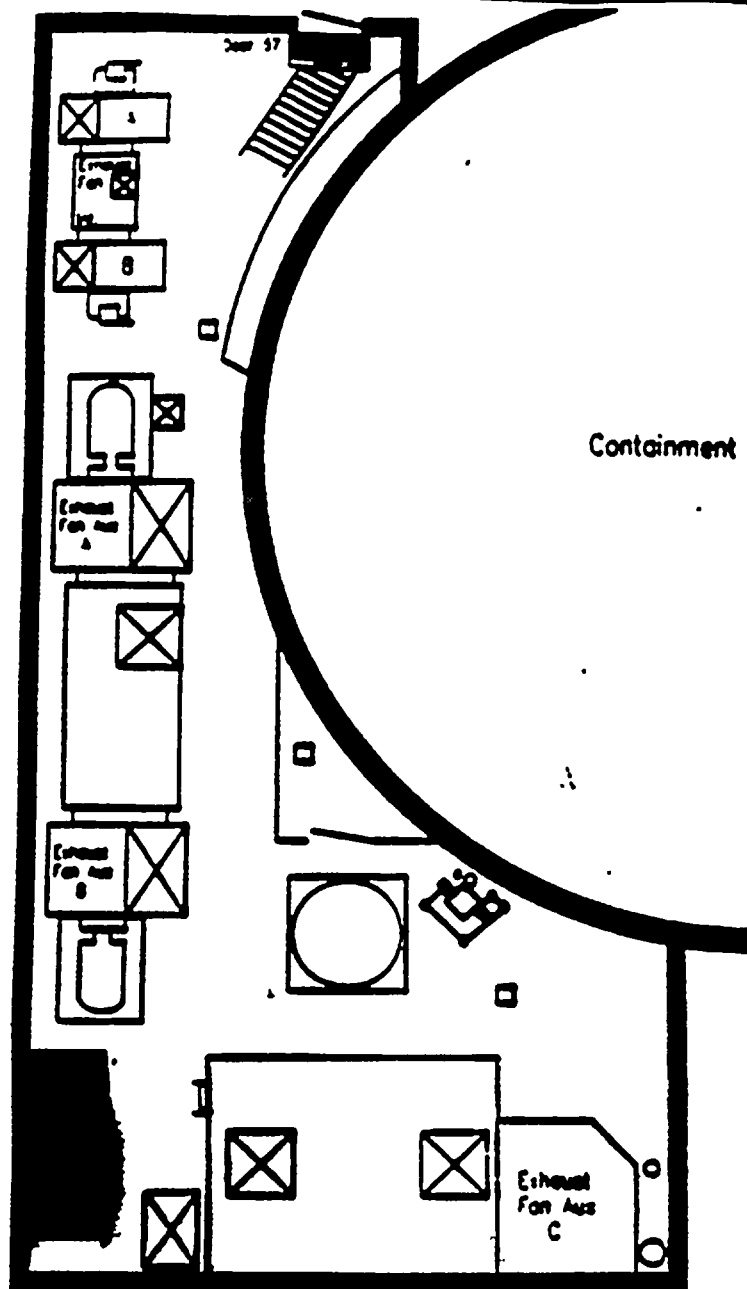
Technician Remarks:

- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad.

R.E.GMNA STATION

Intermediate Building South - Top Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mR/hr unless otherwise noted.



No. _____ cm/100cm²

07:30-09:10
 All Areas
 (Clean)
 Radiation Levels
 0.01mR/hr
 Smears
 250dpm
 Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

⊙ = Smear Location -X-X- = Rad/Cont. Barrier
 ⊕ = Radiation Level △ = Neutron Radiation Level
 ⊗ = Contact Reading

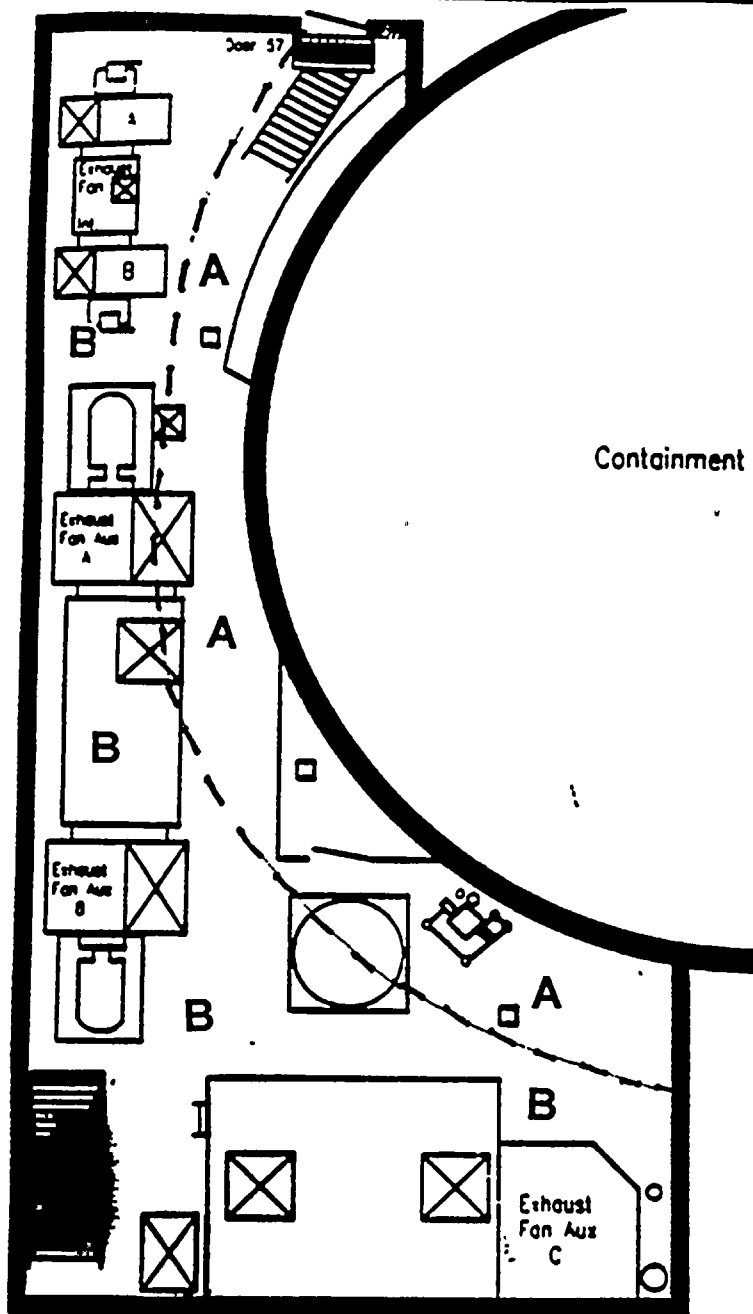
Technician Remarks: _____

• = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊙ = High Rad. Area
 ⊗ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Top Level

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm2

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⚡ = Neutron Radiation Level

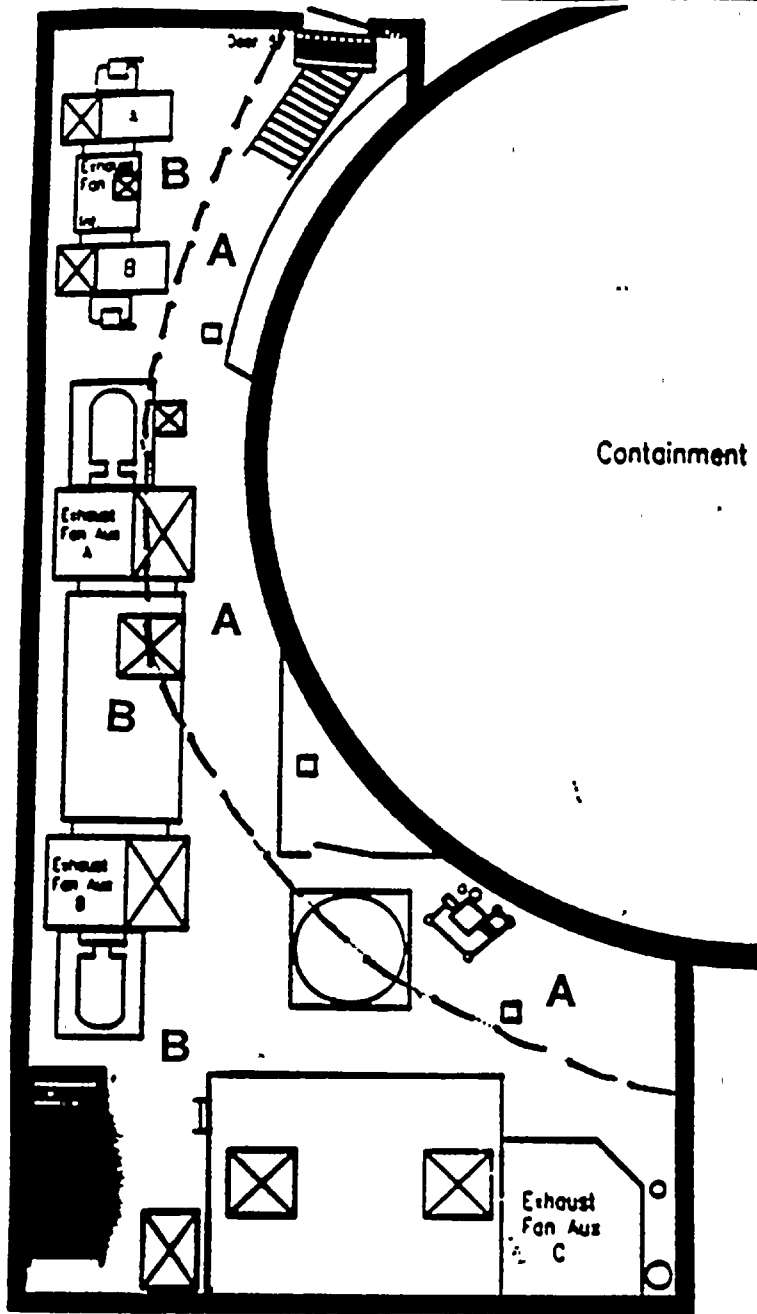
Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Top Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

10:30-10:50

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- X-X- = Rad/Cont. Barrier
- ⊙ = Neutron Radiation Level

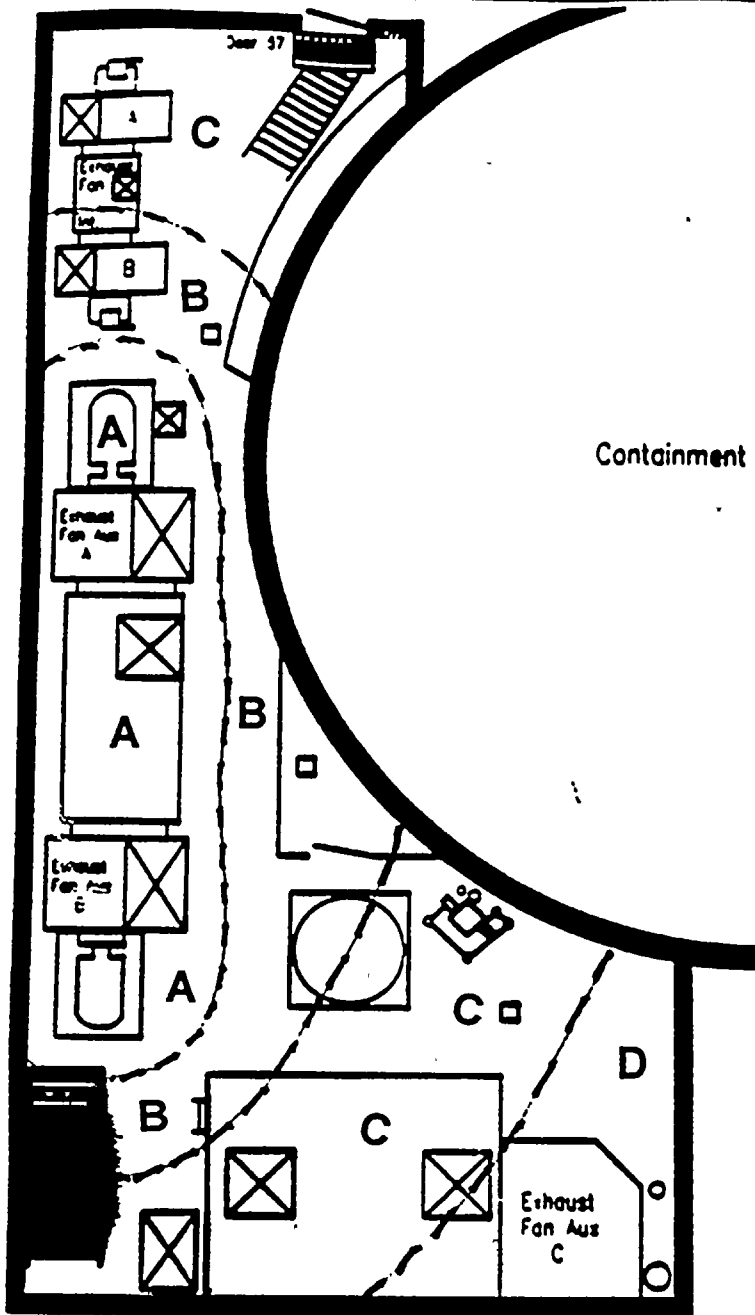
Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Top Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mR/hr unless otherwise noted.



No. dam/100cm2

10:50-12:50

Radiation Levels

A=6R/hr
 B=1R/hr
 C=500mR/hr
 D=37mR/hr

Smears

5,000dpm

Airborne Activity

Iodine=3E-9 uCi/cc

Part.=9E-9 uCi/cc

- ⊙ = Smear Location
- ⊗ = Radiation Level
- ⊕ = Contact Reading
- X-X- = Rad/Cont. Barrier
- ⚡ = Neutron Radiation Level

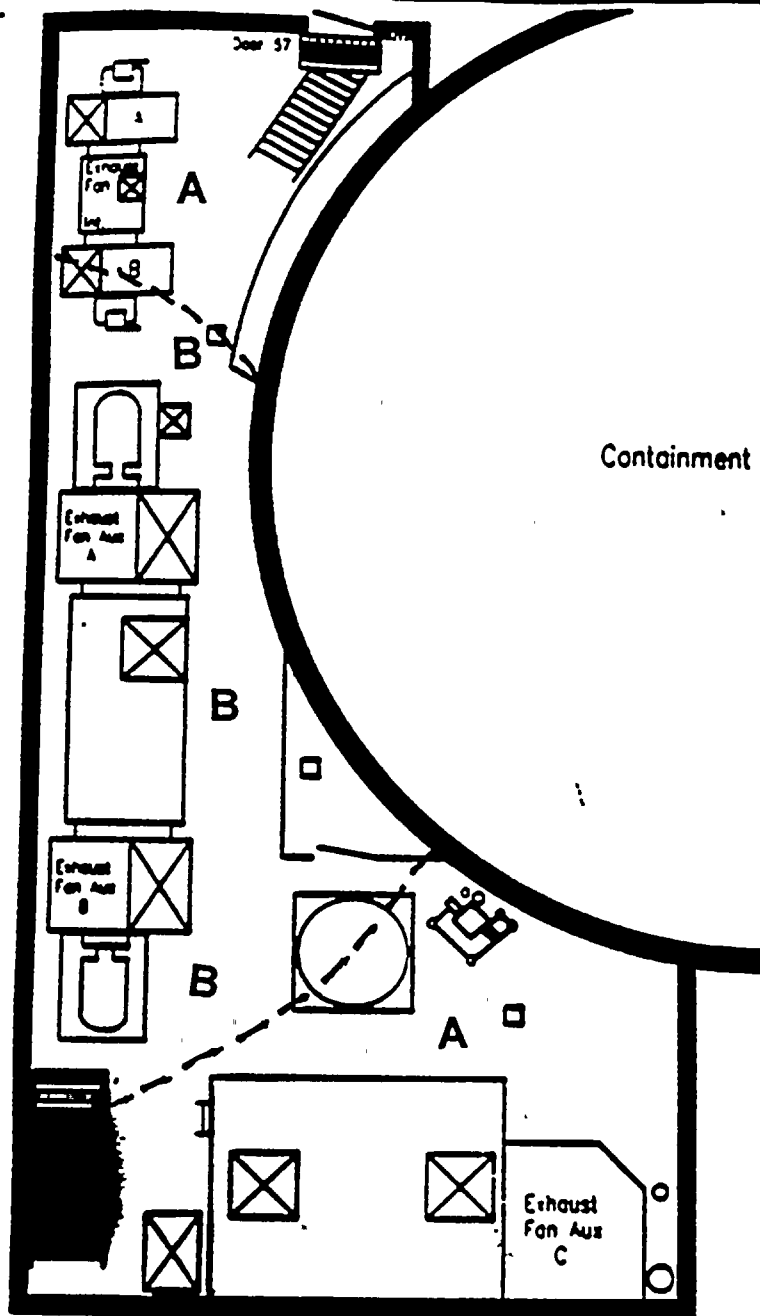
Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊕ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Top Level

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

12:50-15:00

Radiation Levels

A=37mR/hr

B=50mR/hr

Smears

A=3000dpm

B=5000dpm

Airborne Activity

Iodine=2E-9 uCi/cc

Part.=2E-9 uCi/cc

- ⊗ = Smear Location
- ⊗ = Radiation Level
- ⊗ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⊗ = Neutron Radiation Level

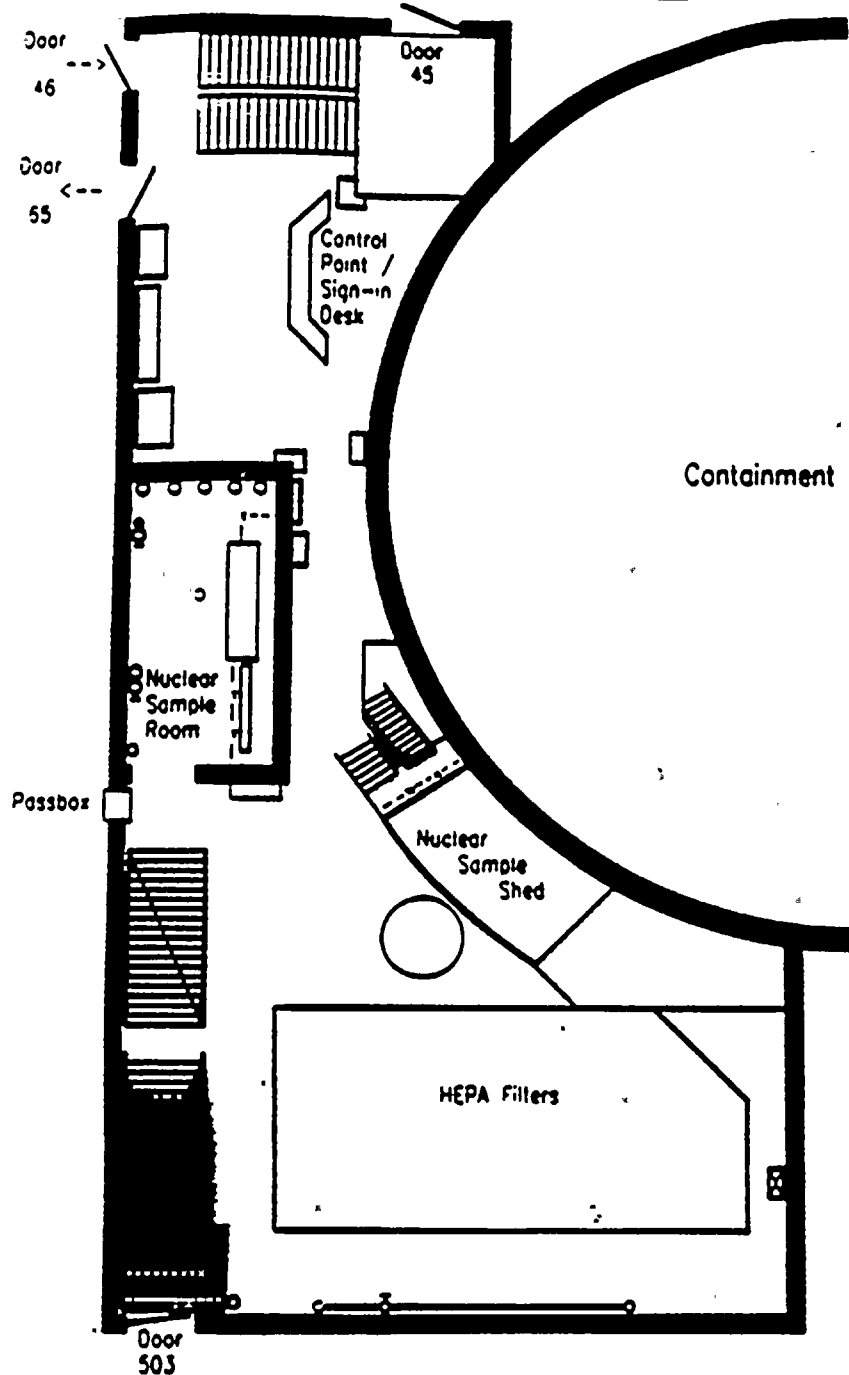
Technician Remarks: _____

- = Cont. Area
- ⊗ = High Cont. Area
- = Radiation Area
- ⊗ = High Rad. Area
- ⊗ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Mezzanine Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mR/hr unless otherwise noted.



No. 49m/100cm2

07:30-09:10

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- = Smear Location
- = Radiation Level
- = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

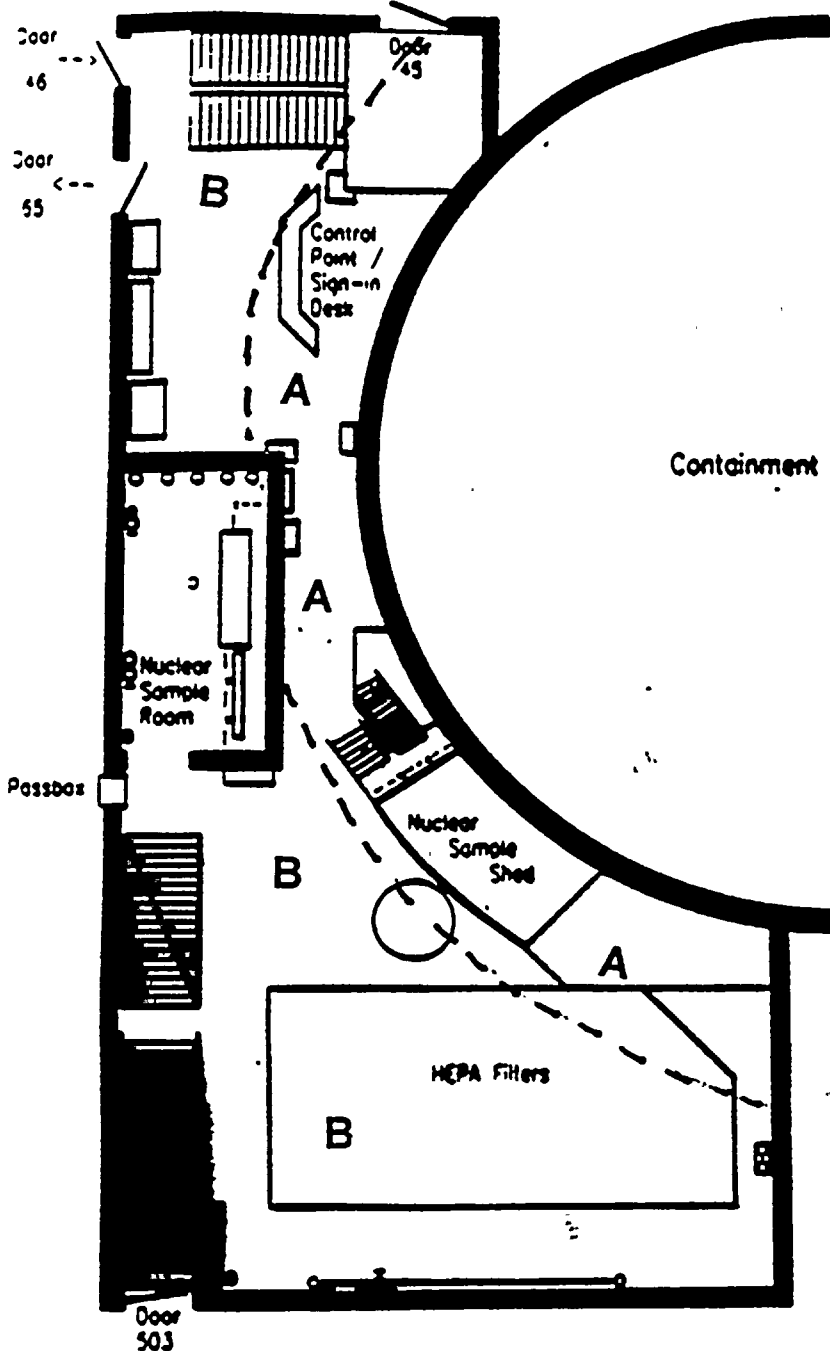
Technician Remarks: _____

- = Cont. Area
- = High Cont. Area
- = Radiation Area
- = High Rad. Area
- = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Mezzanine Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mR/hr unless otherwise noted.



No. _____ dpm/100cm²

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⚡ = Neutron Radiation Level

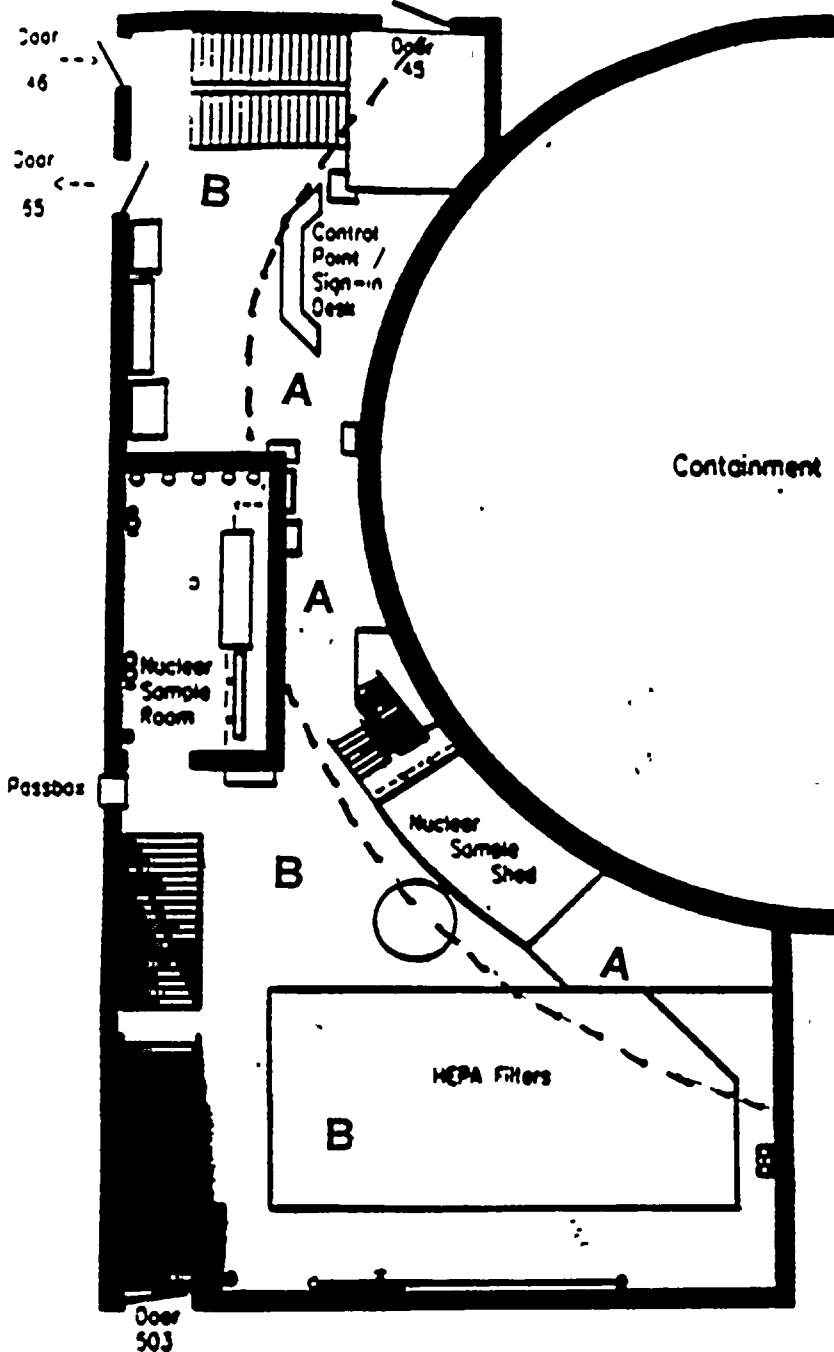
Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E. GINNA STATION

Intermediates Building South - Mezzanine Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mR/hr unless otherwise noted.



No. 49m/100cm²

10:30-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- = Smear Location
- ⊗ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

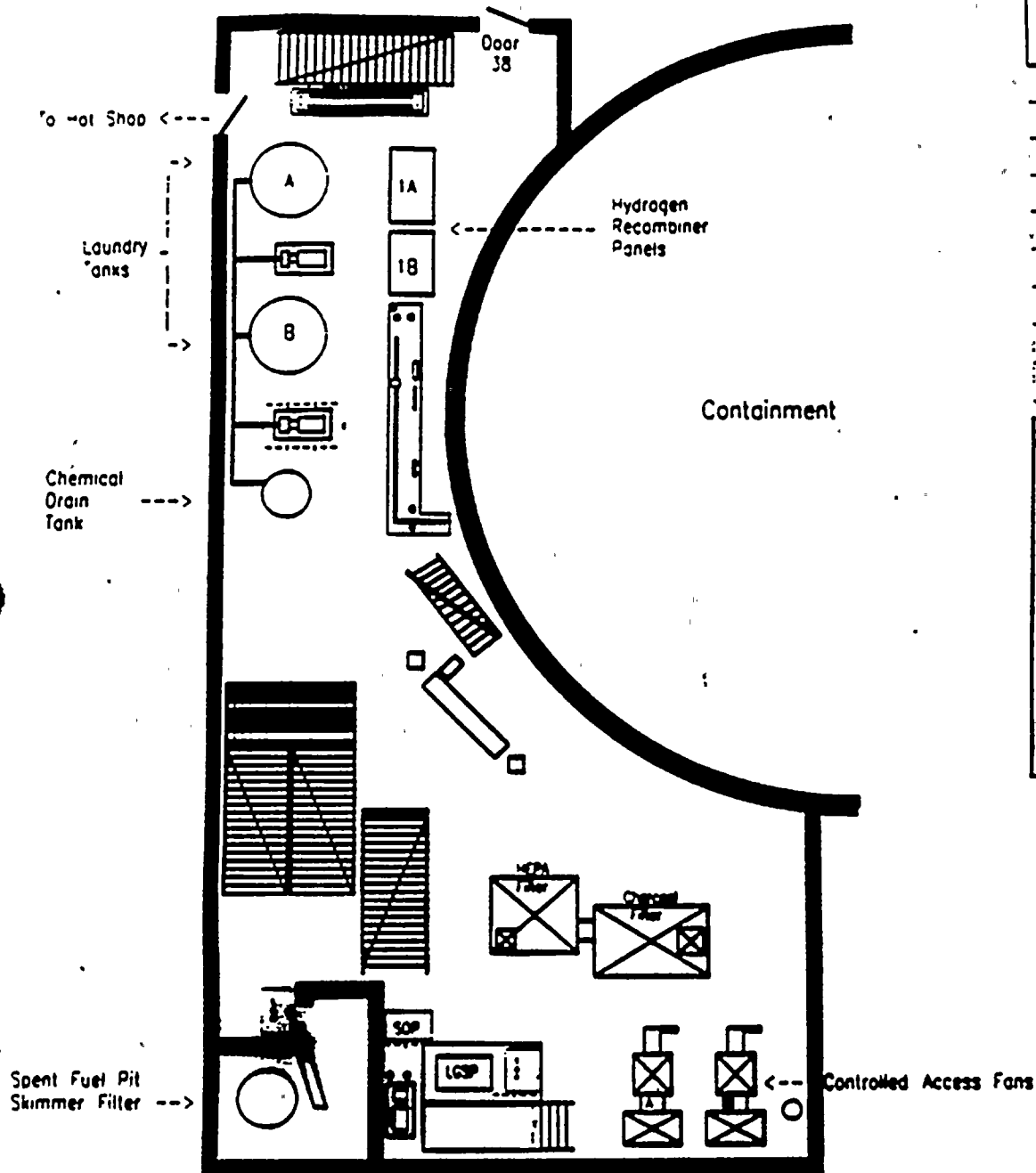
Technician Remarks: _____

- = Cont. Area
- ⊗ = High Cont. Area
- = Radiation Area
- ⊗ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Basement Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: 'All readings are in mr/hr unless otherwise noted.



No. dpm/100cm2

07:30-09:10

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- = Smear Location
- = Radiation Level
- = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

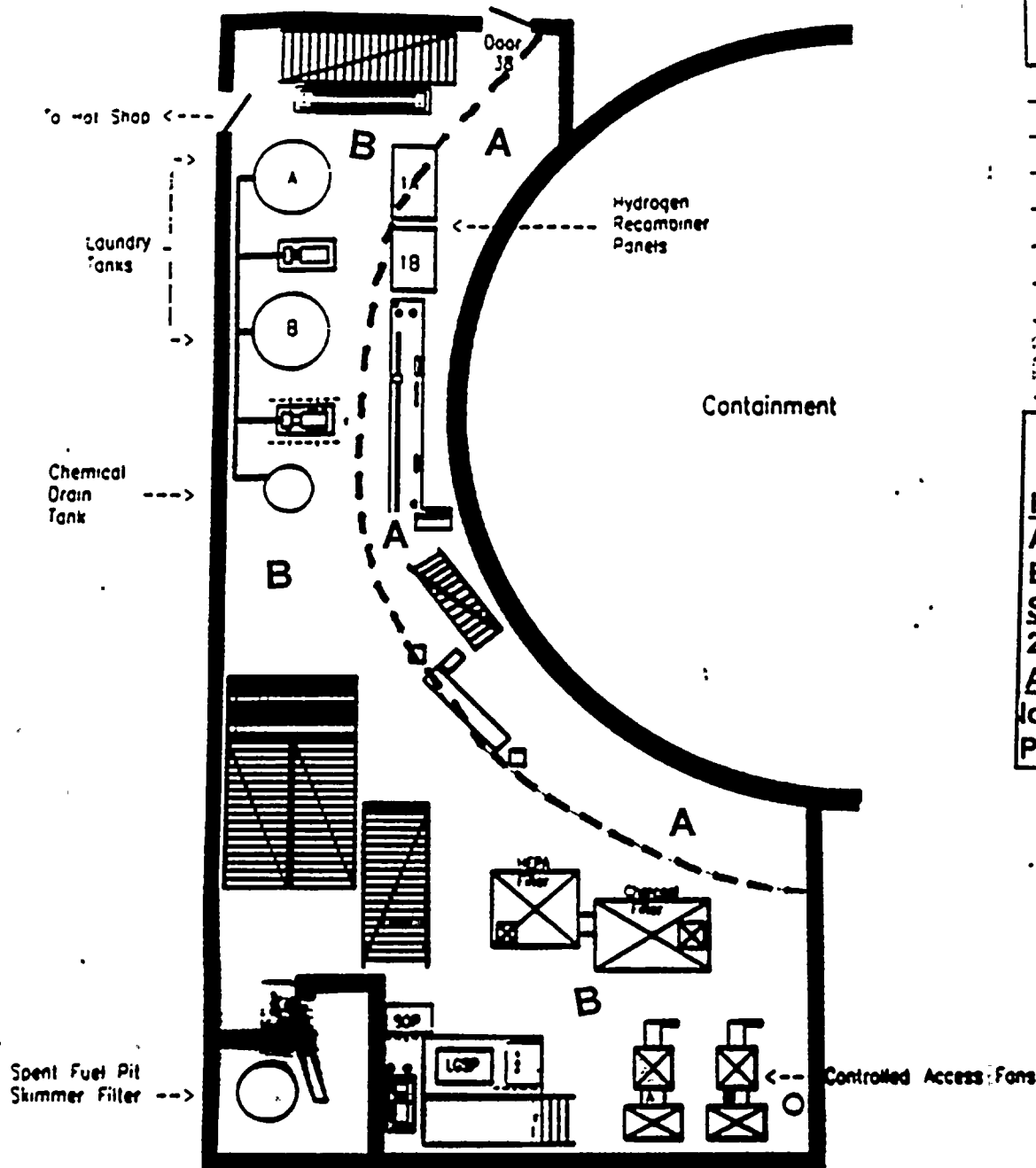
Technician Remarks: _____

- = Cont. Area
- = High Cont. Area
- = Radiation Area
- = High Rad. Area
- = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Basement Level

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⚠ = Neutron Radiation Level

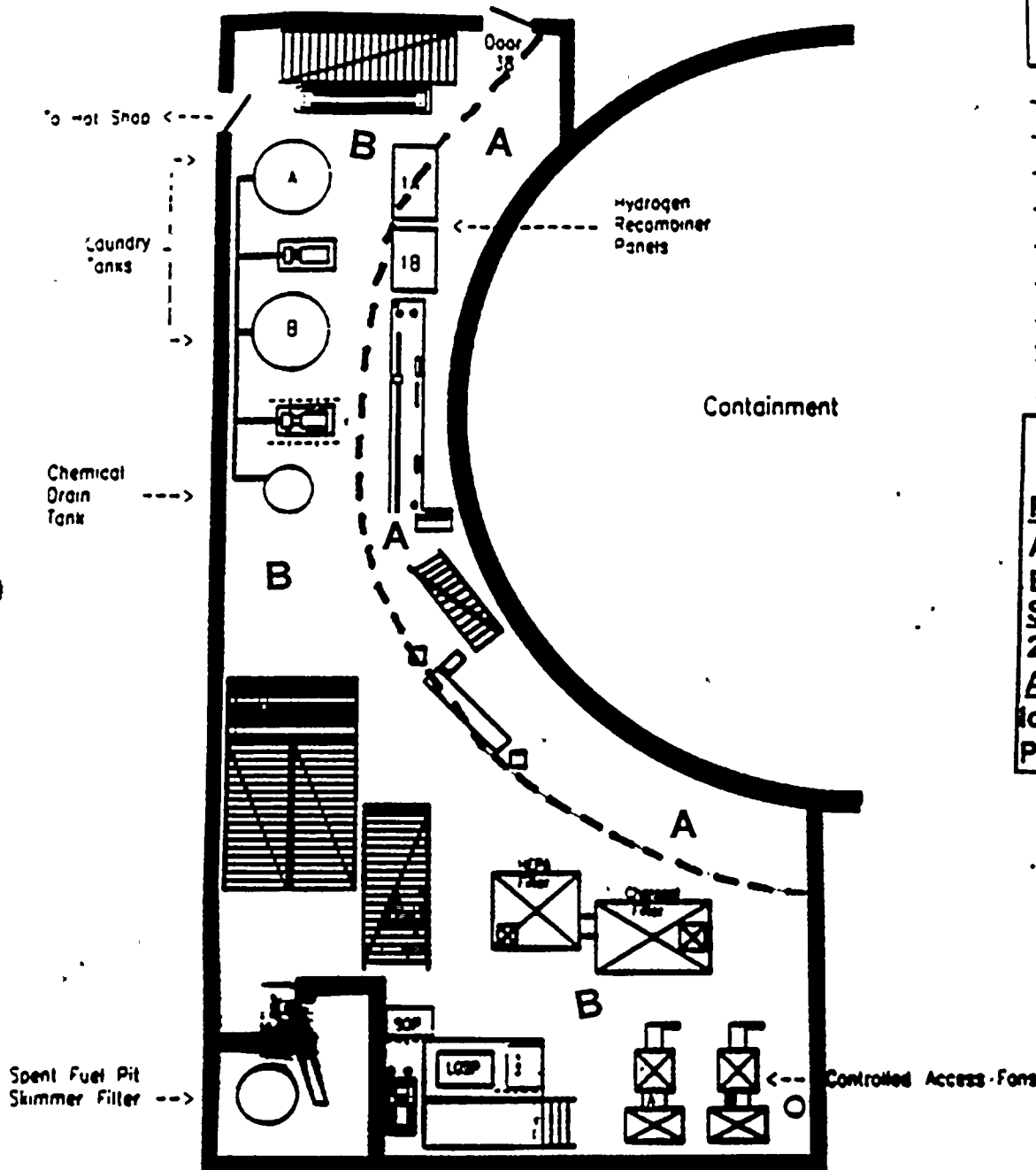
Technician Remarks: _____

- ⊙ = Cont. Area
- ⊙ = High Cont. Area
- ⊙ = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Basement Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.



No. 4pm/100cm2

10:30-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr





Smears

250dpm

Airborne Activity

Iodine = $1E-11$ uCi/cc

Part.=1E-10 uCi/cc

-  = Smear Location
  = Rad/Cont. Barrier
 = Radiation Level
  = Neutron Radiation Level
 = Contact Reading

Technician Remarks:

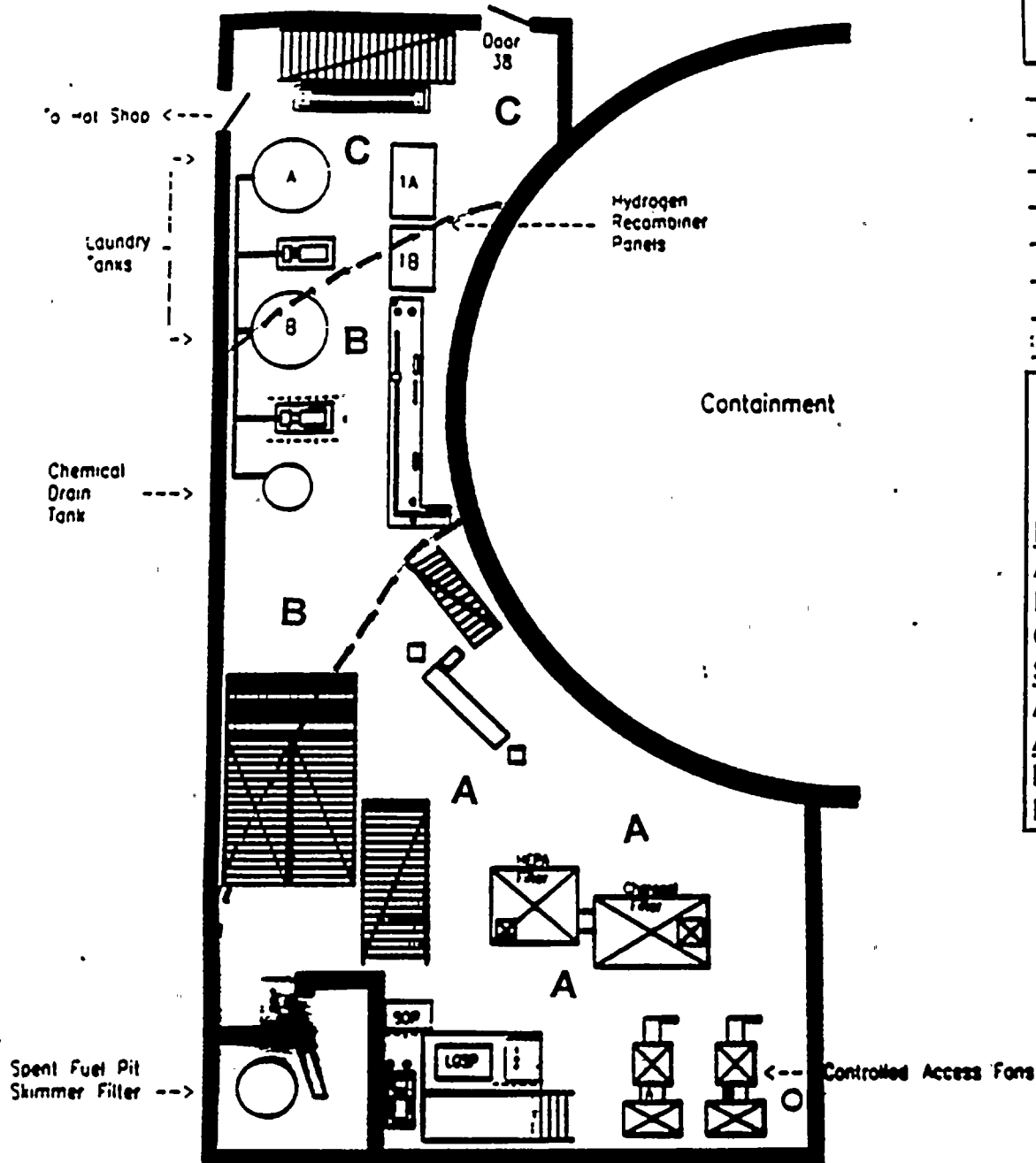
- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ◻ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Basement Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm²



10:30-15:00

DURING PASS OPERATION

Radiation Levels

A=3R/hr

B=500mR/hr

C=50mR/hr

Smears

All Areas=250dpm

Airborne Activity

Iodine=1E-9 uCi/cc

Part.=5E-9 uCi/cc

- = Smear Location
- ⊗ = Radiation Level
- ⊙ = Contact Reading
- X-X- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

Technician Remarks: _____

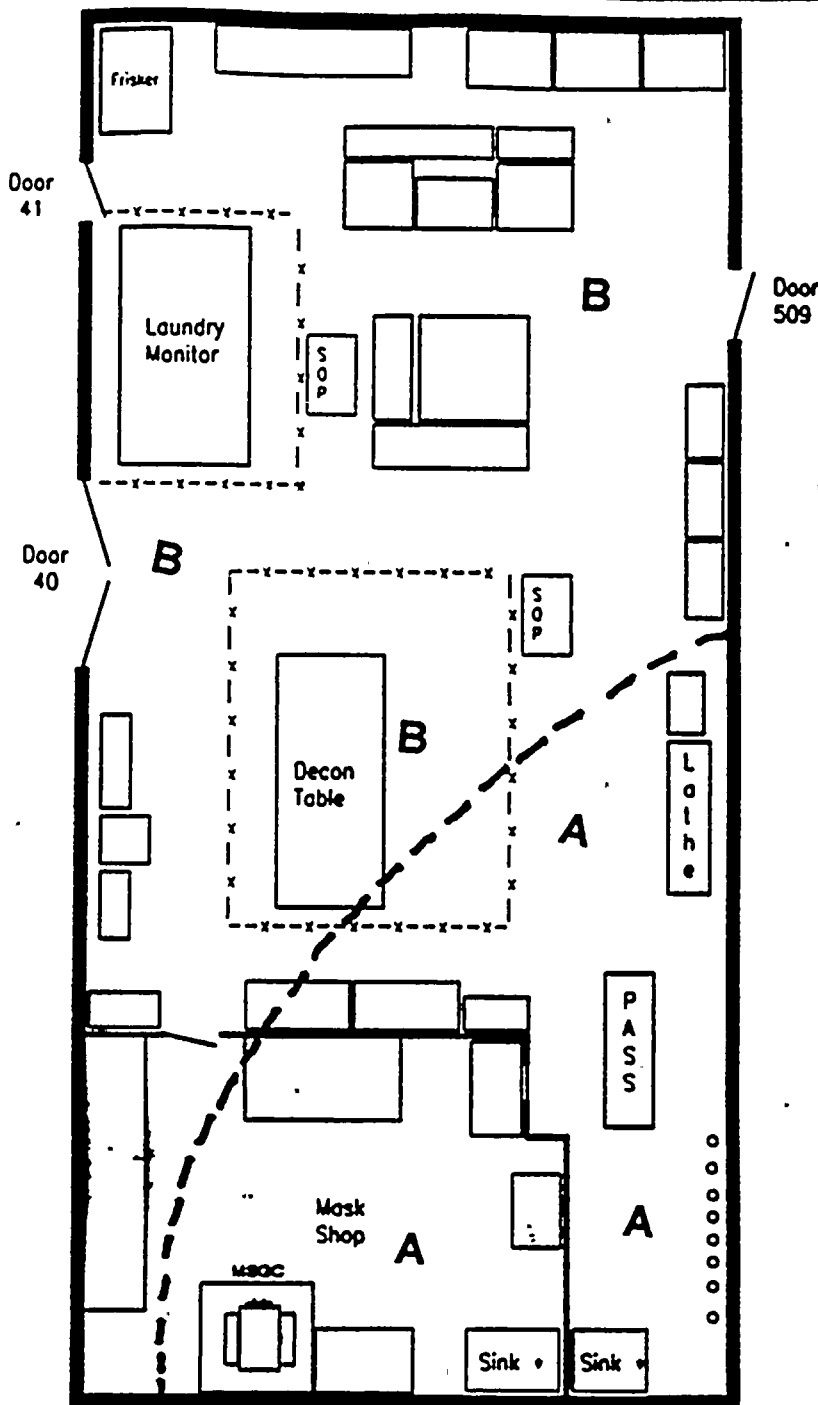
- = Cont. Area
- ⊗ = High Cont. Area
- ⊙ = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South Hotshop

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

HOTSHOP FIVE



No.	dpm/100cm ²

PASS FLOW
07:30-15:00

Radiation Levels

A=50mR/hr

B=25mr/hr .

Smears
250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

R-35 readings
3R/hr


*****NOTE:*****

CALL

TSC

(506)

**BEFORE
STARTING
SAMPLE
FLOW**

- (Y) = Smear Location -x--x- = Rad/Cont. Barrier
= Radiation Level  = Neutron Radiation Level
 #c = Contact Reading

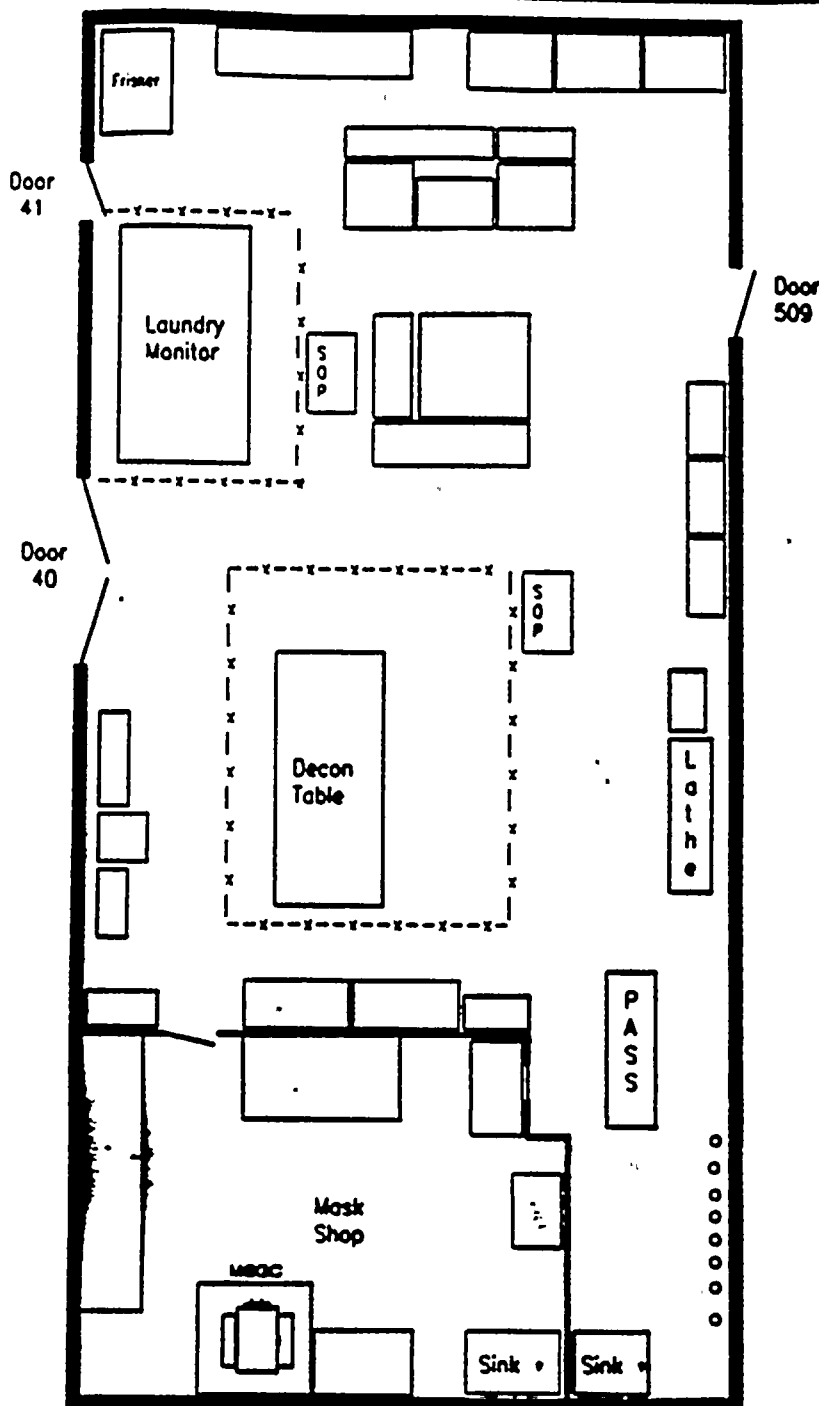
Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

Atlanta's Southside Hotshop

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in m³/hr unless otherwise noted.

NOTES



No.	dpm/100cm ²

NO PASS FLOW
07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc
R-35 readings
0.01 mR/hr
*****NOTE:*****
CALL
TSC
(506)
BEFORE
STARTING
SAMPLE
FLOW

- * = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level ⚠ = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks:

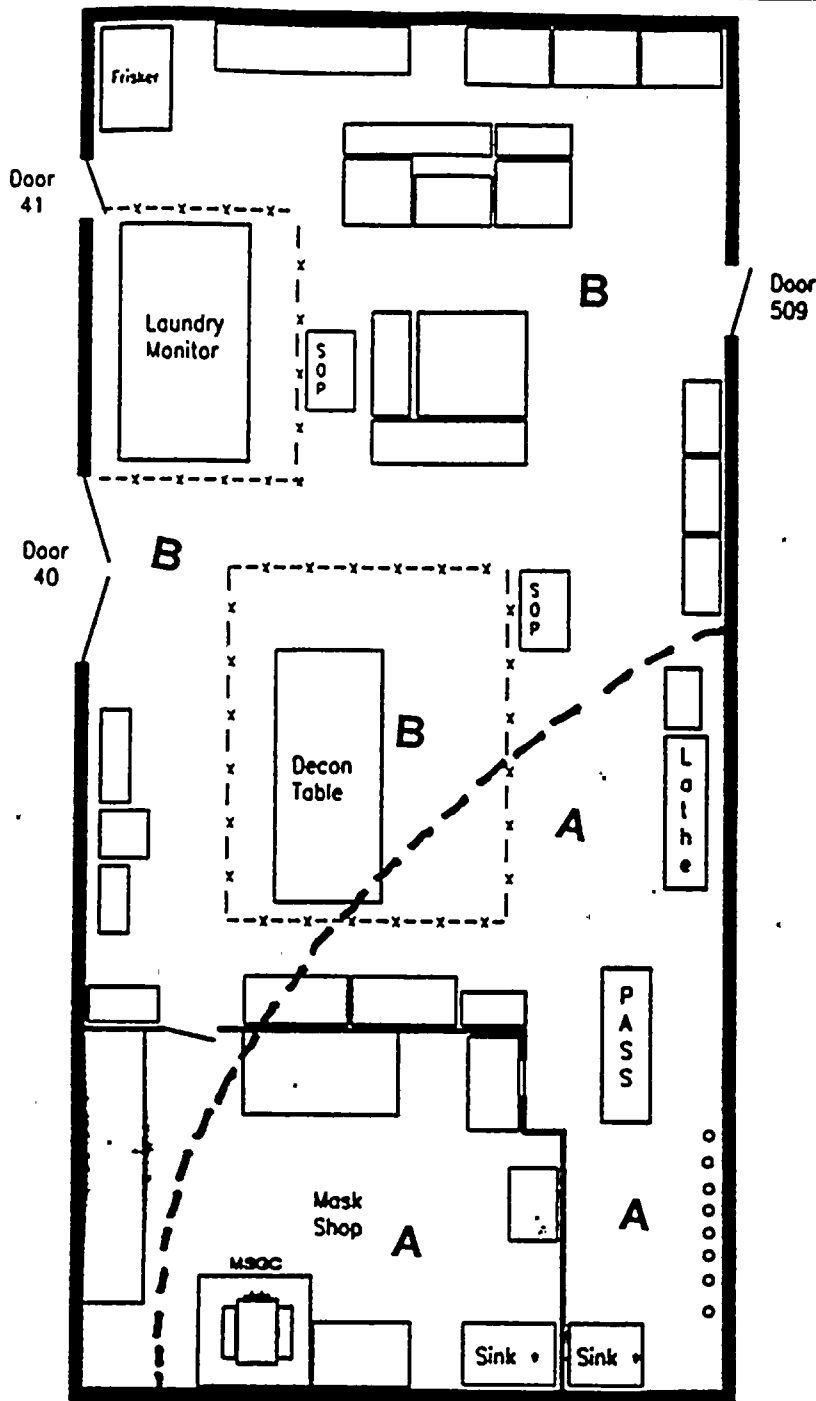
- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building South - Hotshop

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

HOTSHOP RPP



No.	dpm/100cm2

PASS FLOW
07:30-15:00

Radiation Levels

A=50mR/hr

B=25mr/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

R-35 readings

3R/hr

NOTE:

CALL

TSC

(506)

BEFORE

STARTING

SAMPLE

FLOW

- # = Smear Location
- x-x- = Rad/Cont. Barrier
- # = Radiation Level
- △# = Neutron Radiation Level
- #c = Contact Reading

Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊕ = Locked High Rad. Area

R.E.GINNA STATION

Contaminated Storage Building

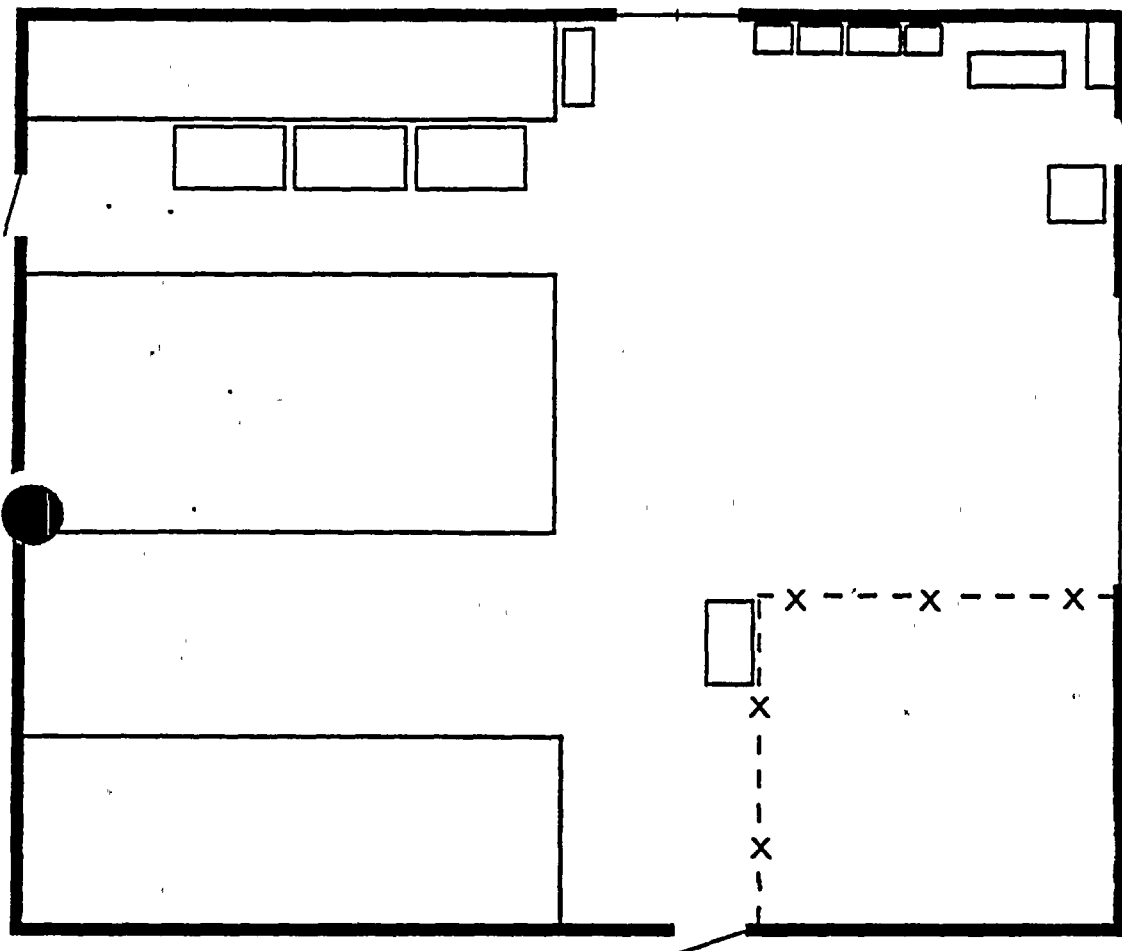
Technician: _____ Date: _____ Time: _____ RWP/SWP #: _____

Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in mr/hr unless otherwise noted.

CN470601.FPP

No.	dpm/100cm2



07:30-15:00

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- # = Smear Location -x--x- = Rad/Cont. Barrier
 ● = Radiation Level # = Neutron Radiation Level
 ⊙ = Contact Reading

Technician Remarks: _____

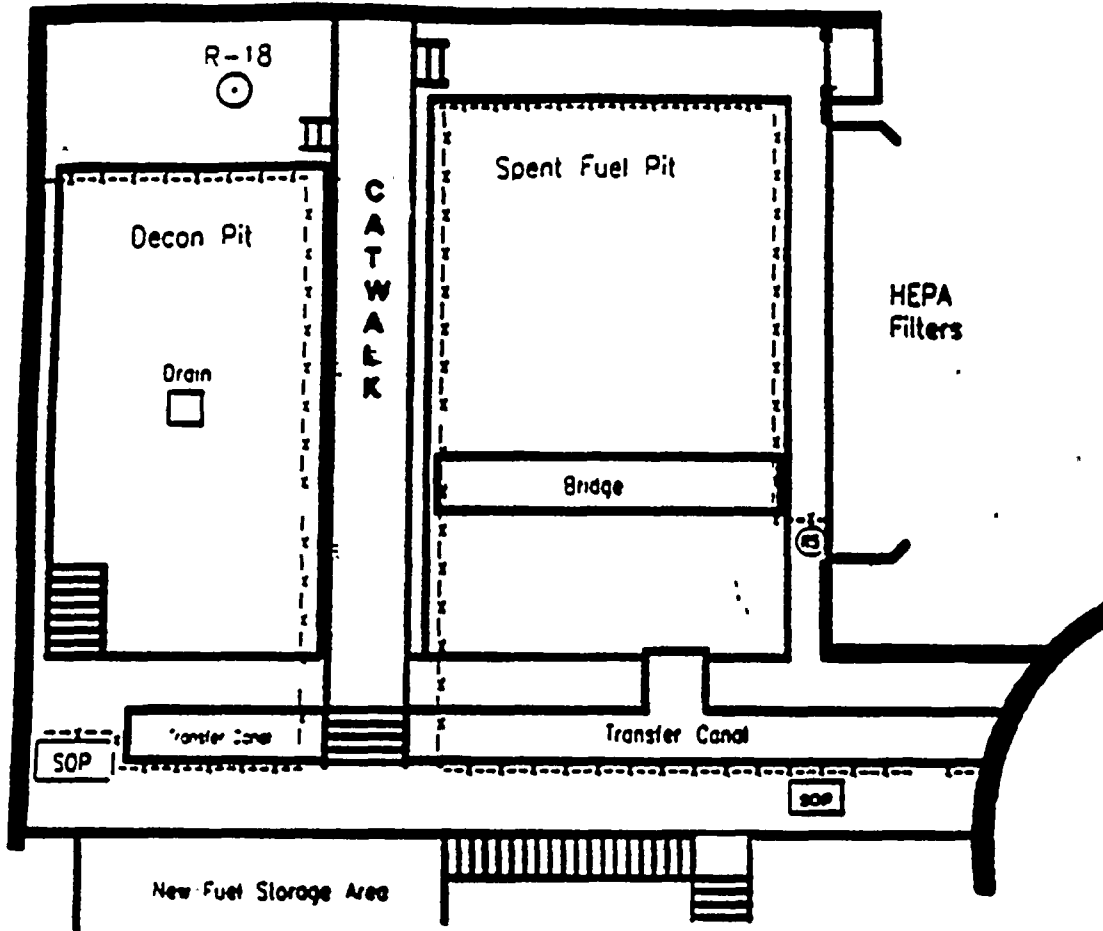
- * = Cont. Area
 ⊕ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊕ = Locked High Rad. Area

R.E.GINNA STATION

Spent Fuel Pit and Decon Pit

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm²



07:30-09:10

All Areas
 Radiation Levels
 0.02mR/hr
 Smears
 250dpm
 Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

⊙ = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level △ = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

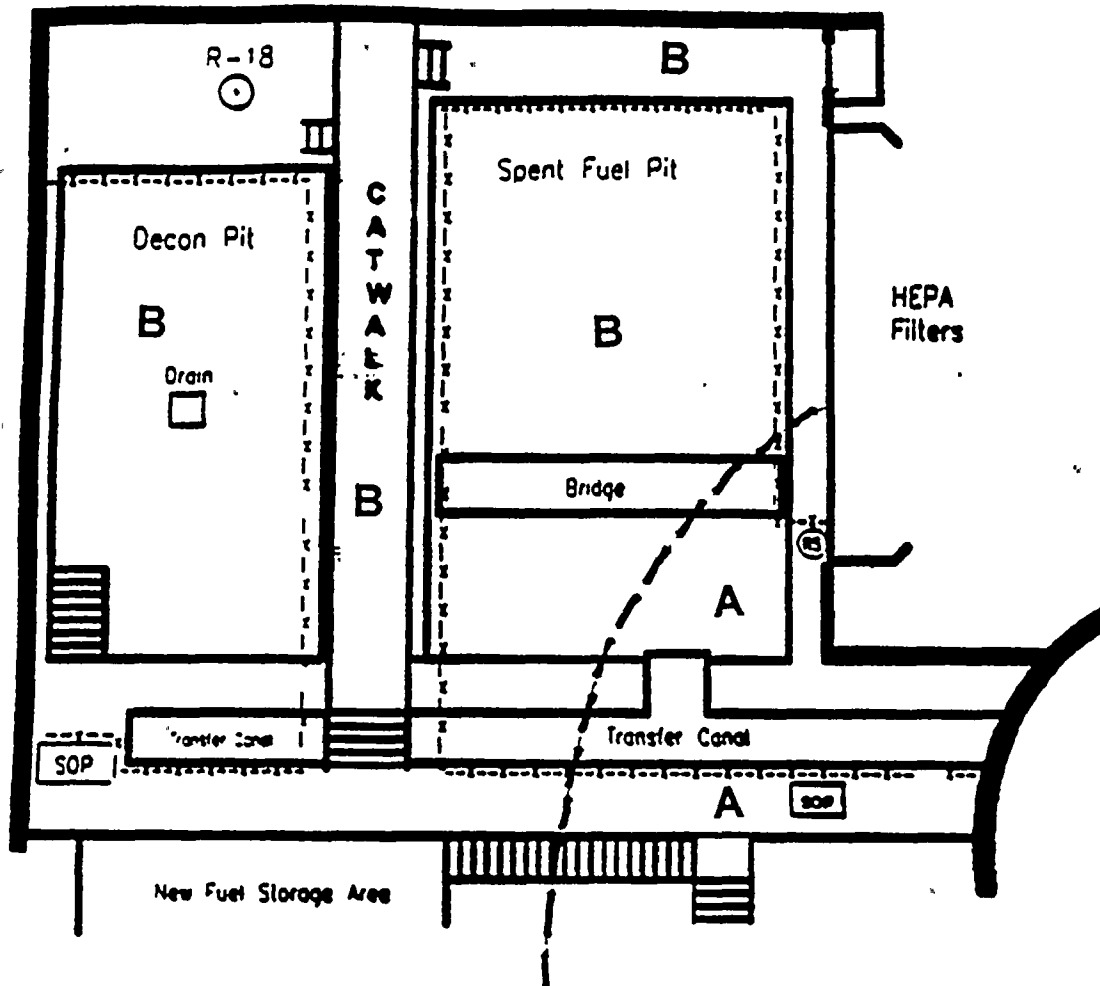
• = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊙ = High Rad. Area
 ⊠ = Locked High Rad. Area

R.E.GINNA STATION

Spent Fuel Pit and Decon Pit

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm²



09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

● = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level ▲ = Neutron Radiation Level
 #c = Contact Reading.

Technician Remarks: _____

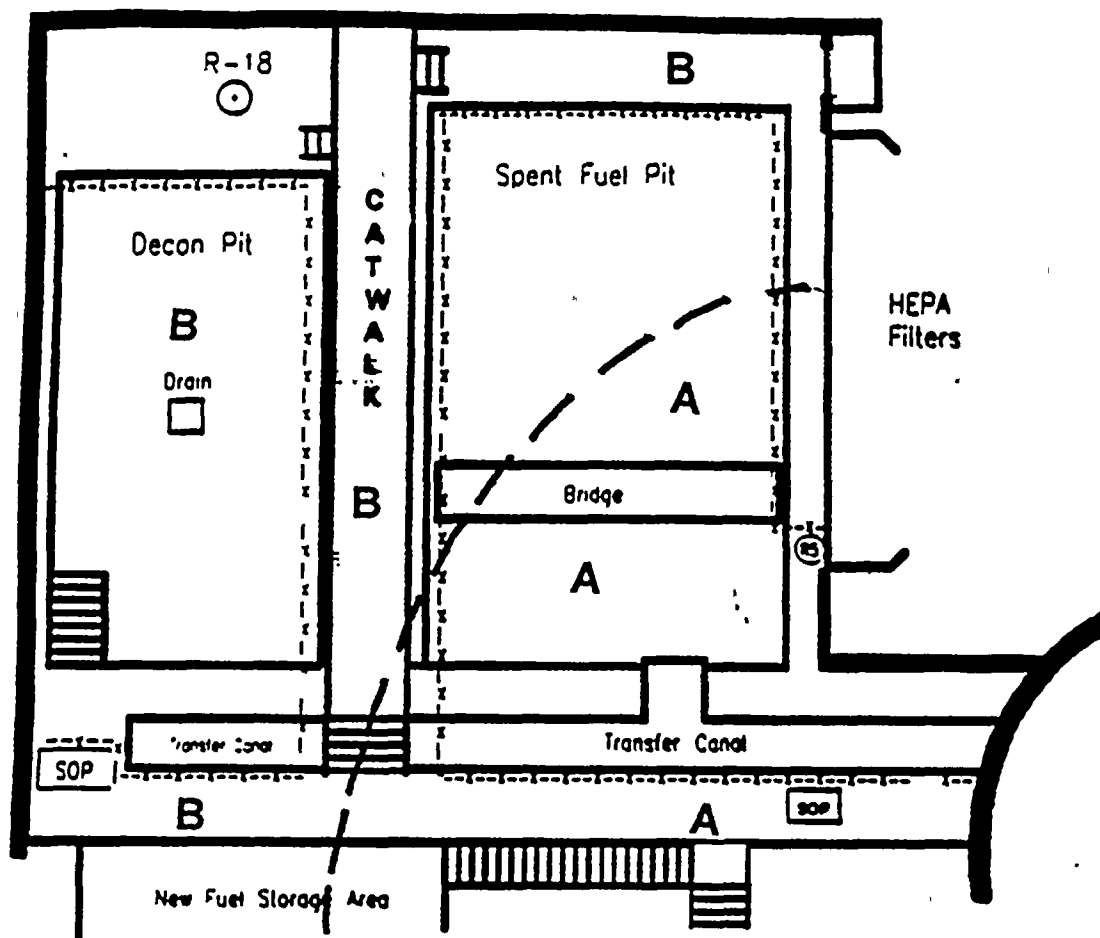
● = Cont. Area
 ● = High Cont. Area
 ● = Radiation Area
 ● = High Rad. Area
 ■ = Locked High Rad. Area

R.E.GINNA STATION

Spent Fuel Pit and Decon Pit

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dam/100cm2



10:30-10:50

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⚡ = Neutron Radiation Level

Technician Remarks: _____

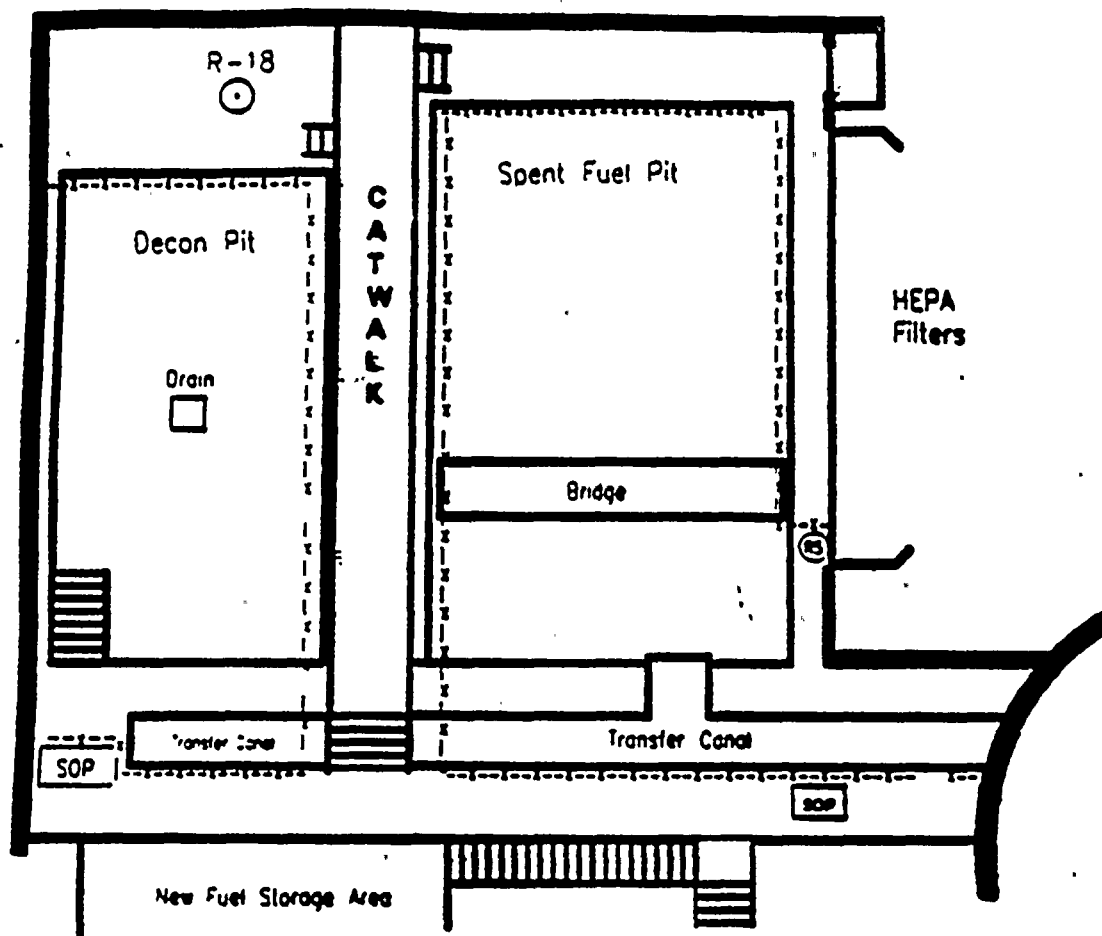
- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Spent Fuel Pit and Decon Pit

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm²



10:50-12:50

All Areas
Radiation Levels
 62R/h
Smears
 200,000dpm
Airborne Activity
 Iodine=4E-1 uCi/cc
 Part.=3E+0 uCi/cc

= Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

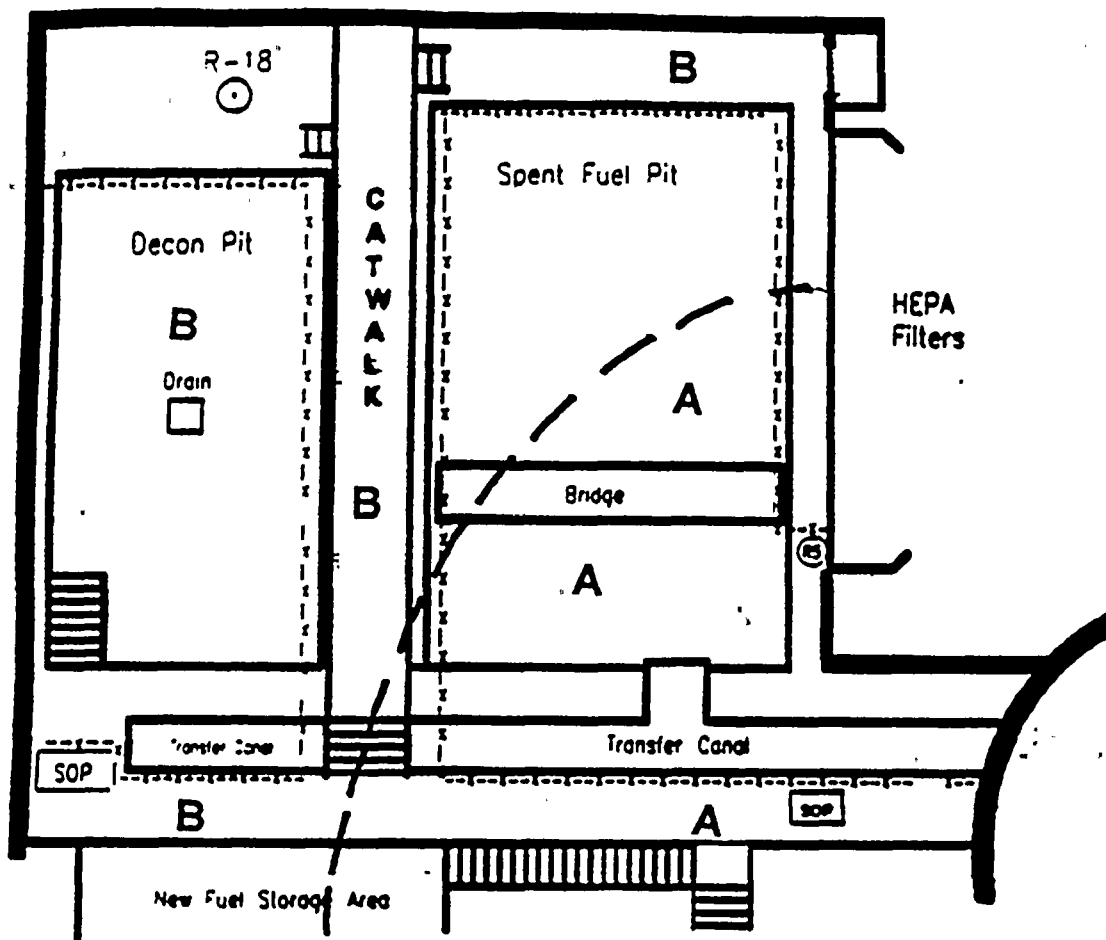
• = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊙ = High Rad. Area
 ⊠ = Locked High Rad. Area

R.E.GINNA STATION

Spent Fuel Pit and Decon Pit

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm2



12:50-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

500,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

Part.=2E-6 uCi/cc

- ⊙ = Smear Location
- ⊙ = Radiation Level
- ⊙ = Contact Reading
- x-x- = Rad/Cont. Barrier
- ⚡ = Neutron Radiation Level

Technician Remarks: _____

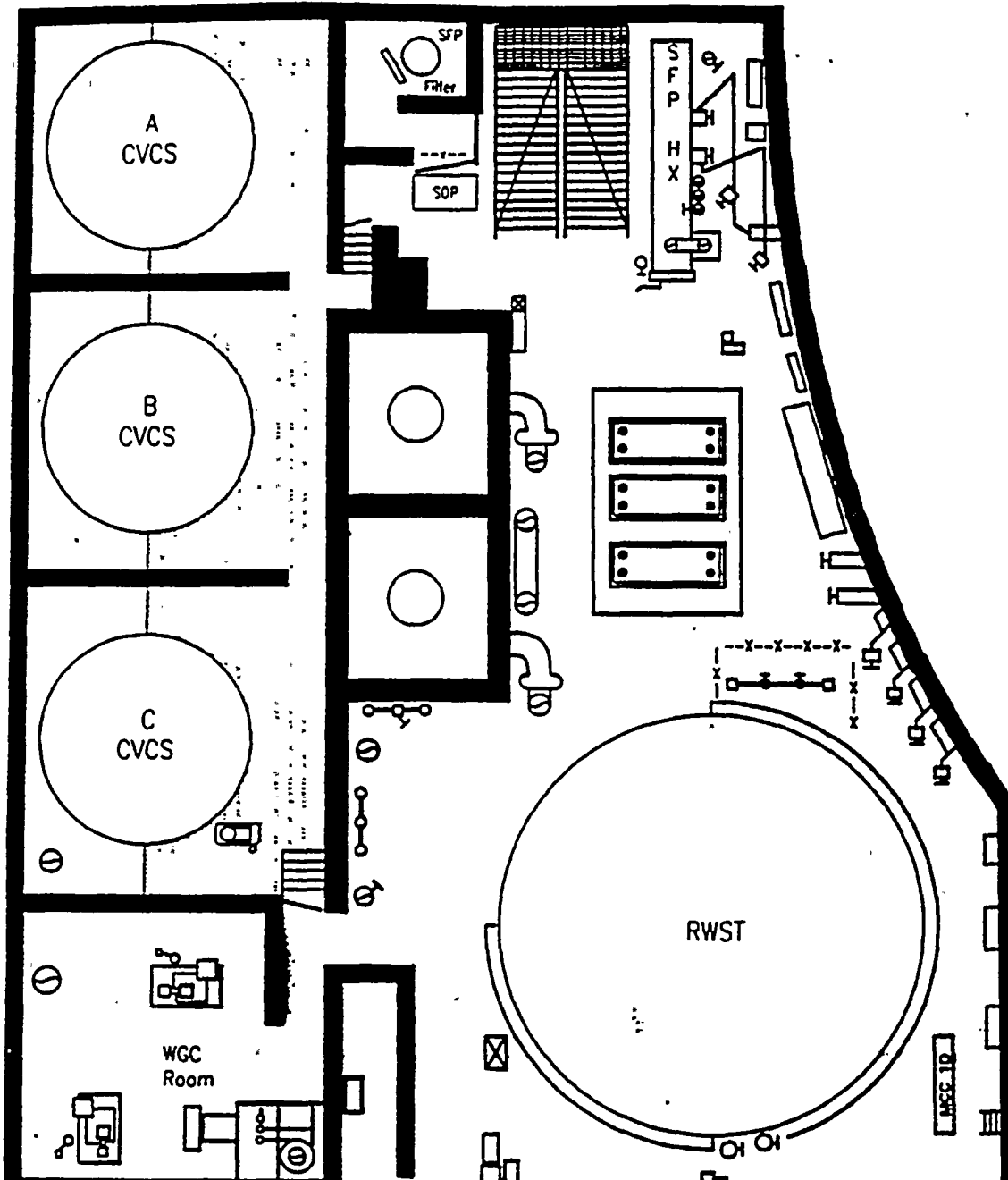
- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊙ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Intermediate Level - West End

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.





AUXINT 1.FWP



No.	dpm/100cm ²

07:30-09:10
All Areas
(Clean)
Radiation Levels
0.1mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

[illegible]

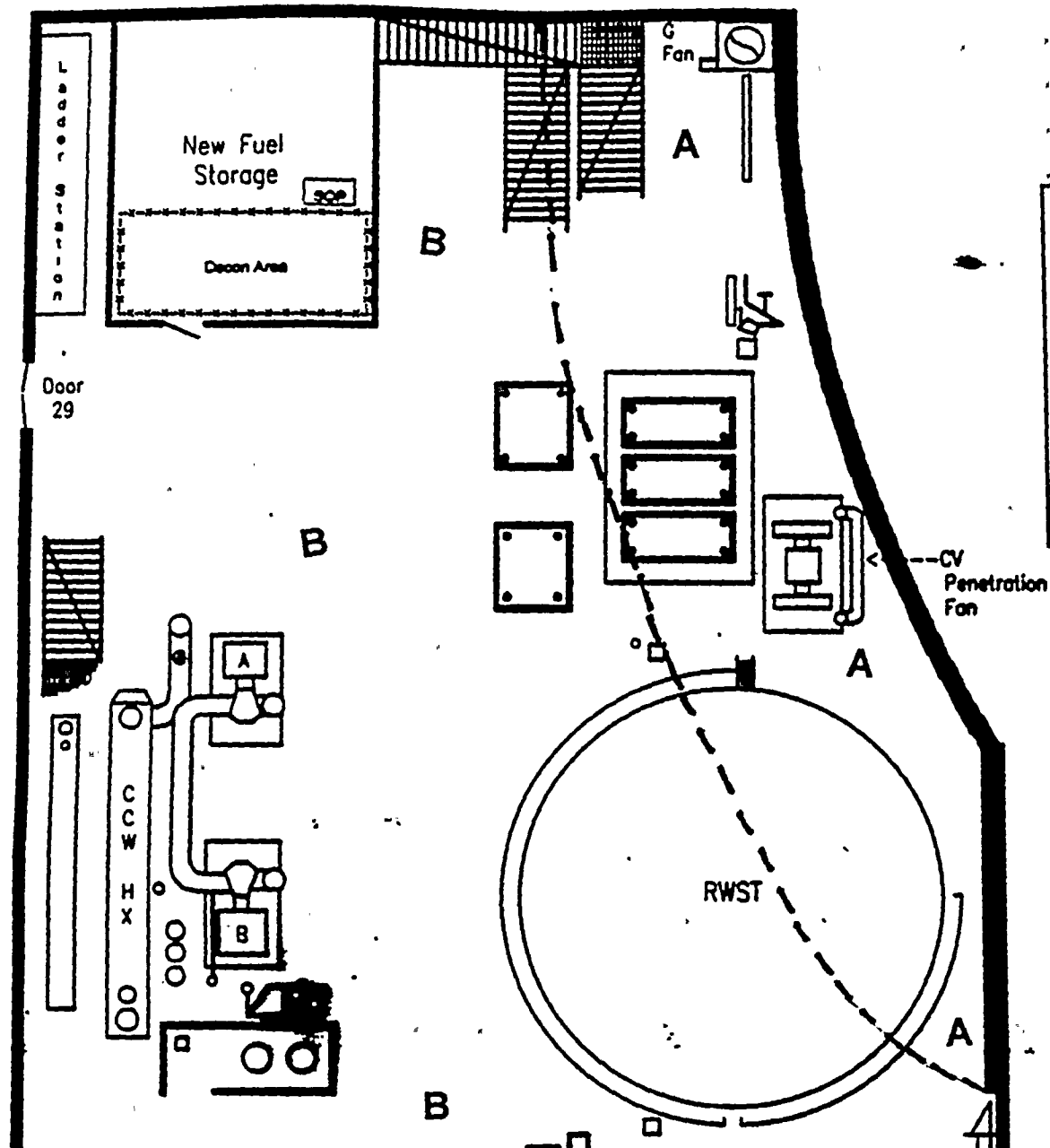
 = Smear Location -x--x- = Rad/Cont. Barrier
 = Radiation Level  = Neutron Radiation Level
 = Contact Reading

Technician Remarks:

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad.

ATTENTION: WE CAN SAVE YOU MONEY

AL000015-1000



No.	dpm/100cm ²

Part.=1E-10 uCi/cc

1	
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- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

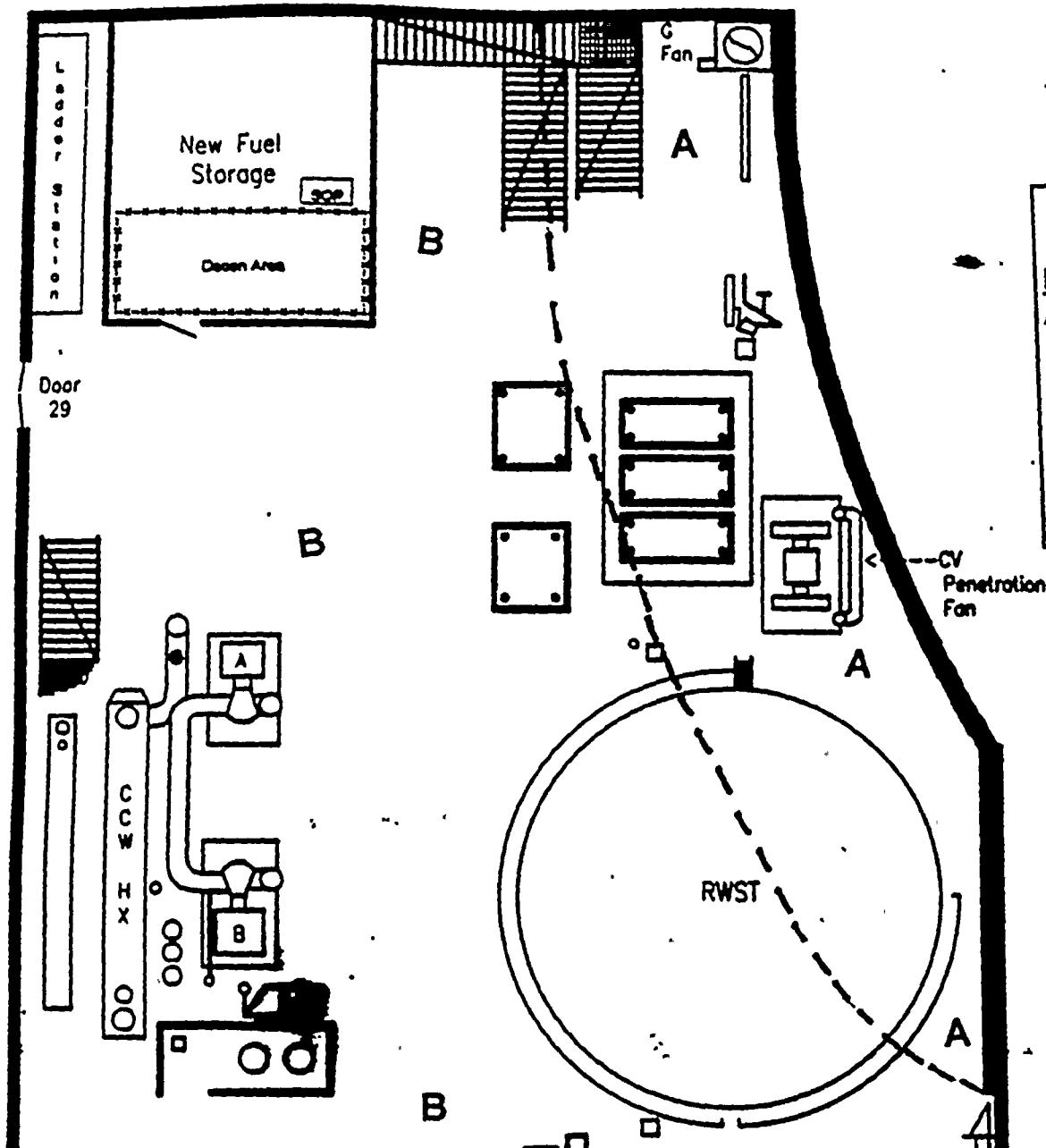
Technician Remarks:





Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

No.	dpm/100cm ²

Radiation Levels
A=37mR/hr
B=10mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

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3		
2		
1		



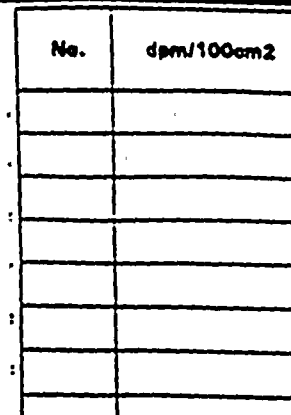
-  = Smear Location -x-x- = Rad/Cont. Barrier
 = Radiation Level  = Neutron Radiation Level
 = Contact Reading

Technician Remarks:

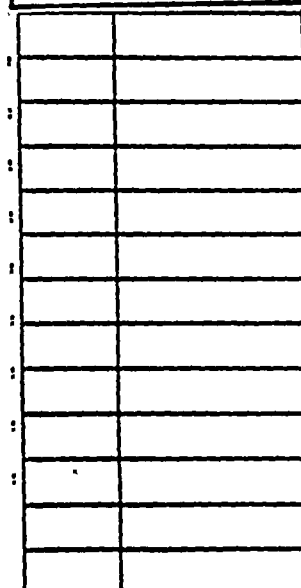
- = Cont. Area
- ⊙ = High Cont. Area
- ◊ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

ATTENTION: Please do not use the word "When" in the title of your paper.

ALDORE-1.FW



Part.=3E+0 uCi/cc

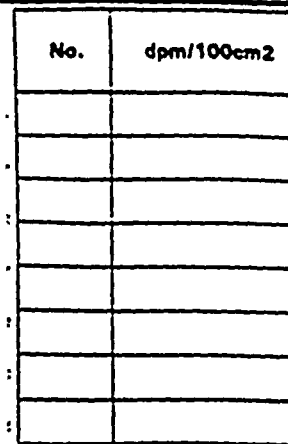


- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ◻ = Locked High Rad. Area

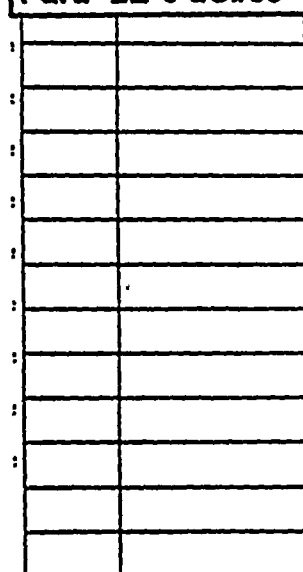
Technician Remarks:

Auxiliary Building Operating Level - West End

AUX001 1000



Part=2E-6 uCi/cc



- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

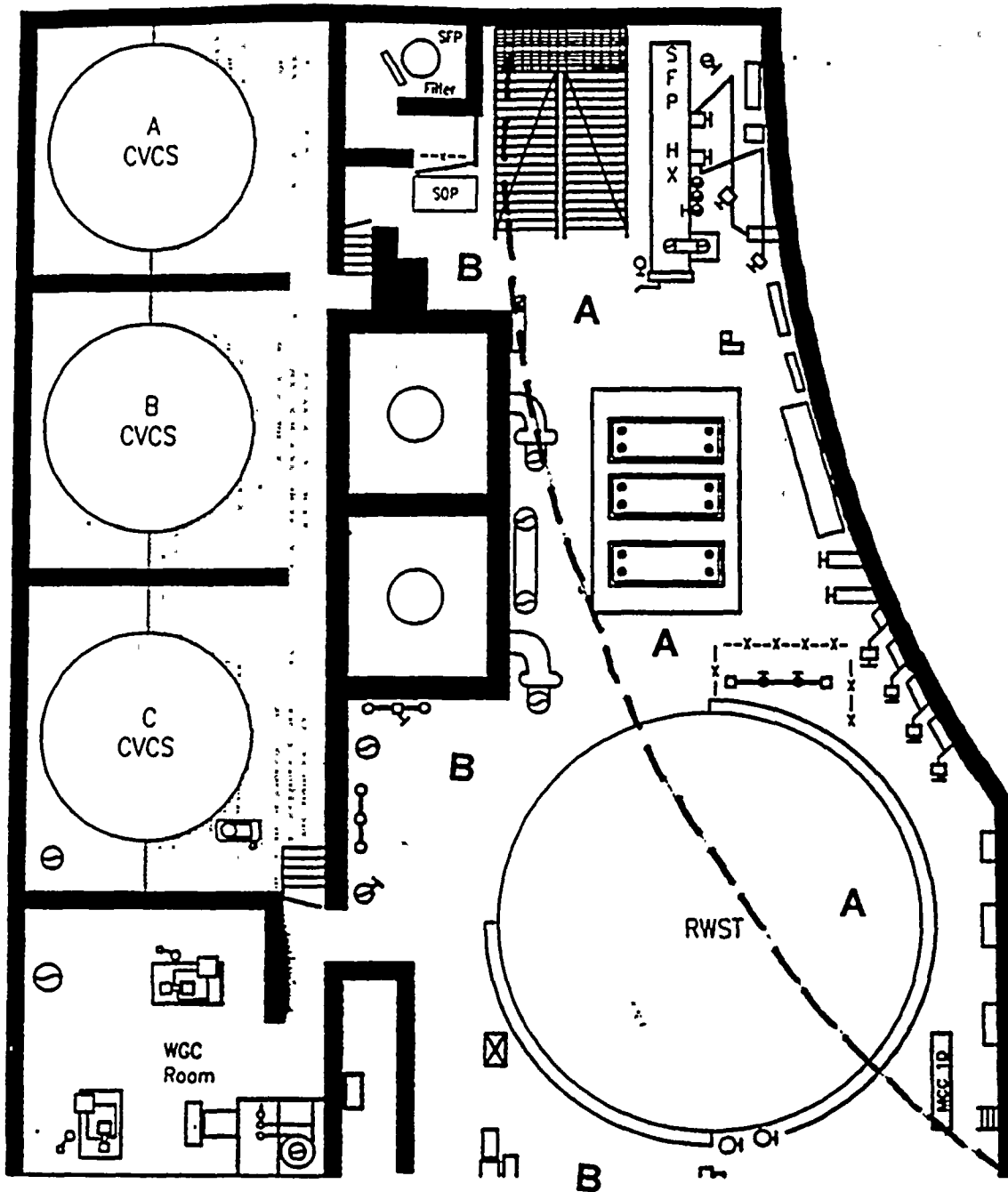
Technician Remarks:

R.E.GINNA STATION

Auxiliary Building Intermediate Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXINT1.FPP



No.	dpm/100cm2

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

• = Smear Location
 # = Radiation Level
 #c = Contact Reading
 -x-x- = Rad/Cont. Barrier
 # = Neutron Radiation Level
 Technician Remarks: _____

• = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad.

R.E.GINNA STATION

Auxiliary Building Intercom Unit West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXINT 1.FWP

No.	dpm/100cm2

10:30-10:50

Radiation Levels

A=37mR/hr

B=10mR/hr

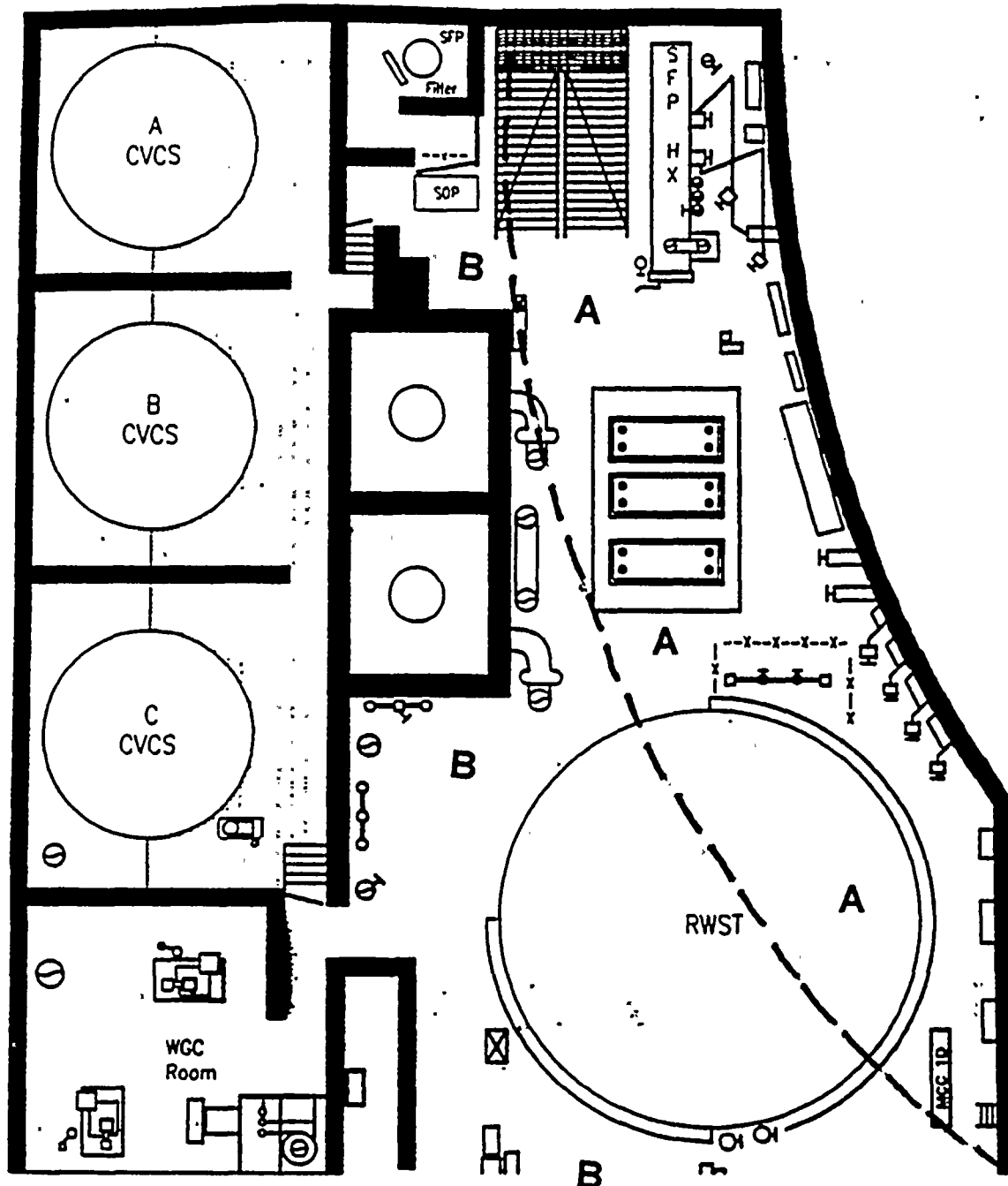
Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc



• = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

• = Cont. Area
 ⊙ = High Cont. Area
 ♦ = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad.

R.E.GINNA STATION

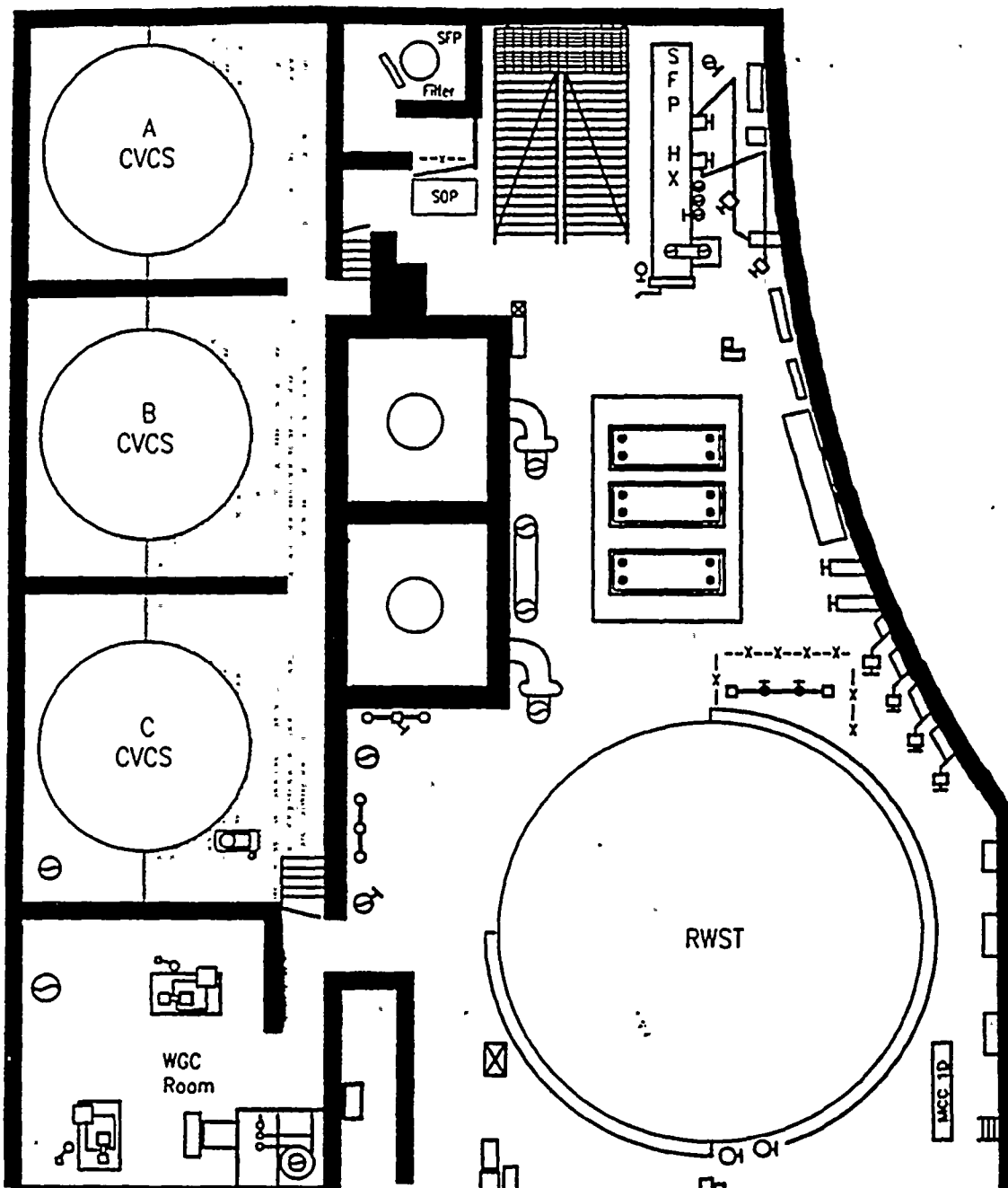
Auxiliary Building Intermediate Level - West End

Technician: _____ Date: _____ Time: _____

Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in mr/hr unless otherwise noted.

AUXINT 1.FRM

[illegible]

10:50-12:50

All Areas Radiation Levels

62R/h

Smears





500,000dpm

Airborne Activity

Iodine=4E-1 uCi/cc

Part.=3E+0 uCi/cc

[illegible]

 = Smear Location -x--x- = Rad/Cont. Barrier
 = Radiation Level  = Neutron Radiation Level
 = Contact Reading

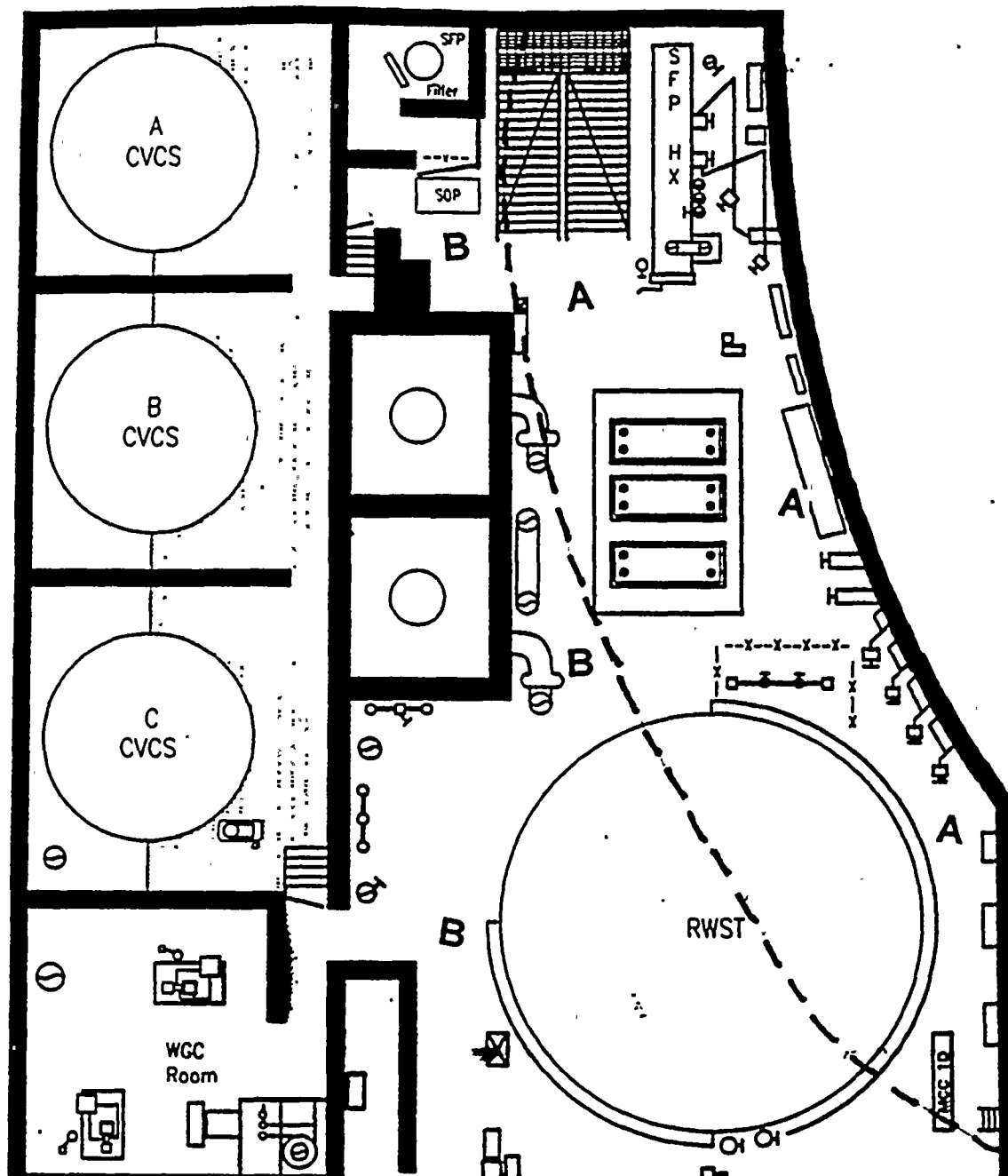
Technician Remarks:

- * = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ⬜ = Locked High Rad.

R.E.GINNA STATION

Auxiliary Building Intermediate Level - West End

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

APPENDIX 1. FINE[illegible]

12:50-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears





1,000,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

Part.=2E-6 uCi/cc

[illegible]

 = Smear Location -x--x- = Rad/Cont. Barrier
 = Radiation Level  = Neutron Radiation Level
 = Contact Reading

Technician Remarks:

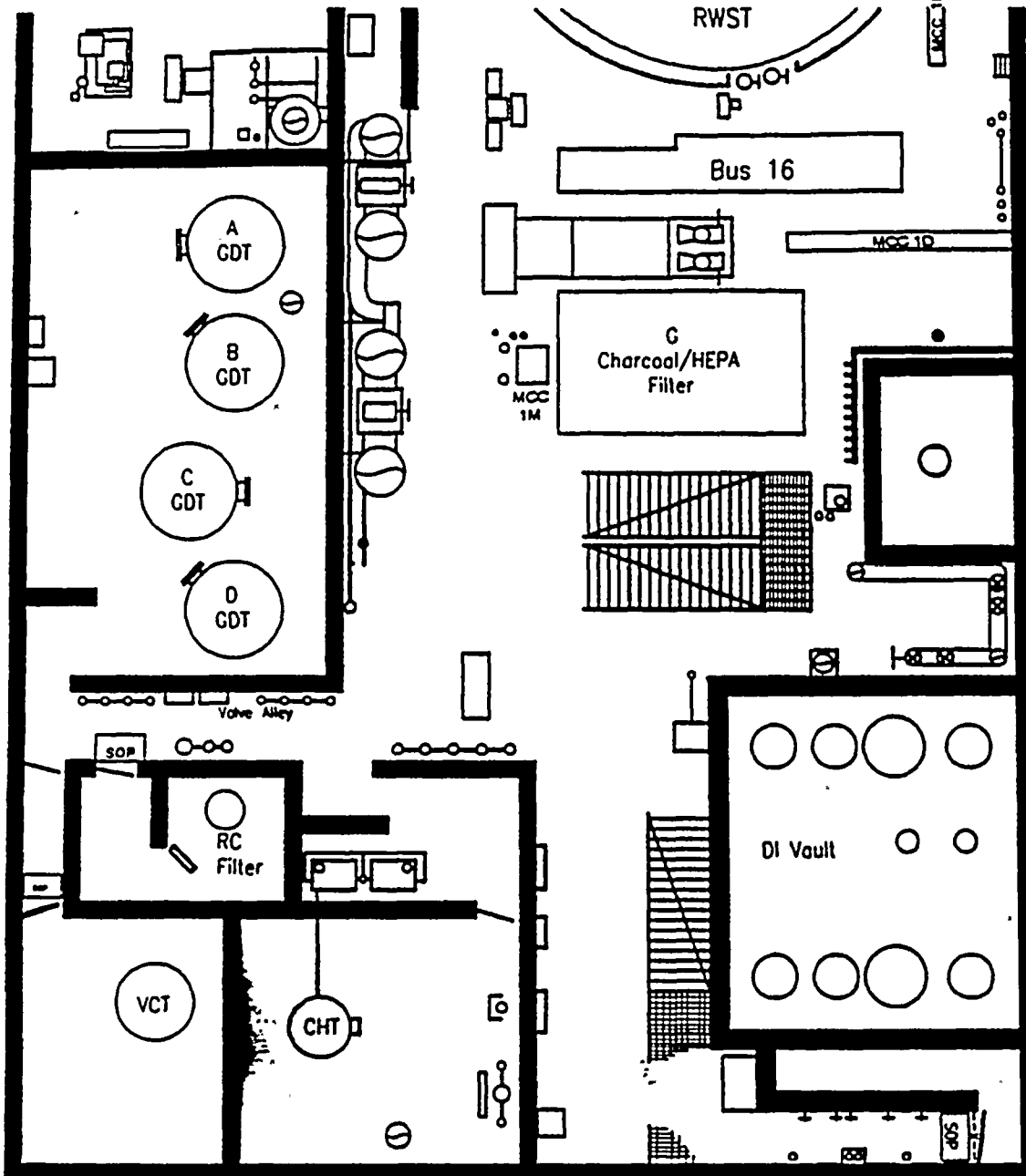
- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- = Locked High Rad.

R.E.GINNA STATION

Auxiliary Building Intermediate Level - East End

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXINT2.FPP



No.	dpm/100cm2

07:30-10:50
 All Areas
 (Clean)
 Radiation Levels
 0.1mR/hr
 Smears
 250dpm
 Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

= Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

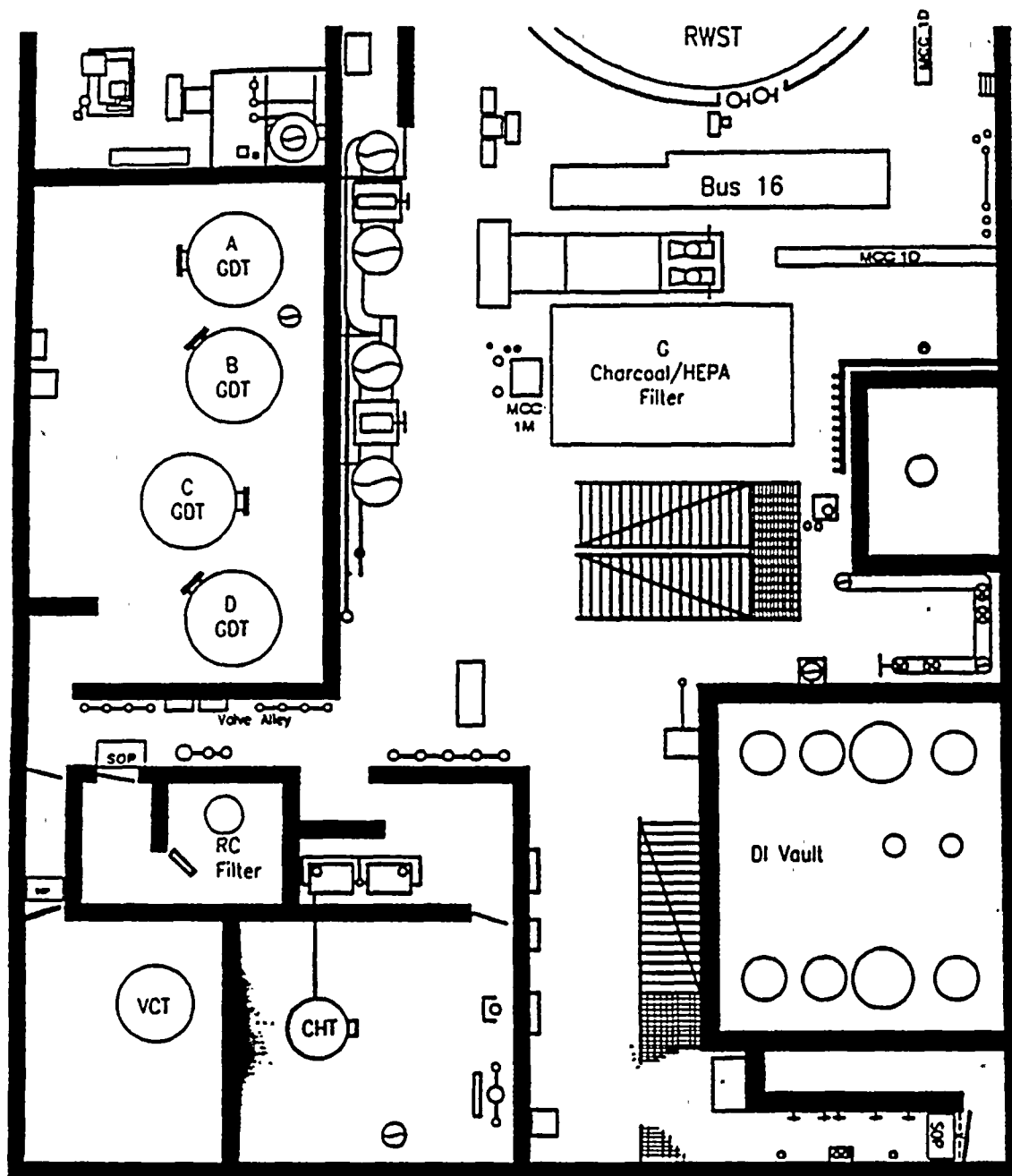
• = Cont. Area
 ⊙ = High Cont. Area
 ♦ = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Intermediate Level - East End

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXINT2.FWP



No. dpm/100cm2

10:50-12:50

All Areas
 Radiation Levels

62R/h

Smears

500,000dpm

Airborne Activity

Iodine=4E-1 uCi/cc

Part.=3E+0 uCi/cc

○ = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

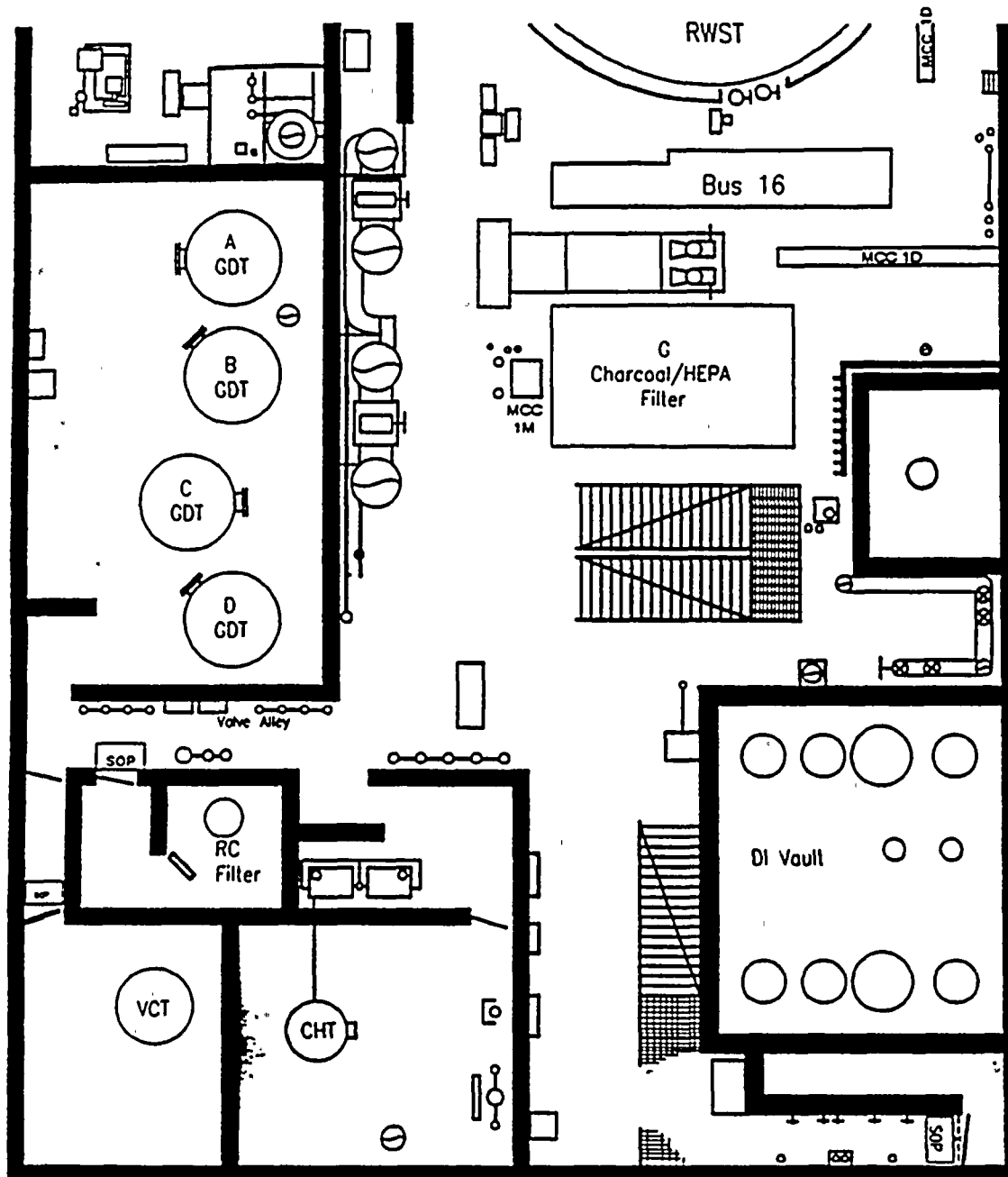
• = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad.

R.E.GINNA STATION

Auxillary Building Intermediate Level - East End

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

AUXINT 2.FVP

[illegible]

12:50-15:00

Radiation Levels

17mR/hr

Smears






1,000,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

Part.=2E-6 uCi/cc

[illegible]

 = Smear Location
  = Rad/Cont. Barrier
 = Radiation Level
 = Neutron Radiation Level
 = Contact Reading

Technician Remarks:

- * = Cont. Area
- ⊙ = High Cont. Area
- + = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad. Area

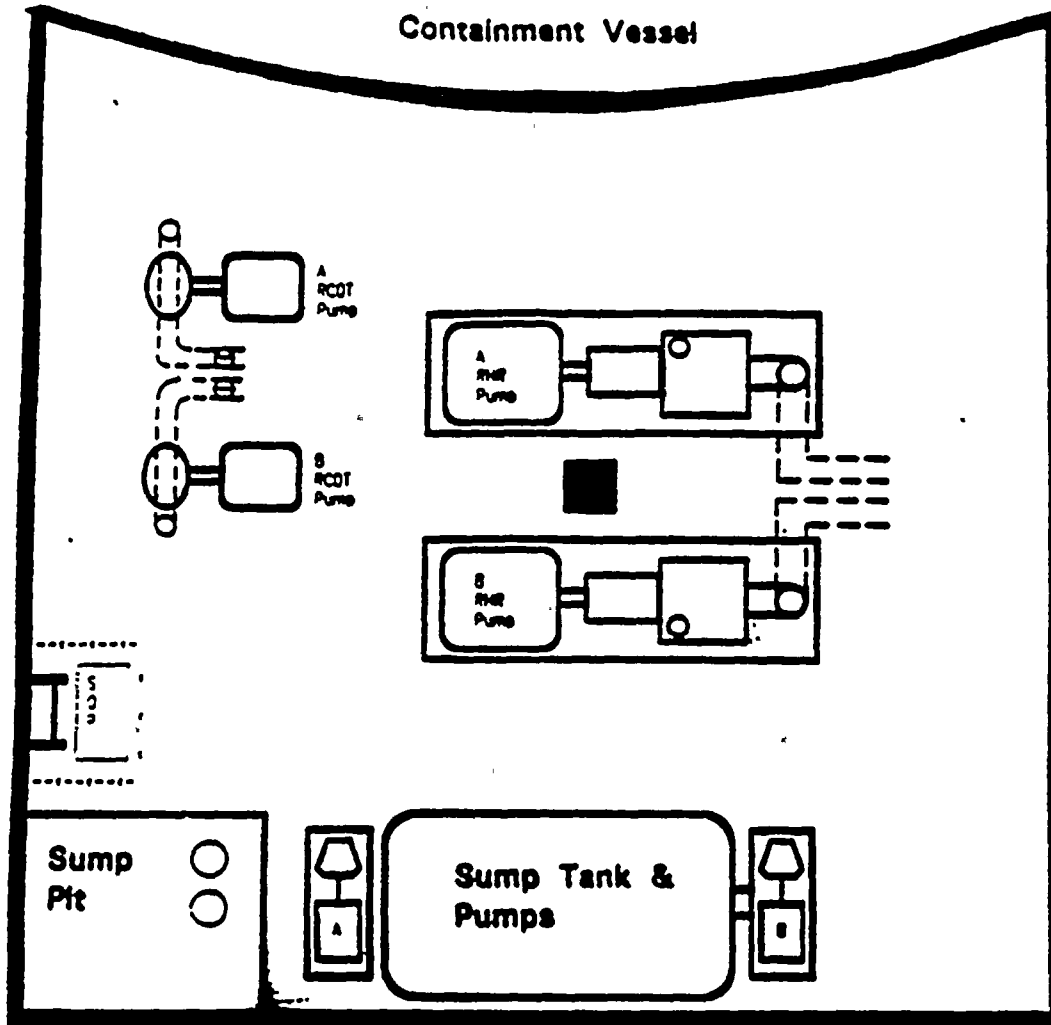
R.E.GINNA STATION

Auxiliary Building Sub Basement Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

No. dpm/100cm²

Containment Vessel



10:00-10:50

All Areas
Radiation Levels

1 R/hr

Smears

50,000dpm

Airborne Activity

Iodine=3E-9 uCi/cc

Part.=9E-9 uCi/cc

NOTE:

AT THIS
TIME
PLAYERS
IN THIS
AREA
WILL
BE FORCED
TO LEAVE
DUE TO
HIGH
DOSE RATES

• = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 # = Contact Reading

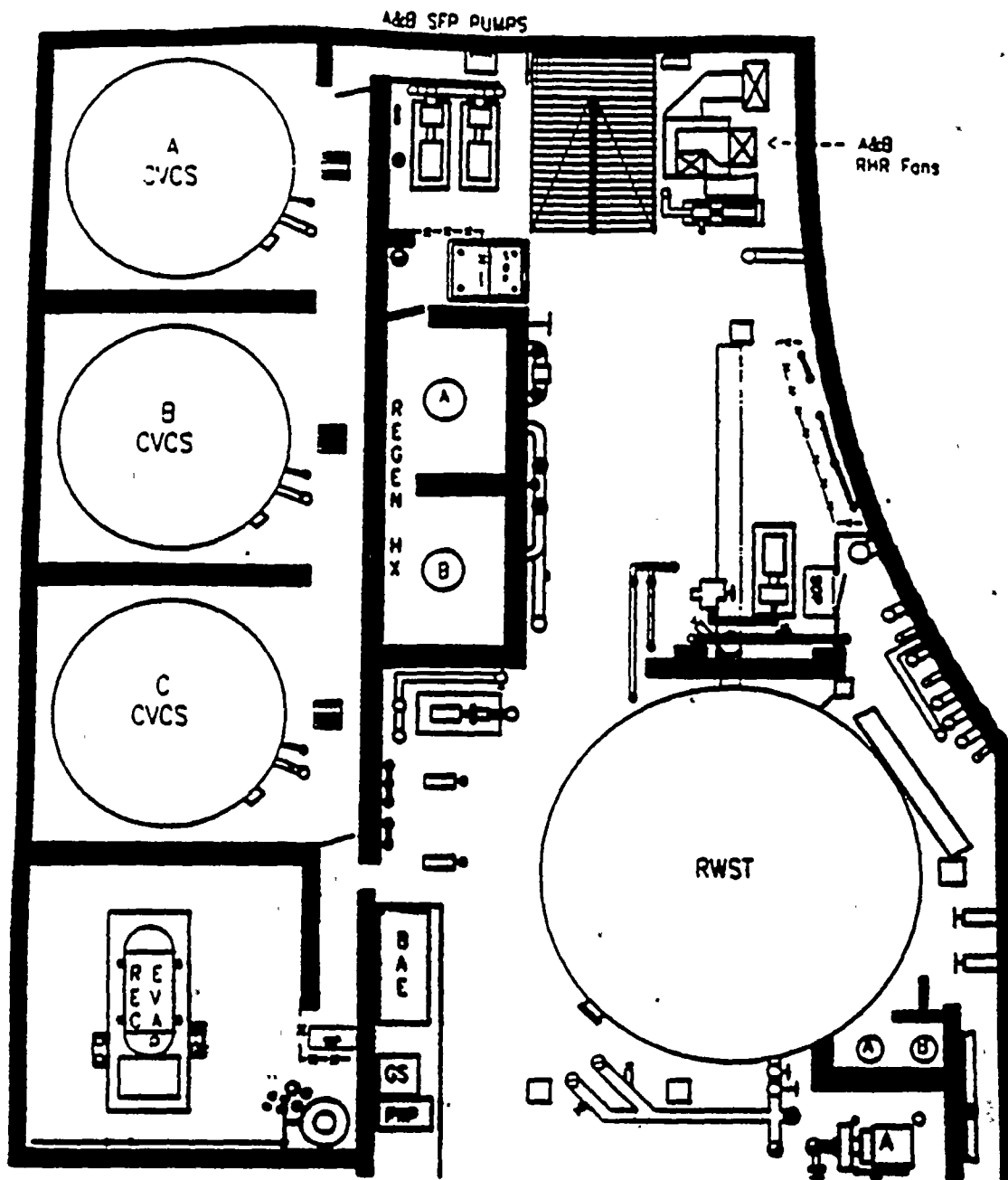
Technician Remarks: _____

• = Cont. Area
 • = High Cont. Area
 • = Radiation Area
 • = High Rad. Area
 • = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. 4pm/100cm2

07:30-09:10
 All Areas
 (Clean)
 Radiation Levels
 0.8mR/hr
 Smears
 250dpm
 Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

- = Smear Location
- # = Radiation Level
- #c = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

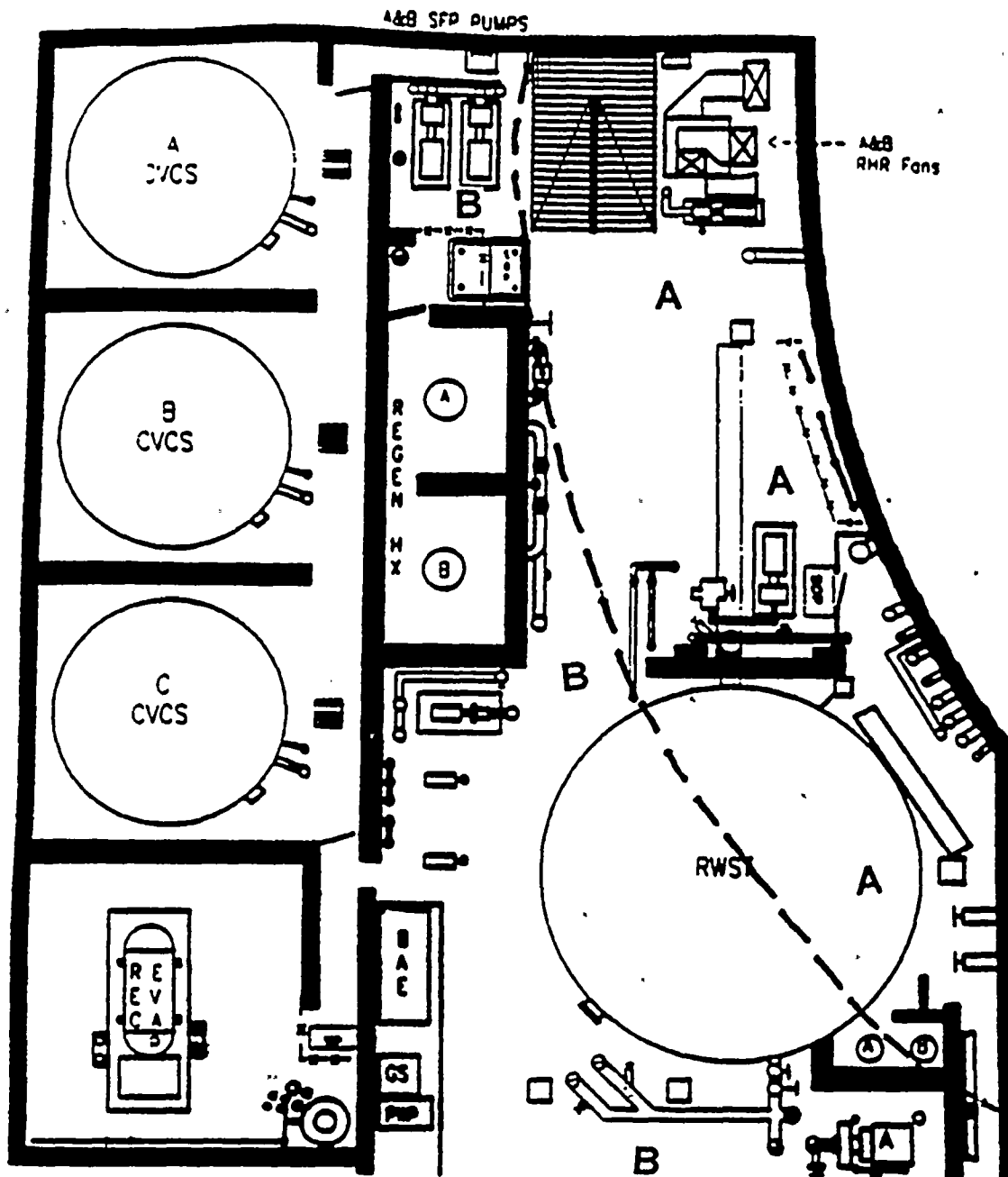
- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊠ = Locked High Rad. Area

Technician Remarks: _____

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

09:10-10:00

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

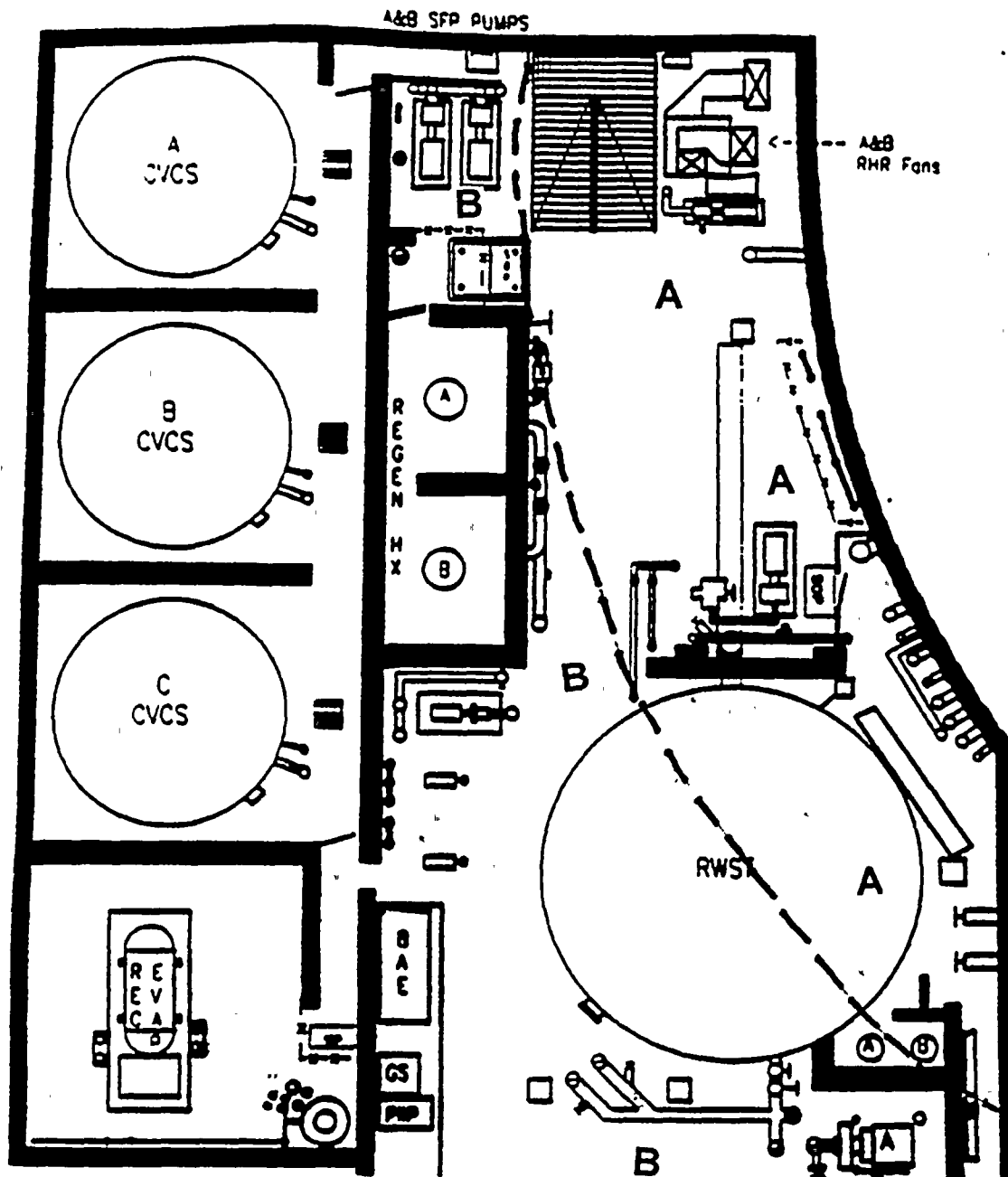
● = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level △ = Neutron Radiation Level
 /c = Contact Reading
 Technician Remarks: _____

● = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊗ = High Rad. Area
 ⊠ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

09:10-10:00

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- = Smear Location
- ⊙ = Radiation Level
- c = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

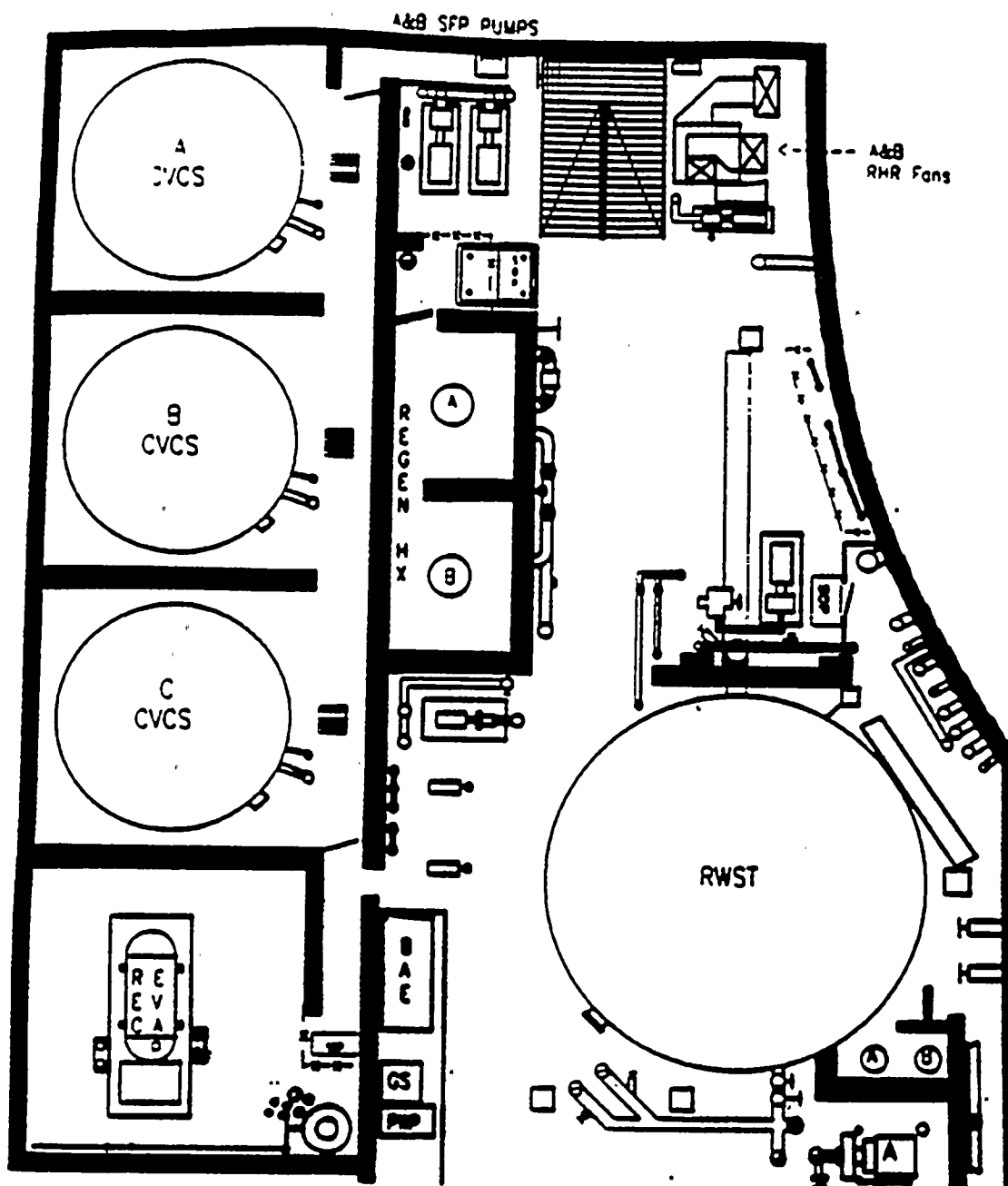
No. dpm/100cm² :

10:00-10:50

All Areas
Radiation Levels
 600mR/hr
Smears
 5,000dpm
Airborne Activity
 Iodine=1E-9 uCi/cc
 Part.=3E-9 uCi/cc

NOTE:

AT THIS
 TIME
 PLAYERS
 IN THIS
 AREA
 WILL
 BE FORCED
 TO LEAVE
 DUE TO
 HIGH
 DOSE RATES

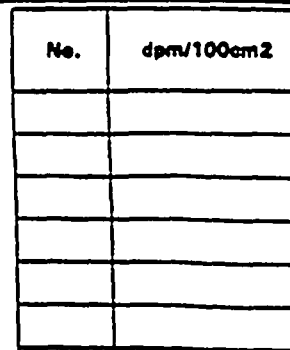


- ① = Smear Location
- ② = Radiation Level
- ③ = Contact Reading
- x-x- = Rad/Cont. Barrier
- △ = Neutron Radiation Level

Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- ⊠ = Locked High Rad. Area

7-Addendum to the East End

AUXILIARY

All Areas
Radiation Levels
62R/h
Smears
1,000,000dpm
Airborne Activity
Iodine=4E-1 uCi/cc
Part.=3E+0 uCi/cc

[illegible]

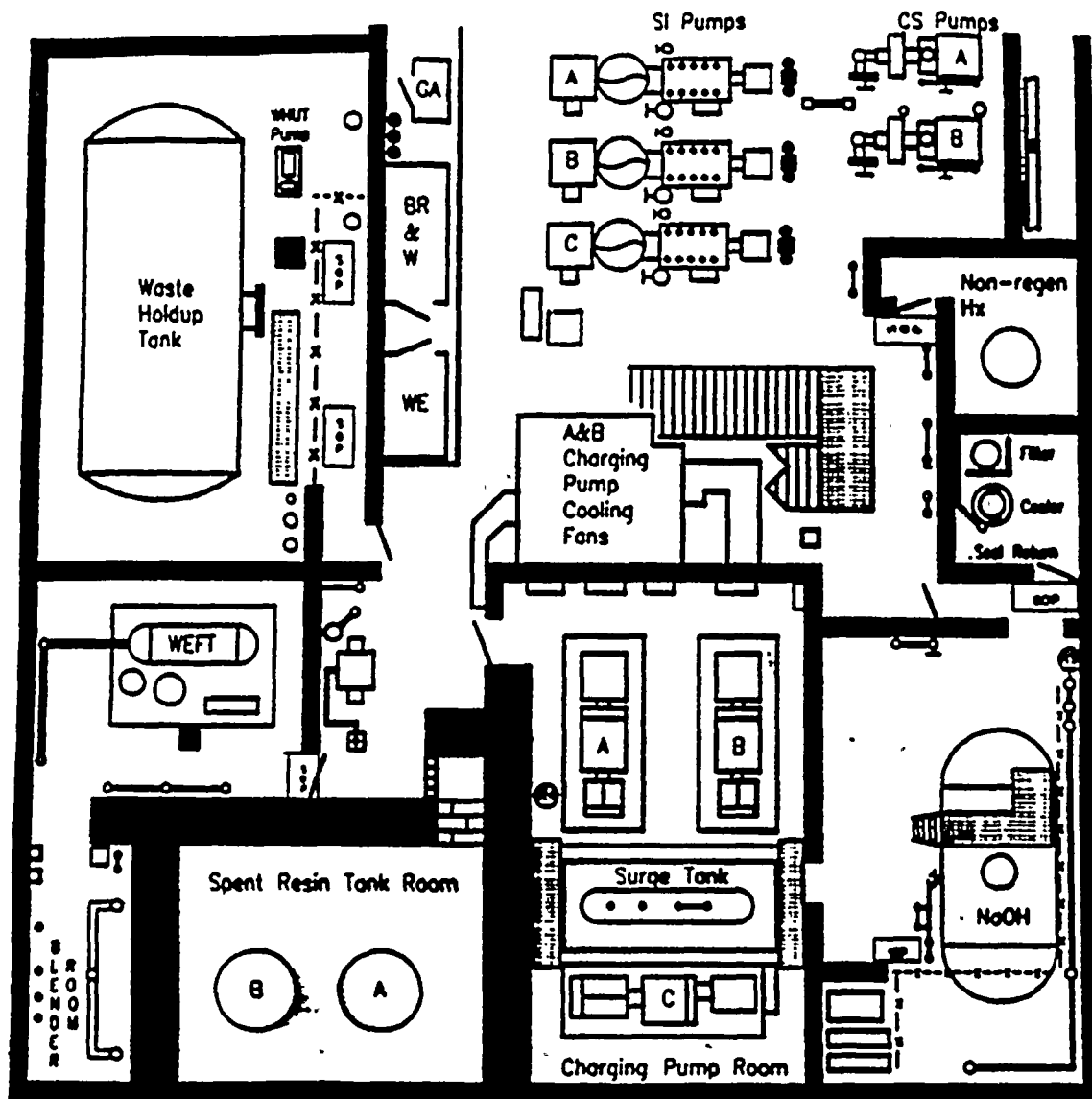
- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

Technician Remarks:

R.E.GINNA STATION

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

ALTCBAG 2.990



No. dpm/100cm2

12:50-15:00

Radiation Levels

17mR/hr

Smears

2,000,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

Part.=2E-6 uCi/cc

• = Smear Location -x-x- = Rad/Cont. Barrier
 - = Radiation Level # = Neutron Radiation Level

#c = Contact Reading

Technician Remarks: _____

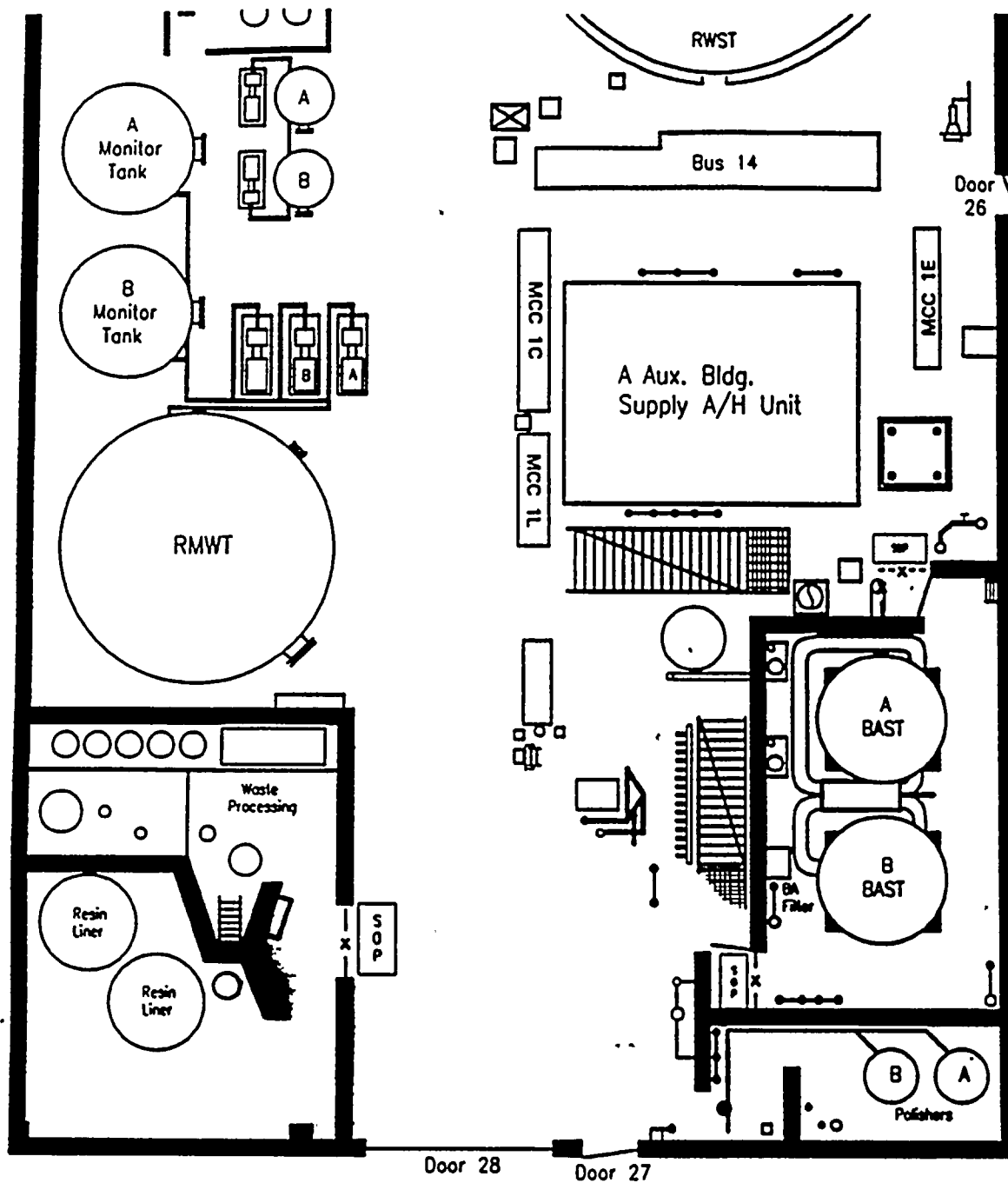
• = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊙ = High Rad. Area
 ⊠ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building, Operating Level - East End

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

AUXOP2.FTP



No.	dpm/100cm ²

07:30-10:50

**All Areas
(Clean)**

Radiation Levels

0.1mR/hr .

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

[illegible]

= Smear Location **-x--x-** = Rad/Cont. Barrier
= Radiation Level **△#** = Neutron Radiation Level
#c = Contact Reading

Technician Remarks:

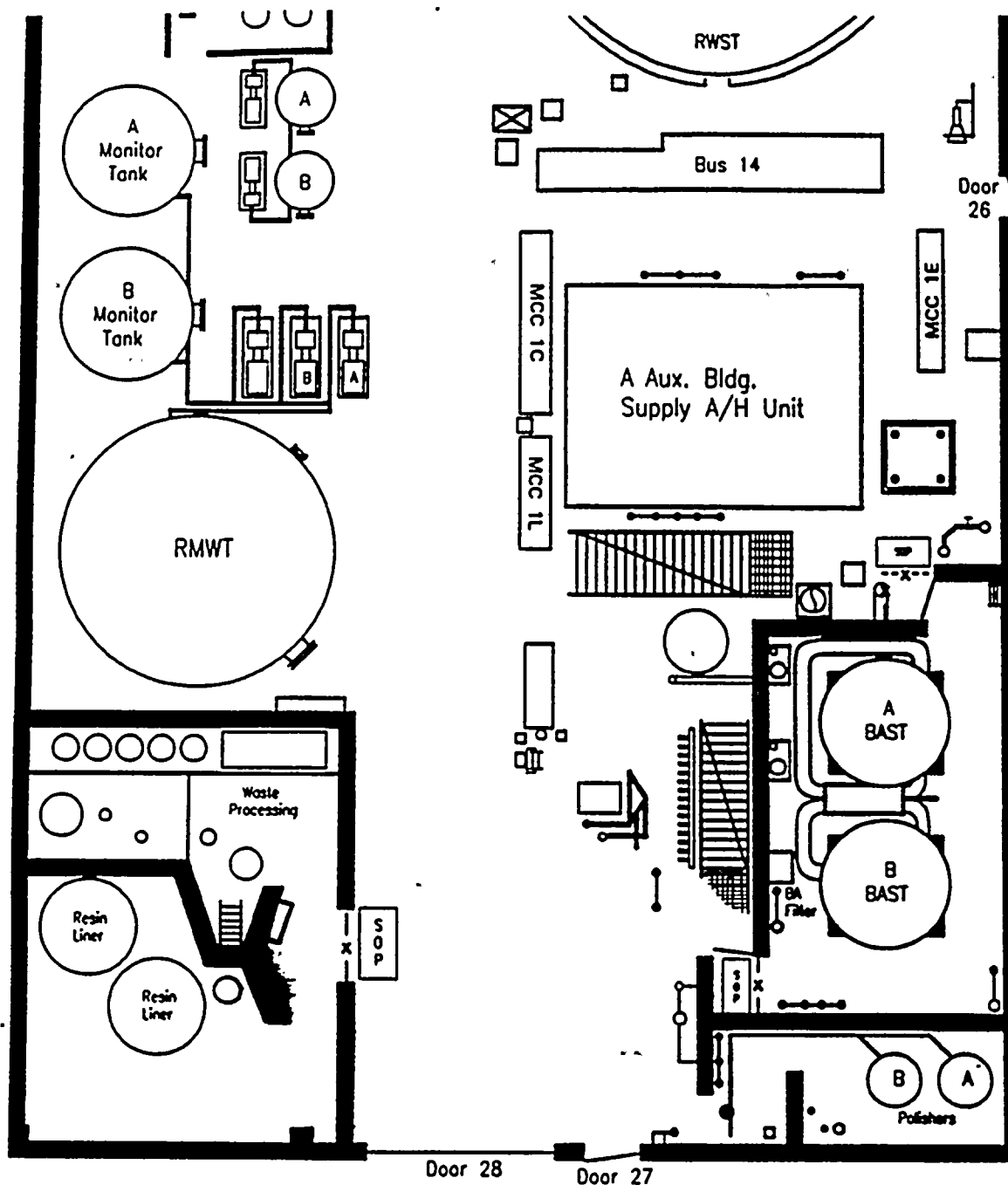
* = Cont. Area
 ⊙ = High Cont. Area
 ✦ = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Operating Level - East End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXOP2.FRP



No. dpm/100cm2

10:50-12:50

All Areas
Radiation Levels

62R/h

Smears

200,000dpm

Airborne Activity

Iodine=4E-1 uCi/cc

Part.=3E+0 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

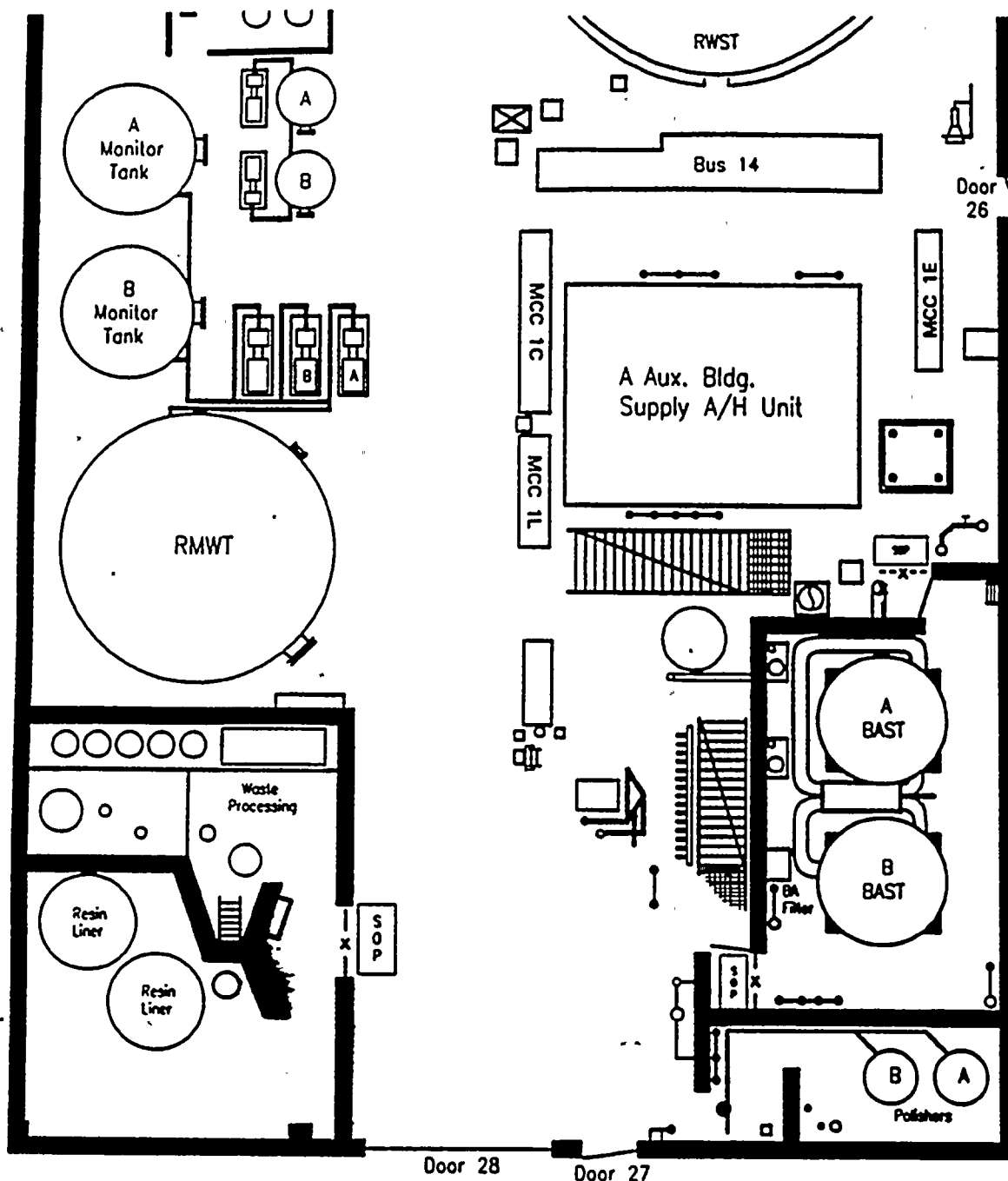
* = Cont. Area
 * = High Cont. Area
 + = Radiation Area
 * = High Rad. Area
 * = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Operating Level - East End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

AUXOP2.FWP



No. dpm/100cm2

12:50-15:00

Radiation Levels

17mR/hr

Smears

500,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

Part.=2E-6 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

• = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

SECTION 9.0

ONSITE RADIOLOGICAL AND CHEMISTRY DATA

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 3% fuel melt accident scenario.

Protective action recommendations i.e., sheltering or evacuation for certain Emergency Response Planning Areas (ERPAs) will be required based upon the anticipated declaration of a General Emergency and plant conditions. As a result of accident release rates, the projected whole body and thyroid doses will exceed EPA Protective Action Guides beyond the Site Boundary.

The assumed noble gas and radioiodine release quantities are shown in Figure 9.1 as a function of time. The scenario involves one 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>
10:50- 12:50	Plant Vent	3.21 E + 2 (Noble Gas) 3.21 E-2 (Radioiodine)

The noble gas-to-radioiodine ratio assumed is 10,000:1 during this 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 at 3.5 miles, based upon a 2.0 hour actual release duration are:

<u>Time</u>	<u>Release Point</u>	<u>Integrated Dose (Rem)</u>
10:50- 12:50	Plant Vent	1.50E + 0 (Whole Body) 2.63E-1 (Child Thyroid)

C. Principal Plant Radiological Indications

Figures 9.1 through 9.5 provide trend plots for key plant radiological indications, including plant vent concentration, letdown monitor level, containment radiation level and reactor coolant concentration.

TABLE 9.1

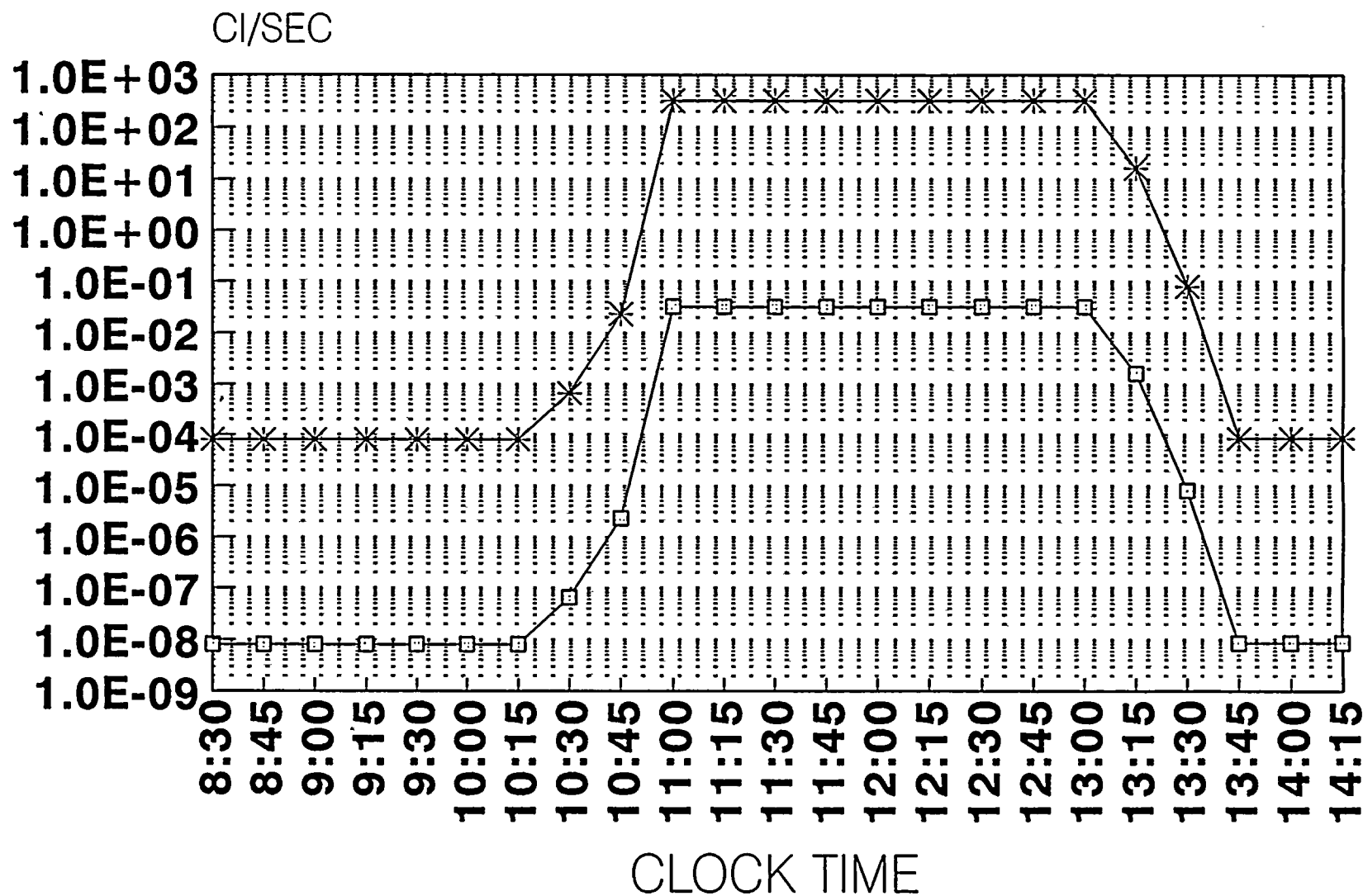
The assumed release quantities for the Ginna Exercise Scenario are summarized as follows:

Time : 10:50-12:50 hr

<u>Nuclide</u>	<u>Curie/Sec</u>	<u>Total Curies Released</u>
Kr-85	1.6 E+01	1.2 E+05
Kr-85m	5.0 E-01	3.6 E+03
Kr-87	2.9 E+01	2.1 E+05
Kr-88	4.3 E+01	3.1 E+05
Xe-131m	4.6 E-01	3.3 E+03
Xe-133	1.5 E+02	1.1 E+06
Xe-133m	2.1 E+01	1.5 E+05
Xe-135	2.8 E+01	2.0 E+05
Xe-135m	7.1 E+00	5.1 E+04
Xe-138	2.8 E+01	2.0 E+05
Total Noble Gas	3.2 E+02	2.3 E+06
I-131	4.7 E-03	3.4 E+01
I-132	6.7 E-03	4.8 E+01
I-133	9.5 E-03	6.9 E+01
I-134	2.6 E-03	1.9 E+01
I-135	8.6 E-03	6.2 E+01
Total Radioiodine	3.2 E-02	2.3 E+02
Long-Lived Particulate	1.2 E-09	1.5 E-06



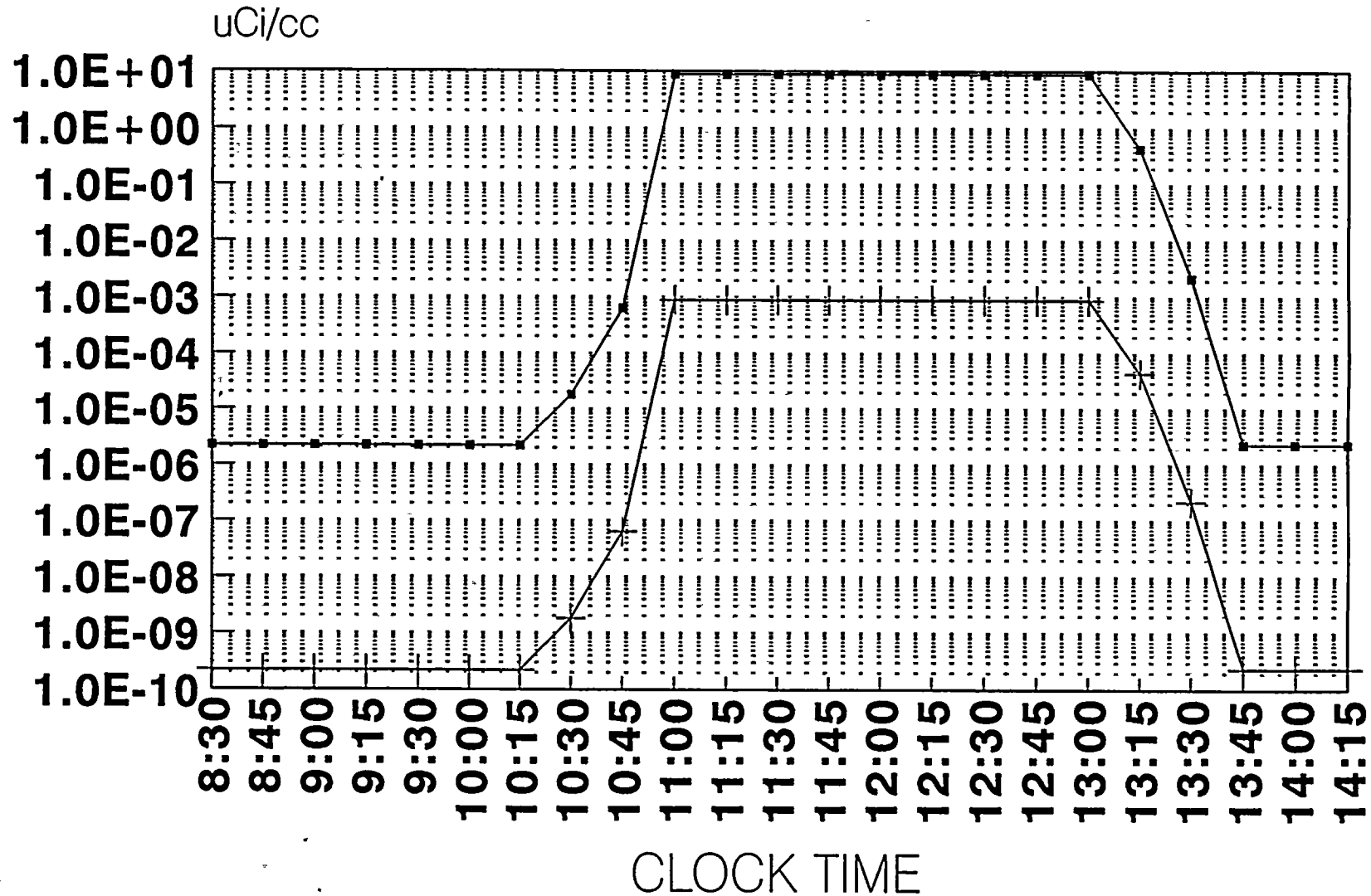
Figure 9.1
Assumed Source Terms



* NOBLE GAS CI/SEC □ RADIOIODINE CI/SEC



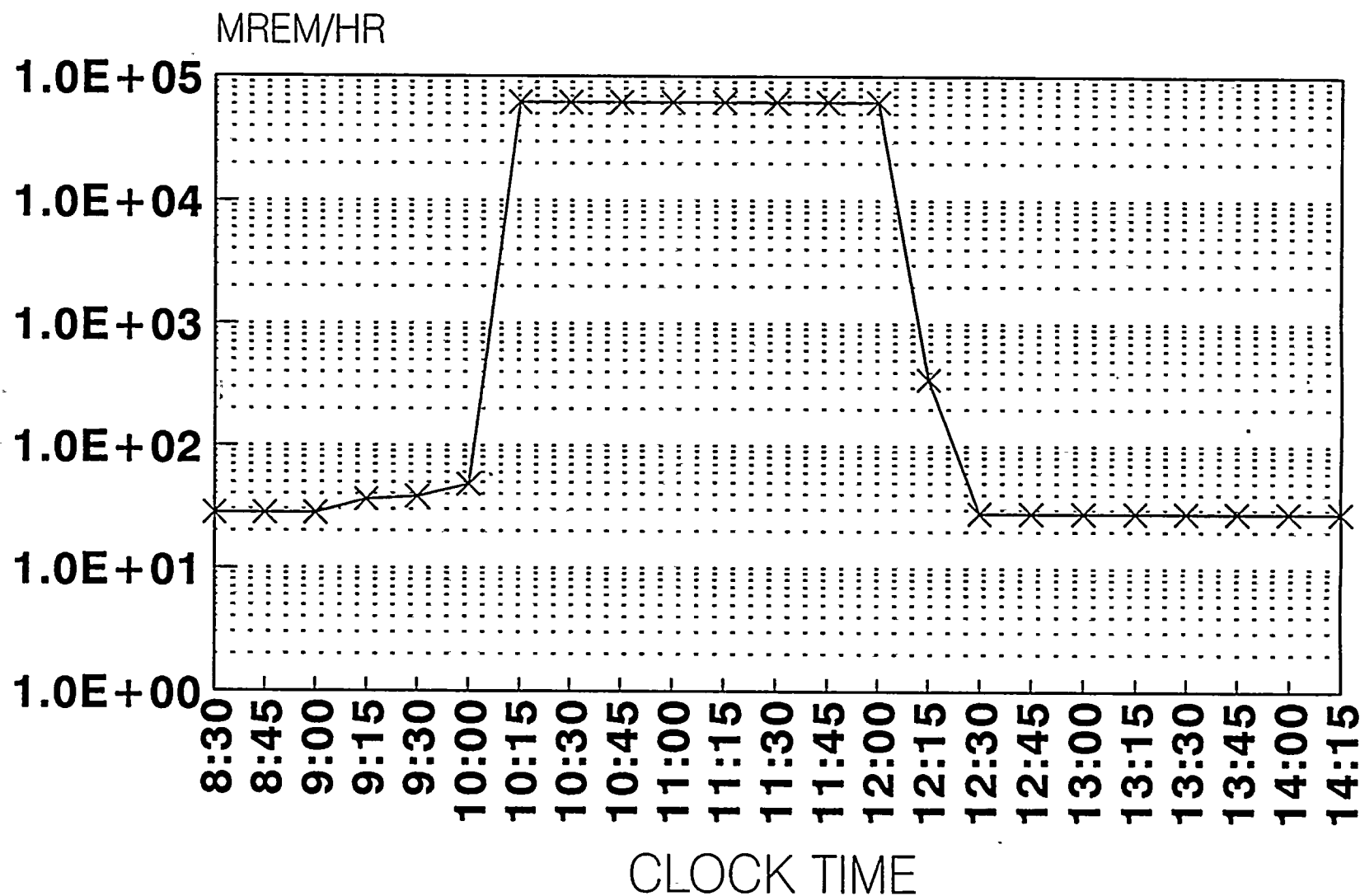
Figure 9.2
Plant Vent Concentrations



+ NOBLE GAS + RADIOIODINE



Figure 9.3
Letdown (R-9) Readings



* LETDOWN



Figure 9.4
Containment Radiation

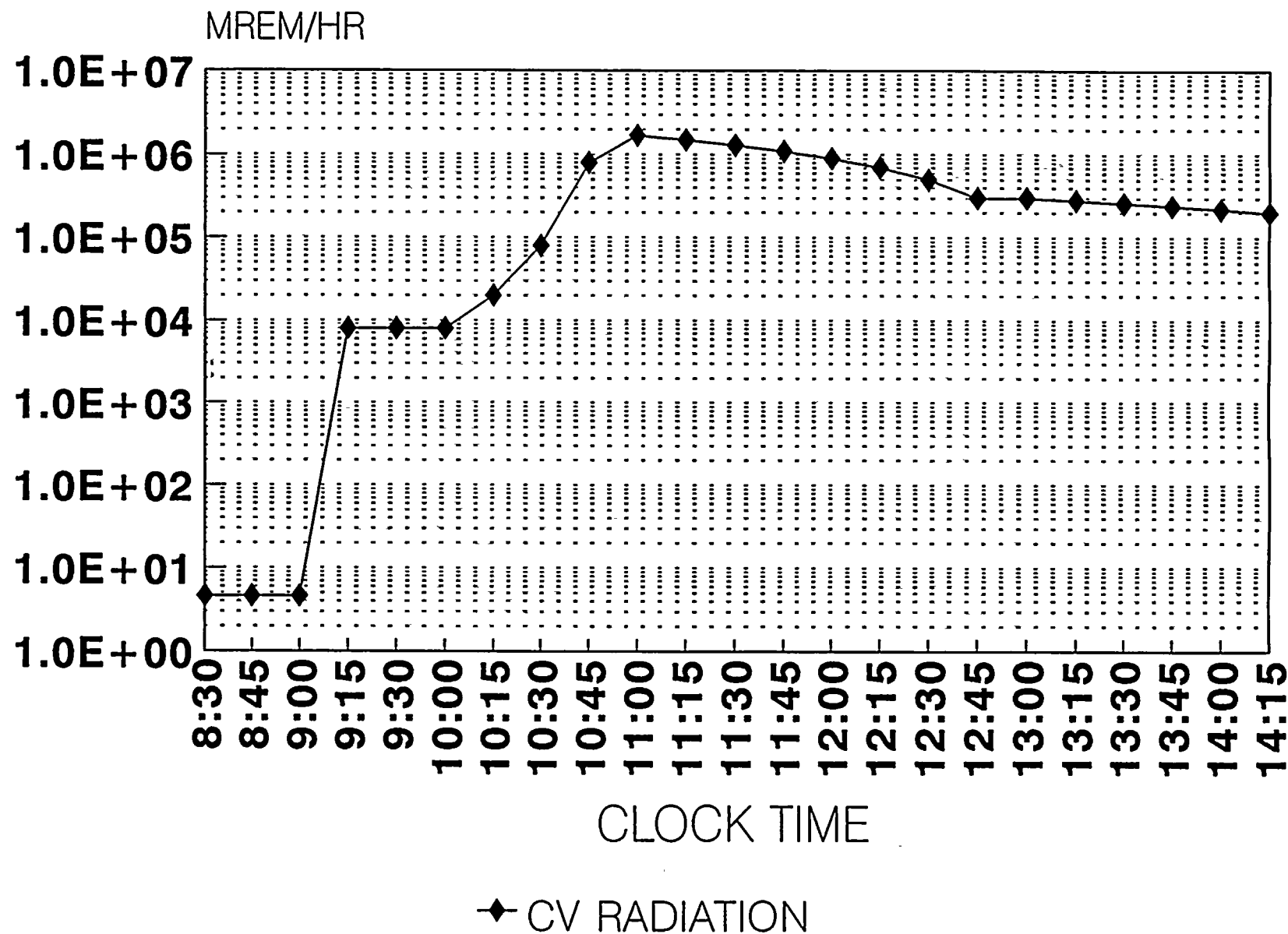
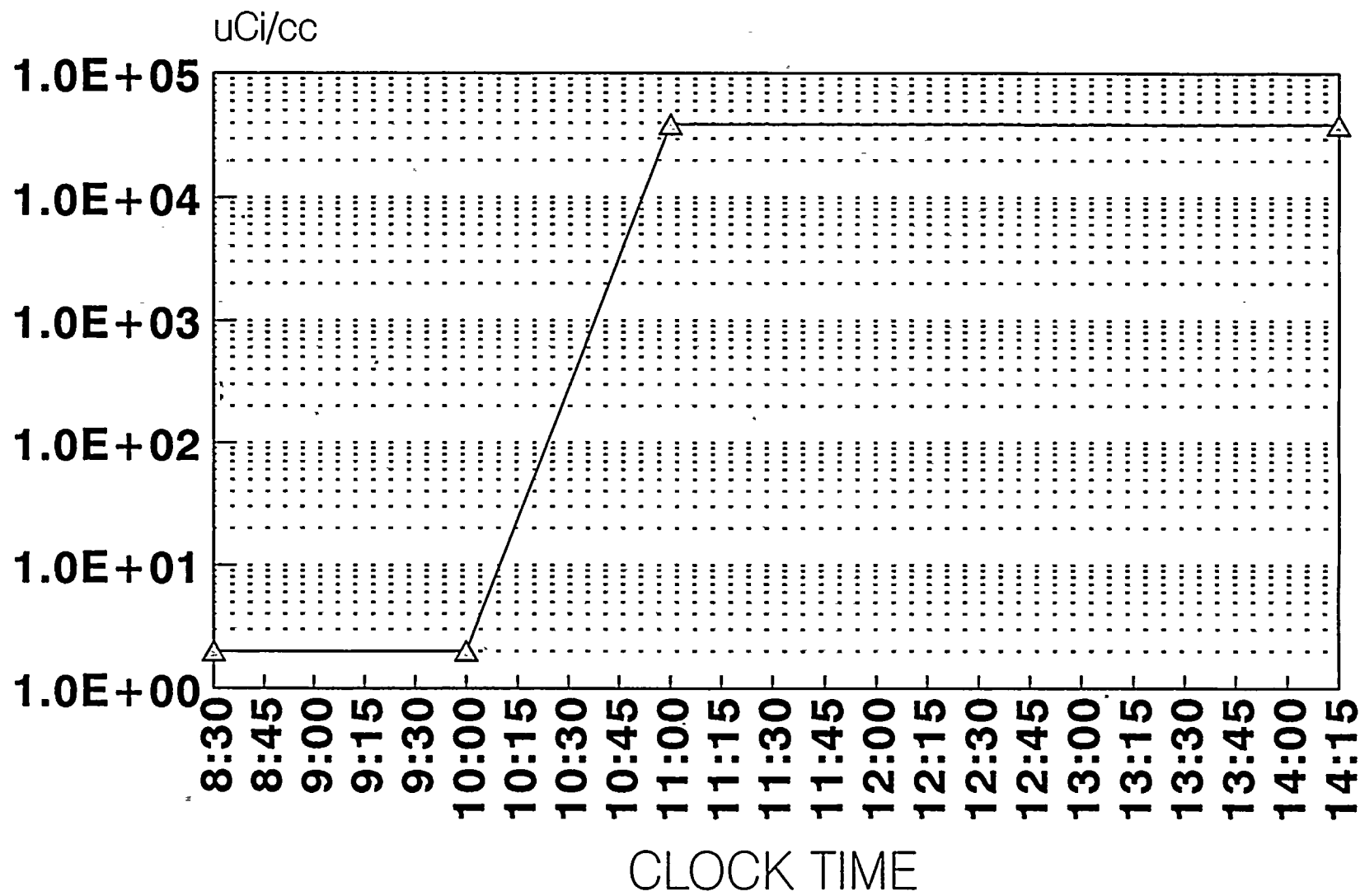




Figure 9.5
RCS Activity



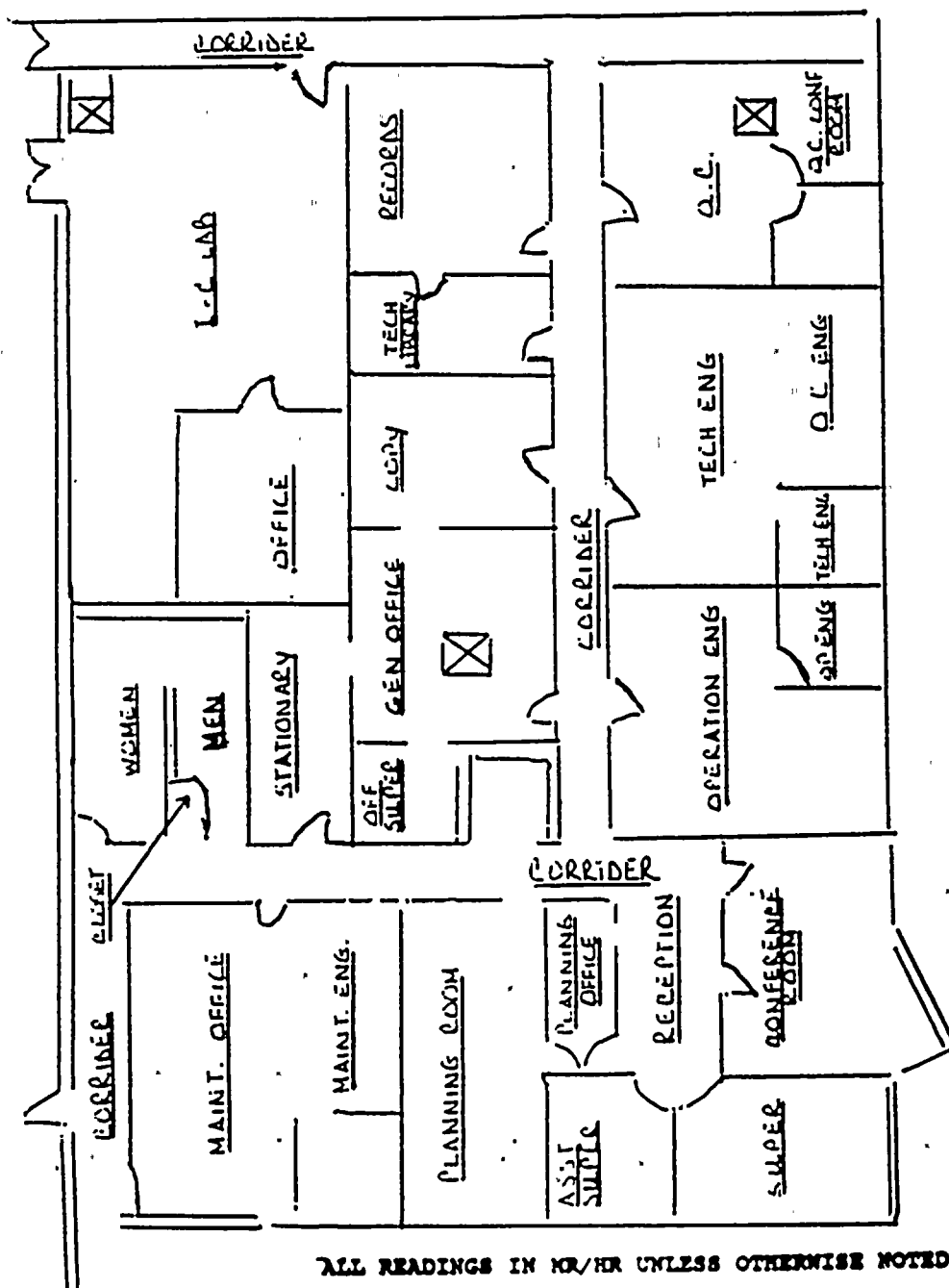
△ RCS Activity

9.2 IN-PLANT RADIOLOGICAL DATA

SERVICE BUILDING NORTH

SURVEYED BY: _____
COUNTING INSTRUMENT: _____
SERIAL NUMBER: _____
% POWER: _____
LLD: _____

AREA SURVEYED: _____ RWP/SWP NUMBER: _____

[illegible]

07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

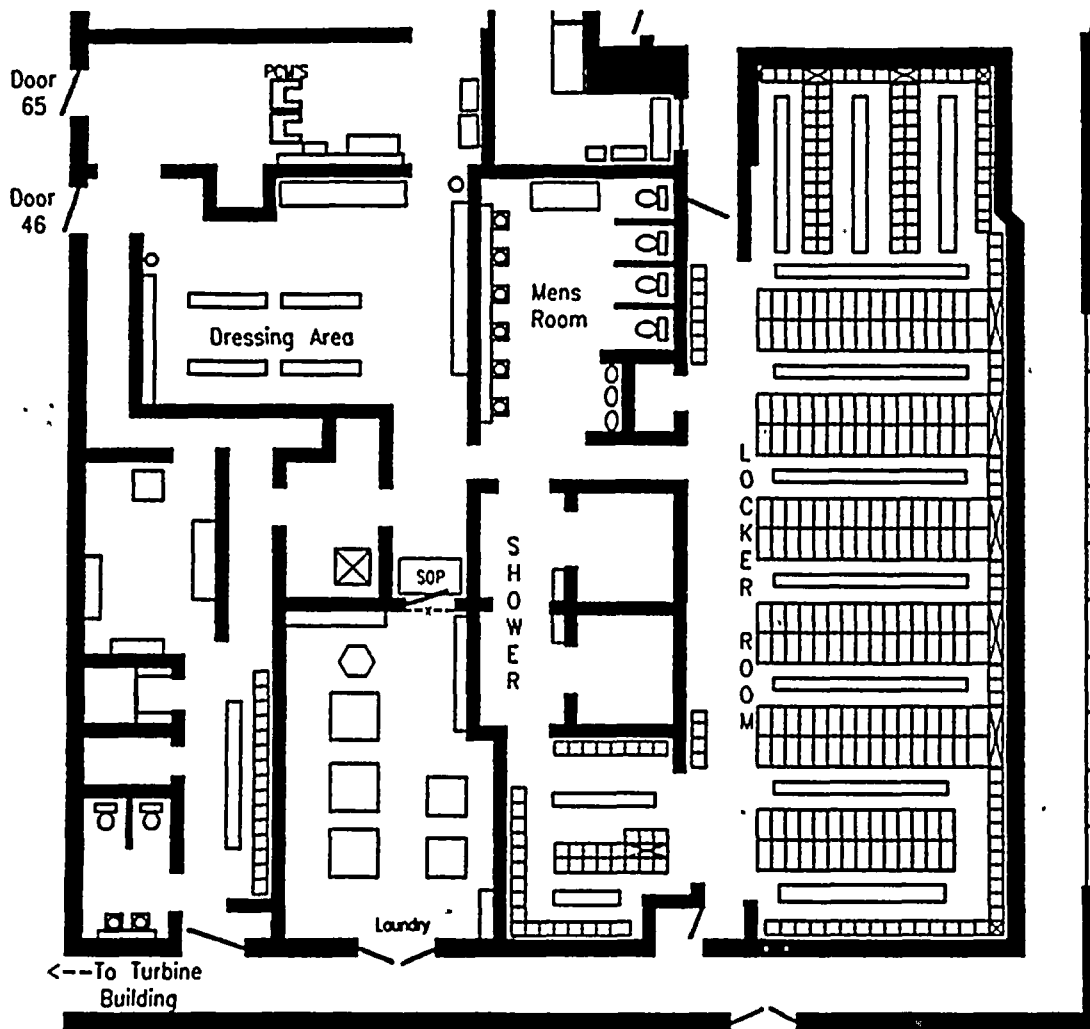
ALL READINGS IN HR/HR UNLESS OTHERWISE NOTED

R.E.GINNA STATION

Service Building South - North End

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

SVC&N.FRP



No.	dpm/100cm2

07:30-15:00
 All Areas
 (Clean)
Radiation Levels
 0.01mR/hr
Smears
 250dpm
Airborne Activity
 Iodine=1E-11 uCi/cc
 Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level Δ# = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

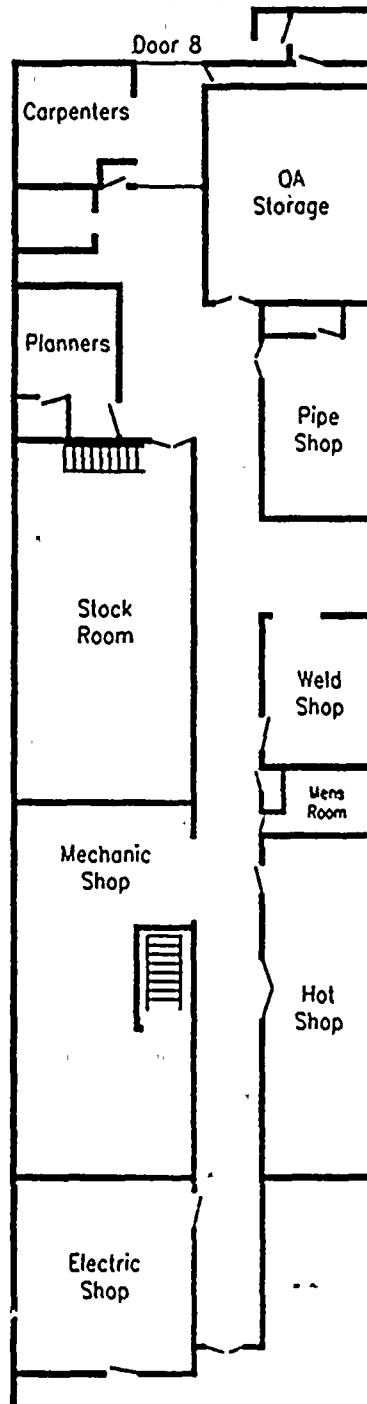
* = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Service Building Basement

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

SVCBAS.FPP



No.	dpm/100cm2

07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

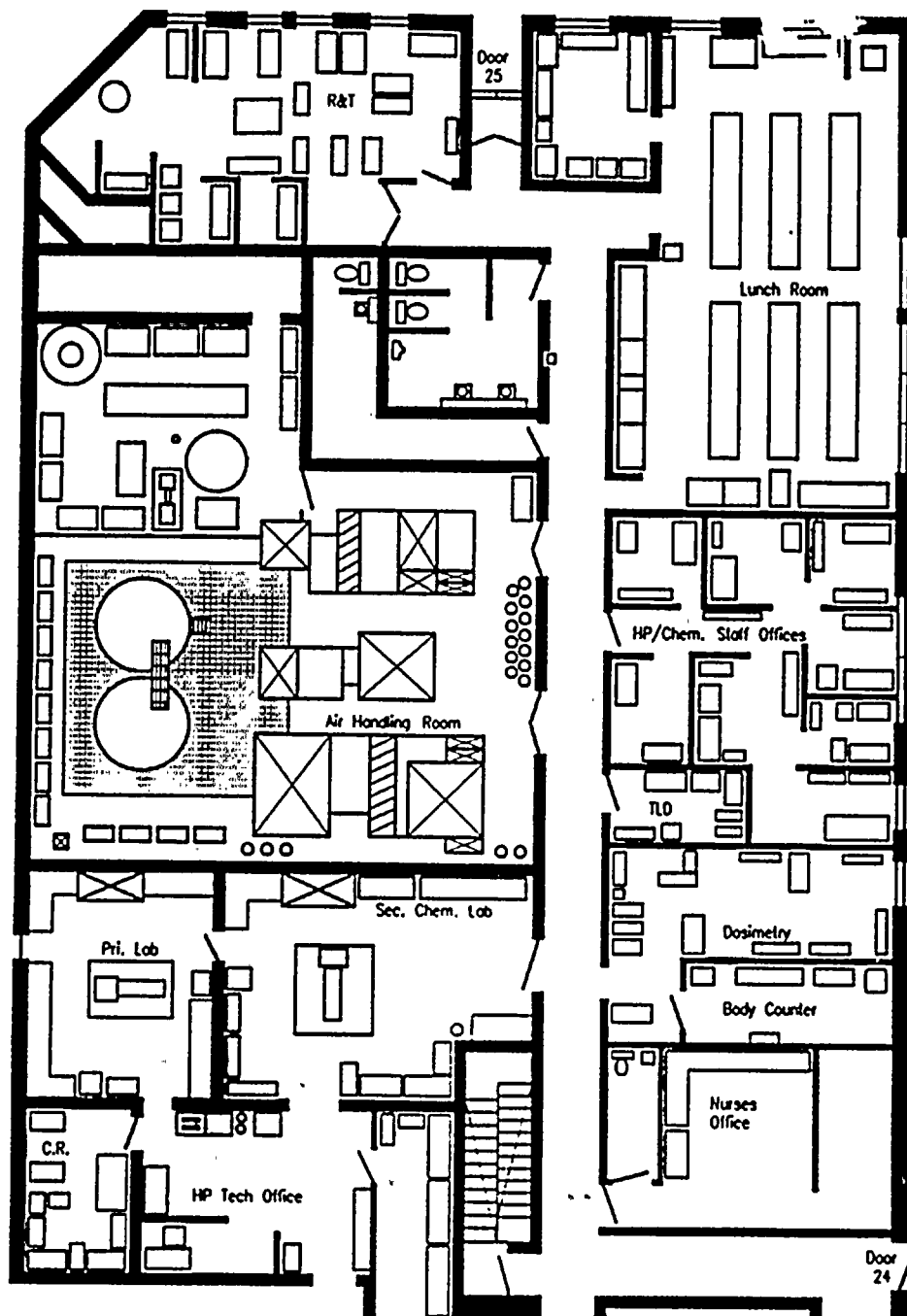
* = Cont. Area
 ⊛ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Service Building South - South End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

SVC88.FPP



No.	dpm/100cm2

07:30-15:00

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

= Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level △# = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

* = Cont. Area
 ⊕ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊕ = Locked High Rad. Area

R.E.GINNA STATION

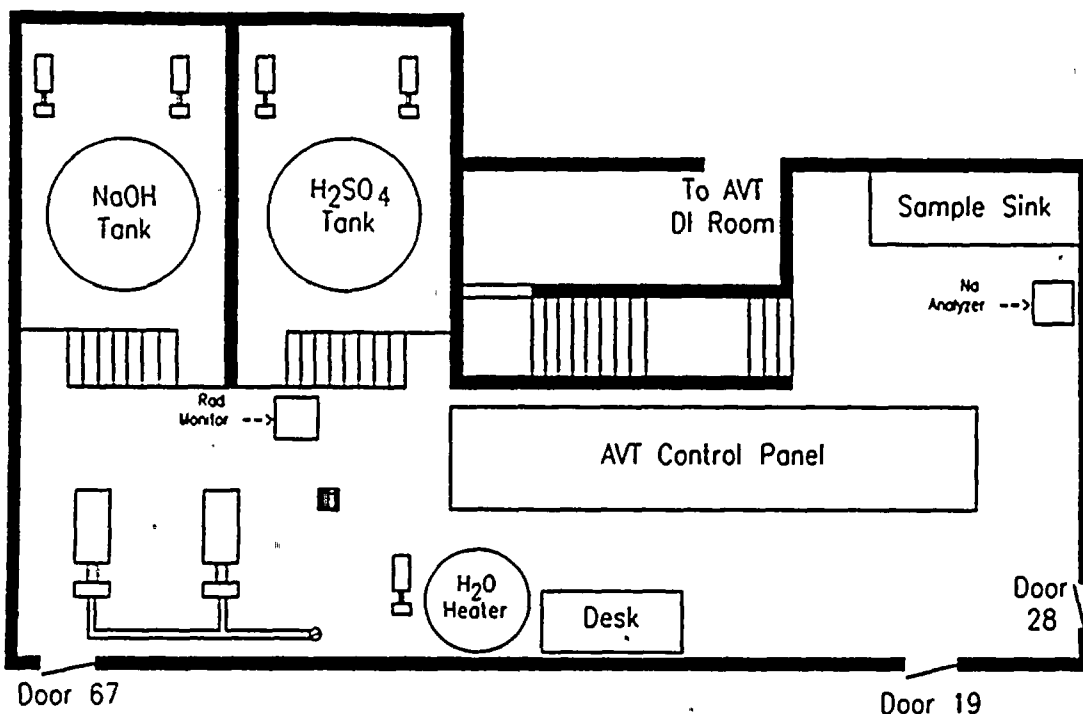
All Volatile Treatment Building - Control Panel Area

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in mr/hr unless otherwise noted.

AVTGP FRP

No. dpm/100cm²



07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

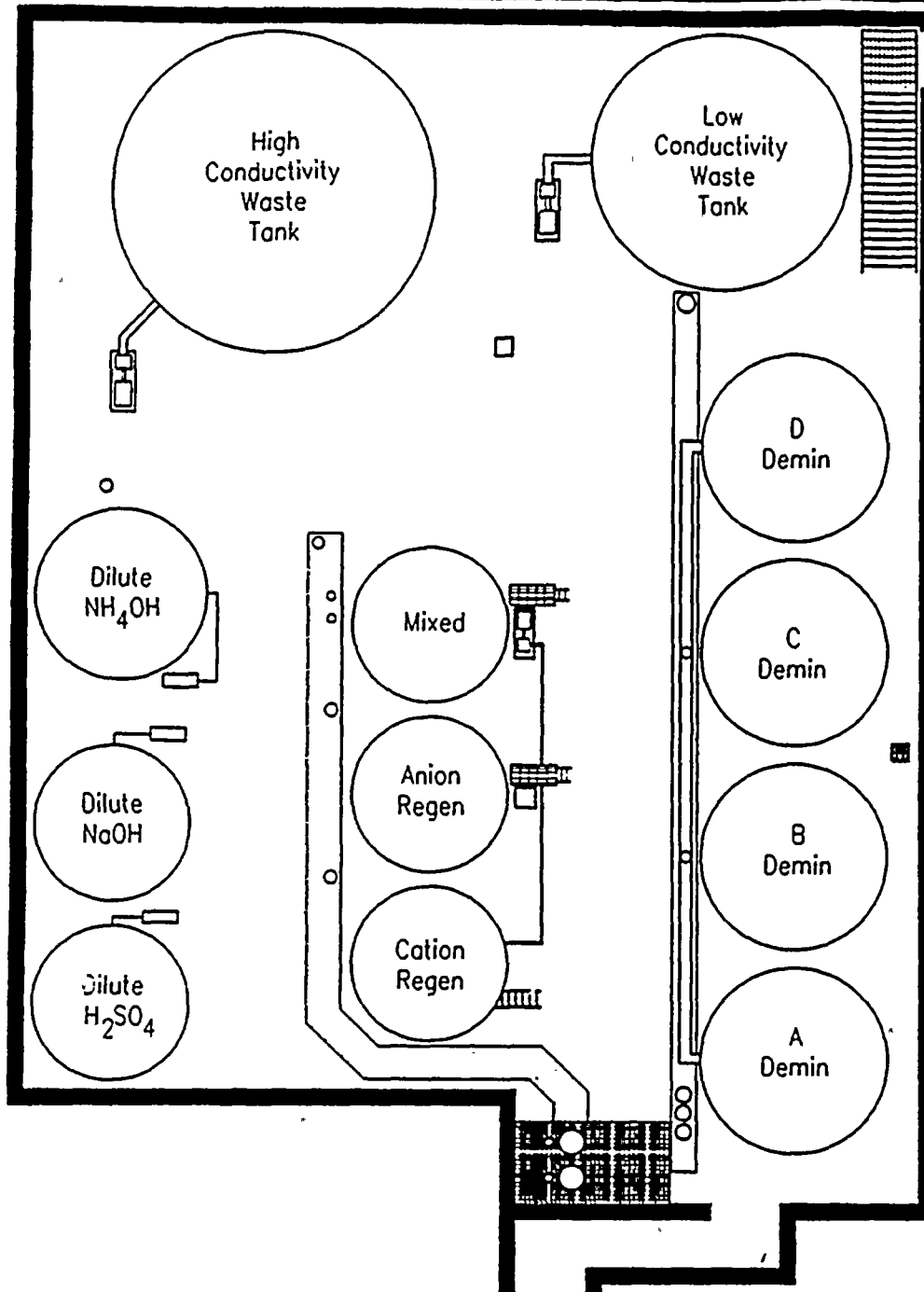
* = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

All Volatile Treatment Building - Demineralizer Area

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

AVT FRP



Door
27

No.	dpm/100cm ²
-----	------------------------

07:30-15:00
All Areas
(Clean)

Radiation Levels

0.01mR/hr


Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

[illegible]

(#) = Smear Location -x--x- = Rad/Cont. Barrier
= Radiation Level  = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks:

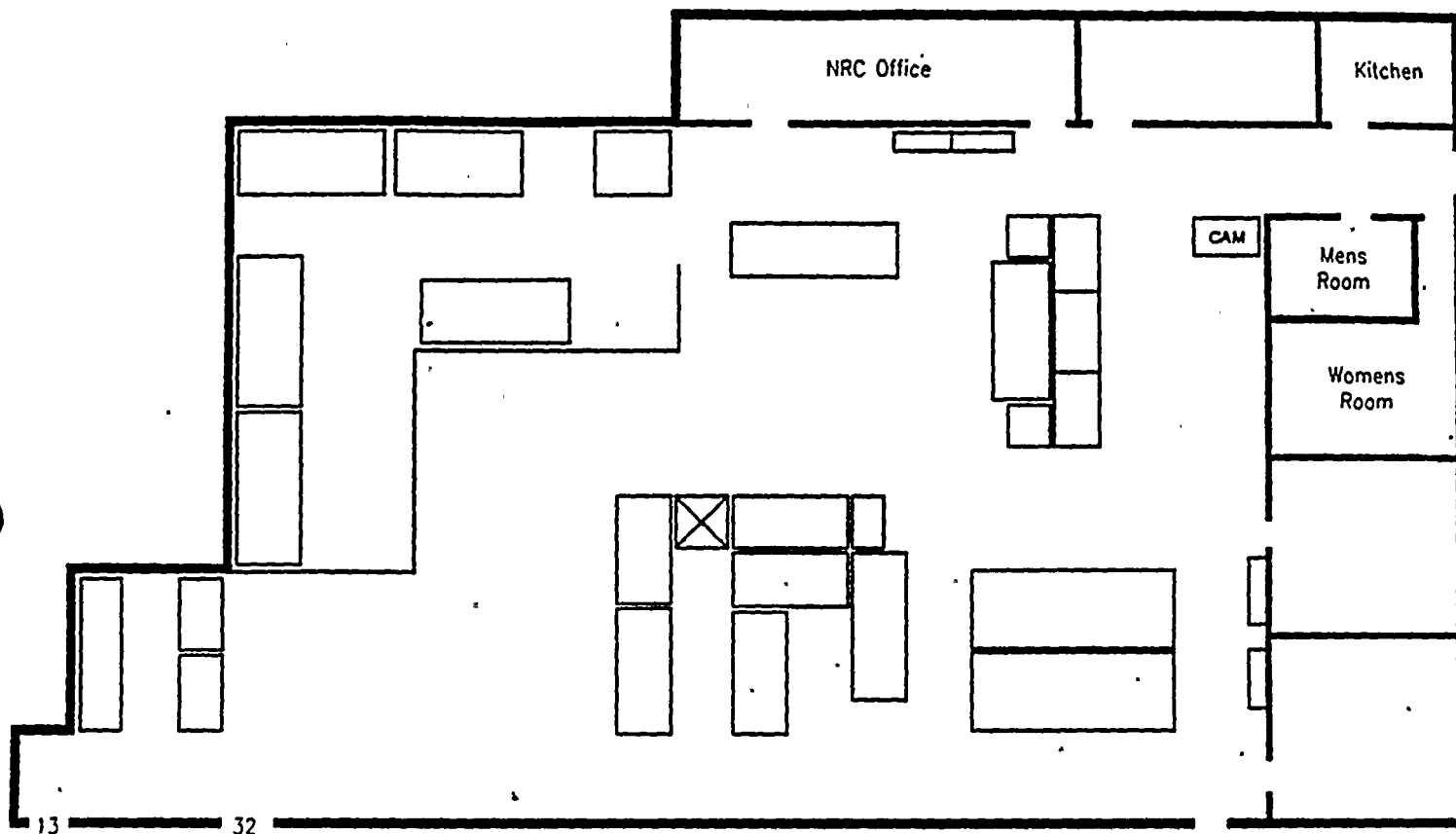
- * = Cont. Area
- ⊙ = High Cont. Area
- + = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Technical Support Center

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

TSC-770



07:30-15:00

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

No.	dpm/100cm2	No.	dpm/100cm2	No.

00cm2	No.	dpm/100cm2	No.	dpm/100cm2

= Smear Location # = Radiation Level #c = Contact Reading
 # = Neutron Radiation Level -x-x- = Rad/Cont. Barrier

Technician Remarks: _____

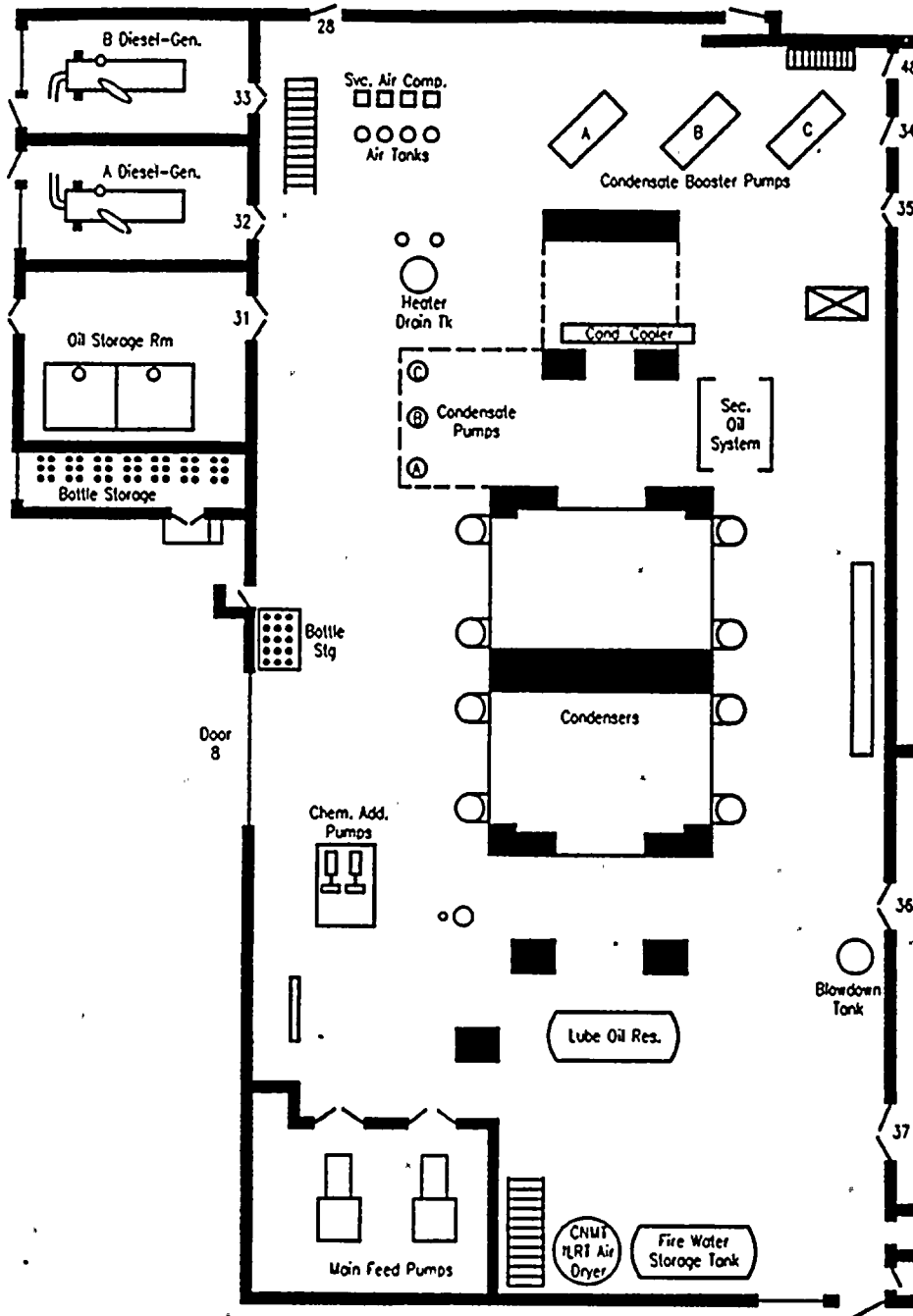
• = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Turbine Building Basement

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

TURBINE PIP



No.	dpm/100cm2

07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

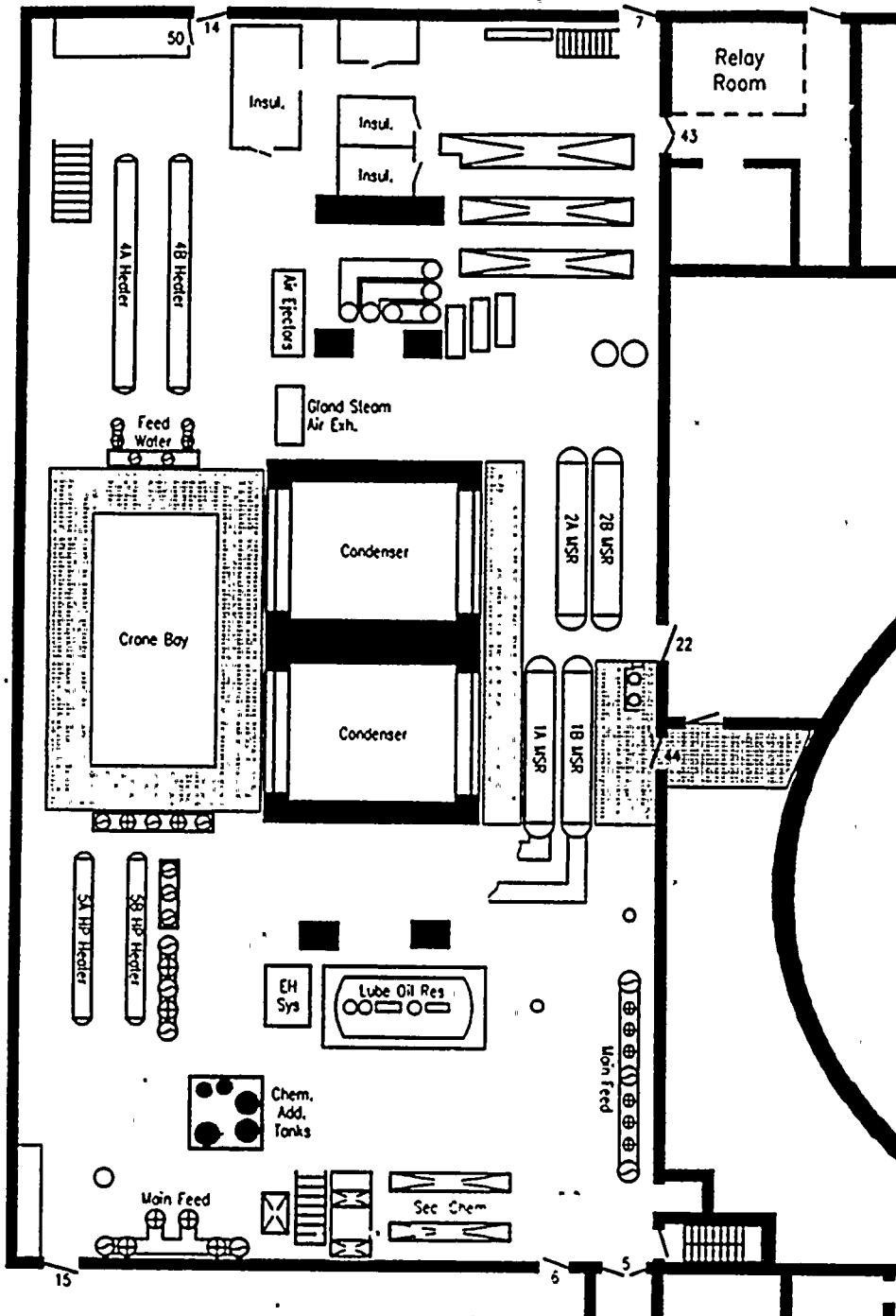
* = Cont. Area
 ⊛ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Turbine Building Mezzanine

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

TURBMEZZ.FRP



No.	dpm/100cm2

07:30-15:00
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

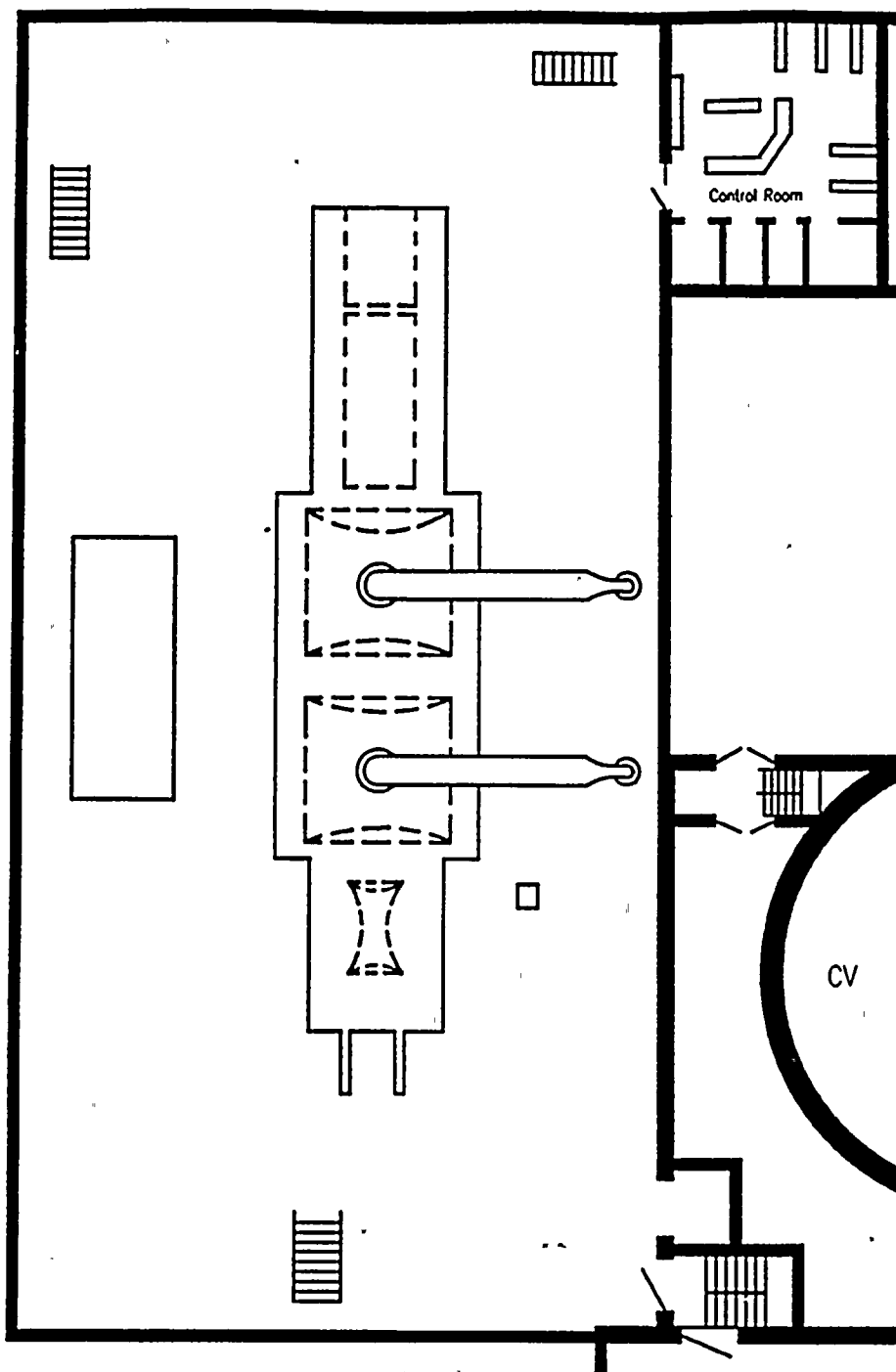
* = Cont. Area
 * = High Cont. Area
 + = Radiation Area
 + = High Rad. Area
 * = Locked High Rad. Area

R.E.GINNA STATION

Turbine Building - Operating Floor

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

TEOP.FRP



No.	dpm/100cm2

07:30-15:00

**All Areas
(Clean)**

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

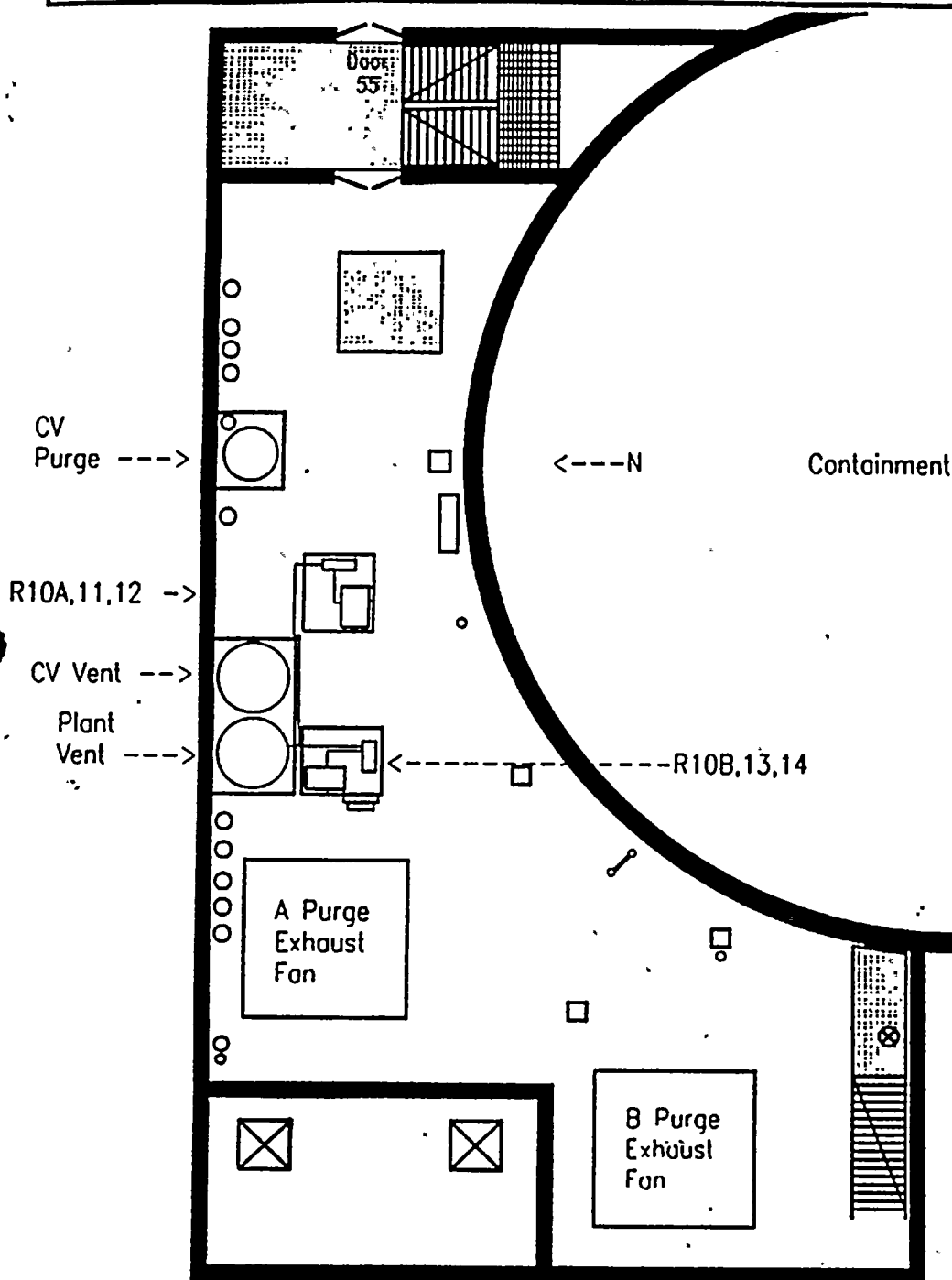
Technician Remarks: _____

* = Cont. Area
 ⊛ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Top Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

[illegible]

07:30-09:10

**All Areas
(Clean)**

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc[illegible]

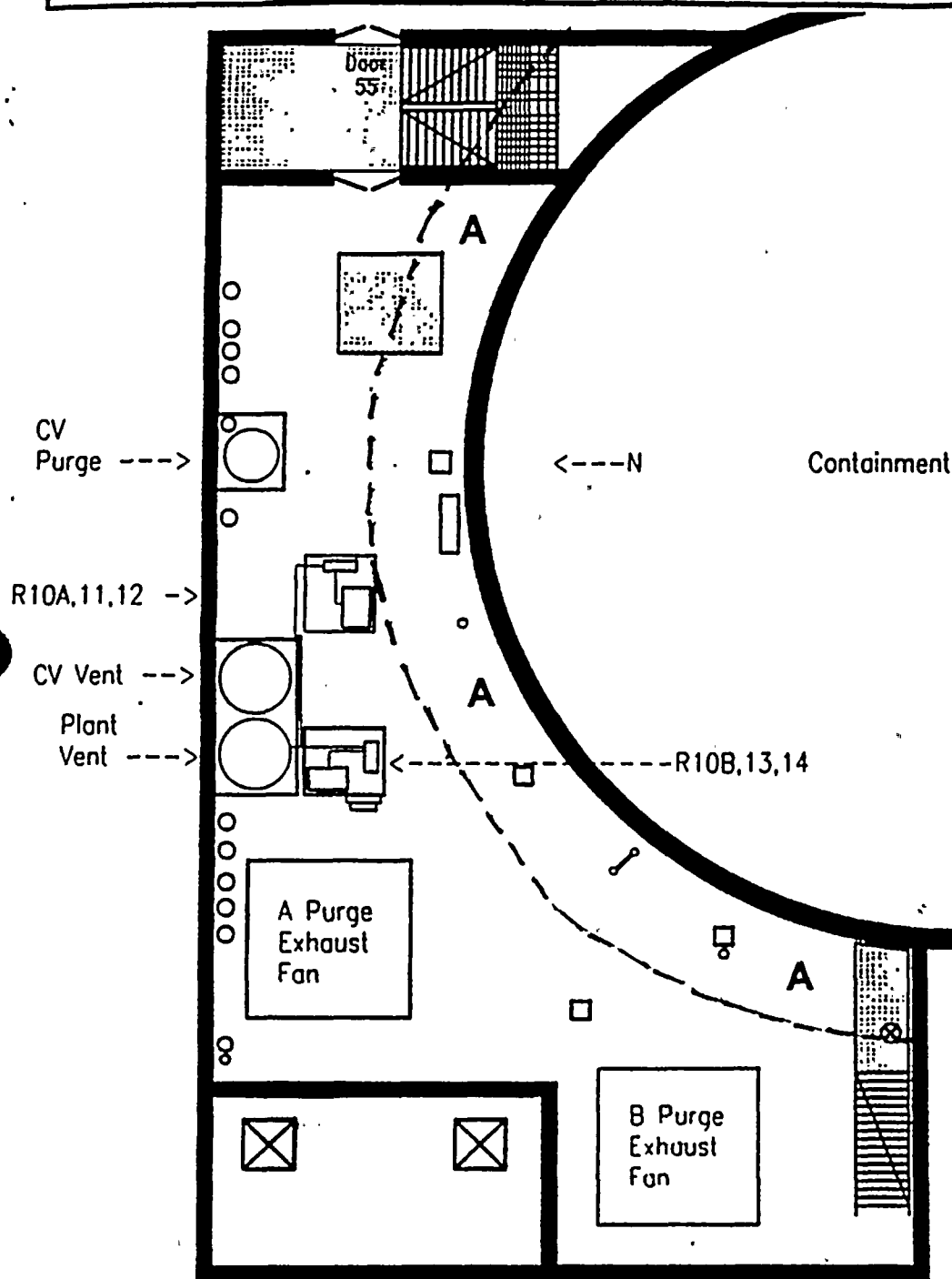
= Smear Location -x--x- = Rad/Cont. Barrier
= Radiation Level △# = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- ✦ = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad Area

Intermediate Building North - Top Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

[illegible]

10:30-10:50

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

[illegible]

- # = Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level △ # = Neutron Radiation Level
 #c = Contact Reading

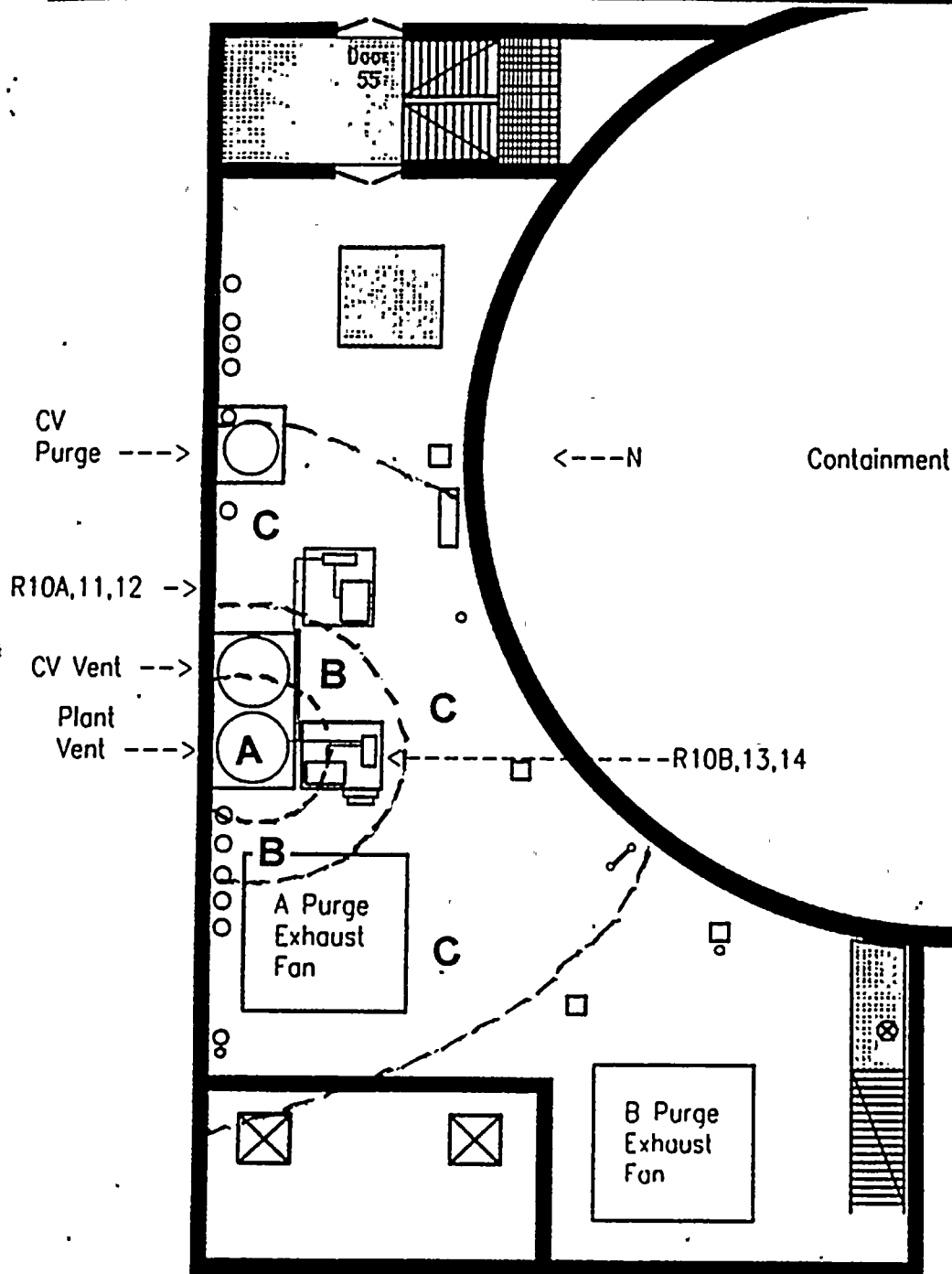
Technician Remarks:

- = Cont. Area
- ⊙ = High Cont. Area
- ✦ = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad Area

R.E.GINNA STATION

Intermediate Building North - Top Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No.	dpm/100cm2

10:50-12:50

All Areas Radiation Levels

A=6R/hr
 B=1000mR/hr
 C=500mR/hr
 D=37mR/hr

Smears

A&B=600dpm
 C&D=2000dpm
Airborne Activity
 Iodine=1E-8 uCi/cc
 Part.=1E-7 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

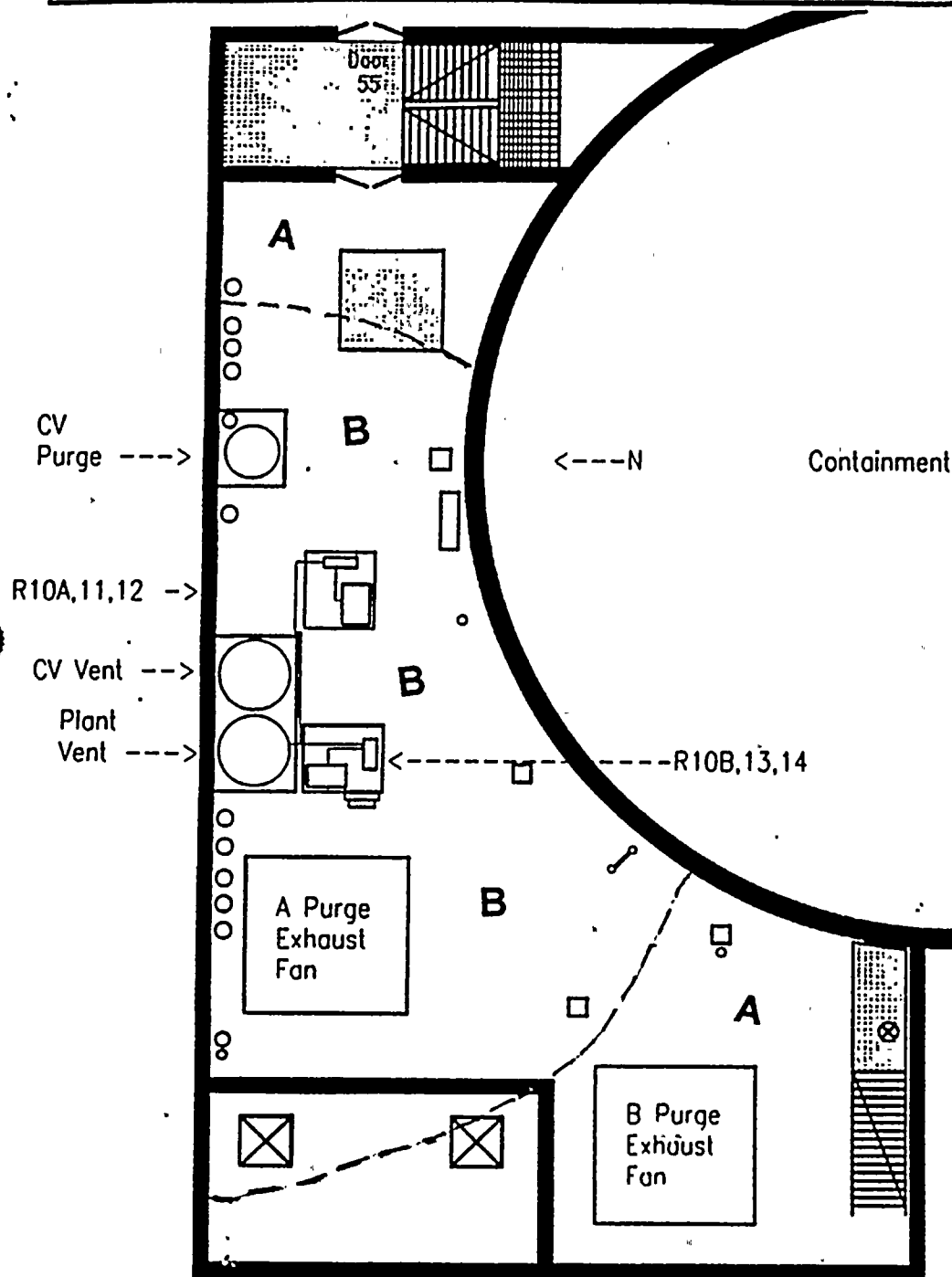
Technician Remarks: _____

* = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Top Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No.	dpm/100cm2

12:50-15:00

Radiation Levels

A=37mR/hr

B=50mR/hr

Smears

A=3000dpm

B=5000dpm

Airborne Activity

Iodine=2E-9 uCi/cc

Part.=2E-9 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

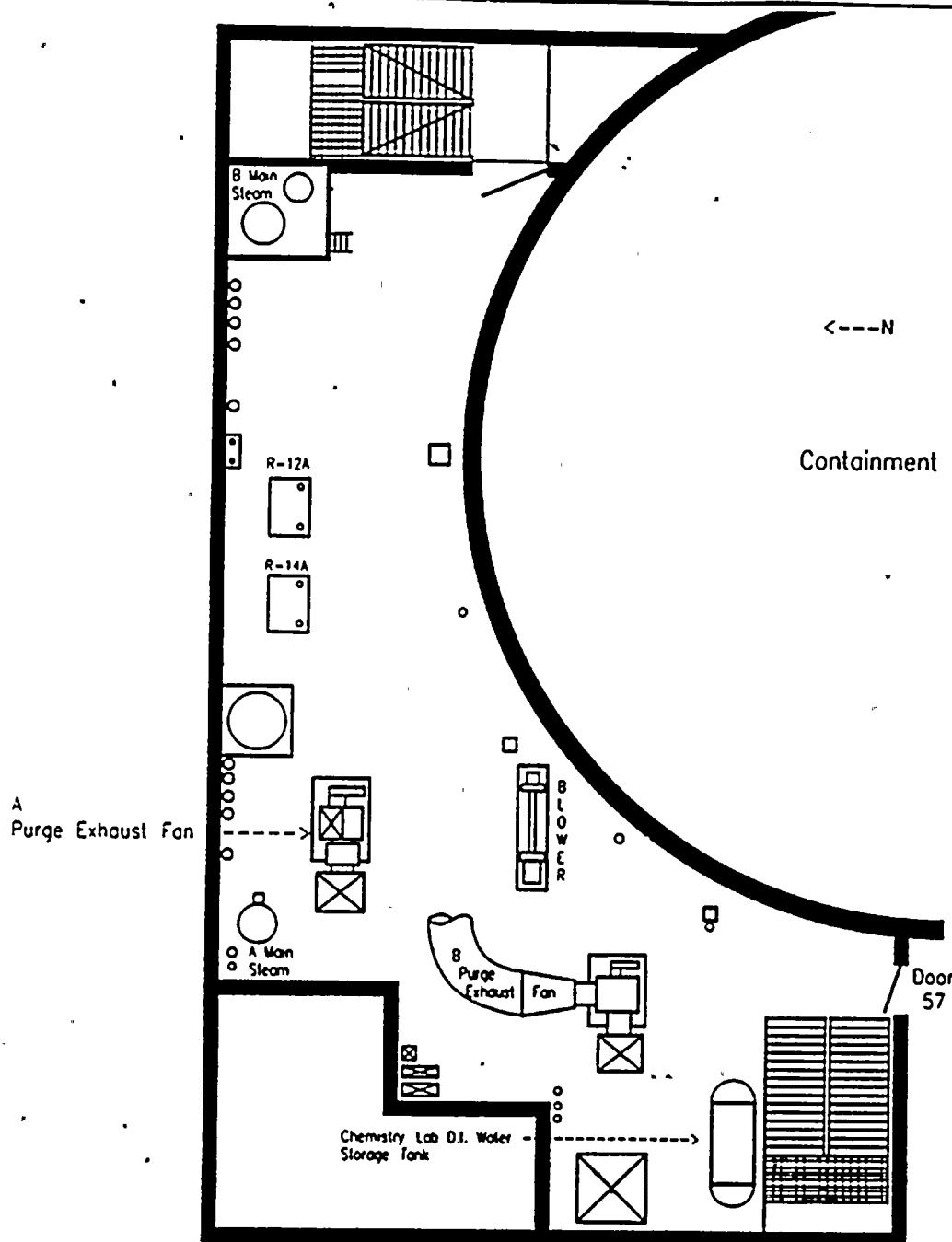
* = Cont. Area
 ⊕ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊕ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Operating Level

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTNTHOP FRP



No. dpm/100cm2

07:30-09:10

All Areas
(Clean)

Radiation Levels

0.01mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

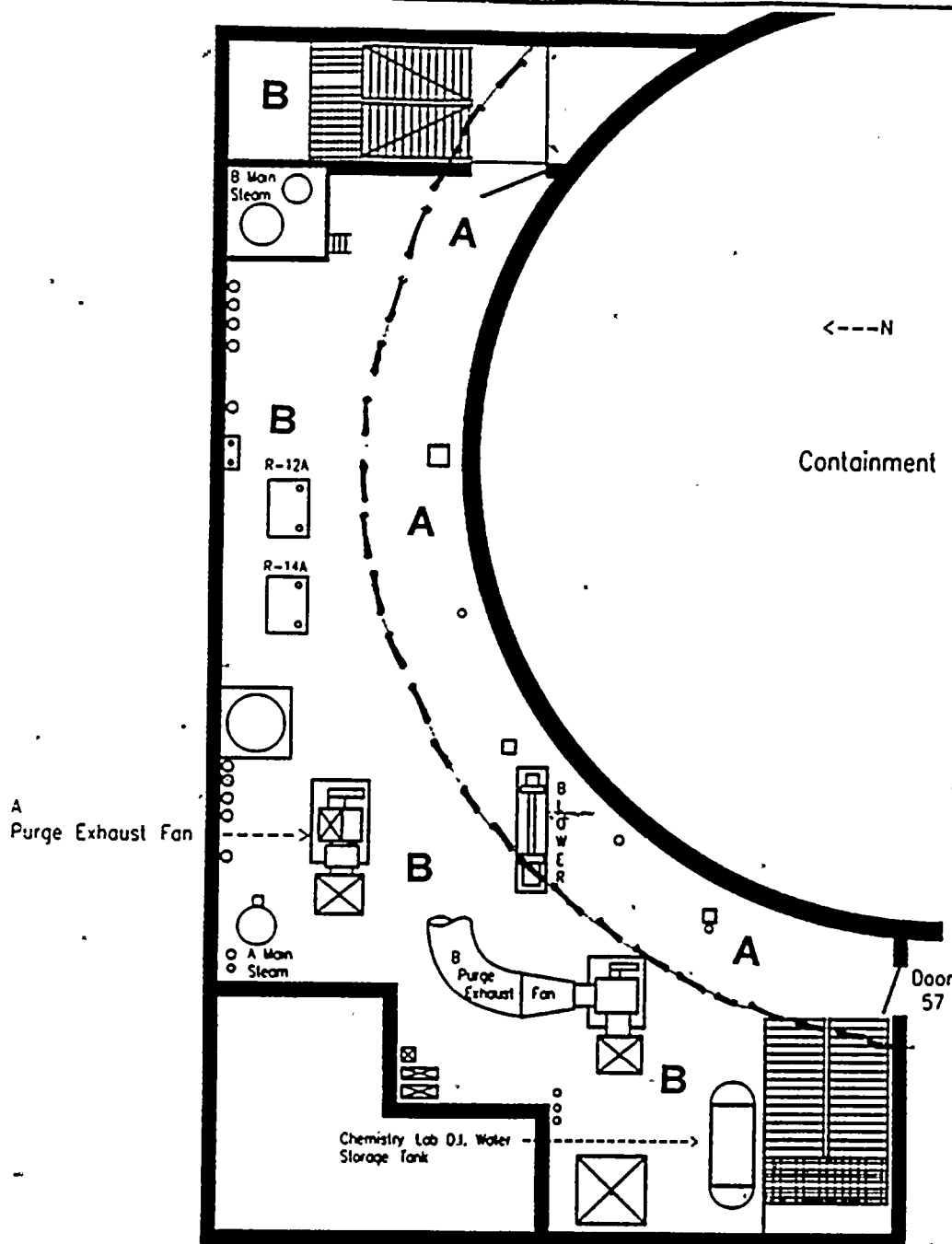
* = Cont. Area
 * = High Cont. Area
 + = Radiation Area
 * = High Rad. Area
 + = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Operating Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

WINTHROP FROM



No.	dpm/100cm ²
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
52	100
53	100
54	100
55	100
56	100
57	100
58	100
59	100
60	100
61	100
62	100
63	100
64	100
65	100
66	100
67	100
68	100
69	100
70	100
71	100
72	100
73	100
74	100
75	100
76	100
77	100
78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

09:10-10:30

Radiation Levels

$$A = 3 \text{ mR/hr}$$

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

- #** = Smear Location **-x--x-** = Rad/Cont. Barrier
= Radiation Level **△ #** = Neutron Radiation Level
#c = Contact Reading

Technician Remarks:

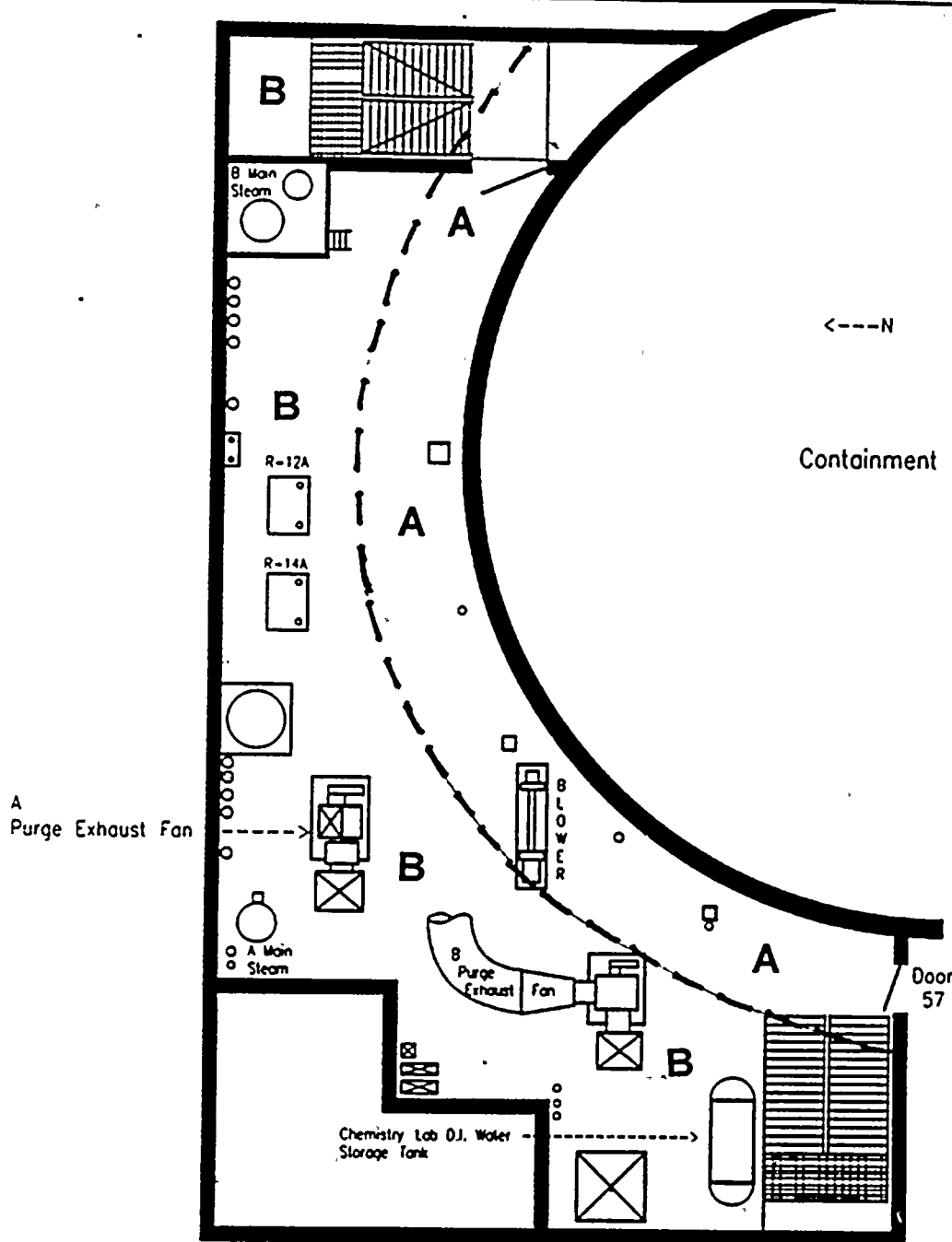
- * = Cont. Area
 (•) = High Cont. Area
 + = Radiation Area
 (◊) = High Rad. Area
 [◊] = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Operating Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTNTHOP FRP



No. dpm/100cm2

10:30-10:50

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

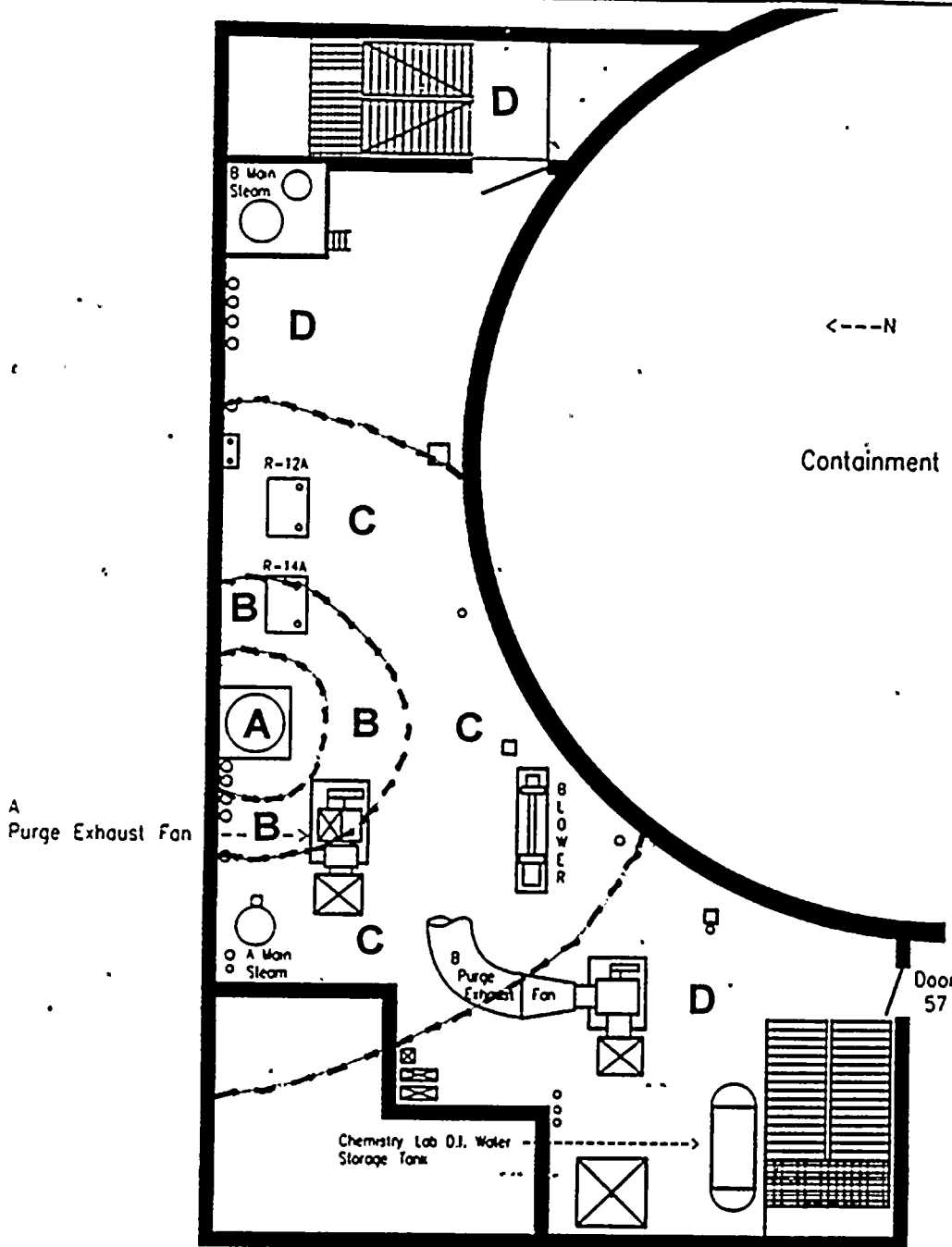
* = Cont. Area
 ⊕ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊕ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Operating Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTHTOP FFP



No. dpm/100cm2

10:50-12:50

All Areas Radiation Levels

A=6R/hr

B=1000mR/hr

C=500mR/hr

D=37mR/hr

Smears

A&B=600dpm

C&D=2000dpm

Airborne Activity

Iodine=1E-8 uCi/cc

Part.=1E-7 uCi/cc

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

* = Cont. Area
 ⊛ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

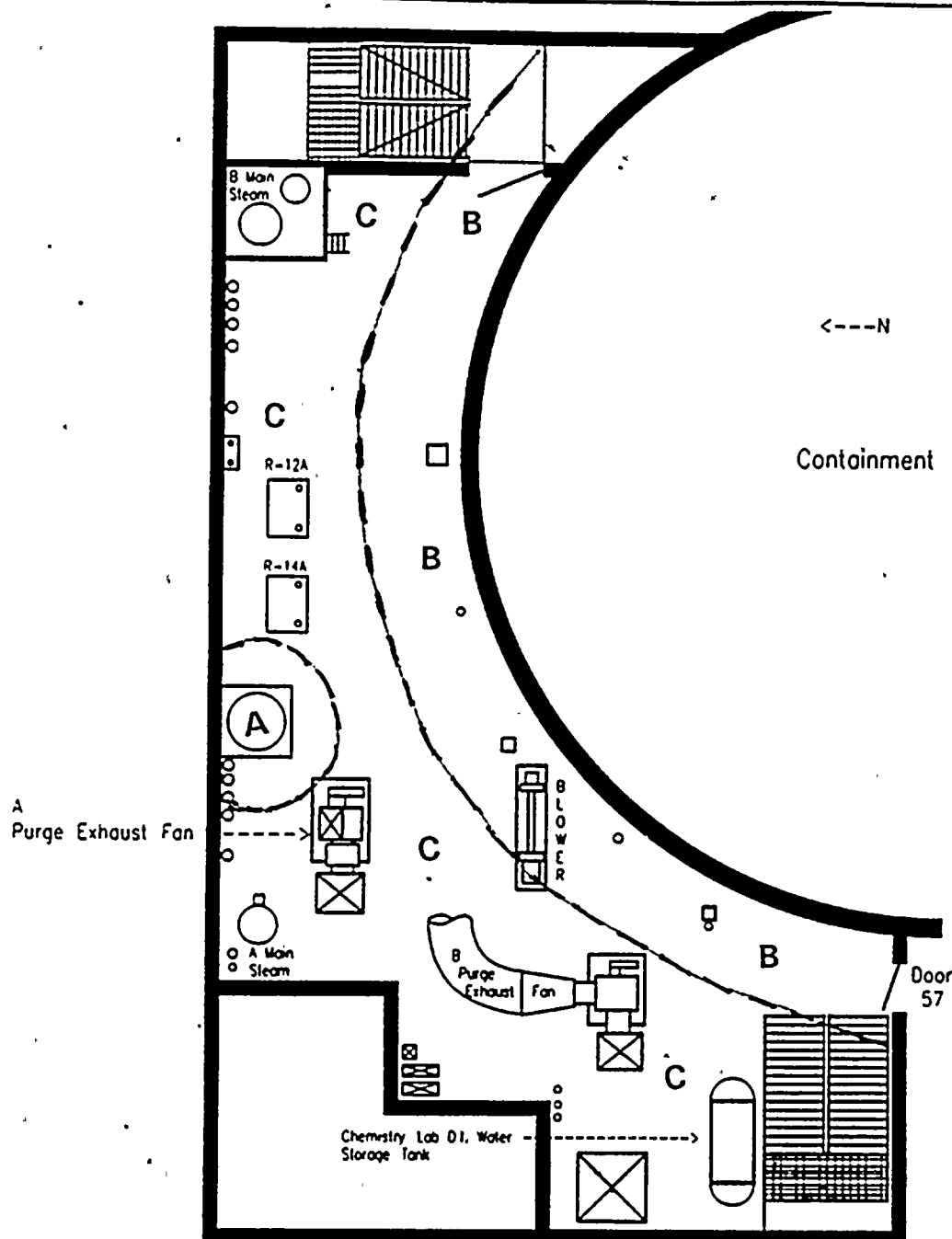
Intermediate Building North - Operating Level

Technician: _____ Date: _____ Time: _____

Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____

Note: All readings are in ml/hr unless otherwise noted.

WINTHROP FARM



No.	dpm/100cm ²
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
52	100
53	100
54	100
55	100
56	100
57	100
58	100
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65	100
66	100
67	100
68	100
69	100
70	100
71	100
72	100
73	100
74	100
75	100
76	100
77	100
78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

12:50-15:00

Radiation Levels

A = 50mR/hr

B = 37mR/hr

$$C = 2mR/hr$$

Smears

A = 5000dpm


B = 3000dpm

C = 3000dpm

Airborne Activity

Iodine = 2E-9 uCi/cc

Part. = 2E-9 uCi/cc

- # = Smear Location -x--x- = Rad/Cont. Barrier
= Radiation Level  = Neutron Radiation Level
#c = Contact Reading
 Technician Remarks:

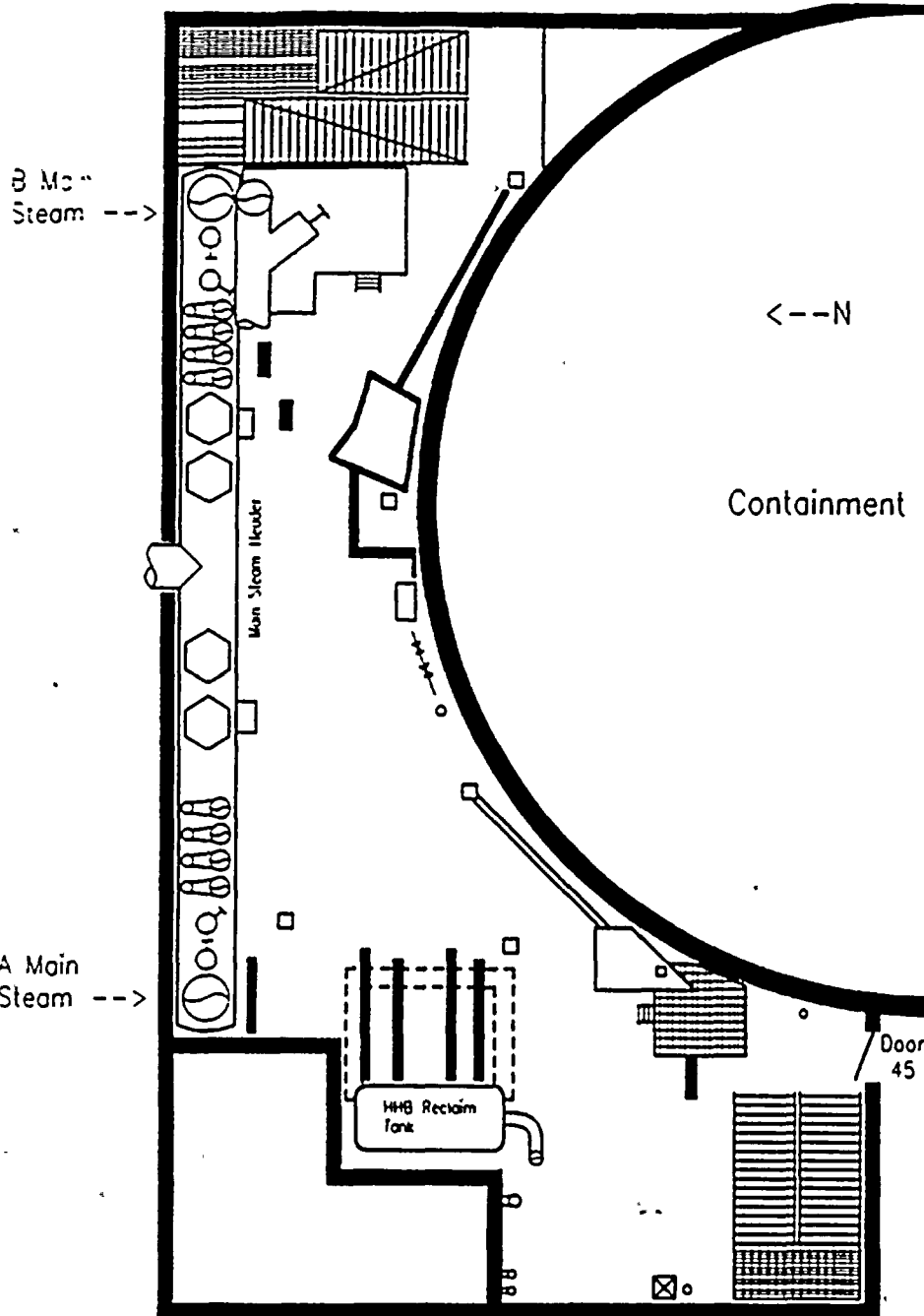
- * = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ⬜ = Locked High Rad.

R.E.GINNA STATION

Intermediate Building North - Mezzanine Level

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTNTHM2 FRP



No. dpm/100cm2

07:30-09:10
All Areas
(Clean)
Radiation Levels
0.01mR/hr
Smears
250dpm
Airborne Activity
Iodine=1E-11 uCi/cc
Part.=1E-10 uCi/cc

(#) = Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading
 Technician Remarks: _____

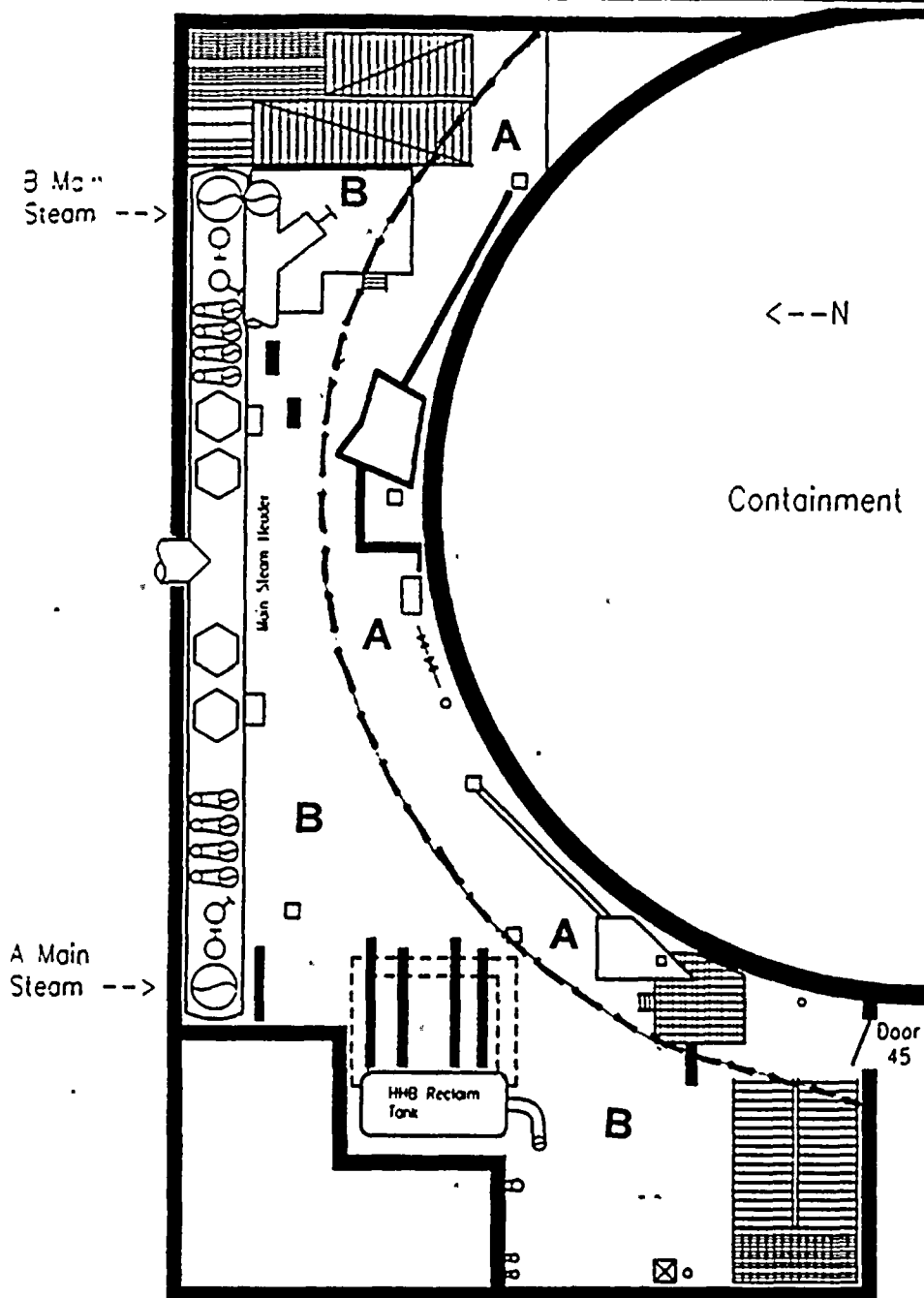
* = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Mezzanine Level

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.

INTNTM2 FRP



No. dpm/100cm2

09:10-10:30

Radiation Levels

A=3mR/hr

B=0.5mR/hr

Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

A Main Steam -->

Door 45

HHB Reclaim Tank

= Smear Location -x--x- = Rad/Cont. Barrier
 # = Radiation Level # = Neutron Radiation Level
 #c = Contact Reading

Technician Remarks: _____

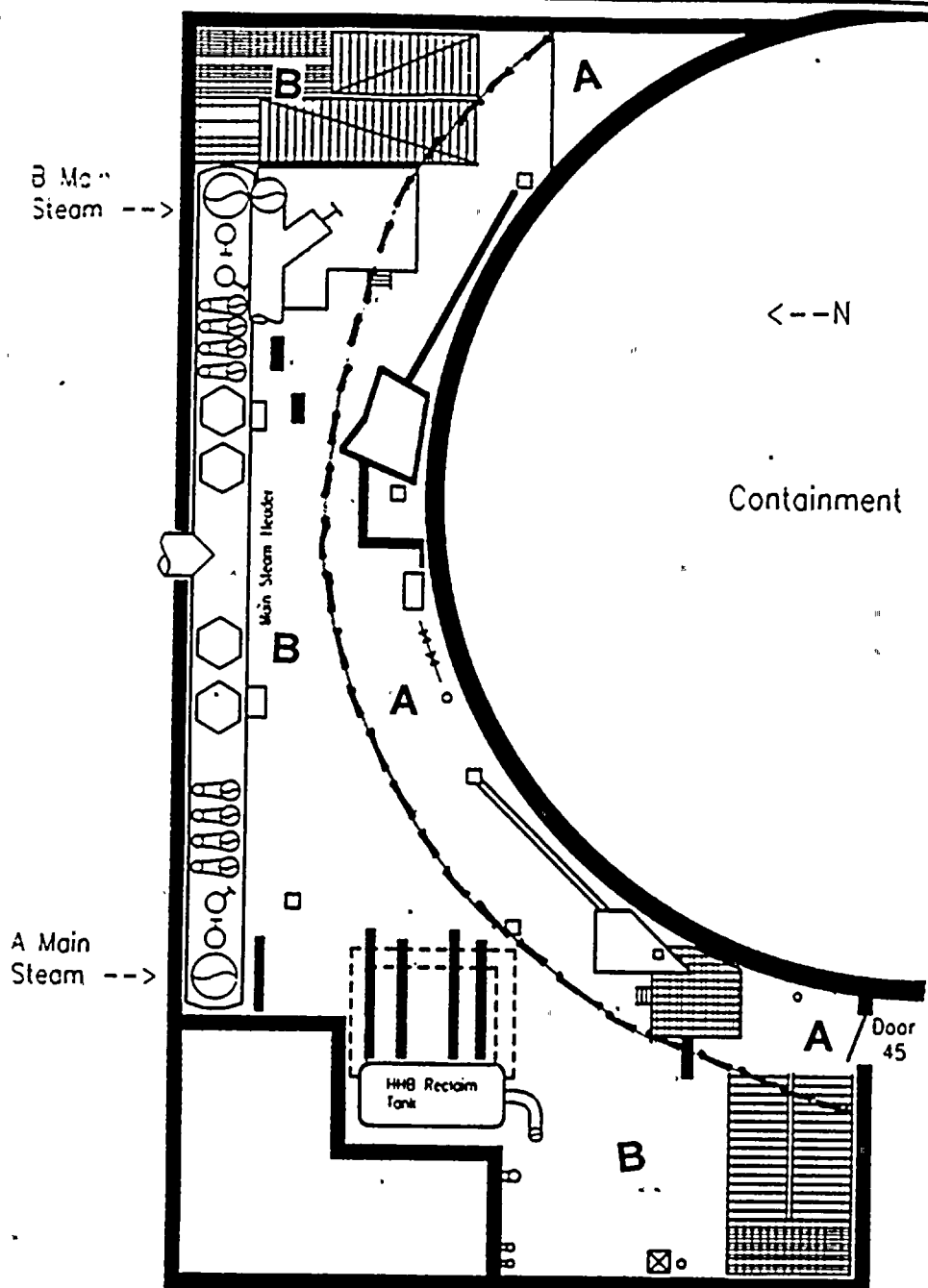
* = Cont. Area
 ⊙ = High Cont. Area
 + = Radiation Area
 ⊕ = High Rad. Area
 ⊞ = Locked High Rad. Area

R.E.GINNA STATION

Intermediate Building North - Mezzanine Level

Technician: _____ Date: _____ Time: _____
Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
Note: All readings are in mr/hr unless otherwise noted.

INTNTMAZ SRU



No.	dpm/100cm ²
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
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84	100
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91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

10:30-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr


Smears

250dpm

Airborne Activity

Iodine=1E-11 uCi/cc

Part.=1E-10 uCi/cc

= Smear Location -x-x- = Rad/Cont. Barrier
= Radiation Level  = Neutron Radiation Level
#c = Contact Reading

Technician Remarks: _____

- * = Cont. Area
- ⊙ = High Cont. Area
- ⋄ = Radiation Area
- ⊕ = High Rad. Area
- ⊞ = Locked High Rad. Area

9.3 POST-ACCIDENT SAMPLING RESULTS

TABLE 9-2A
Chemistry Data
Equilibrium Activity
Reactor Coolant System
"B" Loop Sample

Sample time: November 17, 1993 @ 04:30

<u>Nuclide</u>	<u>Activity ($\mu\text{Ci/cc}$)</u>
Ar-41=	3.25E-02
Kr-85m=	4.02E-02
Kr-87=	5.41E-02
Kr-88=	6.59E-02
Xe-133=	2.13E-01
Xe-135=	2.03E-01
Xe-135m=	9.19E-02
Xe-138=	<u>3.06E-01</u>
Total Gas Activity=	1.01E+00

Total Degassed Activity= 1.55E+00

Total Activity= 2.56E+00

Boron = 345ppm

pH = 7.0

For more detailed chemistry information see HP/Chemistry turnover sheet.

TABLE 9-3A
Chemistry Data
Post-Accident Samples
Reactor Coolant System
"B" Loop Sample

Sample time: November 17, 1993 @ 09:30-10:29

<u>Nuclide</u>	<u>Activity* (μCi/cc)</u>
Ar-41=	2.27E-02
Kr-85m=	2.81E-02
Kr-87=	3.78E-02
Kr-88=	4.61E-02
Xe-133=	1.49E-01
Xe-135=	1.42E-01
Xe-135m=	6.42E-02
Xe-138=	2.14E-01
Total Gas Activity=	7.04E-01

Total Degassed Activity= 1.08E+00

Total Activity= 1.79E+00

I-131=	1.11E-02
I-132=	2.14E-01
I-133=	1.09E-01
I-134=	4.60E-01
I-135=	2.25E-01

* = Activity Corrected to Time of Shutdown

Boron = 2150ppm
pH = 5.0

Sample Dose Rates:

Gas

- Undiluted 35cc gas bulb = 2.9 mR/hr on contact,

Liquid

- Undiluted sample = 1.62 mR/hr on contact,

TABLE 9-3B
Chemistry Data
Post-Accident Samples
Reactor Coolant System
"B" Loop Sample

Sample time: November 17, 1993 @ 10:30-15:00

<u>Nuclide</u>	<u>Activity* (μCi/cc)</u>
Kr-85=	1.34E+01
Kr-85m=	4.36E+02
Kr-87=	7.94E+02
Kr-88=	1.17E+03
Xe-131m=	1.24E+01
Xe-133=	3.97E+03
Xe-135=	7.61E+02
Xe-135m=	<u>1.93E+02</u>
Total Gas Activity=	7.93E+03

<u>Nuclide</u>	<u>Activity* (μCi/cc)</u>
I-131=	4.51E+03
I-132=	6.50E+03
I-133=	9.17E+03
I-134=	2.52E+03
I-135=	<u>8.28E+03</u>
Total Radioiodine Activity=	3.10E+04

Ba-140=	8.09E+03
La-140=	8.43E+03
Cs-134=	1.10E+03
Cs-137=	5.00E+02

* = Activity Corrected to Time of Shutdown

Boron = 2150ppm

pH = 5.0

Sample Dose Rates:

Gas

- Undiluted 35cc gas bulb = 19.5 R/hr on contact,
111 mR/hr at 1 meter.
- Diluted 35cc gas bulb = 107 mR/hr on contact,
0.07 mR/hr at 1 meter.

Liquid

- Undiluted sample = 804 R/hr on contact,
1.3 R/hr at 1 meter.
- Diluted sample = 804 mR/hr on contact,
1.3 mR/hr at 1 meter.

TABLE 9-4A
Chemistry Data
Equilibrium Activity
Containment Atmosphere

Sample time: November 17, 1993 @ 04:30

<u>Nuclide</u>	<u>Activity ($\mu\text{Ci/cc}$)</u>
Ar-41=	1.42E-06
Xe-133=	2.83E-05
Xe-133m=	1.99E-07
Xe-135=	3.39E-07

TABLE 9-4B
Chemistry Data
Post-Accident Samples
Containment Atmosphere

Sample time: November 17, 1993 @ 09:30-10:29

<u>Nuclide</u>	<u>Activity* ($\mu\text{Ci/cc}$)</u>
Ar-41=	1.09E-04
Kr-85m=	1.35E-04
Kr-87=	1.82E-04
Kr-88=	2.21E-04
Xe-133=	7.17E-04
Xe-135=	6.82E-04
Xe-135m=	3.09E-04
Xe-138=	<u>1.03E-03</u>
Total Gas Activity=	3.38E-03
I-131=	3.30E-08
I-132=	6.34E-07
I-133=	3.24E-07
I-134=	1.36E-06
I-135=	6.67E-7

* = Activity Corrected to Time of Shutdown

Sample Dose Rates:

Gas

- Undiluted 3500cc marinelli = 0.58 mR/hr on contact
0.01 R/hr at 1 meter
- Undiluted 35cc gas bulb = 0.01 mR/hr on contact,
0.01 mR/hr at 1 meter.
- Diluted 35cc gas bulb = 0.01 mR/hr on contact,
0.01 mR/hr at 1 meter.

TABLE 9-4C
Chemistry Data
Post-Accident Samples
Containment Atmosphere

Sample time: November 17, 1993 @ 10:30-15:00

<u>Nuclide</u>	<u>Activity* ($\mu\text{Ci/cc}$)</u>
Kr-85=	2.09E-01
Kr-85m=	6.78E+00
Kr-87=	1.24E+01
Kr-88=	1.82E+01
Xe-131m=	1.94E-01
Xe-133=	6.19E+01
Xe-135=	1.19E+01
Xe-135m=	<u>3.01E+00</u>
Total Gas Activity=	1.24E+02

<u>Nuclide</u>	<u>Activity* ($\mu\text{Ci/cc}$)</u>
I-131=	4.33E-02
I-132=	6.23E-02
I-133=	8.82E-02
I-134=	2.42E-02
I-135=	<u>7.96E-02</u>
Total Radioiodine Activity=	2.98E-01

Ba-140=	7.61E-02
La-140=	7.96E-02
Cs-134=	1.04E-02
Cs-137=	4.71E-03

* = Activity Corrected to Time of Shutdown

Sample Dose Rates:

Gas

- Undiluted 3500cc marinelli = 12.9 R/hr on contact
137 mR/hr at 1 meter
- Undiluted 35cc gas bulb = 306 mR/hr on contact,
1.75 mR/hr at 1 meter.
- Diluted 35cc gas bulb = 0.18 mR/hr on contact,
0.01 mR/hr at 1 meter.

TABLE 9-5A
Chemistry Data
Equilibrium Activity
Containment Sump

Sample time: November 17, 1993 @ 04:30

<u>Nuclide</u>	<u>Activity ($\mu\text{Ci/cc}$)</u>
Cr-51=	6.52E-05
Mn-54=	1.22E-05
Co-58=	1.78E-04
Co-60=	3.25E-05
Nb-95=	1.60E-05
Mo-99=	1.64E-05
Sb-124=	1.66E-05
I-131=	6.43E-04
I-133=	1.95E-04
Xe-133=	1.21E-04
Cs-134=	1.01E-04
Cs-137=	2.49E-04

Boron = 210ppm
pH = 6.8

TABLE 9-5B
Chemistry Data
Post-Accident Samples
Containment Sump

Sample time: November 17, 1993 @ 09:30-10:29

<u>Nuclide</u>	<u>Activity* (μCi/cc)</u>
Ar-41=	1.13E-03
Kr-85m=	1.40E-03
Kr-87=	1.89E-03
Kr-88=	2.30E-03
Xe-133=	7.44E-03
Xe-135=	7.07E-03
Xe-135m=	3.21E-03
Xe-138=	<u>1.07E-02</u>
Total Gas Activity=	3.51E-02

Total Degassed Activity= 5.42E-02

Total Activity= 8.93E-02

I-131=	4.19E-03
I-132=	8.06E-02
I-133=	4.13E-02
I-134=	1.73E-01
I-135=	8.48E-02

* = Activity Corrected to Time of Shutdown

Boron = 2150ppm
pH = 8.8

Sample Dose Rates:

Liquid

- Undiluted sample = 11.8 mR/hr on contact,
0.02 mR/hr at 1 meter.
- Diluted sample = 0.01 mR/hr on contact,
0.01 mR/hr at 1 meter.

TABLE 9-5C
Chemistry Data
Post-Accident Samples
Containment Sump

Sample time: November 17, 1993 @ 10:30-15:00

<u>Nuclide</u>	<u>Activity* (μCi/cc)</u>
Kr-85=	1.72E+00
Kr-85m=	5.60E+01
Kr-87=	1.02E+02
Kr-88=	1.50E+02
Xe-131m=	1.60E+00
Xe-133=	5.10E+02
Xe-133m=	7.40E+01
Xe-135=	9.80E+01
Xe-135m=	<u>1.96E+02</u>
Total Gas Activity=	1.19E+03

I-131=	4.38E+03
I-132=	6.30E+03
I-133=	8.93E+03
I-134=	2.45E+03
I-135=	8.05E+03

Ba-140=	7.70E+03
La-140=	8.05E+03
Cs-134=	1.05E+03
Cs-137=	4.76E+02

* = Activity Corrected to Time of Shutdown

Boron = 2150ppm
pH = 8.8

Sample Dose Rates:

Liquid

- Undiluted sample = 781 R/hr on contact,
1.28 R/hr at 1 meter.
- Diluted sample = 781 mR/hr on contact,
1.28 mR/hr at 1 meter.

TABLE 9-6

Continuous Air Monitors (CAMS) (Auxiliary Bldg & TSC)

Auxiliary Building Top Floor

Time	Noble Gas	Radioiodine	Particulate	Alarming?
07:00 - 09:10	50	50	50	No
09:10 - 10:00	50	50	50	No
10:00 - 10:50	100	50	50	No
10:50 - 12:50	Top of Scale	Top of Scale	Top of Scale	Yes
12:50 - 15:00	50	Top of Scale	100	Yes

Auxiliary Building Intermediate Floor

Time	Noble Gas	Radioiodine	Particulate	Alarming?
07:00 - 09:10	50	50	50	No
09:10 - 10:00	50	50	50	No
10:00 - 10:50	150	50	50	No
10:50 - 12:50	Top of Scale	Top of Scale	Top of Scale	Yes
12:50 - 15:00	50	Top of Scale	100	Yes

Auxiliary Building Basement Floor

Time	Noble Gas	Radioiodine	Particulate	Alarming?
07:00 - 09:10	50	50	50	No
09:10 - 10:00	50	50	50	No
10:00 - 10:50	300	125	70	Yes
10:50 - 12:50	Top of Scale	Top of Scale	Top of Scale	Yes
12:50 - 15:00	50	Top of Scale	100	Yes

Technical Support Center

Time	Noble Gas	Radioiodine	Particulate	Alarming?
07:00 - 09:10	50	50	50	No
09:10 - 10:00	50	50	50	No
10:00 - 10:50	50	50	50	No
10:50 - 12:50	50	50	50	No
12:50 - 15:00	50	50	50	No

TABLE 9-7

Air Sample Results in TSC and Control Room

07:30 - 15:00

Particulate Filter = 60 cpm
Iodine cartridge = 60 cpm

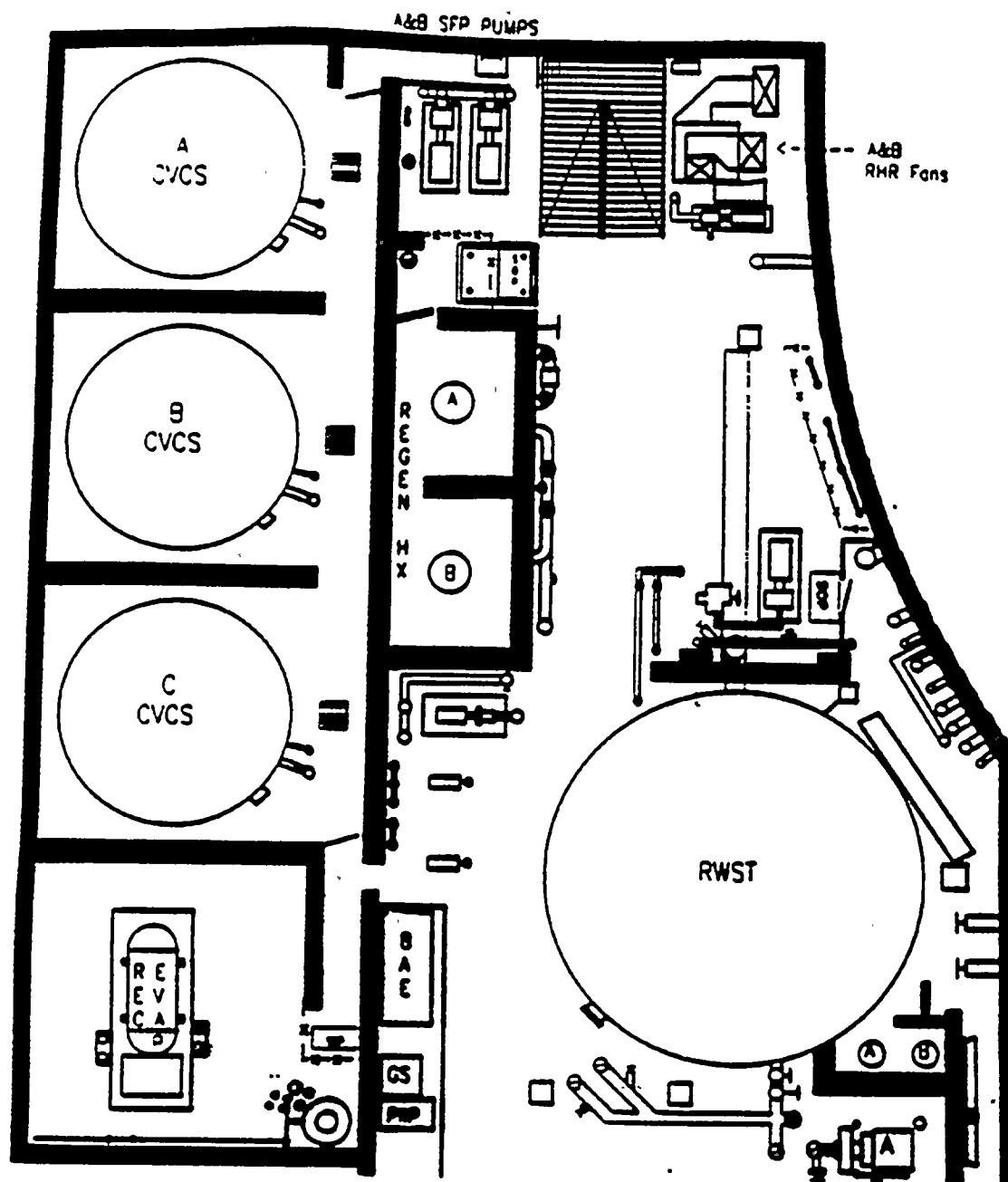
SECTION 10.0

METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst.Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

10:50-12:50

All Areas
 Radiation Levels
 62R/h
 Smears
 1,000,000dpm
 Airborne Activity
 Iodine=4E-1 uCi/cc
 Part.=3E+0 uCi/cc

⊙ = Smear Location -x-x- = Rad/Cont. Barrier
 # = Radiation Level △ = Neutron Radiation Level
 #c = Contact Reading

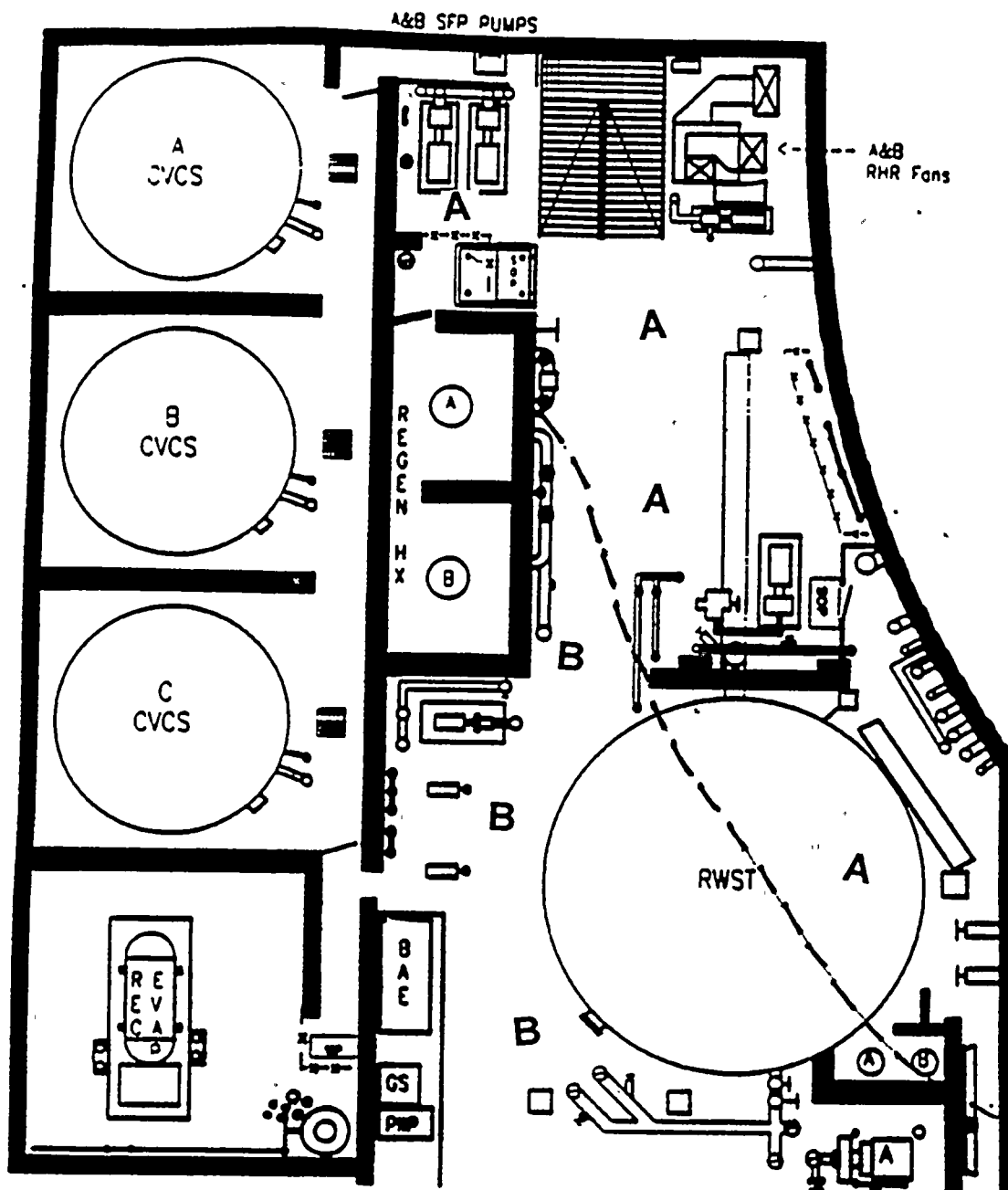
Technician Remarks: _____

• = Cont. Area
 ⊙ = High Cont. Area
 • = Radiation Area
 ⊙ = High Rad. Area
 □ = Locked High Rad. Area

R.E.GINNA STATION

Auxiliary Building Basement Level - West End

Technician: _____ Date: _____ Time: _____
 Inst. Type: _____ / _____ Serial #'s: _____ / _____ Power: _____ LLD: _____
 Note: All readings are in mr/hr unless otherwise noted.



No. dpm/100cm²

12:50-15:00

Radiation Levels

A=37mR/hr

B=17mR/hr

Smears

2,000,000dpm

Airborne Activity

Iodine=6E-7 uCi/cc

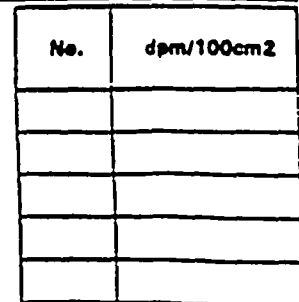
Part.=2E-6 uCi/cc

- # = Smear Location
- # = Radiation Level
- #c = Contact Reading
- x-x- = Rad/Cont. Barrier
- # = Neutron Radiation Level

Technician Remarks: _____

- = Cont. Area
- ⊙ = High Cont. Area
- = Radiation Area
- ⊙ = High Rad. Area
- = Locked High Rad. Area

East End

AUTOLAS 2.000[illegible]

- = Cont. Area
- ⊙ = High Cont. Area
- ♦ = Radiation Area
- ⊕ = High Rad. Area
- ◻ = Locked High Rad. Area

10.1 METEOROLOGICAL DATA

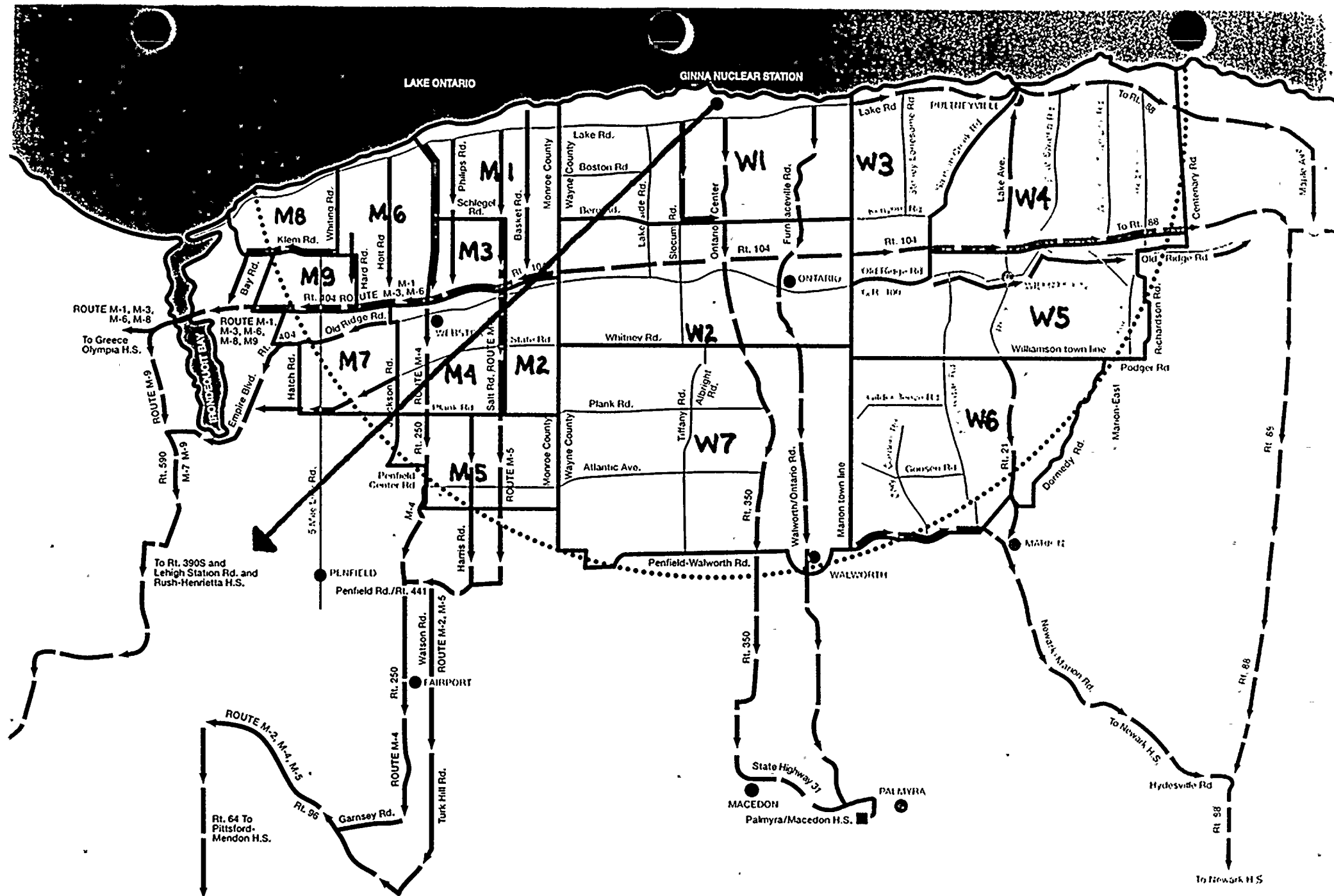


FIGURE 10.1 - DIRECTION OF THE PLUME

Meteorological ConditionsA. Basis

The meteorological conditions for this scenario were based upon historical meteorological data recorded by the Ginna primary weather tower and the National Weather Service on 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 other 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 begins with light, southerly winds which shift and become northeasterly by mid-morning.

During the period of release (10:50-12:50 hr), the average meteorological conditions are as follows:

Wind Speed = 3 mph (at 33 ft)

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

Pasquill Stability = E

TABLE 10.1

WEATHER FORECAST INFORMATION

NOVEMBER 17, 1993 07:30 AM - 3:00 PM

LAKE ONTARIO FORECAST:

TODAY: SOUTHERLY WINDS WILL BE SHIFTING NORTHEASTERLY BY MID-MORNING. TEMPERATURES ARE EXPECTED IN THE MID 40'S. WINDS WILL REMAIN FROM THE NORTHEAST AT 5 MPH THROUGHOUT THE REMAINDER OF THE AFTERNOON.

NOTE: SUPPLEMENTAL FORECAST INFORMATION TO BE PROVIDED BY NATIONAL WEATHER SERVICE CONTROLLER AT THE FOLLOWING TELEPHONE NUMBER.

(716) 328-7633

OR BY DESIGNATED NYS CONTROLLER IN ALBANY

11/17/93 07:00

RECORD NUMBER 1336

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.5	MPH	0	0.9	1.1	6.1
SPD 33B	2.9	MPH	0	1.3	0.5	6.0
SPD150A	4.4	MPH	0	1.2	0.8	6.8
SPD150B	4.8	MPH	0	1.2	3.4	8.0
SPD250	5.6	MPH	0	0.9	4.4	8.5
DIR 33A	321	DEG	0	122	264	40
DIR 33B	321	DEG	0	122	278	55
DIR150A	323	DEG	0	61	300	14
DIR150B	325	DEG	0	85	308	25
DIR250	322	DEG	0	96	320	8
TER 33A	44.4	F	0			
TER 33B	44.3	F	0			
TER150A	44.0	F	0			
TER150B	43.8	F	0			
TER250A	43.8	F	0			
TER250B	43.7	F	0			
DT150-33A	-0.6	F/	0			
DT150-33B	-0.8	F/	0			
DT250-33A	-0.6	F/	0			
DT250-33B	-0.6	F/	0			
DEWPOINT	49.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 07:15

RECORD NUMBER 1337

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.0	MPH	0	0.8	3.5	6.8
SPD 33B	4.8	MPH	0	0.9	2.8	6.7
SPD150A	6.3	MPH	0	0.6	4.0	7.4
SPD150B	7.8	MPH	0	0.6	6.3	10.2
SPD250	7.4	MPH	0	0.4	6.4	8.0
DIR 33A	320	DEG	0	8	287	328
DIR 33B	313	DEG	0	8	284	335
DIR150A	311	DEG	0	5	300	328
DIR150B	312	DEG	0	4	306	325
DIR250	322	DEG	0	4	315	333
TER 33A	44.2	F	0			
TER 33B	44.2	F	0			
TER150A	43.6	F	0			
TER150B	43.6	F	0			
TER250A	43.4	F	0			
TER250B	43.3	F	0			
DT150-33A	-0.8	F/	0			
DT150-33B	-1.1	F/	0			
DT250-33A	-0.8	F/	0			
DT250-33B	-1.2	F/	0			
DEWPOINT	49.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 07:30

RECORD NUMBER 1338

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.1	MPH	0	0.9	3.2	7.1
SPD 33B	4.7	MPH	0	1.1	2.5	7.3
SPD150A	6.2	MPH	0	0.4	4.9	7.0
SPD150B	7.6	MPH	0	0.3	7.0	8.3
SPD250	7.1	MPH	0	0.4	6.1	8.2
DIR 33A	317	DEG	0	6	280	324
DIR 33B	309	DEG	0	7	293	328
DIR150A	305	DEG	0	4	293	314
DIR150B	306	DEG	0	3	299	313
DIR250	322	DEG	0	3	314	329
TER 33A	43.8	F	0			
TER 33B	43.9	F	0			
TER150A	43.4	F	0			
TER150B	43.0	F	0			
TER250A	43.1	F	0			
TER250B	42.9	F	0			
DT150-33A	-0.8	F/	0			
DT150-33B	-1.2	F/	0			
DT250-33A	-0.7	F/	0			
DT250-33B	-1.2	F/	0			
DEWPOINT	49.6	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 07:45

RECORD NUMBER 1339

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.0	MPH	0	0.9	3.3	7.2
SPD 33B	4.7	MPH	0	1.0	2.5	6.9
SPD150A	6.1	MPH	0	0.6	4.8	7.3
SPD150B	7.3	MPH	0	0.6	5.9	9.2
SPD250	7.6	MPH	0	0.5	6.1	8.5
DIR 33A	322	DEG	0	9	281	326
DIR 33B	321	DEG	0	9	282	331
DIR150A	312	DEG	0	7	297	333
DIR150B	312	DEG	0	6	299	331
DIR250	330	DEG	0	5	319	341
TER 33A	44.0	F	0			
TER 33B	43.9	F	0			
TER150A	43.2	F	0			
TER150B	42.8	F	0			
TER250A	43.0	F	0			
TER250B	42.9	F	0			
DT150-33A	-1.2	F/	0			
DT150-33B	-1.4	F/	0			
DT250-33A	-1.0	F/	0			
DT250-33B	-1.4	F/	0			
DEWPOINT	49.4	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 08:00

RECORD NUMBER 1340

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.7	MPH	0	1.0	2.8	7.7
SPD 33B	5.3	MPH	0	1.2	2.4	7.4
SPD150A	6.9	MPH	0	1.0	4.4	9.7
SPD150B	8.1	MPH	0	0.9	5.9	10.3
SPD250	8.8	MPH	0	1.1	6.8	11.1
DIR 33A	339	DEG	0	14	286	356
DIR 33B	320	DEG	0	67	290	10
DIR150A	320	DEG	0	8	299	339
DIR150B	320	DEG	0	8	302	334
DIR250	333	DEG	0	9	309	354
TER 33A	43.5	F	0			
TER 33B	43.6	F	0			
TER150A	42.6	F	0			
TER150B	42.3	F	0			
TER250A	42.4	F	0			
TER250B	42.4	F	0			
DT150-33A	-1.2	F/	0			
DT150-33B	-1.5	F/	0			
DT250-33A	-1.1	F/	0			
DT250-33B	-1.6	F/	0			
DEWPOINT	49.2	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 08:15

RECORD NUMBER 1341

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	7.1	MPH	0	1.4	3.1	9.5
SPD 33B	6.7	MPH	0	1.5	2.0	9.3
SPD150A	8.4	MPH	0	1.2	5.7	11.3
SPD150B	9.8	MPH	0	1.2	6.9	12.9
SPD250	9.5	MPH	0	1.0	7.2	11.8
DIR 33A	321	DEG	0	25	93	344
DIR 33B	320	DEG	0	47	288	18
DIR150A	315	DEG	0	11	293	346
DIR150B	315	DEG	0	11	295	349
DIR250	327	DEG	0	13	298	358
TER 33A	42.9	F	0			
TER 33B	42.9	F	0			
TER150A	41.8	F	0			
TER150B	42.0	F	0			
TER250A	42.0	F	0			
TER250B	41.9	F	0			
DT150-33A	-1.1	F/	0			
DT150-33B	-1.4	F/	0			
DT250-33A	-0.9	F/	0			
DT250-33B	-1.4	F/	0			
DEWPOINT	48.9	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 08:30

RECORD NUMBER 1342

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	6.4	MPH	0	1.1	3.5	8.9
SPD 33B	6.1	MPH	0	1.2	2.0	8.7
SPD150A	7.3	MPH	0	1.2	4.7	10.7
SPD150B	8.5	MPH	0	1.3	6.0	12.6
SPD250	10.1	MPH	0	1.0	7.7	12.1
DIR 33A	343	DEG	0	13	285	346
DIR 33B	342	DEG	0	12	291	347
DIR150A	321	DEG	0	13	293	348
DIR150B	320	DEG	0	12	300	346
DIR250	342	DEG	0	9	320	358
TER 33A	42.6	F	0			
TER 33B	42.7	F	0			
TER150A	42.2	F	0			
TER150B	41.9	F	0			
TER250A	42.7	F	0			
TER250B	42.6	F	0			
DT150-33A	-0.8	F/	0			
DT150-33B	-1.1	F/	0			
DT250-33A	0.1	F/	0			
DT250-33B	-0.5	F/	0			
DEWPOINT	48.6	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 08:45

RECORD NUMBER 1343

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	5.7	MPH	0	1.2	2.3	9.0
SPD 33B	5.0	MPH	0	1.6	0.9	8.0
SPD150A	8.1	MPH	0	1.5	4.4	11.4
SPD150B	9.1	MPH	0	1.3	6.1	12.3
SPD250	11.5	MPH	0	1.3	8.7	13.6
DIR 33A	342	DEG	0	77	288	17
DIR 33B	336	DEG	0	98	303	18
DIR150A	341	DEG	0	10	308	358
DIR150B	340	DEG	0	37	311	1
DIR250	355	DEG	0	184	330	4
TER 33A	42.6	F	0			
TER 33B	42.7	F	0			
TER150A	42.3	F	0			
TER150B	41.9	F	0			
TER250A	42.9	F	0			
TER250B	42.7	F	0			
DT150-33A	-0.8	F/	0			
DT150-33B	-1.1	F/	0			
DT250-33A	0.3	F/	0			
DT250-33B	-0.4	F/	0			
DEWPOINT	48.4	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 09:00

RECORD NUMBER 1344

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	4.2	MPH	0	1.2	1.4	7.0
SPD 33B	3.9	MPH	0	1.4	1.1	7.4
SPD150A	8.8	MPH	0	1.2	5.7	10.7
SPD150B	9.9	MPH	0	1.2	6.6	12.0
SPD250	14.2	MPH	0	0.8	11.5	15.4
DIR 33A	346	DEG	0	68	289	36
DIR 33B	338	DEG	0	148	284	47
DIR150A	345	DEG	0	6	330	356
DIR150B	343	DEG	0	5	323	351
DIR250	1	DEG	0	192	352	7
TER 33A	43.1	F	0			
TER 33B	43.1	F	0			
TER150A	42.4	F	0			
TER150B	42.1	F	0			
TER250A	44.0	F	0			
TER250B	44.0	F	0			
DT150-33A	-1.0	F/	0			
DT150-33B	-1.3	F/	0			
DT250-33A	0.9	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	48.9	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 09:15

RECORD NUMBER 1345

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	4.2	MPH	0	1.3	3.5	9.2
SPD 33B	4.0	MPH	0	1.5	2.1	9.2
SPD150A	9.2	MPH	0	1.3	6.2	12.4
SPD150B	10.1	MPH	0	1.3	7.4	13.6
SPD250	5.3	MPH	0	1.7	2.1	10.0
DIR 33A	356	DEG	0	49	288	6
DIR 33B	344	DEG	0	69	296	8
DIR150A	340	DEG	0	8	321	359
DIR150B	338	DEG	0	37	322	0
DIR250	357	DEG	0	241	333	6
TER 33A	43.3	F	0			
TER 33B	43.4	F	0			
TER150A	43.5	F	0			
TER150B	42.3	F	0			
TER250A	43.9	F	0			
TER250B	43.9	F	0			
DT150-33A	-1.1	F/	0			
DT150-33B	-1.4	F/	0			
DT250-33A	0.6	F/	0			
DT250-33B	0.1	F/	0			
DEWPOINT	48.9	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 09:30

RECORD NUMBER 1346

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	----	----
SPD 33A	4.2	MPH	0	1.5	2.8	11.3
SPD 33B	4.3	MPH	0	1.7	2.1	10.0
SPD150A	9.5	MPH	0	1.3	6.7	11.9
SPD150B	10.5	MPH	0	1.3	7.3	12.8
SPD250	11.5	MPH	0	1.2	8.1	13.4
DIR 33A	357	DEG	0	100	305	11
DIR 33B	358	DEG	0	144	313	20
DIR150A	347	DEG	0	37	323	3
DIR150B	345	DEG	0	37	325	0
DIR250	359	DEG	0	280	332	8
TER 33A	43.3	F	0			
TER 33B	43.4	F	0			
TER150A	43.6	F	0			
TER150B	42.5	F	0			
TER250A	43.7	F	0			
TER250B	43.6	F	0			
DT150-33A	-0.9	F/	0			
DT150-33B	-1.2	F/	0			
DT250-33A	0.4	F/	0			
DT250-33B	0.1	F/	0			
DEWPOINT	49.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 09:45

RECORD NUMBER 1347

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.7	MPH	0	1.2	2.8	9.0
SPD 33B	4.3	MPH	0	1.4	2.2	8.9
SPD150A	10.4	MPH	0	1.2	7.0	12.7
SPD150B	11.2	MPH	0	1.1	7.8	12.9
SPD250	12.4	MPH	0	8	10.5	14.4
DIR 33A	8	DEG	0	173	311	33
DIR 33B	4	DEG	0	202	328	41
DIR150A	356	DEG	0	187	338	11
DIR150B	354	DEG	0	163	344	7
DIR250	9	DEG	0	3	3	14
TER 33A	43.5	F	0			
TER 33B	43.6	F	0			
TER150A	43.9	F	0			
TER150B	42.7	F	0			
TER250A	44.0	F	0			
TER250B	44.0	F	0			
DT150-33A	-1.2	F/	0			
DT150-33B	-0.9	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.9	F/	0			
DEWPOINT	49.6	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 10:00

RECORD NUMBER 1348

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.5	MPH	0	1.3	2.5	9.6
SPD 33B	3.6	MPH	0	1.4	3.2	9.4
SPD150A	6.2	MPH	0	0.9	4.8	7.1
SPD150B	6.4	MPH	0	0.8	4.8	7.1
SPD250	5.9	MPH	0	0.6	5.2	6.6
DIR 33A	17	DEG	0	257	303	32
DIR 33B	7	DEG	0	166	292	30
DIR150A	11	DEG	0	64	356	21
DIR150B	10	DEG	0	74	357	19
DIR250	19	DEG	0	4	13	27
TER 33A	43.5	F	0			
TER 33B	43.3	F	0			
TER150A	43.9	F	0			
TER150B	43.6	F	0			
TER250A	44.7	F	0			
TER250B	45.0	F	0			
DT150-33A	0.2	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	1.2	F/	0			
DT250-33B	1.7	F/	0			
DEWPOINT	50.1	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 10:15

RECORD NUMBER 1349

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.3	MPH	0	1.2	2.4	4.8
SPD 33B	3.5	MPH	0	0.9	2.7	4.5
SPD150A	3.5	MPH	0	1.0	3.0	6.4
SPD150B	3.7	MPH	0	1.0	3.3	6.6
SPD250	3.6	MPH	0	0.5	3.3	6.2
DIR 33A	24	DEG	0	257	303	32
DIR 33B	27	DEG	0	166	292	30
DIR150A	31	DEG	0	64	356	41
DIR150B	30	DEG	0	74	357	39
DIR250	29	DEG	0	4	13	37
TER 33A	43.1	F	0			
TER 33B	42.9	F	0			
TER150A	43.2	F	0			
TER150B	43.7	F	0			
TER250A	45.0	F	0			
TER250B	45.0	F	0			
DT150-33A	0.8	F/	0			
DT150-33B	0.5	F/	0			
DT250-33A	1.9	F/	0			
DT250-33B	1.6	F/	0			
DEWPOINT	50.2	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 10:30

RECORD NUMBER 1350

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	----	----
SPD 33A	3.0	MPH	0	1.2	2.7	5.2
SPD 33B	3.0	MPH	0	1.1	2.5	4.7
SPD150A	3.0	MPH	0	0.6	2.7	6.6
SPD150B	3.2	MPH	0	0.4	2.7	6.8
SPD250	3.2	MPH	0	0.6	2.7	7.0
DIR 33A	41	DEG	0	90	355	51
DIR 33B	42	DEG	0	36	358	52
DIR150A	40	DEG	0	5	15	51
DIR150B	42	DEG	0	4	23	51
DIR250	40	DEG	0	4	31	50
TER 33A	42.8	F	0			
TER 33B	42.6	F	0			
TER150A	43.2	F	0			
TER150B	43.8	F	0			
TER250A	43.3	F	0			
TER250B	43.1	F	0			
DT150-33A	0.3	F/	0			
DT150-33B	0.3	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	50.4	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 10:45

RECORD NUMBER 1351

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.0	MPH	0	0.7	2.7	4.7
SPD 33B	3.0	MPH	0	0.7	2.7	4.6
SPD150A	3.5	MPH	0	0.7	3.0	6.1
SPD150B	3.6	MPH	0	0.7	2.7	6.3
SPD250	3.9	MPH	0	0.4	3.1	6.0
DIR 33A	39	DEG	0	10	27	50
DIR 33B	40	DEG	0	3	19	48
DIR150A	41	DEG	0	3	22	52
DIR150B	42	DEG	0	3	26	51
DIR250	43	DEG	0	3	37	49
TER 33A	42.6	F	0			
TER 33B	42.6	F	0			
TER150A	42.8	F	0			
TER150B	42.7	F	0			
TER250A	43.1	F	0			
TER250B	43.0	F	0			
DT150-33A	0.3	F/	0			
DT150-33B	0.3	F/	0			
DT250-33A	0.5	F/	0			
DT250-33B	0.5	F/	0			
DEWPOINT	50.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 11:00

RECORD NUMBER 1352

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.0	MPH	0	0.5	2.3	4.5
SPD 33B	3.0	MPH	0	0.4	2.2	4.6
SPD150A	3.0	MPH	0	0.6	2.0	6.1
SPD150B	3.1	MPH	0	0.4	2.8	6.2
SPD250	3.3	MPH	0	0.3	2.9	5.6
DIR 33A	38	DEG	0	3	8	47
DIR 33B	39	DEG	0	3	23	49
DIR150A	39	DEG	0	3	20	53
DIR150B	41	DEG	0	1	27	54
DIR250	38	DEG	0	2	33	41
TER 33A	42.9	F	0			
TER 33B	42.8	F	0			
TER150A	42.8	F	0			
TER150B	42.5	F	0			
TER250A	44.0	F	0			
TER250B	43.8	F	0			
DT150-33A	0.7	F/	0			
DT150-33B	0.7	F/	0			
DT250-33A	1.1	F/	0			
DT250-33B	1.1	F/	0			
DEWPOINT	50.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 11:15

RECORD NUMBER 1353

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.1	MPH	0	1.0	2.5	4.7
SPD 33B	2.9	MPH	0	0.7	2.6	4.3
SPD150A	3.1	MPH	0	0.4	2.6	5.7
SPD150B	3.2	MPH	0	0.5	2.7	5.7
SPD250	3.1	MPH	0	0.4	2.7	4.7
DIR 33A	44	DEG	0	37	359	52
DIR 33B	45	DEG	0	3	12	51
DIR150A	42	DEG	0	12	31	46
DIR150B	38	DEG	0	5	30	48
DIR250	43	DEG	0	6	31	53
TER 33A	43.2	F	0			
TER 33B	42.8	F	0			
TER150A	43.1	F	0			
TER150B	43.2	F	0			
TER250A	44.0	F	0			
TER250B	43.8	F	0			
DT150-33A	0.4	F/	0			
DT150-33B	0.4	F/	0			
DT250-33A	0.8	F/	0			
DT250-33B	0.8	F/	0			
DEWPOINT	50.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 11:30

RECORD NUMBER 1354

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.0	MPH	0	1.0	1.7	4.0
SPD 33B	2.9	MPH	0	1.0	1.8	3.6
SPD150A	3.5	MPH	0	0.8	2.6	5.2
SPD150B	3.6	MPH	0	0.7	2.0	5.2
SPD250	3.4	MPH	0	1.5	3.2	5.5
DIR 33A	38	DEG	0	36	356	49
DIR 33B	39	DEG	0	4	2	48
DIR150A	39	DEG	0	4	37	58
DIR150B	42	DEG	0	3	34	58
DIR250	38	DEG	0	5	28	66
TER 33A	43.1	F	0			
TER 33B	43.2	F	0			
TER150A	42.9	F	0			
TER150B	42.8	F	0			
TER250A	43.8	F	0			
TER250B	43.8	F	0			
DT150-33A	0.3	F/	0			
DT150-33B	0.3	F/	0			
DT250-33A	0.7	F/	0			
DT250-33B	0.7	F/	0			
DEWPOINT	50.5	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 11:45

RECORD NUMBER 1355

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	----	----
SPD 33A	3.1	MPH	0	0.6	2.3	5.5
SPD 33B	2.8	MPH	0	0.5	1.5	4.9
SPD150A	2.7	MPH	0	0.6	1.5	8.1
SPD150B	3.0	MPH	0	0.6	2.8	8.3
SPD250	2.6	MPH	0	0.5	1.6	8.0
DIR 33A	37	DEG	0	71	341	46
DIR 33B	38	DEG	0	36	358	47
DIR150A	51	DEG	0	5	39	63
DIR150B	53	DEG	0	4	44	60
DIR250	65	DEG	0	2	59	69
TER 33A	43.6	F	0			
TER 33B	43.4	F	0			
TER150A	44.0	F	0			
TER150B	44.1	F	0			
TER250A	44.9	F	0			
TER250B	44.9	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.6	F/	0			
DT250-33A	1.3	F/	0			
DT250-33B	1.2	F/	0			
DEWPOINT	50.9	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 12:00

RECORD NUMBER 1356

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.1	MPH	0	0.5	2.2	4.7
SPD 33B	3.1	MPH	0	0.5	1.7	4.0
SPD150A	3.2	MPH	0	0.5	2.0	6.4
SPD150B	3.4	MPH	0	0.5	2.1	6.8
SPD250	3.3	MPH	0	0.6	2.1	6.5
DIR 33A	35	DEG	0	101	324	48
DIR 33B	35	DEG	0	36	353	46
DIR150A	54	DEG	0	5	42	66
DIR150B	54	DEG	0	4	45	61
DIR250	67	DEG	0	2	62	71
TER 33A	43.9	F	0			
TER 33B	43.6	F	0			
TER150A	44.3	F	0			
TER150B	43.9	F	0			
TER250A	45.2	F	0			
TER250B	45.8	F	0			
DT150-33A	0.8	F/	0			
DT150-33B	0.7	F/	0			
DT250-33A	1.3	F/	0			
DT250-33B	1.4	F/	0			
DEWPOINT	51.6	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 12:15

RECORD NUMBER 1357

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.3	MPH	0	0.6	1.9	4.5
SPD 33B	2.9	MPH	0	0.6	1.5	3.9
SPD150A	2.7	MPH	0	0.9	2.3	6.4
SPD150B	3.0	MPH	0	0.6	2.6	6.5
SPD250	3.3	MPH	0	0.5	2.0	5.7
DIR 33A	43	DEG	0	11	0	51
DIR 33B	42	DEG	0	10	13	57
DIR150A	64	DEG	0	6	45	78
DIR150B	64	DEG	0	7	43	77
DIR250	67	DEG	0	3	61	75
TER 33A	44.2	F	0			
TER 33B	44.0	F	0			
TER150A	44.9	F	0			
TER150B	44.4	F	0			
TER250A	45.2	F	0			
TER250B	45.7	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.7	F/	0			
DT250-33A	1.0	F/	0			
DT250-33B	1.1	F/	0			
DEWPOINT	51.8	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 12:30

RECORD NUMBER 1358

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.3	MPH	0	0.6	1.5	4.5
SPD 33B	2.9	MPH	0	0.6	1.3	4.0
SPD150A	3.8	MPH	0	0.8	1.6	6.1
SPD150B	3.4	MPH	0	0.3	3.9	7.0
SPD250	2.8	MPH	0	0.5	1.7	4.5
DIR 33A	43	DEG	0	14	4	85
DIR 33B	48	DEG	0	12	7	72
DIR150A	45	DEG	0	4	33	79
DIR150B	44	DEG	0	2	35	77
DIR250	45	DEG	0	2	39	81
TER 33A	44.6	F	0			
TER 33B	44.6	F	0			
TER150A	45.3	F	0			
TER150B	45.7	F	0			
TER250A	45.5	F	0			
TER250B	45.5	F	0			
DT150-33A	0.5	F/	0			
DT150-33B	0.6	F/	0			
DT250-33A	0.9	F/	0			
DT250-33B	1.0	F/	0			
DEWPOINT	52.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 12:45

RECORD NUMBER 1359

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	-----	-----	---	---
SPD 33A	3.2	MPH	0	0.6	2.2	5.5
SPD 33B	3.0	MPH	0	0.6	2.7	5.0
SPD150A	3.1	MPH	0	1.1	2.3	7.1
SPD150B	4.7	MPH	0	0.5	3.6	7.8
SPD250	4.0	MPH	0	0.5	2.9	5.0
DIR 33A	39	DEG	0	7	9	58
DIR 33B	37	DEG	0	7	22	68
DIR150A	40	DEG	0	6	34	81
DIR150B	38	DEG	0	4	32	76
DIR250	44	DEG	0	4	36	82
TER 33A	44.1	F	0			
TER 33B	44.2	F	0			
TER150A	44.4	F	0			
TER150B	44.4	F	0			
TER250A	45.3	F	0			
TER250B	45.2	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.6	F/	0			
DT250-33A	1.2	F/	0			
DT250-33B	1.2	F/	0			
DEWPOINT	51.9	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 13:00

RECORD NUMBER 1360

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.2	MPH	0	0.4	1.9	4.0
SPD 33B	2.7	MPH	0	0.4	1.7	4.0
SPD150A	3.6	MPH	0	0.8	1.7	5.7
SPD150B	3.7	MPH	0	0.6	2.9	6.8
SPD250	3.0	MPH	0	1.2	2.7	6.5
DIR 33A	40	DEG	0	51	357	65
DIR 33B	37	DEG	0	12	8	62
DIR150A	78	DEG	0	9	60	92
DIR150B	78	DEG	0	9	61	91
DIR250	81	DEG	0	6	71	90
TER 33A	44.8	F	0			
TER 33B	44.9	F	0			
TER150A	45.5	F	0			
TER150B	45.5	F	0			
TER250A	45.7	F	0			
TER250B	45.7	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.5	F/	0			
DT250-33A	0.9	F/	0			
DT250-33B	1.0	F/	0			
DEWPOINT	52.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 13:15

RECORD NUMBER 1361

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.3	MPH	0	0.5	2.0	6.4
SPD 33B	3.0	MPH	0	0.5	1.3	6.2
SPD150A	3.1	MPH	0	0.7	1.9	5.6
SPD150B	3.2	MPH	0	0.8	2.1	7.3
SPD250	3.8	MPH	0	0.5	1.6	6.2
DIR 33A	35	DEG	0	51	359	46
DIR 33B	32	DEG	0	35	354	50
DIR150A	81	DEG	0	3	69	87
DIR150B	80	DEG	0	3	69	85
DIR250	77	DEG	0	3	72	86
TER 33A	45.4	F	0			
TER 33B	45.4	F	0			
TER150A	45.3	F	0			
TER150B	45.4	F	0			
TER250A	46.1	F	0			
TER250B	46.2	F	0			
DT150-33A	0.4	F/	0			
DT150-33B	0.5	F/	0			
DT250-33A	0.7	F/	0			
DT250-33B	0.8	F/	0			
DEWPOINT	51.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 13:30

RECORD NUMBER 1362

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.0	MPH	0	0.6	2.1	6.9
SPD 33B	3.6	MPH	0	0.6	2.5	6.2
SPD150A	3.3	MPH	0	0.8	2.9	7.2
SPD150B	3.2	MPH	0	0.6	4.5	7.0
SPD250	3.2	MPH	0	0.7	2.2	6.9
DIR 33A	44	DEG	0	11	22	75
DIR 33B	51	DEG	0	10	24	74
DIR150A	78	DEG	0	4	65	85
DIR150B	76	DEG	0	4	68	83
DIR250	68	DEG	0	9	47	80
TER 33A	46.1	F	0			
TER 33B	46.1	F	0			
TER150A	46.5	F	0			
TER150B	46.8	F	0			
TER250A	47.1	F	0			
TER250B	47.2	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.4	F/	0			
DT250-33A	1.0	F/	0			
DT250-33B	1.0	F/	0			
DEWPOINT	52.2	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 13:45

RECORD NUMBER 1363

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	2.7	MPH	0	0.4	2.2	5.7
SPD 33B	3.3	MPH	0	0.5	1.4	5.3
SPD150A	3.4	MPH	0	0.7	1.6	5.9
SPD150B	2.9	MPH	0	0.7	2.3	5.3
SPD250	3.2	MPH	0	0.6	1.9	5.1
DIR 33A	41	DEG	0	10	5	65
DIR 33B	39	DEG	0	9	17	73
DIR150A	74	DEG	0	6	55	87
DIR150B	72	DEG	0	6	58	87
DIR250	71	DEG	0	6	51	81
TER 33A	46.1	F	0			
TER 33B	46.1	F	0			
TER150A	46.0	F	0			
TER150B	46.2	F	0			
TER250A	47.2	F	0			
TER250B	47.3	F	0			
DT150-33A	0.6	F/	0			
DT150-33B	0.6	F/	0			
DT250-33A	1.1	F/	0			
DT250-33B	1.0	F/	0			
DEWPOINT	52.4	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 14:00

RECORD NUMBER 1364

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	2.8	MPH	0	0.4	3.0	5.2
SPD 33B	3.4	MPH	0	0.4	2.1	5.5
SPD150A	2.8	MPH	0	0.7	2.0	5.2
SPD150B	2.9	MPH	0	0.6	2.6	5.1
SPD250	3.1	MPH	0	0.4	2.1	5.1
DIR 33A	40	DEG	0	8	10	64
DIR 33B	38	DEG	0	9	23	75
DIR150A	66	DEG	0	8	44	81
DIR150B	66	DEG	0	7	49	79
DIR250	66	DEG	0	3	60	77
TER 33A	46.3	F	0			
TER 33B	46.4	F	0			
TER150A	46.4	F	0			
TER150B	46.4	F	0			
TER250A	47.4	F	0			
TER250B	47.5	F	0			
DT150-33A	0.4	F/	0			
DT150-33B	0.5	F/	0			
DT250-33A	1.1	F/	0			
DT250-33B	1.0	F/	0			
DEWPOINT	52.3	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 14:15

RECORD NUMBER 1365

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.2	MPH	0	0.3	2.1	5.9
SPD 33B	2.9	MPH	0	0.3	2.0	5.7
SPD150A	3.4	MPH	0	0.5	2.0	5.0
SPD150B	2.6	MPH	0	0.2	3.7	5.2
SPD250	2.6	MPH	0	0.6	1.5	5.8
DIR 33A	41	DEG	0	11	20	72
DIR 33B	49	DEG	0	11	29	78
DIR150A	75	DEG	0	7	54	85
DIR150B	74	DEG	0	7	55	81
DIR250	76	DEG	0	5	67	82
TER 33A	46.9	F	0			
TER 33B	46.8	F	0			
TER150A	47.1	F	0			
TER150B	47.3	F	0			
TER250A	47.9	F	0			
TER250B	48.0	F	0			
DT150-33A	0.3	F/	0			
DT150-33B	0.4	F/	0			
DT250-33A	1.0	F/	0			
DT250-33B	1.1	F/	0			
DEWPOINT	52.7	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 14:30

RECORD NUMBER 1366

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	2.8	MPH	0	0.4	3.0	5.9
SPD 33B	3.4	MPH	0	0.4	2.6	5.3
SPD150A	3.4	MPH	0	0.8	1.4	5.0
SPD150B	8.9	MPH	0	0.2	4.5	5.5
SPD250	2.7	MPH	0	0.4	1.6	5.4
DIR 33A	39	DEG	0	7	24	58
DIR 33B	47	DEG	0	7	32	65
DIR150A	74	DEG	0	4	64	82
DIR150B	73	DEG	0	4	65	79
DIR250	71	DEG	0	3	65	78
TER 33A	47.0	F	0			
TER 33B	46.9	F	0			
TER150A	47.6	F	0			
TER150B	47.8	F	0			
TER250A	48.1	F	0			
TER250B	48.1	F	0			
DT150-33A	0.4	F/	0			
DT150-33B	0.3	F/	0			
DT250-33A	1.1	F/	0			
DT250-33B	1.1	F/	0			
DEWPOINT	53.5	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 14:45

RECORD NUMBER 1367

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.0	MPH	0	0.4	3.0	5.8
SPD 33B	2.6	MPH	0	0.4	2.8	5.4
SPD150A	3.5	MPH	0	0.8	1.5	5.9
SPD150B	2.8	MPH	0	0.3	4.4	5.4
SPD250	2.9	MPH	0	0.4	1.9	5.6
DIR 33A	39	DEG	0	7	24	58
DIR 33B	47	DEG	0	7	32	65
DIR150A	74	DEG	0	4	64	82
DIR150B	73	DEG	0	4	65	79
DIR250	71	DEG	0	3	65	78
TER 33A	48.5	F	0			
TER 33B	48.4	F	0			
TER150A	49.1	F	0			
TER150B	49.1	F	0			
TER250A	48.6	F	0			
TER250B	48.6	F	0			
DT150-33A	0.0	F/	0			
DT150-33B	0.0	F/	0			
DT250-33A	0.1	F/	0			
DT250-33B	0.2	F/	0			
DEWPOINT	53.5	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

11/17/93 15:00

RECORD NUMBER 1368

GINNA PLANT

SENSOR NAME	AVERAGE	UNIT	CODE	STDDEV	MIN	MAX
-----	-----	-----	----	-----	---	---
SPD 33A	3.5	MPH	0	0.7	2.5	5.5
SPD 33B	3.6	MPH	0	0.7	2.4	5.0
SPD150A	3.6	MPH	0	0.6	2.0	5.0
SPD150B	3.1	MPH	0	0.6	4.0	5.9
SPD250	3.3	MPH	0	0.4	1.7	5.5
DIR 33A	64	DEG	0	7	47	78
DIR 33B	70	DEG	0	5	58	82
DIR150A	80	DEG	0	2	70	85
DIR150B	78	DEG	0	2	71	82
DIR250	75	DEG	0	3	70	82
TER 33A	48.5	F	0			
TER 33B	48.0	F	0			
TER150A	49.1	F	0			
TER150B	48.2	F	0			
TER250A	48.6	F	0			
TER250B	48.6	F	0			
DT150-33A	0.3	F/	0			
DT150-33B	0.3	F/	0			
DT250-33A	0.0	F/	0			
DT250-33B	0.4	F/	0			
DEWPOINT	52.1	F	0			
RAIN	0.00	INCH	0	1.02	1.02	0.00

10.2 FIELD TEAM DATA

TABLE 10.2

Plume Arrival & Departure Times

<u>Distance (miles)</u>	<u>Arrival</u>	<u>Departure</u>
0.5	11:00	13:00
1.0	11:20	13:20
2.0	11:40	13:40
3.0	12:00	14:00
4.0	12:20	14:20
5.0	12:40	14:40
6.0	13:00	15:00
7.0	13:20	15:20
8.0	13:40	15:40
9.0	14:00	16:00
10.0	14:20	16:20
11.0	14:40	16:40
12.0	15:00	17:00

NOTES:

* After indicated arrival time, refer to offsite radiological data shown on Table 10.3 as appropriate for 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

1. The first part of the document is a list of names and addresses, which are arranged in a columnar format. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses.

2. The second part of the document is a list of names and addresses, which are arranged in a columnar format. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses.

3. The third part of the document is a list of names and addresses, which are arranged in a columnar format. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses. The list is organized into three main sections, each separated by a horizontal line. The first section contains names and addresses, the second section contains names and addresses, and the third section contains names and addresses.

TABLE 10.3
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	4.8E+03	4.8E+03	7.1E+03	7.1E+03	1.2E+03	6.1E+03	7.6E+02
B	2.2E+03	2.2E+03	3.3E+03	3.3E+03	5.6E+02	2.6E+03	3.6E+02
C	1.0E+03	1.0E+03	1.5E+03	1.5E+03	2.5E+02	1.2E+03	1.8E+02
D	4.7E+02	4.7E+02	6.9E+02	6.9E+02	1.2E+02	5.8E+02	1.1E+02
E	2.9E+02	2.9E+02	4.3E+02	4.3E+02	7.2E+01	3.7E+02	8.1E+01
F	1.9E+02	1.9E+02	2.8E+02	2.8E+02	4.7E+01	2.6E+02	6.7E+01
G	1.2E+02	1.2E+02	1.8E+02	1.8E+02	3.0E+01	1.8E+02	5.7E+01
H	8.6E+01	8.6E+01	1.3E+02	1.3E+02	2.2E+01	1.4E+02	5.2E+01
I	6.8E+01	6.8E+01	1.0E+02	1.0E+02	1.7E+01	1.2E+02	5.0E+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 180 liters (30 lpm for 6 minutes), and field reading is with HP-260.



TABLE 10.3
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	4.8E+03	4.8E+03	7.1E+03	7.1E+03	1.2E+03	9.6E+03	1.2E+03
B	2.2E+03	2.2E+03	3.3E+03	3.3E+03	5.6E+02	4.1E+03	5.5E+02
C	1.0E+03	1.0E+03	1.5E+03	1.5E+03	2.5E+02	1.9E+03	2.7E+02
D	4.7E+02	4.7E+02	6.9E+02	6.9E+02	1.2E+02	8.9E+02	1.5E+02
E	2.9E+02	2.9E+02	4.3E+02	4.3E+02	7.2E+01	5.6E+02	1.1E+02
F	1.9E+02	1.9E+02	2.8E+02	2.8E+02	4.7E+01	3.8E+02	8.3E+01
G	1.2E+02	1.2E+02	1.8E+02	1.8E+02	3.0E+01	2.6E+02	6.7E+01
H	8.6E+01	8.6E+01	1.3E+02	1.3E+02	2.2E+01	2.0E+02	6.0E+01
I	6.8E+01	6.8E+01	1.0E+02	1.0E+02	1.7E+01	1.6E+02	5.6E+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 10 cubic feet and field reading is with HP-260.

[illegible][illegible]

2000年12月29日
 星期五
 第10000号

TABLE 10.4

POST-PLUME RADIOLOGICAL SURVEY/SAMPLING DATA
(FOR END WINDOW AND PANCAKE PROBES)

POST-PLUME DECAY TIME =

1.0 HOURS

ZONE	END WINDOW PROBE (CPM)		PANCAKE PROBE (CPM)	
	1 METER	1 CM	1 METER	1 CM
A	2.3E+03	3.3E+04	3.8E+03	5.0E+04
B	1.1E+03	1.5E+04	1.8E+03	3.9E+04
C	4.9E+02	6.9E+03	8.0E+02	1.7E+04
D	2.3E+02	3.2E+03	3.7E+02	8.1E+03
E	1.4E+02	2.0E+03	2.3E+02	5.0E+03
F	9.2E+01	1.3E+03	1.5E+02	3.3E+03
G	5.9E+01	8.3E+02	9.6E+01	2.1E+03
H	4.2E+01	6.0E+02	6.9E+01	1.5E+03
I	3.3E+01	4.7E+02	5.5E+01	1.2E+03

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TABLE 10.5

GAMMA MICRO-R/HR READINGS
DUE TO GROUND DEPOSITION

POST-PLUME DECAY TIME =

1.0 HOURS

ZONE	@1 METER	@1 CM
	MICRO-R/HR	MICRO-R/HR
A	1.1E+03	1.8E+03
B	5.0E+02	8.5E+02
C	2.2E+02	3.8E+02
D	1.0E+02	1.8E+02
E	6.4E+01	1.1E+02
F	4.2E+01	7.1E+01
G	2.7E+01	4.6E+01
H	1.9E+01	3.3E+01
I	1.5E+01	2.6E+01

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ROAD BETWEEN CHURCHES

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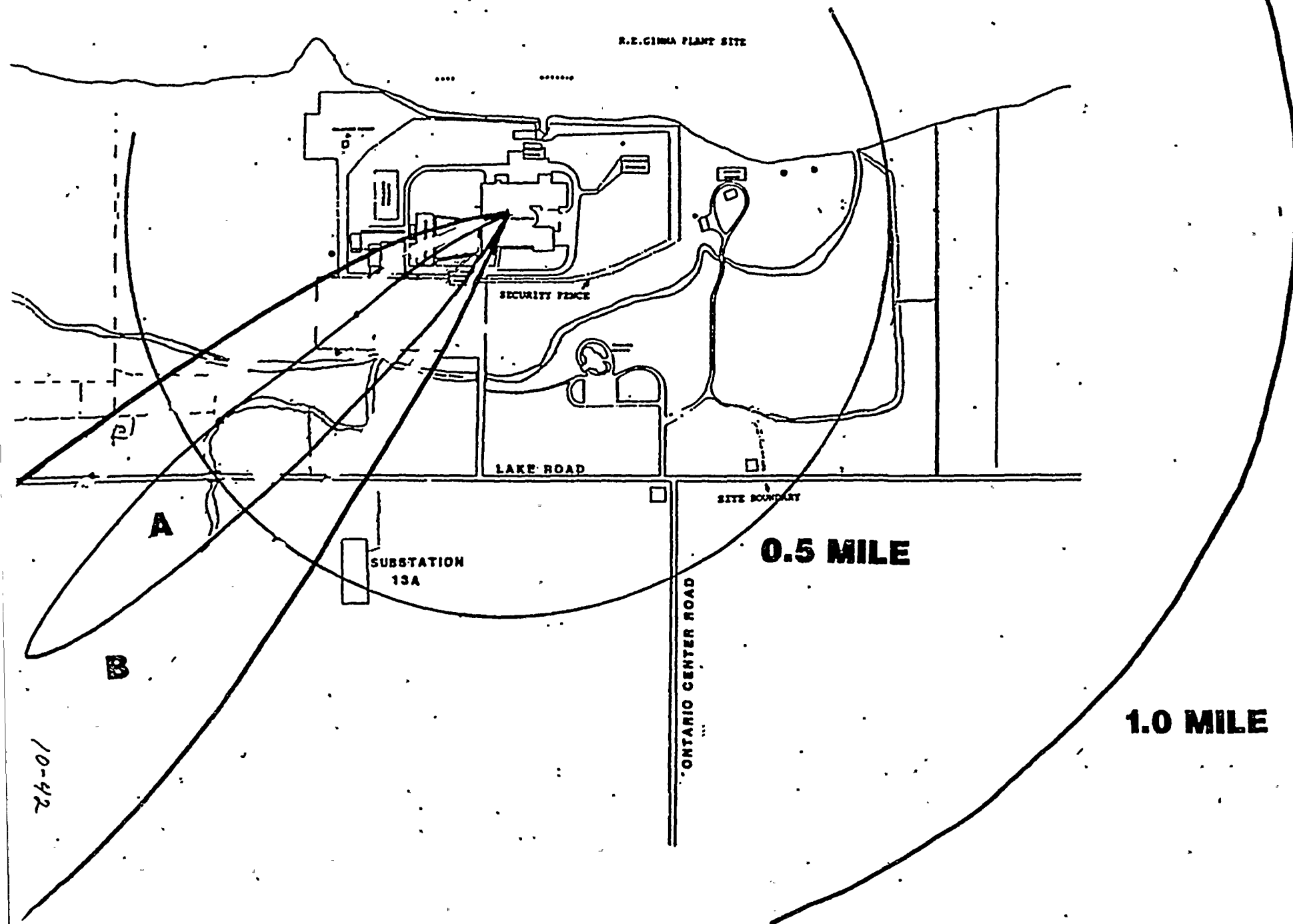
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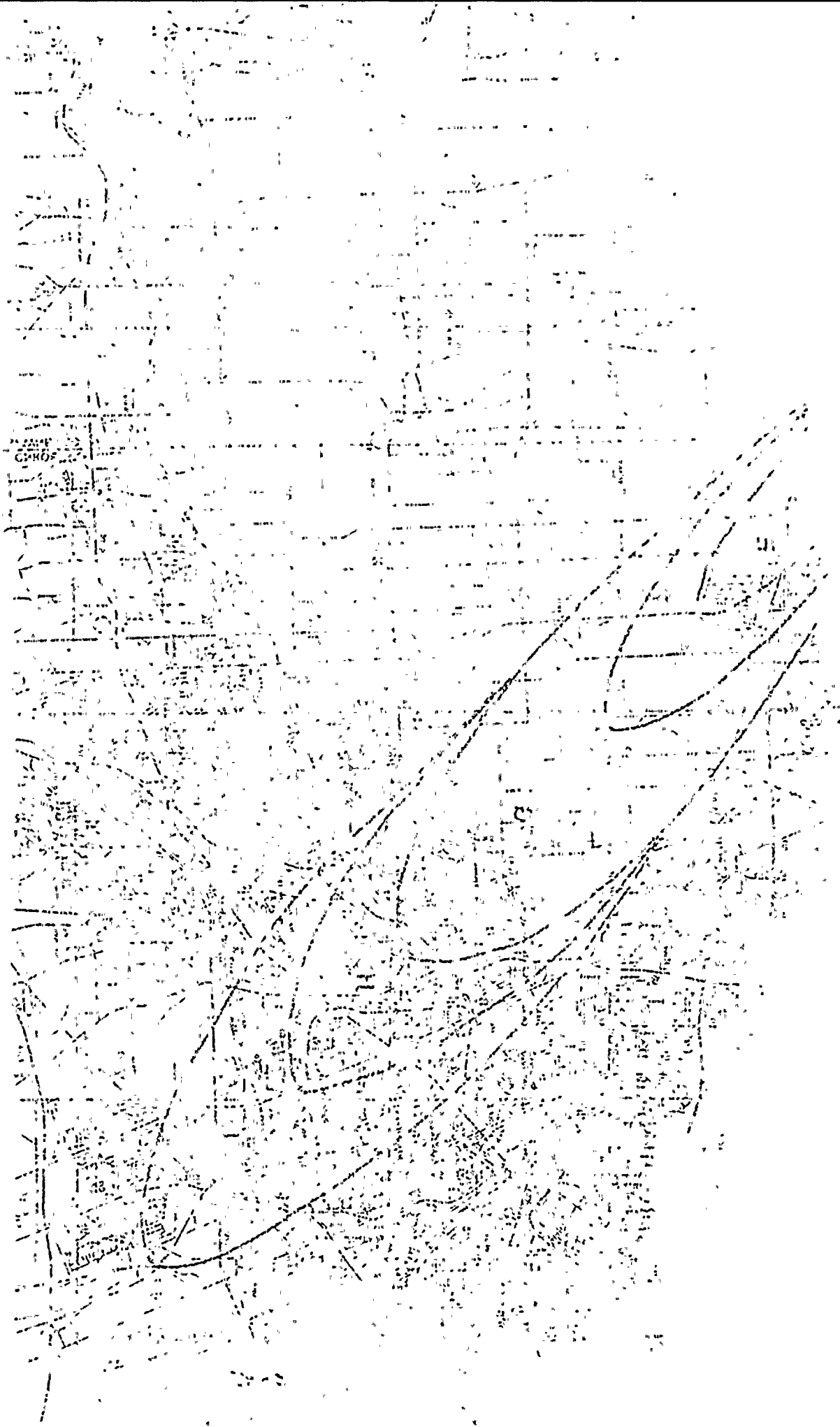
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FIGURE 10.2
PLUME MAP (0-1 MILE)





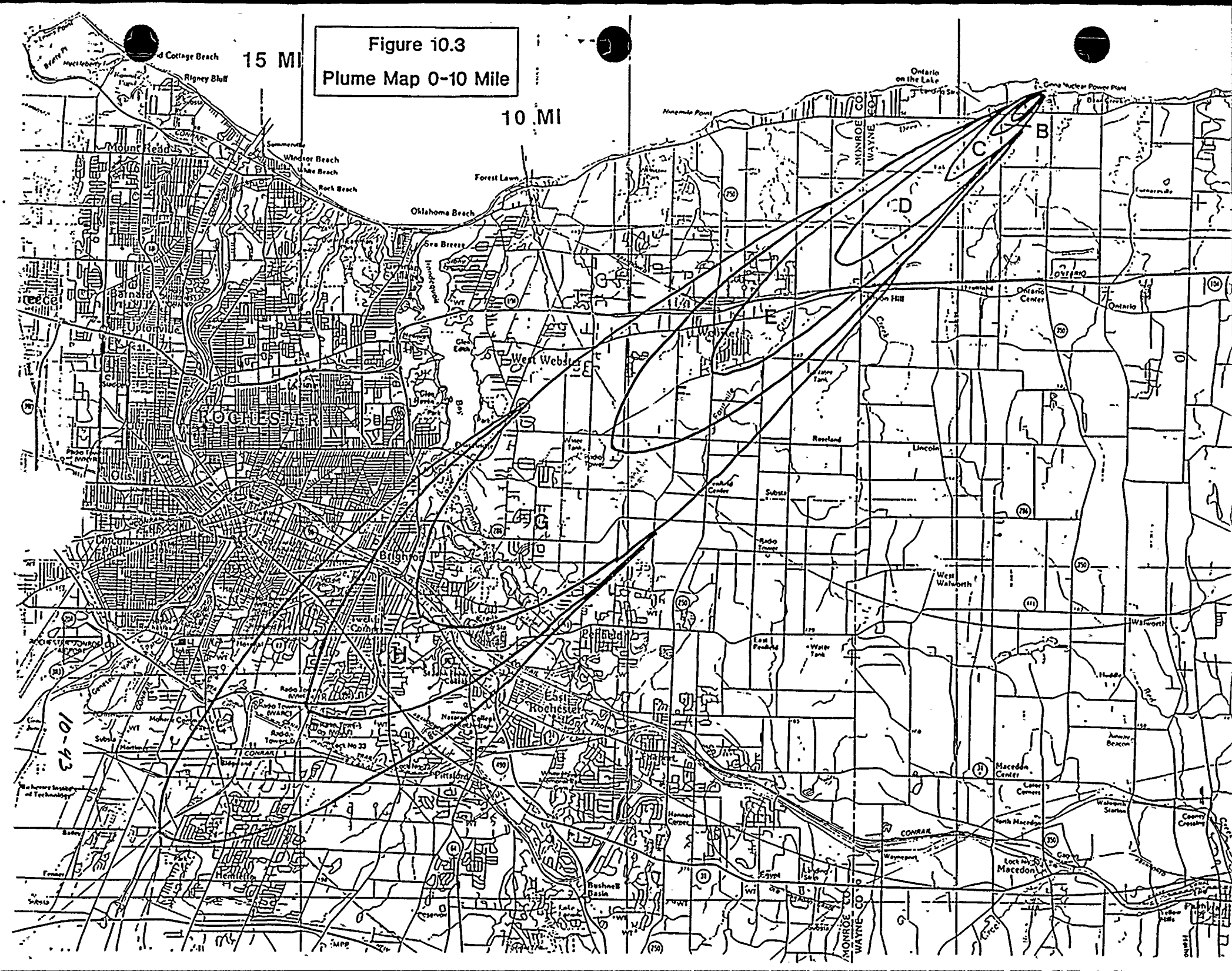
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Figure 10.3
Plume Map 0-10 Mile



TO 3 AIR SAMPLING DATA

10.3 AIR SAMPLING DATA

COUNTY TAMS - 10 CUBIC FT. SAMPLE
 SAMPLE COLLECTION DURING FLAME PHASE

RADIOIODINE ISOTOPIC ACTIVITY
 SILVER ZEOLITE (CARTRIDGE)

TABLE 10 B 5

1-132	1-133	1-134	1-135
CONC	CONC	CONC	CONC
6.30E-02	6.00E-02	6.00E-02	6.40E-02
5.70E-02	5.00E-02	5.00E-02	5.30E-02
5.10E-02	4.50E-02	4.50E-02	4.80E-02
4.50E-02	4.00E-02	4.00E-02	4.30E-02
3.90E-02	3.50E-02	3.50E-02	3.80E-02
3.30E-02	3.00E-02	3.00E-02	3.20E-02
2.70E-02	2.50E-02	2.50E-02	2.60E-02
2.10E-02	2.00E-02	2.00E-02	2.00E-02
1.50E-02	1.50E-02	1.50E-02	1.50E-02
9.00E-03	9.00E-03	9.00E-03	9.00E-03
3.00E-03	3.00E-03	3.00E-03	3.00E-03
0.00E-03	0.00E-03	0.00E-03	0.00E-03

1-132	1-133	1-134	1-135
CONC	CONC	CONC	CONC
6.30E-02	6.00E-02	6.00E-02	6.40E-02
5.70E-02	5.00E-02	5.00E-02	5.30E-02
5.10E-02	4.50E-02	4.50E-02	4.80E-02
4.50E-02	4.00E-02	4.00E-02	4.30E-02
3.90E-02	3.50E-02	3.50E-02	3.80E-02
3.30E-02	3.00E-02	3.00E-02	3.20E-02
2.70E-02	2.50E-02	2.50E-02	2.60E-02
2.10E-02	2.00E-02	2.00E-02	2.00E-02
1.50E-02	1.50E-02	1.50E-02	1.50E-02
9.00E-03	9.00E-03	9.00E-03	9.00E-03
3.00E-03	3.00E-03	3.00E-03	3.00E-03
0.00E-03	0.00E-03	0.00E-03	0.00E-03

TABLE 10.6-A

AIR PARTICULATE FILTER
ISOTOPIC ACTIVITY

SAMPLE COLLECTION DURING PLUME PHAS
COUNTY TEAMS - 10 CUBIC FT SAMPLE

ZONE	I-131	I-133	I-135	CS-134	CS-137	BA-140	LA-140
	UCI/CC	UCI/CC	UCI/CC	UCI/CC	UCI/CC	UCI/CC	UCI/CC
A	2.23E-09	4.45E-09	4.03E-09	5.34E-10	2.45E-10	1.25E-11	1.25E-11
B	9.90E-10	1.98E-09	1.79E-09	2.38E-10	1.09E-10	5.54E-12	5.54E-12
C	4.43E-10	8.85E-10	8.01E-10	1.06E-10	4.87E-11	2.48E-12	2.48E-12
D	2.07E-10	4.13E-10	3.74E-10	4.96E-11	2.27E-11	1.16E-12	1.16E-12
E	1.27E-10	2.54E-10	2.30E-10	3.05E-11	1.40E-11	7.12E-13	7.12E-13
F	8.35E-11	1.67E-10	1.51E-10	2.00E-11	9.18E-12	4.68E-13	4.68E-13
G	5.33E-11	1.07E-10	9.65E-11	1.28E-11	5.86E-12	2.98E-13	2.98E-13
H	3.83E-11	7.66E-11	6.93E-11	9.19E-12	4.21E-12	2.14E-13	2.14E-13
I	3.02E-11	6.04E-11	5.47E-11	7.25E-12	3.32E-12	1.69E-13	1.69E-13

TABLE 10.6-B

SILVER ZEOLITE CARTRIDGE
RADIOIODINE ISOTOPIC ACTIVITY

SAMPLE COLLECTION DURING PLUME PHAS
COUNTY TEAMS - 10 CUBIC FT SAMPLE

ZONE	I-131	I-132	I-133	I-134	I-135
	UCI/CC	UCI/CC	UCI/CC	UCI/CC	UCI/CC
A	2.23E-07	3.21E-07	4.45E-07	0.00E+00	4.03E-07
B	9.90E-08	1.43E-07	1.98E-07	0.00E+00	1.79E-07
C	4.43E-08	6.37E-08	8.85E-08	0.00E+00	8.01E-08
D	2.07E-08	2.98E-08	4.13E-08	0.00E+00	3.74E-08
E	1.27E-08	1.83E-08	2.54E-08	0.00E+00	2.30E-08
F	8.35E-09	1.20E-08	1.67E-08	0.00E+00	1.51E-08
G	5.33E-09	7.67E-09	1.07E-08	0.00E+00	9.65E-09
H	3.83E-09	5.51E-09	7.66E-09	0.00E+00	6.93E-09
I	3.02E-09	4.35E-09	6.04E-09	0.00E+00	5.47E-09

