ROCHESTER GAS AND ELECTRIC

1987 GINNA STATION PLUME EXPOSURE AND INGESTION PATHWAY EXERCISE WEEK OF OCTOBER 25

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PART I

GENERAL INFORMATION

THE ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

EMERGENCY PREPAREDNESS EXERCISE MANUAL

1987 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

AND

ADDENDUM FOR NEW YORK STATE INGESTION PATHWAY EXERCISE

OCTOBER 1987

Prepared by:

Rochester Gas and Electric Corporation

CONTROLLED COPY NO. _____

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

1987 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

AND

ADDENDUM FOR THE NEW YORK STATE INGESTION PATHWAY EXERCISE

FOREWORD

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

The Rochester Gas and Electric Corporation and the State of New York approve this document as the standard for conduct in performance of the October 1987, unannounced, off-hours Plume Exposure Emergency Preparedness Exercise, and also the Addendum which will be used to conduct the subsequent New York State Ingestion Pathway Exercise.

THE ROCHESTER GAS AND ELECTRIC CORPORATION, GINNA STATION

1987 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE AND THE NEW YORK STATE INGESTION PATHWAY EXERCISE

INTRODUCTION

PLUME EXPOSURE EXERCISE

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

The purpose of the Plume Exposure Emergency Preparedness Exercise is to activate and evaluate major portions of the emergency response capabilities and other aspects of the Emergency Plan and associated Emergency Plan Implementing Procedures, in accordance with Nuclear Regulatory Commission (NRC) Regulation 10CFR50.47(b) and Appendix E. This Exercise will be with the participation of 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.

INGESTION PATHWAY EXERCISE

The New York State Ingestion Pathway Emergency Response Plan describes the emergency response capabilities and responsibilities for a radiological emergency affecting the State, including support from Federal, State, and local government agencies and private organizations. The State Ingestion Pathway Emergency Response Plan provides for continuous emergency preparedness, including a Federally-evaluated exercise to be conducted at a minimum 6-year frequency.

The purpose of the Exercise is to activate and evaluate major portions of the emergency response capabilities and other aspects of the New York State Ingestion Pathway Emergency Response Plan and associated Implementing Procedures, in accordance with Nuclear Regulatory Commission (NRC) Regulation - 10CFR50.47(b) and Appendix E, NUREG-0654 and Federal Emergency Management Agency (FEMA) Draft Guidance Memorandum IN-1. This exercise will be with the participation of State of New York, selected counties within a 50-mile radius of the R.E. Ginna Nuclear Power Plant, the Department of Energy and the Rochester Gas and Electric Corporation in order to assess overall State emergency capabilities in response to a postulated event affecting the Ingestion Pathway.

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 Addendum will contain information for the subsequent New York State Ingestion Pathway Exercise. The Exercise Manual is subject to a limited, controlled distribution.

1987 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

AND

INGESTION PATHWAY EXERCISE

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1987 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

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SECTION 1.0

SCOPE AND OBJECTIVES

1.0 SCOPE AND ON-SITE OBJECTIVES - PLUME EXPOSURE PATHWAY

1.1 Scope

The 1987 Full Scale Emergency Preparedness Plume Exposure Pathway Exercise, to be conducted in October during off hours and unannounced, will simulate accident events culminating in a radiological accident with resultant off-site releases from the Ginna Station (GS), located in Ontario, Wayne County, New York. The Exercise will involve events that test the effectiveness of the Ginna Station Emergency Preparedness Program and the integrated capabilities of the emergency organizations of the State of New York, and the Counties of Wayne and Monroe. The Exercise will include the limited mobilization of state and local resources adequate to verify their capability to respond to an accident.

In addition to evaluating on-site activities, the U.S. Nuclear Regulatory Commission will participate in the Exercise co-locating personnel in the various licensee Emergency Response Facilities. The Federal Emergency Management Agency will evaluate off-site activities.

The exercise objectives are provided as separate sections, divided into the objectives for the Plant (Section 1.2) and those of each state/local agency (Section 1.3). A summary of proposed activities is delineated in Section 1.4, following the attachments.

1.2 Preliminary On-Site Objectives for the 1987 Ginna Evaluated Plume Exposure Pathway Exercise

The major objective of the exercise is to demonstrate the response capabilities of the Rochester Gas and Electric Emergency Response Organization. Within this overall objective, numerous individual objectives are specified as follows:

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

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

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

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

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

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

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

1.2.8 Demonstrate the 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 appropriate equipment and procedures for the collection of environmental samples.

1.2.10 Demonstrate the ability to project dosage to the public via plume exposure, based on plant and field data, and to determine appropriate protective measures, based on Protective Action Guidelines, available shelter, evacuation time estimates, expected release duration, and other appropriate factors.

1.2.11 Demonstrate the ability to notify off-site officials and agencies within 15 minutes of declaration of an emergency.

1.2.12 Demonstrate the ability to periodically update off-site officials and agencies of the status of the emergency based on data available at GS.

1.2.13 Demonstrate the ability to notify emergency support pools as appropriate (i.e., INPO, ANI, etc.).

1.2.14 Demonstrate the ability to notify on-site personnel using plant alarms and public address systems.

1.2.15 Demonstrate the ability to effectively assess incident conditions and to properly classify the incident.

1.2.16 Demonstrate the organizational ability and resources necessary to manage an accountability of personnel within the protected area.

1.2.17 Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of protected area personnel.

1.2.18 Demonstrate the organizational ability and resources necessary to control access to the site.

1.2.19 Demonstrate the ability to continuously monitor and control emergency workers' exposure.

1.2.20 Demonstrate the adequacy of facilities and displays to support the Joint Emergency News Center Operations.

1.2.21 Demonstrate the ability to brief the media in a clear, accurate, and timely manner.

1.2.22 Demonstrate the ability to provide advance coordination of information released to the public.

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

1.2.24 Demonstrate the adequacy of in-plant post-accident sampling techniques and analysis.

1.2.25 Demonstrate the ability to develop proposed short term and long term actions to support plant recovery.

1.2.26 Demonstrate the adequacy of Fire-Fighting practices and procedures.

1.2.27 Demonstrate the adequacy of corrective measures taken to remedy the areas identified for improvement at the conclusion of previous exercise (Inspection No.50-244/-86-13).

1.3 Summary of Proposed Activities

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

TABLE 1.1

1987 GINNA STATION EMERGENCY PREPAREDNESS EXERCISE (PLUME EXPOSURE) PROPOSED ONSITE ACTIVITIES

	RG&E
Notification of Agencies	Actual
Call up of Personnel	Actual
Activate Organization	Actual
Maintain Security	Actual
Conduct Dose Assessment	Actual
PAG Recommendation	Actual
Operate Joint News Center	Actual
EPZ Siren Activation	N/A
Route Alerting	N/A
EBS Message Broadcast	N/A
Dispatch Field Survey Teams	Actual-5
Exchange of Field Data	Actual
Reception Center Setup	N/A
Congregate Care Center	N/A
School Bus Run	N/A
General Population	N/A
Traffic Control Points	N/A
Road Impediments	N/A
Coast Guard (notify only)	N/A
Mobility Impaired	N/A

TABLE 1.1 (Cont'd)

Simulations

- Respiratory protection and protective clothing will be simulated by onsite/offsite survey teams. Inplant teams will don such protection at the Controller's discretion.
- Call out of offsite fire companies will be simulated.
- Acceleragraph film retrieval and development will be simulated. Notification of offsite film processor will be made.

2.0 SCOPE AND ON-SITE OBJECTIVES - INGESTION PATHWAY

2.1 In addition to the Plume Exposure Pathway Exercise, an Ingestion Pathway Exercise will be conducted during normal working hours on the second day following the Plume Exposure Pathway Exercise.

New York State Radiological Emergency Preparedness Group will have the lead in coordinating the activation of local, State, and Federal agencies as appropriate to demonstrate the effectiveness of the New York State Emergency Preparedness Program.

All such activities will be evaluated by the Federal Emergency Management Agency.

2.2 Preliminary On-Site Objectives (EOF)

2.2.1 Demonstrate ability to deploy and coordinate environmental sampling teams (0-10 miles). Teams will be simulated.

2.2.2 Demonstrate ability to evaluate laboratory data and/or field measurements and provide appropriate PAR'S and interface to New York State.

2.2.3 Provide interface with New York State Post-Accident Assessment and in Public Information functions as needed.

3.0 OFFSITE OBJECTIVES AND PROPOSED ACTIVITIES

3.1 The off-site agencies' objectives and Proposed Activities are found as follows:

Agency	Attachment
State of New York	A
Monroe County	A
Wayne County	A

The off-site exercise objectives are written in reference to the FEMA Example Exercise Objectives.

3.2 Summary of Proposed Activities

Attachment A also lists a summary of proposed activities for the 1987 Ginna Emergency Preparedness Exercise. The listing describes, by organization, if an activity is to actually be accomplished or is to be simulated. A blank space denotes that the activity does not apply that particular agency.

ATTACHMENT A

STATE OF NEW YORK

MONROE COUNTY AND WAYNE COUNTY

FINAL OBJECTIVES

OCTOBER, 1987

PROPOSED EXERCISE OBJECTIVES FOR
THE 1987 GINNA EXERCISE
Rev. 8/26/87

New York State

State Emergency Operations Center (SEOC)

SEOC -1 (CO -5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field support.

Guidelines: State, counties and the utility should establish appropriate communication links. Systems include RECS line, executive hot-line and commercial lines, RACES, radios and telefax. The RECS line will be used as the primary system to receive information from the licensee. Also, the ability to receive and verify the initial and follow-up emergency notification from the licensee will be observed. (No simulated failures are to be evaluated. Back-up systems are to be used in the event of actual failure of the primary systems.

SEOC -2 (CO -1) Demonstrate the ability to mobilize staff and activate the State EOC in a timely manner.

Guidelines: Proper use of call-up procedures, and timely arrival of staff and setting up of EOC.

SEOC -3 (CO -4) Demonstrate the adequacy of facilities and displays to support emergency operations.

Guidelines: Ensure measures are in place to control access to EOC areas; identification badges are verified; ingress and egress logs are maintained. Messages are transmitted in an accurate and timely manner, messages are to be properly logged, status boards are accurately maintained and updated, appropriate briefings are held and incoming personnel are briefed. Sufficient equipment (e.g., furniture, space, lighting, telephones and status boards) should be available.

SEOC -4 (CO -3) Demonstrate the ability to make decisions and to coordinate emergency activities.

Guidelines: Individual acting in command & control for decision making must be clearly in charge, taking into account all critical parameter (e.g., evacuation time estimates, available resources, met data, etc.).

SEOC -5 (CO -2) Demonstrate the ability to fully staff facilities and maintain staffing around the clock.

Guidelines: An actual shift change involving all key staff must be observed. The shift change must show 24 hour coverage. Agencies that have demonstrated 24 hour coverage in previous exercises will be given credit for meeting this objective.

SEOC -6 (CO -32) Demonstrate the ability to identify the need for, request and obtain Federal assistance.

Guidelines: This issue will be evaluated as a command and control function. The decision maker will be asked about the circumstance under which he would request Federal assistance.

SEOC -7 (CO -10) Demonstrate the ability to project dosage to the public via the plume exposure, based on plant and field data, and to determine appropriate protective actions based on PAG's, available shelter, evacuation time estimates, and all other appropriate factors.

Guidelines: Dose assessment and accident evaluation personnel will provide recommendations to the decision maker based upon utility recommendations, independent recommendations from accident assessment group and off-site factors. Command and control will make decision based on inputs from the various sources. all factors will be carefully analyzed before a decision is made.

SEOC -8 (CO -25) Demonstrate the ability to provide advance coordination of information released.

Guidelines: Coordinate among NYS and 2 counties for the decision to simulate the activation of the sirens and the subsequent activation of the EBS.

SEOC -9 (CO -22) Demonstrate the ability to supply and administer KI, if the decision has been made to do so.

Guidelines: The decision making process for KI will discussed after the release occurs. In the event the scenario does not yield a significant iodine release that warrants KI usage, emergency workers should know who will direct them to take KI.

SEOC ING -1 (CO -3) Demonstrate the ability to make decisions and to coordinate emergency activities within the ingestion pathway exposure emergency planning zone.

Guidelines: Command and control decisions based on inputs from various sources. all factors will be carefully analyzed before a decision is made.

SEOC ING -2 (CO -5) Demonstrate the ability to communicate with all appropriate locations, organizations,and field personnel; special emphasis will be on communications between field monitoring and sampling teams and their control points.

Guidelines: Communications include radio, telefax and commercial lines.

SEOC ING -3 (CO -11) Demonstrate the ability to project dosage to the public via ingestion pathway exposure, based on utility and field data and to determine appropriate protective actions, based on the PAG's and other relevant factors

Guidelines: Dose assessment and accident evaluation personnel will provide these recommendations to decision makers

SEOC ING -4 (CO -12) Demonstrate the ability to implement preventive and emergency protective actions for the ingestion exposure pathway hazards.

Guidelines: Command and Control will analyze situation including staff input and issue a decision to the respective agencies for implementation.

SEOC ING -5 (CO-6) Demonstrate the ability to mobilize and deploy sample collection teams in an timely fashion.

Guidelines: 5 State ingestion team members will be notified during the inhalation portion of the exercise and then pre-positioned at one of the appropriate SEMO district office at the beginning of the ingestion phase. Equipment checkout, team briefings and the current status and dispatching to field monitoring sample points will be conducted.

The 5 teams will actually be deployed in the 50 mile EPZ. Dose assessment will be done solely with State input. Other State agency teams may simulate activity. Brookhaven National Laboratory/DOE will assist per the Federal Monitoring and Assessment Plan.

SEOC ING -6 Demonstrate appropriate equipment and procedures for laboratory measurement and analysis of approporiate radioisotope deposition in food and environmental samples.

Guidelines: Selected field samples will be delivered to the DOH labs, Albany. The lab techniques will not be evaluated. Data for the samples will be provided by a controller to the appropriate exercise participants. Upon arrival at the lab, sorting, diluting and labeling of samples, procedures for preventing laboratory contamination and cross contamination and some sample preparation will be evaluated. Laboratory analytical capabilities will be documented by the NRC and provided to FEMA.

SEOC ING-7 (CO-34) Demonstrate the ability to estimate total population exposure.

Guidelines: The methodology and consultative processes used to determine total population exposure will be evaluated. Actual calculations for determining population exposures will not be evaluated.

SEOC ING-8 JNC-1 (CO-14) Demonstrate the ability to formulate and distribute appropriate instructions to the public in a timely manner.

Guideline: The only portion of information that will be operational will be the State function responsible for the distribution of information to the public. This objective will be demonstrated out of the SEOC for the purpose of this exercise. No rumor control, media response nor issuance of EBS will be evaluated, however, the capability for these will be observed.

Western District Emergency Operating Center (WDEOC)

WDEOC-1 (CO-1) Demonstrate the ability to mobilize staff and activate the WDEOC in a timely manner.

Guideline: Proper use of the call-up procedures and timely arrival of staff and setting-up of EOC.

WDEOC-2 (CO -4) Demonstrate the adequacy of facilities and displays to support emergency operations.

Guidelines: Ensure measures are in place to control access to EOC areas; identification badges are verified; ingress and egress logs are maintained. Messages are transmitted in an accurate and timely manner, messages are properly logged, status boards are accurately maintained and updated, appropriate briefings are held and incoming personnel are briefed. Sufficient equipment (e.g.,furniture, space, lighting, telephones and status boards) should be available.

WDEOC-3 (CO-3) Demonstrate the ability to make decisions and to coordinate emergency activities.

Guideline: Individual acting in & control for assisiting in implementing State EOC activities must be in charge.

WDEOC-4 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel.

Guideline: Communications include RECS line, and commercial lines. (Note: No simulated failures are to be evaluated. Back-up systems are to be used in the event actual failure of the primary system).

WDEOC-5 (CO-2) Demonstrate the ability to fully staff facilities and maintain staffing around the clock.

Guideline: Same as SEOC-5, (CO-2).

Lake District Emergency Operating Center LDEOC

LDEOC-1 (CO-1) Demonstrate the ability to mobilize staff and activate the LDEOC in a timely manner.

Guideline: Proper use of the call-up procedures and timely arrival of staff and setting-up of EOC.

LDEOC-2 (CO-4) Demonstrate the adequacy of facilities and displays to support emergency operations.

Guidelines: Ensure measures are in place to control access to EOC areas; identification badges are verified; ingress and egress logs are maintained. Messages are transmitted in an accurate and timely manner, messages are properly logged, status boards are accurately maintained and updated, appropriate briefings are held and incoming personnel are briefed. Sufficient equipment (e.g., furniture, space, lighting, telephones and status boards) should be available.

LDEOC-3 (CO-3) Demonstrate the ability to make decisions and to coordinate emergency activities.

Guideline: See WDEOC-3, (CO-4).

LDEOC-4 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel.

Guideline: Communications include RECS line, executive command line, and commercial lines. (Note: No simulated failures are to be evaluated. Back-up systems are to be used in the event of actual failure of primary systems). If appropriate, capability for receiving field measurement data from sampling teams will be evaluated.

LDEOC ING-2 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.

Guideline: Communication with field sampling team will be by use of radio.

LDEOC-5 / ING -5 / (CO -6) Demonstrate the ability to mobilize and deploy sample collection teams in a timely fashion.

Guidelines: 5 State ingestion team members will be notified and pre-positioned at the district office. Equipment checkout, team briefing and the current status and dispatching to field monitoring sample points will be conducted.

LDEOC-6 (CO-2) Demonstrate the ability to fully staff facilities and maintain staffing around the clock.

Guideline: Same as SEOC -5, (CO-2)

LDFA-1 (CO-9) ING Demonstrate appropriate equipment including personal dosimetry and procedures for the collection and transport of samples of soils, vegetation, snow, water and milk.

Guideline: Selected samples will be delivered to DOH lab, Albany, from the area of potential impact. protective clothing will not be worn for the duration of the ingestion pathway exercise. supplies of protective clothing, including hand and foot covering can be worn for evaluation, then removed.

Emergency Operating Facility (EOF)

EOF-1 (CO-1) Demonstrate the ability to mobilize staff and activate State functions at the EOF in a timely manner.

Guideline: The State representative will not be pre-positioned. State representative will demonstrate an appropriate arrival time, at the Alert ECL. Local State EOF repesentative will activate in accordance with procedures.

EOF-2 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel.

Guideline: Communications include RECS line, RACES, radios, telefax, and commercial lines. (Note: No simulated failures are to be evaluated. Back-up systems are to be used in the event of actual failure of the primary systems). Commercial telephone lines will be the primary system

EOF-3 (CO-4) Demonstrate the adequacy of facilities and displays to support emergency operations

Guidelines: Same as SEOC -3, (CO-4).

EOF-4 (CO-2) Demonstrate the ability to fully staff facilities and and maintain staffing around the clock.

Guideline: 24 hour capability will be shown by roster.

Monroe County

Emergency Operating Center (EOC)

MEOC-1 (CO_5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel.

Guidelines: Communications include RECS line, executive command line, Races, radios,telefax and commercial lines. The RECS line will be used to receive information from the licensee. The commercial telephone will be used as a backup. The County will also communicate with the U.S. Coast Guard and the Ontario-Midland Railroad.(Note: no simulated failures are to be evaluated).

MEOC-2 (CO-1) Demonstrate the ability to mobilize staff and activate facilities promptly.

Guidelines: Proper use of call-up procedures, and timely arrival of staff and setting up of the EOC. Albany based staff will arrive at the Alert ECL.

MEOC-3 (CO-4) Demonstrate the adequacy of facilities and displays to support emergency operations

Guidelines: Ensure measures are in place to control access to EOC areas; identification badges are verified; ingress and egress logs are maintained. Messages are transmitted in an accurate and timely manner,messages are properly logged, status boards are accurately maintained and updated, appropriate briefings are held and incoming personnel are briefed. Sufficient equipment (e.g., furniture, space, lighting, telephones and status boards) should be available.

MEOC-4 (CO-3) Demonstrate the ability to make decisions and to coordinate emergency activities.

Guidelines: Individual acting in command and control for decision making must be clearly in charge taking into account all critical parameters (e.g., evacuation time estimates, available resources, met data, etc.).

MEOC-5 (CO-2) Demonstrate the ability to fully staff the facility and maintain staffing around the clock.

Guideline: 24 hour capability can be shown by roster

MEOC-6 (CO-10) Demonstrate the ability to project radiation dosage to the public via plume exposure, based on plant data and and field data, and to determine appropriate protective measures, based on PAGs available shelter, evacuation time estimates,and other appropriate factors.

Guideline: Dose assessment and accident evaluation personnel will provide these recommendations to decision makers.

MEOC-7 (CO-13) Demonstrate the ability to alert the public within the 10-mile EPZ, and disseminate an instructional message, within 15 minutes.

Guidelines: Coordination of public alerting and the prompt alert notification system with Wayne County and New York State. The EBS will be activated and each County will simulate activation of the sirens.

MEOC-8 (CO-15) Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the 10 mile EPZ.

Guideline: Command and Control will analyze the situation including staff input and issue a decision to the respective agencies for implementation.

MEOC-9 (CO-16) Demonstrate the organizational ability to deal with impediments to evacuation, such as inclement weather or traffic obstruction. Resources will actually be deployed.

Guideline: Command and Control will analyze situation including staff input and issue a decision to the respective agencies for implementation.

MEOC-10 (CO-17) Demonstrate the organizational ability necessary to control access to an evacuated area.

Guideline: No resources will be deployed.

MEOC-11 (CO-32) Demonstrate the ability to identify the need for, request and obtain State assistance(if warranted).

Guideline: This ability will be demonstrated if the County should determine that this ac tion is necessary.

FIELD ACTIVITY

MCFA-1 (CO-20) Demonstrate the ability to continuously monitor and control emergency worker exposure

Guidelines: Emergency workers should have high range and low range dosimeters, TLD's, know reporting exposure limits to supervisors and the proper use of dosimeters. Emergency workers are knowledgeable on procedures and systems for obtaining permission to exceed limits as defined by respective county plans. This guideline will also include State emergency workers.

MCFA-2 (CO-6) Demonstrate the ability to mobilize and deploy field monitoring teams in a timely manner.

Guideline: Proper use of the call out system, equipment checkout, team briefing on current status and dispatching to radiological field monitoring sample points.

MCFA-3 (CO-7) Demonstrate appropriate equipment and procedures for determining ambient radiation levels.

Guidelines: Teams members shall set-up and operate the instruments correctly including recording of data and reporting of data to the EOC.

MCFA-4 (CO-8) Demonstrate appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10-7 uCi/CC in the presence of noble gas.

Guidelines: Teams shall set-up equipment and collect an air sample, read the sample and record the data, and transmit the data to the EOC.

MCFA-5 (CO-13) Demonstrate the ability to provide backup public alerting procedures, If necessary, in the event of partial siren system failure.

Guidelines: This activity is to simulated. The police will be notified but not deployed. Dioscussion will take place at the EOC

MCFA-6 (CO-14) Demonstrate that information on emergency actions has has been provided to permanent and transient population within the 10 mile EPZ.

Guidelines: Brochure distribution documentation from NYS to FEMA will meet this objective. Additionally, the annual certification will serve to verify that information has been distributed.

MCFA-7 (CO-17) Demonstrate the organizational ability and resources necessary to estasblish a traffic control point.

Guidelines: Traffic control point will be set up and observed.

MCFA-8 (CO-21) Demonstrate the ability to supply and administer KI, if the decision has been made to do so.

Guidelines: The decision making process for KI usage will be discussed after the release occurs. Emergency workers should know who will direct them to take KI.

MCFA-9 (CO-15) Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the plume EPZ.

Guidelines: Messages will be inserted at the County EOC to the Command and Control. Information will be passed to the appropriate agency for action and dispatching of one (1) bus run.

MCFA-10 (CO-16) Demonstrate a sample of resources necessary to deal with impediments to evacuation, as inclement weather or traffic obstruction.

Guidelines: Appropriate resources are dispatched to scene.

MCFA-11 (CO-27) Demonstrate the adequacy of procedures for registration and radiological monitoring of evacuees over a 24 hour period.

Guidelines: Within a twelve (12) hour period, there should be enough personnel and equipment capable of monitoring all residents and transients in the plume exposure EPZ arriving at the reception center. A center not utilized in previous exercises should be used for this exercise. This will be set up out of sequence with the exercise.

MCFA-12 (CO-28) Demonstrate the adequacy of facilities for mass care of evacuees.

Guidelines: At least three ARC staff will arrive and function as shelter managers, registrar and staff members. Once the ARC is told how many people to expect, they should have access to personnel to cover the initial 24 hour operation, explain support agreement and have floor plans for set up of the center. This will be set up out of sequence with the exercise.

MCFA-13 Demonstrate adequate procedure and equipment for disposal of contaminated waste (e.g., clothing).

MCFA-14 (CO-19) Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of schoos within the plume EPZ.

Observer will go to the bus garage, contact dispatcher, ride bus (van) to the school and then to school reception center. Bus drivers knowledge of dosimetry will be observed.

Wayne County

Emergency Operating Center (EOC)

WEOC-1 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations, and field personnel.

Guidelines: See MEOC-1, (CO-5)

WEOC-2 (CO-1) Demonstrate the ability to mobilize staff and activate facilities promptly.

Guidelines: See MEOC-2, (CO-1)

WEOC-3 (CO-4) Demonstrate the adequacy of facilities and displays to support emergency operations.

Guidelines: See MEOC-3, (CO-4)

WEOC-4 (CO-3) Demonstrate the ability to make decisions and to coordinate emergency activities.

Guidelines: See MEOC-4, (CO-3)

WEOC-5 (CO-2) Demonstrate the ability to fully staff the facility and maintain staffing around the clock.

Guideline: See MEOC-5, (CO-2)

WEOC-6 (CO-10) Demonstrate the ability to project radiation dosage to the public via the plume exposure, based on plant data and field data, and to determine appropriate protective measures, based on PAGs, available shelter, evacuation time estimates, and other appropriate factors.

Guideline: See MEOC-6, (CO-10)

WEOC-7 (CO-13 Demonstrate the ability to alert the public within the 10-mile EPZ , and disseminate an instructional message within 15 minutes.

Guideline: Coordination of the public alerting and the prompt alert notification system with Monroe County and New York State. The EBS will be activated and each County will simulate activation of the sirens.

WEOC-8 (CO-15) Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the 10-mile EPZ.

Guideline: See MEOC-8, (CO-15)

WEOC-9 (CO-16) Demonstrate the organizational ability to deal with impediments to evacuation, such as inclement weather or traffic obstruction.

Guideline: This activity will be simulated.

WEOC-10 (CO-17) Demonstrate the organizational ability necessary to control access to an evacuated area.

Guideline: See WEOC-9

WEOC-11 (CO-32) Demonstrate the ability to identify the need for, request and obtain State assistance (if warranted).

Guideline: See MEOC-12, (CO-32)

WEOC-12 (CO-23) Demonstrate the ability to effect an orderly evacuation of onsite personnel.

Guidelines: Coordination with NFO of evacuees, per the plan, is to be observed.

FIELD ACTIVITY

WCFA-1 (CO-20) Demonstrate the ability to continuously monitor and control emergency worker exposure.

Guidelines: See MCFA-1, (CO-20)

WCFA-2 (CO-6) Demonstrate the ability to mobilize and deploy field monitoring teams in a timely manner.

Guidelines: See MCFA-2, (CO-6)

WCFA-3 (CO-7) Demonstrate appropriate equipment and procedures for determining ambient radiation levels.

Guidelines: See MCFA-3,(CO-7)

WCFA-4 (CO-8) Demonstrate appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as 10-7 uCi/CC in the presence of noble gas.

Guidelines: See MCFA-4,(CO-8)

WCFA-5 (CO-13) Demonstrate the ability to provide backup public alerting procedures, if necessary, in the event of a partial siren system failure.

Guideline: The route alert drivers; members of the Ontario Fire Department, will be interviewed at their point of deployment about route alerting procedures. Updated maps will be observed, adequacy of the number of vehicles and also knowledge of KI procedures and exposure control will be ascertained.

WCFA-6 (CO-14) Demonstrate the ability to formulate and distribute appropriate instructions to the public in a timely fashion.

Guidelines: See MCFA-6, (CO-14)

WCFA-7 (CO-17) Demonstrate the organizational ability and resources necessary to control access to an evacuated area.

Guidelines: This is to be simulated.

WCFA-8 (CO-21) Demonstrate the ability to supply and administer KI, if the decision has been made to do so.

Guideline: See MCFA-8, (CO-21)

WCFA-9 (CO-15) Demonstrate the organizational ability and resources necessary to manage an orderly evacuation of all or part of the plume EPZ.

Guideline: See MCFA-9, (CO-15)

WCFA-10 (CO-16) Demonstrate a sample of resources necessary to deal with impediments to evacuation, as inclement weather or traffic obstruction.

Guideline: This activity will be simulated.

WCFA-11 (CO-27) Demonstrate the adequacy of procedures for registration and radiological monitoring of evacuees over a 24 hour period.

Guidelines: See MCFA-11, (CO-27)

WCFA-12 (CO-28) Demonstrate the adequacy of facilities for mass care of evacuees.

Guidelines: See MCFA-12, (CO-12)

WCFA-13 Demonstrate adequate procedure and equipment for disposal of contaminated waste (e.g., clothing).

WCFA-14 (CO-29) Demonstrate adequate equipment and procedures for decontamination of emergency workers, equipment and vehicles.

Guidelines: Procedures for disposal of liquid waste should be demonstrated.

WCFA-15 (CO-19) Demonstrate the organizational ability and resources necessary to effect an orderly evacuation of schools within the plume EPZ.

Guidelines: See MCFA 14

Joint News Center

JNC-1 (CO-1) Demonstrate the ability to mobilize staff and activate the facility promptly.

Guidelines: The County staff will respond in accordance with their notification procedures. The State PIO will demonstrate an appropriate arrival time, at the Alert ECL.

JNC-2 (CO-24) Demonstrate the ability to brief the media in a clear, accurate, and timely manner.

Guideline: Assure that all necessary information is presented to the media in press releases in a timely manner. All required personnel will be present at the briefings unless EBS messages or news release preparation is determined by respective PIO to take priority.

JNC-3 (CO-5) Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.

Guidelines: Coordination among personnel to ensure information for release is known to all Counties, State and participating licensee (i.e., "sign off procedures").

JNC-4 (CO-26) Demonstrate the ability to establish and operate rumor control in a coordinated fashion.

Guideline: The State, Counties, and licensee will respond accurately to incoming calls based on scenario information.

JNC-5 (CO-2) Demonstrate the ability to fully staff facilities and maintain staffing around the clock.

Guideline: 24 hour staffing is to be provided via shift change. NYS will demonstrate 24 hour coverage via roster.

JNC-6 (CO-4) Demonstrate the adequacy of facilities and displays to support emergency operations.

Guideline: This activity will be part of the utility's evaluation and will not appear in the off.site evaluation

JNC-7 (CO-13) Demonstrate the ability to alert the public within the 10-mile EPZ, and disseminate an initial instructional message, within 15 minutes.

Guidelines: The initial simulated alert signal and the (test) instructional message issued via the Emergency Broadcast System must be aired within 15 minutes after the authorized public officials reach a decision which requires activating the alert and notification system. Subsequent messages must be read in 15 minutes after the decision to do so has been made (i.e., this will have been met if the first two words of the message are read into the telephone at the JNC prior to the end of the 15 minutes.
(i.e. the first two words have been read into the telephone at the JNC.

JNC-8 Demonstrate the ability to formulate and distribute appropriate instruction to the public in a timely manner.

Guideline: Information and recommendations shall be prepared and provided to the public in a manner consistent with the needs for public response. This may be accomplished through EBS messages, news releases, newspapers ,telephone and/or radio and television.

TABLE 1.1

1987 GINNA STATION EMERGENCY PREPAREDNESS EXERCISE
PROPOSED ACTIVITIES

NRC	RG&E	NYS	MONROE COUNTY	WAYNE COUNTY
Notification of Agencies	Actual	Actual	Actual	Actual
Call up of Personnel	Actual	Actual	Actual	Actual
Activate Organization	Actual	Actual	Actual	Actual
Maintain Security	Actual	Actual	Actual	Actual
Conduct Dose Assessment	Actual	Actual	Actual	Actual
PAG Recommendation	Actual	Actual	Actual	Actual
Operate Joint News Center	Actual	Actual	Actual	Actual
EPZ Siren Activation Simulate**	N/A	Simulate**	Simulate**	
Route Alerting Actual(1)	N/A	N/A	Actual(1)	
EBS Message Broadcast Simulate**	N/A	Simulate**	Simulate**	
Dispatch Field Survey Teams Actual(2)	Actual-S	N/A	Actual(2)	
Exchange of Field Data	Actual	Actual	Actual	Actual
Reception Center Setup Actual(1)*	N/A	N/A	Actual(1)*	
Congregate Care Center Actual(1)*	N/A	N/A	Actual(1)*	
School Bus Run Simulate	N/A	N/A	Simulate	
General Population Actual(1)+	N/A	N/A	Simulate(1)	
Traffic Control Points Simulate	N/A	N/A	Actual(1)	
Road Impediments Simulate	N/A	N/A	Actual(1)	

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 The Rochester Gas and Electric Corporation

1. Facilities Management and Support Personnel

   a. Control Room
   b. Technical Support Center (TSC)
   c. Operations Support Center (OSC)
   d. Emergency Survey Center
   e. Emergency Operations Facility (EOF)
   f. Joint Emergency News Center (JENC)
   g. Engineering Support Center (ESC)

2. Emergency Response Teams

   a. Radiation Survey Teams (RSTs)
   b. First Aid Team (if necessary)
   c. Emergency OSC Teams
   d. Security Force
   e. Post Accident Sampling System (PASS) Team
   f. Chemistry/Health Physics Support
   g. Fire Brigade (if necessary)

2.1.2 Off-Site Agencies/Organizations

Limited participation of the following Agencies/ Organizations is expected:

1. Federal
   a. Nuclear Regulatory Commission (NRC)
   b. United States Coast Guard (USCG)
   c. Federal Emergency Management Agency (FEMA)

2. State
   a. New York State Emergency Management Offices
   b. New York State Radiological Emergency Preparedness Group

3. Local
   a. Wayne County
   b. Monroe County

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:

1. 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.

2. The Controllers will deliver "Exercise Messages" to 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.

3. 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 and 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 arm bands 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 off-site 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 identified by wearing maroon arm bands with white lettering. Federal agency observers will be identified by wearing blue arm bands with white lettering stating "NRC".

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. Visitors will be identified by wearing white arm bands with black lettering stating "Visitor". They will be provided with orientation information and appropriate exercise publications.

2.2.5 Requests to participate as a Visitor should be made in writing and contain the Visitor's full name, home address and phone number, and organizational affiliation. Requests to participate as Visitors must be submitted to the RG&E Corporate Emergency Planner (CEP) 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:

1. Control Room

The Ginna Station Control Room will be used. Control Room emergency response measures will be exercised under the direction of the exercise Shift Supervisor, acting as the Emergency Coordinator, until relieved by the Plant Superintendent or alternate. The Control Room is located off the Turbine Building on the Operating floor.

2. 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 (see Figure 2.2). The Plant Superintendent 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 off-site agencies, and will perform other functions of the EOF until the EOF is activated.

3. Operations Support Center (OSC)

The OSC, 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.

4. Emergency Operations Facility (EOF)

The EOF, 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 Emergency Coordinator reports to the EOF/Recovery Manager. The EOF is the command post for coordination of response measures with off-site 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.

5. Joint Emergency News Center (JENC)

The JENC 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 a Site Area Emergency or General Emergency (optional for the Alert status).

2.4 Exercise Conduct

2.4.1 Overview

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

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

2.4.4 Controllers

Lead Controllers will be stationed in the Control Room, OSC, TSC, EOF, JENC, and County EOCs. Only Lead Controllers can modify exercise messages or initiate free play messages.

1. The 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 Control Room operators using 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 off-site agencies will be made in accordance with the Emergency Plan Implementing Procedures.

2. The TSC will be the coordination point for on-site emergency response activities. TSC personnel will also coordinate off-site 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 off-site organizations are to be exercised, it may be necessary to postulate non-credible situations. This is done to ensure that various aspects of the on-site and off-site 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 Controllers.

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 off-site agencies should be made in accordance with the Emergency Plan Implementing Procedures. The Scenario is designed to activate on-site and off-site emergency response capabilities.

The Lead Controllers 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 them 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 including posted speed limits, stop lights/signs, one way streets, etc.

H. Should any on-site 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 qualification 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, the 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 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 exercise.

Permission for Visitors to observe the Exercise must be obtained from the Corporate Emergency Planner, Rochester Gas and Electric Corporation, 89 East Avenue, Rochester, New York 14649-0001.

3.1 Directions to the Ginna Nuclear Station

The 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

1. Several car rental agencies are available at the Rochester-Monroe County International Airport to provide rental vehicles for ground transportation to the Ginna Station.

2. Persons traveling from the Rochester-Monroe County International Airport via auto should take State Highway 204 East to Interstate 390 South. Interstate 390 becomes Interstate 590 as one proceeds around the outer loop. Follow I-590 to State Highway 590 to State Highway 104 East. Follow State Highway 104 to State Highway 350 (Ontario-Center Road). Turn left (North) and proceed to the Ginna Station. Total distance is approximately 40 miles.

3.2 Directions to the EOF, ESC and ENJC

3.2.1 Air

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

3.2.2 Car

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

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

3.3 Accommodations

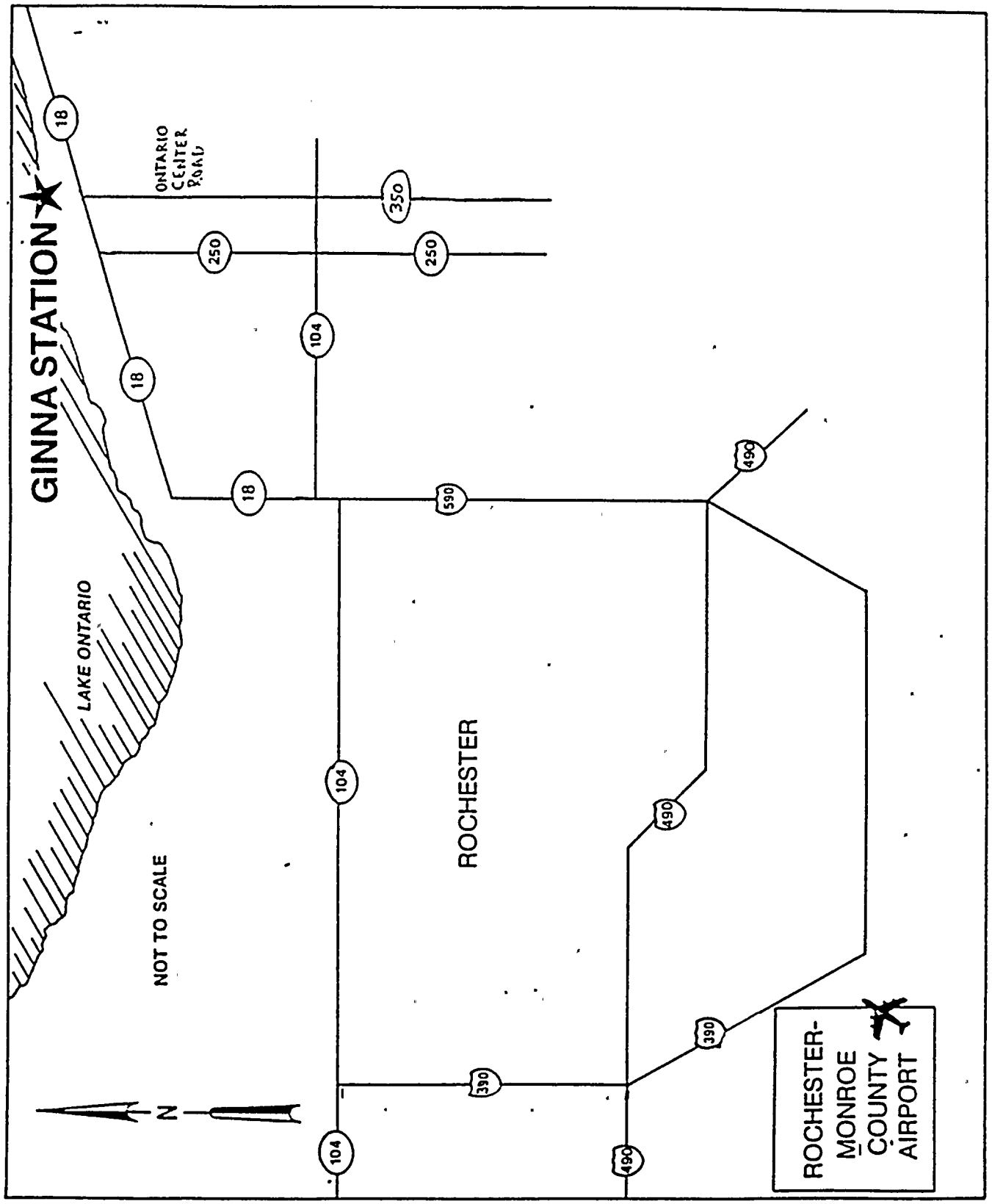
Hotel/motel accomodations may be obtained at the following locations:

Depot Hotel, Pittsford	716-381-9900
Marriott Hotel, Greece	716-225-6880
Red Roof Inn, Henrietta	716-359-1100

PLANT: **GINNA STATION** LOCATION: **Ontario, N Y**

LICENSEE: **Rochester Gas & Electric Corp.**

FIGURE 3.1



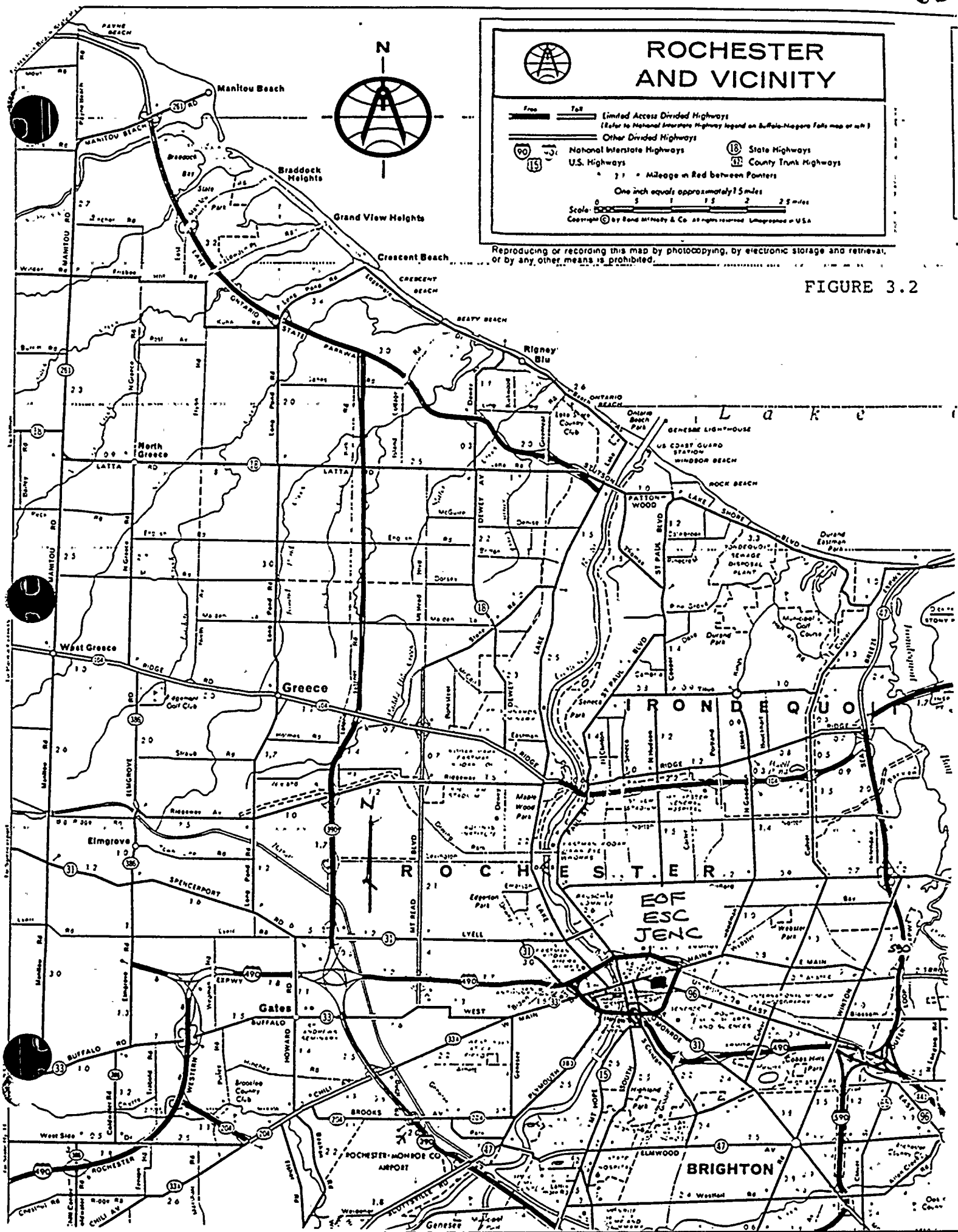
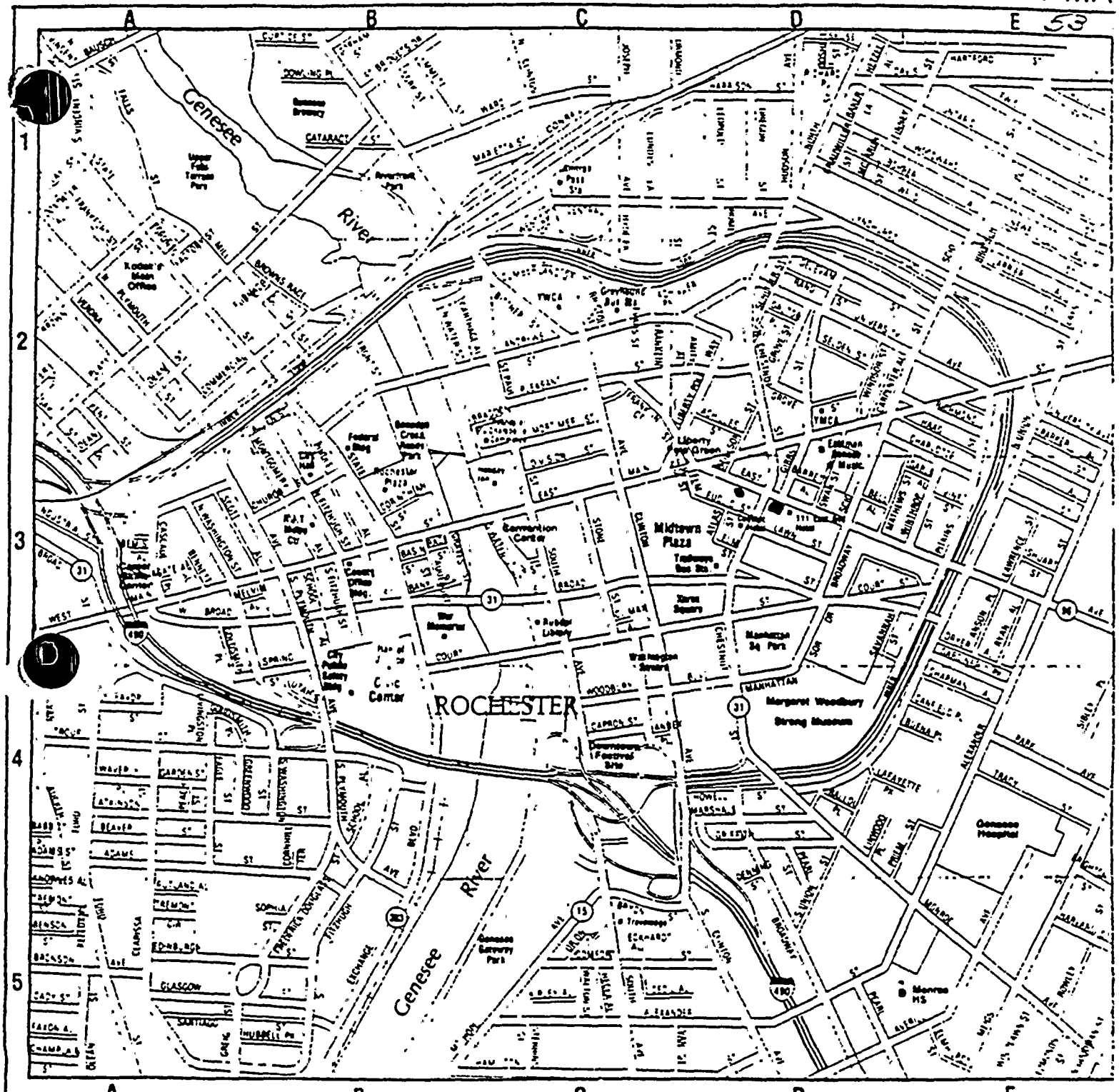

ROCHESTER
AND VICINITY
Limited Access Divided Highways
Other Divided Highways
National Interstate Highways
U.S. Highways
State Highways
County Trunk Highways
Mileage in Red between Pointers
One inch equals approximately 1.5 miles
Scale: 0 .5 1 1.5 2 2.5 miles
Coverage © by Rand McNally & Co
Reproducing or recording this map by photocopying, by electronic storage and retrieval, or by any other means is prohibited.
N
Manitou Beach
Braddock Heights
Grand View Heights
Crescent Beach
Rigney Blu
North Greece
West Greece
Greece
Elmgrove
Gates
BRIGHTON
IRONDEQUOIT
ROCHESTER
EOF
ESC
JENC
Lake

FIGURE 3.2

24 ROCHESTER CENTRAL BUSINESS DISTRICT MA



Government Offices

City Hall	B-2
City Public Safety Building	B-4
Civic Center	B-4
County Office Building	B-3
Federal Building	B-2
Hall of Justice	B-3

Hotels & Motels

Cadillac Hotel	D-3
Holiday Inn	B-2
[redacted]	
Rochester Plaza	B-3
Travelodge	C-5

Points of Interest

Amtrak Passenger Service	C-1
Eastman School of Music	D-2
Eastman Theatre	D-2
Genesee Brewery	B-1
Greyhound Bus Station	C-2
Kodak's Main Offices	A-2
Midtown Plaza	C-3
Rochester Chamber of Commerce	C-2
RIT Metro Center	B-3
Rundel Library	C-3
Strong Museum	D-4
Trailways Bus Station	D-3
War Memorial	B-3
Xerox Square	D-3
YMCA	D-2

Parks

Downtown Festival Site	C-4
Genesee Crossroads Park	B-2
Genesee Gateway Park	C-5
Liberty Pole Green	C-3
Manhattan Square Park	D-3
Riverfront Park	B-1
Washington Square	C-3

● EOF - 49 EAST AVE.

■ JNC - 89 EAST AVE.

SECTION 4.0

REFERENCES/ABBREVIATIONS - ACRONYMS

4.1 REFERENCES

4.1.1 10CFR 50.47, 50.54, Appendix E

4.1.2 44CFR 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 and Implementing Procedures, Rev. 5 (5/87)

4.1.5 GS Radiation Emergency Plan Implementing Procedures (SC)

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 (10/84)

4.1.9 Monroe County Emergency Preparedness Plan (5/87)

4.1.10 Wayne County Radiological Response Plan (10/86)

4.2 ABBREVIATIONS - ACRONYMS

4.2.1	A/E	Architect Engineer
4.2.2	ALARA	As Low As Reasonably Achievable
4.2.3	ARMS	Area Radiation Monitor(s)
4.2.4	ATWS	Anticipated Transient Without Scram
4.2.5	CD	Civil Defense
4.2.6	CFR	Code of Federal Regulations
4.2.7	CV	Containment
4.2.8	CR	Control Room
4.2.9	DOE	Department of Energy
4.2.10	DOE-IRAP	DOE Interagency Radiological Assistance Plan
4.2.11	EAL(s)	Emergency Action Level(s)
4.2.12	EBS	Emergency Broadcast System
4.2.13	EC	Emergency Coordinator
4.2.14	EOC	Emergency Operations Center
4.2.15	EOF	Emergency Operations Facility
4.2.16	EPA	Environmental Protection Agency
4.2.17	EPC	Emergency Planning Coordinator
4.2.18	EPIP(s)	Emerency Plan Implementing Procedures(s)
4.2.19	EPZ	Emergency Planning Zone
4.2.20	ERF(s)	Emergency Response Facility(s)
4.2.21	ERPA	Emergency Response Planning Area
4.2.22	ESC	Emergency Survey Center
4.2.23	FEMA	Federal Emergency Management Agency
4.2.24	FRERP	Federal Radiological Emergency Response Plan
4.2.25	GS	Ginna Station
4.2.26	HP	Health Physicist
4.2.27	HPN	Health Physics Network
4.2.28	HVAC	Heating Ventilation Air Conditioning
4.2.29	INPO	Insititue of Nuclear Power Operations
4.2.30	JENC	Joint Emergency News Center
4.2.31	KI	Potassium Iodide
4.2.32	LCO	Limiting Condition of Operation
4.2.33	LOCA	Loss of Coolant Accident
4.2.34	LWR	Light Water Reactor
4.2.35	MPC	Maximum Permissible Concentration
4.2.36	NRC	Nuclear Regulatory Commission
4.2.37	OSC	Operational Support Center
4.2.38	OOS	Out of Service (on-site)
4.2.39	OOS	Out of Sequence (off-site)
4.2.40	PAG(s)	Protective Action Guide(s)
4.2.41	PAR(s)	Protective Action Recommendation(s)
4.2.42	PASS	Post Accident Sampling System
4.2.43	PIO	Public Information Officer
4.2.44	PWR	Pressurized Water Reactor
4.2.45	RCP	Reactor Coolant Pump
4.2.46	RCS	Reactor Coolant System
4.2.47	RHR	Residual Heat Removal
4.2.48	RG&E	Rochester Gas and Electric Corporation
4.2.49	RST	Radiation Survey Team
4.2.50	SC	Site Contigency
4.2.51	SI	Safety Injection
4.2.52	SPING	High Range Effluent Monitor
4.2.53	TSC	Technical Support Center

SECTION 5.0

CONTROLLER AND EVALUATOR INFORMATION

5.0 CONTROLLER AND EVALUATOR INSTRUCTIONS

Each controller and evaluator should be familiar with the following:

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

5.1 CONTROLLER INSTRUCTIONS

5.1.1 Controllers will position themselves at their assigned locations prior to the activation of the facility for which they have responsibility. (See Section 5.3).

5.1.2 Communications will be tested to ensure satisfactory communications among Controllers prior to Exercise commencement. All watches and clocks will be synchronized with the Lead 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 on-site 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 <u>not</u> 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 then 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

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

5.2.2 Team

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

Table 5.2 lists the Personnel Assignments for the Off-Site Controller Organization.

5.4 EVALUATION PACKAGES

The following Evaluation packages will be provided to the appropriate Controllers/ Observers at the Pre-Exercise briefing:

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

TABLE 5.1

1987 GINNA EXERCISE

Controller Organization

Control Room

Frank Maciuska	(Lead)
Rex Smith	
Bob Hynes	(Start)

Technical Support Center

Dick Marchionda	(Lead)	
Bob Hynes	Operations Assessment	
Bob Eliasz	Technical Assessment	
Bob Wood	Security	
Al Salemi	Dose Assessment (Ni Mo)	
MaryAnn Chaubard	Health Physics (NYPA)	(O)
Art Zaremba	Communications/General (NYPA)	(O)
Mark Prairie	General (NYPA	(O)

Operations Support Center

Gene Eng	(Lead)
Dick Biedenbach	Mechanical/Fire
Gregg Joss	Operation/Testing
~~Mike Leach~~ Bob Ropp	I&C
Jim Bement	Health Physic Techs
Bob Dangler	Operations

Emergency Survey Center

Barb Butler	(Lead)
Jim Knorr	Team
Kathy Hart	Team
Frank Pavia	Team
Frank Schwind	Team
Bryan Methe'	Team
Pat Phelan	Team

(O) Indicates Observer Only

Emergency Operations Facility

Dave Burke	(Exercise Coordinator)	
Wes Backus	(Lead Operations)	
Rick Watts	(Lead Dose Assessment)	
Diane Dreikorn	Dose Assessment (LILCO)	
~~Rich Rossin~~ Rick Strickhart	Communications (LILCO)	(O)
Steve Meister	Survey Team	
George Lawler	Survey Team	
Mike Peckham	General (NYPA)	(O)

Emergency Joint News Center

Dick Sullivan	(Lead)	
Ed Kaish	(Ni Mo)	(O)
Todd Forte		(O)

Engineering Support Center

Charles Anderson	(Lead)	

(O) Indicates Observer Only

TABLE 5.2

1987 - R.E. GINNA UNANNOUNCED/OFFHOURS EXERCISE
OBSERVER/EVALUATOR ASSIGNMENTS

	Monroe County	Wayne County
EOC	Roberta Fox Marvin Silverman	John Gibb
Dose Assessment	Robert Alibozek	Barbara Ignatz
Field Monitoring	George Brozowski Bob Theesfeld	Dave Bell Bill Wigley
RC/CC High School	Ken Bergmann (6:00 PM)	Bill Campbell (7:00 PM)
EW/PMC	N/A	Tom Coulthard (interview only at facility)
School Bus Run	Kevin Kraus (between 9:00 AM & 12:00)	Tom Coulthard (after 9:00 AM)
General Pop. Bus Run	Kevin Kraus	Bill Campbell
Traffic Control Point	Fred Bera	N/A
Road Impediment	Fred Bera	N/A
Route Alert	N/A	Tom Coulthard (interview only at facility)

GINNA NUCLEAR STATION
1987 EVALUATED EXERCISE

5.5 PUBLIC INFORMATION AND RUMOR CONTROL 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 Emergency Response Organization is prepared to deal with the media during an incident at the Ginna Station, the exercise provides certain elements that test Public Information activities. During the course of this exercise, the Rochester Gas and Electric Joint Emergency News Center (JENC) will be activated and exercised.

Special 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, 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) not located in 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 adjustements will be necessary. Space is provided for controllers to make notes on the response. Controllers need not use the questions herein; indeed, free play is encouraged. However, controllers must not get carried away with unusual questions.

When calling in questions, always precede questions with "This is an exercise." If you are playing a reporter at the JENC, free play questions based on the information given during the briefing. Additionally, ask questions about RG&E, the state or counties, background on Ginna

Station, radiation, state/county/utility interface, protective actions, etc.

Questions and relevant telephone numbers will be distributed at the special Pre-Exercise Controllers Briefing.

Attachment 1 lists Public Information questions generally for RG&E; Attachment 2 lists County Rumor Control Questions.

GINNA STATION
1987 EVALUATED EXERCISE
PUBLIC INFORMATION QUESTIONS
TIME

0400o This is _____ from Radio Station WSMR. We understand that there is an emergency at the Ginna Nuclear Plant. What is happening?

0430o My husband's a volunteer fire fighter. He said he's heard that there's a fire at the nuclear plant. I'm worried. What is happening there?

0500o This is _____ from the Albany Post. I understand that you have a leak at the Ginna Station. What's going on up there?
- o How big is the leak?
- o Where is the leak?
- o What are you doing to fix it?
- o How dangerous is the leak?
- o How radioactive is it in there?
- o Is this leak similar to the accident you had in 1982?
- o What's the status of the plant?
- o Any Radiation exposures?
- o Whom have you notified?

0530o This is _____ from Radio Station WPJG. I hear you have a fire at the Ginna Station. Would you tell our listeners the story?
- o Was the damage done by the fire similar to the Browns Ferry Fire?
- o Has any radiation been release? How do you know?
- o Why didn't you call in the Wayne County Fire Department?
- o Any injuries? Any radioactive contamination?
- o Has the Nuclear Regulatory Commission been notified?
- o Did you declare an emergency?
- o How serious was the fire?
- o Was the fire near the reactor?
- o Did you evacuate the site? Why not?
- o Is the reactor shutdown?
- o How much is this going to cost us ratepayers?

0600o What is happening at the plant?
Any injuries?
- o Has the NRC been notified?
- o Have State and local officials been notified?
- o How high are the radiation levels? Are they dangerous? Has anyone been over-exposed to radiation?
- o Are any of those problems related to the accident you had in 1982?
- o What are you doing to fix the problem?
- o Are you evacuating the site?
- o Is the reactor shutdown?
- o Did you declare an emergency?
- o What is the signficance of an ALERT?

TIME

0630o I've heard you declared a Site Area Emergency. What's that? What happened?
- o Why don't you just shut the reactor down?
- o How big is the leak? Where is it coming from?
- o Where is the electricity going to?
- o Can't you just shut a valve or turn a switch or something?
- o Has anyone been killed? Any injuries?
- o I work at Beebee Station. What's going on at Ginna?
- o How is the reactor being cooled?
- o Is any radiation going into the lake?
- o When will the NRC be taking over the plant?
- o What's the plant doing now?
- o How much radiation is being released?
- o Where is the wind blowing?
- o Have State and local officials been notified?
- o How serious is the accident?
- o What is RG&E doing?

0700o I have heard that you declared a General Emergency. Is this true? Why?
- o Has anyone been killed?
- o Has the State of New York been informed?
- o Has the NRC been informed?
- o How are you going to fix the reactor?
- o Can't you just shut a valve or something?
- o Is this accident similar to the one at Three Mile Island?
- o When will the NRC take over the plant?
- o What are electric rates going to be?
- o Where are you going to get power if Ginna is out of service?
- o Why won't the reactor shutdown?
- o Should I sell my RG&E stock?
- o How much of this was caused by the poor management?
- o In Layman's terms, what caused this disaster?

0730o What effect will this have on RG&E stock? What do you think the Securities Exchange Commission will do?
- o I've heard that you are going to use RG&E pension funds to pay for the Ginna accident. Is this true?
- o What was your stock selling for this morning? What is your stock selling for now?

0800o How much radiation is being released?
- o How is the radiation filtered? How dangerous is it?
- o Who is in charge of the emergency?
- o When will the next press briefing be held?
- o When will reactor be shutdown?
- o Where is the radiation heading?
- o What protective actions have been recommended?
- o Whom should I call for further information concerning Wayne (Monroe) County?

TIME

- o I'm calling from the high school care center. I want you to help me find my brother; we both evacuated, but I don't know where he's gone.

- o I heard the accident at the Ginna Station is over. When are we gonna be allowed to go home? Why haven't you made the announcement on TV?
- o What is the Governor doing?
- o What is the status of the fire that occurred this morning?
- o I've heard that the reactor has a hole in it. Is this true?
- o Do you have insurance? Who will pay for this? My home-owner's insurance states that I am not covered for nuclear accidents!

1000 Note to Controllers: The Exercise is terminated.

TIME

0730o What's this I here about an explosion at Ginna? Is that what caused the plant to send everybody home? How many got hurt and who's gonna run the plant now?

o Has the aftershock caused more damage?

0800o (Note: This caller is under the mistaken impression that Ginna has been abandoned and is now being operated remotely from the County EOC.)

o My wife is concerned because she doesn't think you county disaster people know what you're doing? I told here not to worry because the County Executive (Monroe) or the Chairman of the Board of Supervisors (Wayne) knows how to run the plant because he's practiced it before. Just one thing, why doesn't he turn it off before we get melted down?

o I don't trust the power plant people; they'd lie to save their own skins. Do you have anybody checking on them?

o Should I close my business due to the disaster? Who will pay for the lost income?
(The business is Bill Gray's Restaurant on Route 104.)

0830o What are we supposed to do? Where do I go?

o I heard nobody at Ginna knows what the hell is going on! Is it true that Federal people are coming to take over? Are they gonna fix it?

o I heard the siren but nobody said which way to go. Charlie, my neighbor, says the siren doesn't mean to go; you is supposed to hide! What is it?

0900o I hear that nursing homes will evacuate their patients. My mother is in the Hill Haven nursing home. Where will she be when it's over so I can go make sure she's okay?

o I'm leaving now? Where can I pick my son up? He goes to Wayne Central Middle School.

o I'm evacuating now. Where can I pick up my son? He goes to (Later).

o I am supposed to leave but don't have a place to stay. Which school can I stay at? How do I get there? Who's going to pay my expenses? Wo do I call to get a check for my expenses?

0930o Is it true that the milk is now poison? What shall I feed my baby?

o We don't have no money. Is the government going to give us some so we can get away from the radiation?

RUMOR CONTROL MESSAGES
FOR WAYNE AND MONROE COUNTY

TIME

0330o I was just knocked out of bed. I called the 911 emergency number. They said we had an earthquake by the nuke plant and to call RG&E for more information. What should I do? I didn't hear the sirens, why not? Is the plant coming apart? What in hell is Morin/Decker doing about it?

o This earthquake scared hell out of my family? How bad is it? I've got a lot of broken dishes. How does it compare to the L.A. quake? What is it on the Ricter scale? Are we going to get aftershocks? How do you know/Why don't you know? (Is there anyone there that knows anything?) I want to talk to Lou Morin/Marv Decker. Why Not? Where is he hiding?

o Is October earthquake month - First in L.A., then in Kentucky, earlier in the Adirondacks and in 1983 here. Can't you close the plant shut - it'll be one less thing to worry about.

0400o I hear there's an earthquake emergency at the nuclear power plant.

o How will I know when to evacuate?

0430o I'm Roberta Gibson of Radio Station WSFC. Can you tell our listeners what's happening at the Ginna Nuclear plant?

o How much damage did the earthquake do to the plant?

0500o Has any radiation been released yet?

o How can you be sure?

o How can I find out when there is a release?

0530o Wayne County
This is a drill. My daughter goes to the Freewill Elementary School. Where can I go to pick her up?
Where can I pick her up once the kids are evacuated?

o Monroe County
This is a drill. My daughter goes to the Klem Road South Elementary School. Where can I go to pick her up?
Where can I pick here up once the kids are evacuated?

0600o We've lost our emergency information handbook and need one right away. Will one of the emergency people you have deliver one to us?

0630o If there's an evacuation, I'm going to need help with my father who is bedridden due to a heart attack last month. Can you help me?

0700o I wanna talk to the (County) Commissioner. (Reason?) I wanna know if this here accident is gonna cost us taxpayers or will the Electric Company pay for it?

o I live near the plant and don't want that nuclear electricity into my house. Change it now or I'll call the Public Service Commission! Do you hear me?!

TIME

0830o Is the reactor shutdown? How did it happen?
- o Is this plant similar to Shoreham?
- o What is the reactor building doing now? Is the hole fixed?
- o How much radiation was released off-site?
- o What protective actions are in effect for Wayne (Monroe) County?
- o How many people live in Wayne (Monroe) County?
- o What are you going to do to fix the situation?
- o When is the next press briefing?
- o How many media are at the News Center?
- o What agencies are at the News Center?
- o Where is the wind going?
- o Who's in charge of the emergency?

0900o I'm John Smith from Livingston County. My neighbor said they expect the radiation to blow all the way down here. What should I do about my farm? I'm in the middle of harvesting hay. Who's going to pay me for my losses?

1000o NOTE TO CONTROLLERS: The Exercise is terminated.

SECTION 6.0

1987 GINNA FULL SCALE PLUME EXPOSURE PATHWAY EXERCISE

AND

NEW YORK STATE INGESTION PATHWAY EXERCISE

SCHEDULE OF EVENTS

SECTION 6.0

1987 GINNA FULL SCALE PLUME EXPOSURE PATHWAY EXERCISE AND NEW YORK STATE INGESTION PATHWAY EXERCISE

SCHEDULE OF EVENTS

10/21	0900	OFFSITE PLAYER BRIEFING	EOF
	1330	ONSITE PLAYER BRIEFING	TRAINING CTR
10/22	0900	CONTROLLER BRIEFING	TRAINING CTR
WEEK OF 10/25 BEGINNING AT 0001 HOURS			
DAY 1	OFF HOURS UNANNOUNCED	PLUME EXPOSURE PATHWAY EXERCISE	ALL
DAY 1	AFTER EXERCISE TERMINATION AND BREAK	INGESTION PATHWAY BRIEFING (REDUCED STAFF)	EOF
DAY 2	0900	STATE FIELD MONITORING/SAMPLING ACTIVITIES (NO GINNA PARTICIPATION)	IPZ
DAY 3	0830	INGESTION PATHWAY UPDATE BRIEFING	ALBANY/EOF
	1000	INGESTION PATHWAY TABLETOP DRILL (START OF PLAY)	ALBANY
		REDUCED STAFF PARTICIPATION	EOF
DAY 4	0800	GINNA CRITIQUE	TRAINING CTR
	1000	NRC CRITIQUE	TRAINING CTR
	TBD	FEMA NEWS CONFERENCE	EJNC

SECTION 7.0

EXERCISE SCENARIO

GINNA STATION
1987 EMERGENCY PREPAREDNESS EVALUATED EXERCISE
INITIAL CONDITIONS

1. The R.E. Ginna Station is operating at 100% rated thermal power and has been operating continuously for 145 days.

2. The turbine drive Auxiliary Feedwater pump is out for replacement of the pump thrust bearing and thrust bearing cooler. All parts are available.

3. The Reactor Core is in cycle 16 near end of life. Boron concentration in the Reactor coolant system is 20 PPM.

4. Containment spray pump 1A is inoperable due to seized pump bearings since noon yesterday. Replacement parts are on order and expected to arrive this morning. Bearing replacement should then require about 1 day of actual work. Required surveillances are complete and satisfactory for today.

5. At 1600 hours yesterday, safety injection pump suction valve from the Boric Acid storage tanks, MOV 826B failed to open during performance of the quarterly safeguard valve operation periodic test (PT-2.3). Subsequent investigation revealed a grounded motor. The grounded motor has been removed and sent to the Motor Shop for repair. The motor is expected to be returned to the Station tomorrow at 0900 hours. Installation and testing is expected to be complete by 1400 hours tomorrow. All valves in the system that provide the duplicate function have been tested satisfactory for operability.

6. At 2130 hours last night, Reactor Coolant System total leak rate increased from 0.75 GPM to 1.5 GPM. Identified leak rate is approximately 0.25 GPM. Containment activity has increased significantly. The shift is continuing to investigate the cause of the leakage. A containment entry is planned as soon as the paperwork is complete.

CONTROLLERS NOTE: Operators should start performing procedures S-12.2 and AP-RCS.1 for leakage trouble shooting.

7. VCT level is decreasing approximately 1% every 8 minutes. Containment sump "A" pump starts automatically approximately every 54 minutes.

GINNA STATION
1987 EMERGENCY PREPAREDNESS EVALUATED EXERCISE
ON-SITE SEQUENCE OF EVENTS

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0045	-00/15	Initial Conditions established.
0100	00/00	Commence Exercise.
0130 UNUSUAL EVENT	00/30	An UNUSUAL EVENT should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Reactor Coolant Leakage; primary system leakage greater than Technical Specification Limits (greater than 1 GPM unidentified for more than 4 hours). The 4 hour time limit expired at 0130 hours. If UNUSUAL EVENT not declared in ~ 15 minutes, a contingency message should be given out to declare it.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0145	00/45	The Station experiences a large tremor from an earthquake. Control Room personnel start performing the actions of SC-5 (Earthquake Emergency Plan). Operations checks the accelerograph and a red target is indicated on the action indicator at the bottom of the case. Update UNUSUAL EVENT notifications may be made due to earthquake at plant of greater than .01g as indicated by red target on action indicator at bottom of accelerograph. The "A" Emergency Diesel Generator is started per SC-5. Operations touring plant per SC-5. When PT-1 (Rod Control System) Operability Test is simulated, 2 control rods will not move. IF in approximately 15 minutes, the Shift Supervisor or his designee do not notify I&C to remove the film from the accelerograph and send it to the Photo Lab, a contingency message should be given out to do so.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0200	01/00	Containment Recirculation Fan Cooler Condensate Collectors begin requiring dumping more frequently due to the earthquake cracking a weld on the "A" S/G Steam Line as it exits the S/G. Plant commences an orderly shutdown to hot shutdown within six hours per Technical Specification 3.10.4.4 (i.e. with two or more rods inoperable, be in hot shutdown within six hours).

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0210	01/10	Fire Zone S-03 (Auxiliary Building Intermediate Floor Center - Bus 16 Area) first alarm is received in the Control Room. The Fire Brigade is activated and responds.
0220	01/20	The Fire Brigade arrives at the scene. Fire Brigade Captain reports to Control Room that the Bus #16 transformer is smoking with no flaming fire.
		NOTE: Off-site fire fighting assistance is not participating. If assistance is requested, Controllers will intercede to prevent off-site fire department response.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0225 ALERT	01/25	The 480 volt Bus #16 normal feed trips out due to #16SS transformer fault. The 1B Emergency Diesel Generator starts and Loads on to 480 volt Bus #16. Operations restores equipment lost when Bus #16 tripped out. An ALERT should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Fire; Fire potentially affecting safety systems as determined by the Shift Supervisor. If ALERT not declared in ~ 15 minutes, a contingency message should be given out to declare it.
0240	01/40	The fire in the 480 volt Bus #16 transformer is extinguished.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0345	02/45	The TSC, OCS, and the Survey Center are nearing operational status. TSC should send a repair team out to investigate 480 volt Bus #16 transformer damage.
0400	03/00	1B Emergency Diesel Generator Trips out on Low Bearing oil pressure. 480 volt Bus #16 Emergency Diesel Generator Tie breaker trips. There is no voltage on Bus #16, MCC-1D, MCC-1J, and MCC-1M. The following major equipment is lost: 1BMDAFWP, charging pump 1B and 1C, CCW pump 1B, CV recirculation fans 1B and 1C, CV spray pump 1B, RHR pump 1B, SI pump 1B and Standby Auxiliary Feedwater Pump 1D.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0415 SITE EMERGENCY	03/15	Reactor shutdown continues. If the TSC decides to cross-tie buses 14-16, one of the two tie breakers will not close due to mechanical problems. A SITE EMERGENCY should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Fire; Fire causing loss of safety system including redundant components as determined by the Shift Supervisor; (i.e. Loss of both containment spray pumps), or EAL: Events in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0430 SITE EMERGENCY	03/30	Results from the developing of the accelerograph film indicates that an earthquake of .24g has occurred. A SITE EMERGENCY should be declared if not already done in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Natural Phenomenom being Experienced; Plant not in Cold Shutdown and earthquake greater than .2g as determined by developing accelerograph film. TSC sends Repair Team out to check out and repair the 1B Emergency Diesel Generator. TSC may send Repair Team out to finish maintenance on the Turbine Driven Auxiliary Feedwater Pump. TSC working on the leakage problem in containment. TSC may send Repair Team out to check out and repair tie breakers between 14-16 Buses.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
		If SITE EMERGENCY not declared in ~ 15 minutes, a contingency message should be given out to declare it.
0515	04/15	The EOF, JENC, and Engineering Support Center should be nearing Operational Status.
		Reactor shutdown continues.
		Containment Recirculation Fan Cooler Condensate collectors dumping frequency continues to increase indicating the "A" S/G weld crack is worsening.
		Repair Team sent out to check the 1B Emergency Diesel Generator reports to the TSC that the lube oil pump on the Diesel Engine has a cracked casing and it will take approximately four hours to repair.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0530	04/30	The "A" S/G Steam Line severes where it exits the S/G. Containment Pressure and temperature increases rapidly. Safety injection and containment spray are actuated automatically. Two Control Rods remain fully withdrawn. (These Control Rod pressure housings were the source of the "Initial Condition" unidentified RCS leak). The core returns to power and a large amount of the fuels, gap and fuel pellet activity, is released due to cladding failure and fuel pellet overheating. Containment Radiation levels start to increase rapidly. Containment Spray does not initiate because 1B Containment Spray Pump inoperable due to Bus #16 outage, (1A spray pump inoperable as an initial condition). There is no 12% Boric Acid injection to the core because MOV 826D inoperable due to Bus #16 outage, (MOV 826B inoperable as an initial condition).

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0535 GENERAL EMERGENCY	04/35	A GENERAL EMERGENCY should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Loss of Engineered Safety Features; Inability to Shutdown the reactor which results in core damage whith indications of containment pressure increasing rapidly and reactor remains at power after reactor trip initiated, (i.e. power range indication) or EAL: Containment systems; failed fuel indicated by sampling of containment atmosphere and containment pressure 30 psig and increasing or shift supervisors opinion containment may be breached. An immediate protective action recommendation will be made in accordance with SC-240, "Protective Action Recommendations." Operations stabalizes the plant using Emergency Operating Procedures. If GENERAL EMERGENCY not declared in ~ 15 minutes, a contingency message should be given out to declare it.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0630	05/30	The Station experiences a severe aftershock from the earthquake severing the two Control Rod pressure housings that have been leaking. Reactor Coolant system pressure rapidly decreases followed by Containment Pressure and radiation levels increasing. Safety injection SHOULD BE INITIATED AGAIN. There is no offsite radiation release at this time.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0645	05/45	The B RHR pump suction line from containment sump "B" ruptures due to the earthquake, the earthquake aftershock and containment pressure. The Auxiliary Building sump Hi level alarm annunciates in the Control Room. "A" Auxiliary Building sump pump indicates it has tripped and will not restart. Plant vent monitors show rapid increases in radiation levels. A major release to the environment begins. Release path: Containment through "B" RHR suction line out the plant vent.

APPROPRIATE TIME	SCENARIO TIME	EVENT DESCRIPTION
0700 0800	06/00 07/00	Efforts are underway to track the plume, terminate the release and implement/coordinate PAR's.
0800	07/00	The release is terminated due to the repair of the 1B Emergency Diesel Generator with restoration of power to 480 volt Bus #16 and MCC-1D and the closing of MOV-851B.
0800 0900	07/00 08/00	Plume tracking continues.
0900	08/00	Off-site radiation levels have significantly decreased due to Plume Passage. Down grade discussions are in progress. Recovery/-Re-entry discussions commence.
1000	09/00	The Plume Exercise is Terminated. Begin Ingestion Pathway phase.

SECTION 8.0

MESSAGE FORMS AND PLANT DATA SHEETS

Time: 0045

Message: I.C.

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Review initial conditions and plant status sheets with the operating crew.

2) Review exercise precautions/limitations and any exercise activities that are not normal (pre-staging, simulated notifications, extent of participation of off-site agencies, etc.).

3) Ensure that the operating crew understands that the exercise is not to interfere with safe plant operation.

4) Explain that the abbreviation "OOS" means "out of service", i.e. repairs must be made before the equipment can be used.

Actions Expected:

Participants should review initial conditions and plant data sheets.

GINNA STATION
1987 EMERGENCY PREPAREDNESS EVALUATED EXERCISE
INITIAL CONDITIONS

1. The R.E. Ginna Station is operating at 100% rated thermal power and has been operating continuously for 145 days.

2. The turbine driven auxiliary feedwater pump is out for replacement of the pump thrust bearing and thrust bearing cooler. All parts are available.

3. The Reactor Core is in cycle 16 near end of life. Boron concentation in the Reactor coolant system is 20 ppm.

4. Containment spray pump 1A is inoperable due to seized pump bearings since noon yesterday. Replacement parts are on order and expected to arrive this morning. Bearing replacement should then require about 1 day of actual work. Required surveillances are complete and satisfactory for today.

5. At 1600 hours yesterday, safety injection pump suction valve from the Boric Acid storage tanks, MOV 826B failed to open during performance of the quarterly safeguard valve operation periodic test (PT-2.3). Subsequent investigation revealed a grounded motor. The grounded motor has been removed and sent to the Motor Shop for repair. The motor is expected to be returned to the Station tomorrow. Installation and testing is expected to be complete by 1400 hours tomorrow. All valves in the system that provide the duplicate funtion have been tested satisfactory for operability.

6. At 2130 hours last night, Reactor coolant system total leak rate increased from 0.75 GPM to 1.5 GPM. Identified leak rate is approximatley 0.25 GPM. Containment activity has increased significantly. The shift is continuing to investigate the cause of the leakage. A containment entry is planned as soon as the paperwork is complete.

7. VCT level is decreasing approximately 1% every 8 minutes. Containment sump "A" pump starts automatically approximately every 54 minutes.

1987 EVALUATED EXERCISE Time: 0045

MAJOR PARAMETERS

Reactor Power Level	508 MWE/1520 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 100% N-43 100%	
NIS	N-42 100% N-44 100%	
RCS Pressure	2235	psig
RCS Temperature Tavg	573	oF
CHG. (FI-128)	27	GPM
Pressurizer Level	50	%
LTN. (FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	750	psig
1B S/G Pressure	760	psig
*CET	602	oF
Sump A Level	1.8	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	InServ/(STBY)/OOS
PostAccident 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	55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0045

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.0E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.4E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	4.7E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	8.5E+3	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.1E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+1	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	69.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	65.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	331	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	3.0	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0045

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+3.84E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+5.42E-05	N/A
4	Bkg I	CPM	STANDBY	+3.47E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.0E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-3.13E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-5.0E-06	-1.00-06
8	Gamma Bkg	CPM	STANDBY	-3.98E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	-1.3E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+9.0E-11	_____
3	I-131	uCi/cc*	STANDBY	+2.5E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.00E-02	mR/hr
(R-32): "B" Steam Line Rad Monitor	+1.00E-02	mR/hr

Time: 0055

Message: 1

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room Shift Supervisor

Simulated Plant Conditions:

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 1987 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:

Ensure that the PA announcement is made.

Actions Expected:

Time: 01:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0031	00900	0011	0050	00
WS 33B	0032	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0030	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0330	03000	0320	0340	0072	0020	0064	00
WD 33B	0330	03010	0320	0340	0071	0021	0063	00
WD150A	0331	03100	0321	0341	0045	0022	0062	00
WD150B	0352	03000	0321	0341	0035	0023	0060	02
WD 250	0333	03000	0330	0343	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0650	00	TER33B	0650	00	TE150A	0670	
TE150B	0671	00	TE250A	0690	00	TE250B	0690	
DT150A	0000	00	DT150B	0000	00	DT250A	0040	
DT250B	0040	00						
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

85

Time: 0115

Message: 2

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Indications in the Control Room include:

VCT level decreasing approximately 1% every 8 minutes.

FOR CONTROLLER USE ONLY

Controller Notes:

1) The RCS unidentified leak rate is stable at 1.25 gpm.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0115

MAJOR PARAMETERS

Reactor Power Level 508 MWE/1520 MWT
Reactor Shutdown Yes/(No)

NIS N-41 100% N-43 100%
NIS N-42 100% N-44 100%

RCS Pressure	2235	psig
RCS Temperature TAVG	573	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	49	%
LTN.(FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	750	psig
1B S/G Pressure	760	psig
*CET	602	oF
Sump A Level	2.2	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator (Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 55 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0115

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.1E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.4E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	4.7E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.2E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.4E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+1	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	69.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	66.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	332	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	333	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	3.2	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	3.3	GOOD	MPH

SPING MONITOR SHEETS

Time: 0115

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+4.20E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+2.30E-04	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.0E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-3.99E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-5.1E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	+3.98E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+9.00E-11	_____
3	I-131	uCi/cc*	STANDBY	+2.40E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 01:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0031	00900	0011	0050	00
WS 33B	0032	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0030	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0331	03000	0321	0341	0072	0020	0064	00
WD 33B	0331	03010	0320	0340	0071	0021	0063	00
WD150A	0332	03100	0320	0345	0045	0022	0062	00
WD150B	0332	03000	0315	0341	0035	0023	0060	02
WD 250	0333	03000	0321	0345	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0650	00	TER33B	0650	00	TE150A	0661	
TE150B	0661	00	TE250A	0690	00	TE250B	0690	
DT150A	0011	00	DT150B	0011	00	DT250A	0040	
DT250B	0040							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0130

Message: 3

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Indications in the Control Room include:

VCT level decreasing approximately 1% every 8 minutes.

FOR CONTROLLER USE ONLY

Controller Notes:

1) The RCS unidentified leak rate is stable at 1.25 GPM.

Actions Expected:

1) An UNUSUAL EVENT should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification", EAL: Reactor Coolant Leakage; Primary system leakage greather than Tech. Spec. limits (greater than 1 gpm unidentified for more than 4 hours).

2) Implement SC-201, "UNUSUAL EVENT'.

   a) Make notifications.

   b) Assess and monitor plant conditions. Update offsite agencies at least hourly and whenever there are significant changes in plant status.

3) Implement Procedure No. AP-RCS.1 "Reactor Coolant Leak".

1987 EVALUATED EXERCISE Time: 0130

MAJOR PARAMETERS

Reactor Power Level	508 MWE/1520MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 100% N-43 100%	
NIS	N-42 100% N-44 100%	
RCS Pressure	2235	psig
RCS Temperature TAVG	573	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	49	%
LTN.(FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	750	psig
1B S/G Pressure	760	psig
*CET	602	oF
Sump A Level	1.6	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	InServ/(STBY)/OOS
PostAccident 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	55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0130

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.1E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.5E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	4.7E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.3E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.7E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+1	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	69.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	66.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	327	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	3.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	3.5	GOOD	MPH

SPING MONITOR SHEETS

Time: 0130

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+4.40E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.70E-04	N/A
4	Bkg I	CPM	STANDBY	+3.47E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.1E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-3.98E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+5.1E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	+4.00E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+9.00E-11	_____
3	I-131	uCi/cc*	STANDBY	+2.50E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 1:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WS 33A	0031	00900	0011	0050	00			
WS 33B	0032	00910	0012	0052	00			
WS150A	0040	01000	0022	0060	00			
WS150B	0042	01100	0023	0061	02			
WS 250	0030	01000	0010	0055	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR		AVRN	CNT
WD 33A	0331	03000	0321	0351	0072		0020	0064
WD 33B	0330	03010	0322	0340	0071		0021	0063
WD150A	0330	03100	0321	0345	0045		0022	0062
WD150B	0331	03000	0321	0340	0035		0023	0060
WD 250	0332	03000	0310	0350	0055		0025	0061
NAME	AVGE	I	NAME	AVGE	I	NAME		AVGE
TER33A	0650	00	TER33B	0650	00	TE150A		0660
TE150B	0660	00	TE250A	0690	00	TE250B		0690
DT150A	0010	00	DT150B	0010		DT250A		0040
DT250B	0040							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0145

Message: 4 X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room Shift Supervisor

Simulated Plant Conditions:

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

Declare an UNUSUAL EVENT in accordance with SC-100, "Ginna Station Event Evaluation and Classification", EAL: Reactor Coolant Leakage; Primary system leakage greater than Tech. Spec. limits (greater than 1 gpm unidentified for more than 4 hours).

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver if an UNUSUAL EVENT has not yet been declared. Do not deliver if emergency classification discussions are in progress.

Actions Expected:

Time: 0145

Message: 5

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

The Station experiences a large tremor from an earthquake.

FOR CONTROLLER USE ONLY
Controller Notes:

1) When Control Room decides to check the accelerograph, question the Operator to be sent as to where he is going and what he is looking for. After he answers, have him simulate finding a red target.

2) When Control Room personnel simulate PT-1 on Control Rods, inform them that Control Rods I-7 and G-9 will not move.

3) When Control Room checks turbine supervisory, inform them all conditions are normal.

Actions Expected:

1) Control Room personnel should start performing the actions of SC-5 (Earthquake Emergency Plan) including:

   a) Checking the Station accelerograph.

   b) After being told of the red target indicated, may update on Unusual Event notification due to earthquake at plant of greater than .01g as indicated by red target on action indicator at bottom of accelerograph.

   c) Simulate starting the "A" emergency diesel generator.

   d) Notify I&C personnel to remove the film from the accelerograph and send it to the photo lab.

   e) Tour the plant for unusual conditions.

   f) Simulate performing PT-1 (Rod Control System) operability test.

1987 EVALUATED EXERCISE Time: 0145

MAJOR PARAMETERS

Reactor Power Level	508 MWE/1520 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41 100% N-43 100%		
NIS N-42 100% N-44 100%		
RCS Pressure	2235	psig
RCS Temperature Tavg	573	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	49	%
LTN.(FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	750	psig
1B S/G Pressure	760	psig
*CET	602	oF
Sump A Level	1.8	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator (Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 55 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 51 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0145

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.1E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.5E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	4.7E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.5E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.9E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+1	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	70.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	67.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0145

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+4.60E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.70E-04	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.20E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-3.99E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-5.21E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.00E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+9.00E-11	_____
3	I-131	uCi/cc*	STANDBY	+2.50E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.00E-02	mR/hr
(R-32): "B" Steam Line Rad Monitor	+1.00E-02	mR/hr

Time: 01:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0033	00800	0011	0050	00
WS 33B	0032	00910	0012	0052	00
WS150A	0042	01000	0022	0060	00
WS150B	0043	01100	0023	0061	02
WS 250	0032	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0330	03100	0320	0350	0072	0020	0064	00
WD 33B	0330	03020	0320	0340	0071	0021	0063	00
WD150A	0332	03100	0320	0340	0045	0022	0062	00
WD150B	0333	03000	0321	0341	0035	0023	0060	02
WD 250	0331	03000	0320	0342	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0670	00	TER33B	0670	00	TE150A	0691	
TE150B	0691	00	TE250A	0700	00	TE250B	0700	
DT150A	0021	00	DT150B	0021	00	DT250A	0030	
DT250B	0030							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0200

Message: 6X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions:

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

Notify I&C to remove the film from the accelerograph and send it to the photo lab.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver if Control Room personnel have not requested I&C to remove film.

Actions Expected:

Time: 0200

Message: 7

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Indications in the Control Room include:

- Containment recirculation fan cooler condensate collectors begin requiring dumping more frequently.

ALARMS Received in the Control Room:

- E-31 (Containment Recirc. fan condensate Hi-Hi level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) This is the beginning of the earthquake induced crack on the "A" S/G steam line weld as it exits the S/G.

Actions Expected:

1) Control Room should try and determine if this new leak is from the primary or secondary side.

2) Shift Supervisor should initiate a containment entry to check for leakage.

3) Shift Supervisor orders the plant to hot shutdown in 6 hours per Technical Specification 3.10.4.4 (i.e. with two or more full length rods inoperable, be in hot shutdown within 6 hours).

1987 EVALUATED EXERCISE Time: 0200

MAJOR PARAMETERS

Reactor Power Level	508 MWE/1520 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 100% N-43 100%	
NIS	N-42 100% N-44 100%	
RCS Pressure	2235	psig
RCS Temperature Tavg	572.5	oF
CHG. (FI-128)	27	GPM
Pressurizer Level	49.5	%
LTN. (FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	750	psig
1B S/G Pressure	760	psig
*CET	602	oF
Sump A Level	2.0	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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	21.5 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	InServ/(STBY)/OOS
PostAccident 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	55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0200

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.2E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.6E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	4.7E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.6E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	2.2E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+1	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	70.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	67.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	4.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.4	GOOD	MPH

A11

SPING MONITOR SHEETS

Time: 0200

			(R-12A)	(R-14A)	(R-15A)
CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+4.80E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.70E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.30E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-5.22E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.00E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+9.90E-11	_____
3	I-131	uCi/cc*	STANDBY	+3.00E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 02:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WS 33A	0042	00800	0011	0050	00			
WS 33B	0042	00810	0012	0052	00			
WS150A	0050	01000	0022	0060	00			
WS150B	0052	01100	0023	0061	02			
WS 250	0040	01000	0010	0055	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0320	03000	0310	0330	0072	0020	0064	00
WD 33B	0320	03010	0315	0335	0071	0021	0063	00
WD150A	0330	03100	0320	0340	0045	0022	0062	00
WD150B	0330	03000	0320	0340	0035	0023	0060	02
WD 250	0330	03000	0320	0345	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0670	00	TER33B	0670	00	TE150A	0690	
TE150B	0690	00	TE250A	0700	00	TE250B	0700	
DT150A	0020	00	DT150B	0020	00	DT250A	0030	
DT250B	0030	00						
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0210

Message: 8

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions:

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

Alarms received in the Control Room:

- Fire zone S-03 (Auxiliary Building Intermediate Floor Center - Bus 16 Area) first alarm.

FOR CONTROLLER USE ONLY

Controller Notes:

1) This is the beginning of a fire in the #16 Bus transformer due to earthquake damage to the windings.

Actions Expected:

1) Control Room sounds the fire alarm and activates the Fire Brigade.

Time: 0215

Message: 9

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

- E-31 (Containment Recirc. Fan Condensate Hi-Hi Level

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects the "A" diesel generator running.

2) Data reflects a controlled shutdown of the plant.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0215

MAJOR PARAMETERS

Reactor Power Level 503 MWE/1504 MWT
Reactor Shutdown Yes/(No)

NIS N-41 99% N-43 99%
NIS N-42 99% N-44 99%

RCS Pressure	2240	psig
RCS Temperature TAVG	572.5	oF
CHG. (FI-128)	27	GPM
Pressurizer Level	48	%
LTN. (FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	755	psig
1B S/G Pressure	765	psig
*CET	601	oF
Sump A Level	2.2	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator (Energized)/Deenergized

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 21.5 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 55 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0215

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.3E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.6E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.7E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.9E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	2.3E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	2.5E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+1	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.4E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	70.1	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	67.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	331	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	4.3	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0215

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+4.80E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-8.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.01E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-7.99E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+1.50E-10	_____
3	I-131	uCi/cc*	STANDBY	+3.00E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 02:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0041	00900	0011	0050	00
WS 33B	0034	00910	0012	0052	00
WS150A	0046	01000	0022	0060	00
WS150B	0045	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0330	03000	0320	0340	0072	0020	0064	00
WD 33B	0331	03010	0321	0345	0071	0021	0063	00
WD150A	0330	03100	0315	0345	0045	0022	0062	00
WD150B	0331	03000	0316	0341	0035	0023	0060	02
WD 250	0332	03000	0317	0340	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0670	00	TER33B	0670	00	TE150A	0691	
TE150B	0690	00	TE250A	0702	00	TE250B	0701	
DT150A	0200	00	DT150B	0020	00	DT250A	0032	
DT250B	0031							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0220

Message: 10X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

480 volt Bus #16 transformer is smoking, but no flames are visible.

FOR CONTROLLER USE ONLY

Controller Notes:

1) If off-site Fire Fighting assistance is requested, Controllers will intercede to prevent off-site Fire Department response.

2) See attached map for details of fire. Provide information verbally when the appropriate investigations are made by the Fire Brigade (when it arrives).

Actions Expected:

1) When notified, the Shift Supervisor should direct the Fire Brigade to respond via the plant PA System.

Time: 0220

Message: 10X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

480 volt Bus #16 transformer is smoking, but no flames are visible.

FOR CONTROLLER USE ONLY

Controller Notes:

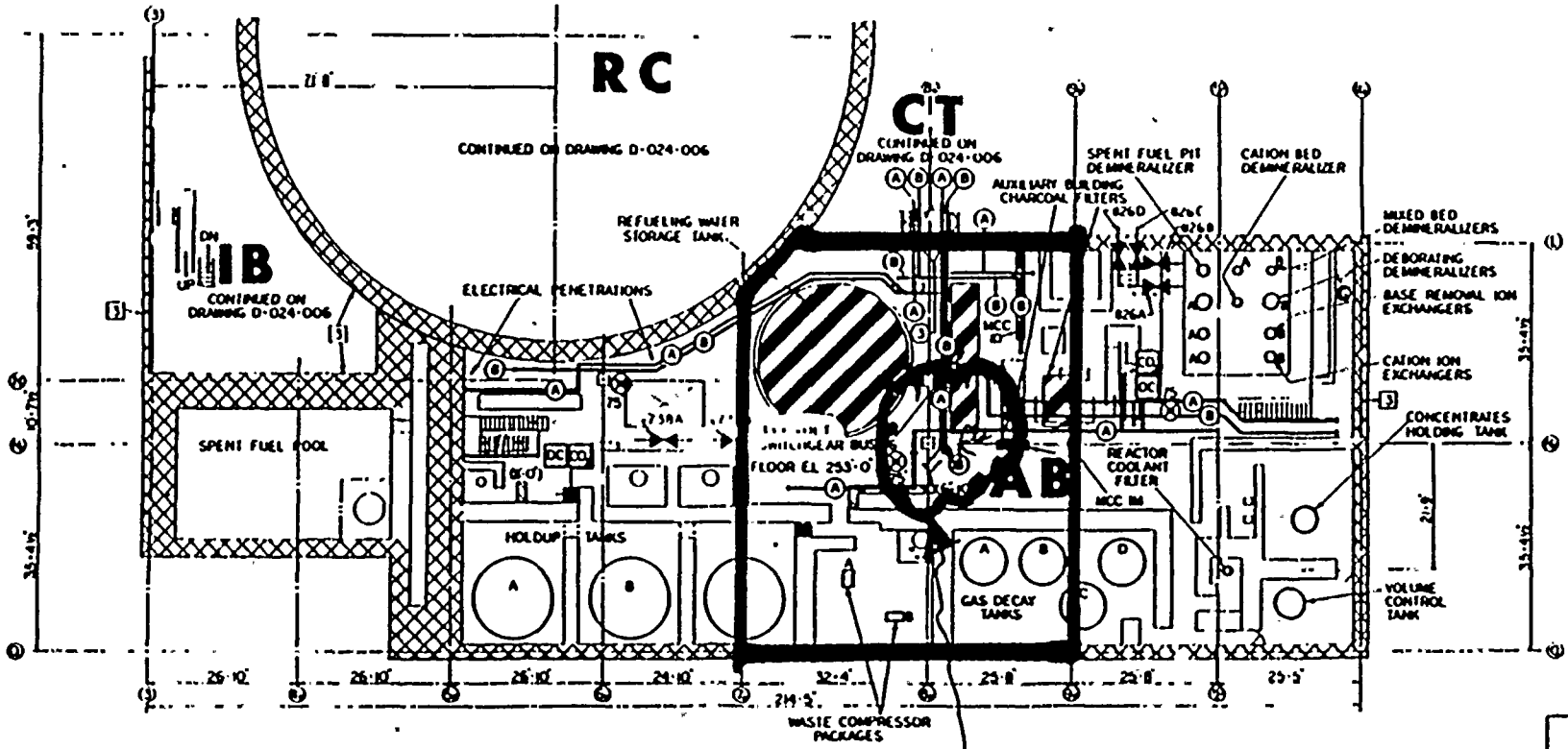
1) If off-site Fire Fighting assistance is requested, Controllers will intercede to prevent off-site Fire Department response.

2) See attached map for details of fire. Provide information verbally when the appropriate investigations are made by the Fire Brigade (when it arrives).

Actions Expected:

1) Fire Brigade Captain to direct proper fire fighting activities on Bus #16 transformer fire.

2) Fire Brigade Captain should keep Control Room advised of fire fighting progress.


RC
CT
IB
AB
CONTINUED ON DRAWING D-024-006
REFUELING WATER STORAGE TANK
ELECTRICAL PENETRATIONS
SPENT FUEL POOL
HOLDUP TANKS
FLOOR EL 255'-0"
SPENT FUEL PIT DEMINERALIZER
CATION BED DEMINERALIZER
AUXILIARY BUILDING CHARCOAL FILTERS
MIXED BED DEMINERALIZERS
DEBORATING DEMINERALIZERS
BASE REMOVAL ION EXCHANGERS
CATION ION EXCHANGERS
CONCENTRATES HOLDING TANK
REACTOR COOLANT FILTER
MCC 1B
GAS DECAY TANKS
VOLUME CONTROL TANK
WASTE COMPRESSOR PACKAGES
Smoldering Fire
SC-3.20.14:4
REFERENCE D-024-008

Time: 0225

Message: 11

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions:

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

ALARMS received in the Control Room:
- o L-7 (Bus 16 under voltage safeguards)
- o J-29 (480V transformer breaker trip)
- o J-7 (480V main or tie breaker trip)

Indications in the Control Room include:
- 1B Emergency Diesel Generator voltage meter indicates 480 volts.
- 1B Emergency Diesel Generator Bus 16 tie breaker closed.
- 1B Emergency Diesel Generator KW meter indicates ~ 200 KW.

FOR CONTROLLER USE ONLY

Controller Notes:

1) 480 volt Bus 16 tripped out because of a fault on the transformer due to the earthquake and subsequent fire.

Actions Expected:

1) After 1B Emergency Diesel Generator starts and ties onto Bus 16, Operations should restore equipment lost when Bus 16, tripped out.

2) An ALERT should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Fire; Fire potentially affecting safety systems as determined by the Shift Supervisor.

3) Implement SC-202, "ALERT":

   a) Make notifications.
   b) Assess and monitor plant conditions. Update off-site agencies at least every 30 minutes and whenever there are significant changes in plant status.
   c) Activate the TSC, OSC, SC.

Time: 0230

Message: 12

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

o E-31 (Containment Recirc. Fan condensate Hi-Hi level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Fire Brigade fighting Bus #16 transformer fire.

2) Data reflects a controlled shutdown of the plant.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0230

MAJOR PARAMETERS

Reactor Power Level	477 MWE/1428 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41	94%	
NIS N-43	94%	
NIS N-42	94%	
NIS N-44	94%	
RCS Pressure	2235	psig
RCS Temperature Tavg	571.5	oF
CHG. (FI-128)	27	GPM
Pressurizer Level	46	%
LTN. (FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	770	psig
1B S/G Pressure	780	psig
*CET	598	oF
Sump A Level	1.6	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	InServ/(STBY)/OOS
PostAccident 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	52 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0230

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.3E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.8E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	2.2E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	3.0E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	2.7E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	3.6E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.5E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	71.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	67.1	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	331	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	332	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	2.4	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	2.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0230

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+5.00E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-8.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-8.00E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+4.00E-10	_____
3	I-131	uCi/cc*	STANDBY	+3.00E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 02:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0021	00900	0012	0040	00
WS 33B	0022	00910	0012	0052	00
WS150A	0030	01000	0022	0060	00
WS150B	0032	01100	0023	0061	02
WS 250	0040	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0330	03000	0325	0345	0072	0020	0064	00
WD 33B	0330	03010	0315	0340	0071	0021	0063	00
WD150A	0330	03100	0320	0341	0045	0022	0062	00
WD150B	0330	03000	0321	0338	0035	0023	0060	02
WD 250	0335	03000	0325	0340	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0671	00	TER33B	0671	00	TE150A	0691	
TE150B	0691	00	TE250A	0710	00	TE250B	0710	
DT150A	0020	00	DT150B	0020	00	DT250A	0040	
DT250B	0040							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0240

Message: 13X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

The fire is extinguished.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver when all objectives for the fire have been demonstrated. Deliver before 0255 at the latest.

Actions Expected:

1) Notify the Control Room/TSC.

2) Re-stow all gear.

Time: 0240

Message: 14X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room Shift Supervisor

Simulated Plant Conditions:

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

Declare and ALERT in accordance with SC-100 "Ginna Station Event Evaluation and Classification," EAL: Fire; Fire potentially affecting safety systems as determined by the Shift Supervisor.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver only if an ALERT has not yet been declared. Do not deliver if Emergency Classification discussions are in progress.

Actions Expected:

Time: 0245

Message: 15

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects a controlled shutdown of the plant.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0245

MAJOR PARAMETERS

Reactor Power Level	452 MWE/1353MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41	89%	
NIS N-43	89%	
NIS N-42	89%	
NIS N-44	89%	
RCS Pressure	2245	psig
RCS Temperature TAVG	570	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	45	%
LTN.(FI-134)	41	GPM
Containment Pressure	0	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	783	psig
1B S/G Pressure	790	psig
*CET	595	oF
Sump A Level	1.8	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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	feet

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	InServ/(STBY)/OOS
PostAccident 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	52 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0245

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.8E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	2.5E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	3.5E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	2.9E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	2.9E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	3.0E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	70.5	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	68.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	332	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	333	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	3.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	3.6	GOOD	MPH

SPING MONITOR SHEETS

Time: 0245

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+5.20E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+8.00E-06	3.70E-06
6	Area Monitor	MR/H	1.0E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-8.00E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03

1	Part - Beta	uCi/cc*	STANDBY	+5.00E-10	_____
3	I-131	uCi/cc*	STANDBY	+3.20E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 02:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WS 33A	0031	00900	0011	0050	00			
WS 33B	0032	00910	0012	0052	00			
WS150A	0040	01000	0022	0060	00			
WS150B	0042	01100	0023	0061	02			
WS 250	0030	01000	0010	0055	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0331	03000	0310	0340	0072	0020	0064	00
WD 33B	0332	03010	0320	0340	0071	0021	0063	00
WD150A	0330	03100	0320	0340	0045	0022	0062	00
WD150B	0310	03000	0300	0320	0035	0023	0060	02
WD 250	0315	03000	0305	0325	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0680	00	TER33B	0680	00	TE150A	0700	
TE150B	0700	00	TE250A	0705	00	TE250B	0705	
DT150A	0200	00	DT150B	0020	00	DT250A	0025	
DT250B	0025							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0300

Message: 16

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects a controlled shutdown to hot shutdown.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0300

MAJOR PARAMETERS

Reactor Power Level	427 MWE/1277 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41	84%	
NIS N-43	84%	
NIS N-42	84%	
NIS N-44	84%	
RCS Pressure	2240	psig
RCS Temperature TAVG	569	oF
CHG. (FI-128)	27	GPM
Pressurizer Level	44	%
LTN. (FI-134)	41	GPM
Containment Pressure	0.1	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	795	psig
1B S/G Pressure	800	psig
*CET	593	oF
Sump A Level	2.0	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 52 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0300

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.8E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	2.8E+4	GOOD	CPM
R10B	PLANT VENT IODINE MONITOR R10B	4.0E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.5E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	3.3E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.0E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	72.1	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	69.1	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	3.7	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	3.8	GOOD	MPH

SPING MONITOR SHEETS

Time: 0300

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+5.40E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+8.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+8.00E-06	1.50E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+6.00E-10	_____
3	I-131	uCi/cc*	STANDBY	+3.2E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 03:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0038	00700	0015	0058	00
WS 33B	0039	00910	0012	0052	00
WS150A	0047	01000	0022	0060	00
WS150B	0048	01100	0023	0061	02
WS 250	0056	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0335	06000	0325	0345	0072	0020	0064	00
WD 33B	0335	03010	0325	0345	0071	0021	0063	00
WD150A	0334	03100	0324	0344	0045	0022	0062	00
WD150B	0333	03000	0323	0343	0035	0023	0060	02
WD 250	0335	02000	0325	0345	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0691	00	TER33B	0691	00	TE150A	0701	
TE150B	0701	00	TE250A	0712	00	TE250B	0712	
DT150A	0200	00	DT150B	0200	00	DT250A	0020	
DT250B	0020							
DEW 33	0436		TEG 33	0602	00			
RAIN	0056							

Time: 0315

Message: 17

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in the Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects a controlled shutdown to hot shutdown.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0315

MAJOR PARAMETERS

Reactor Power Level	401 MWE/1200 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41	79%	N-43 79%
NIS N-42	79%	N-44 79%
RCS Pressure	2240	psig
RCS Temperature TAVG	567	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	43	%
LTN.(FI-134)	41	GPM
Containment Pressure	0.1	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	805	psig
1B S/G Pressure	810	psig
*CET	590	oF
Sump A Level	2.2	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM
1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 52 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0315

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.8E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	3.3E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	4.5E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.5E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	3.5E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	6.4E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	72.3	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	69.5	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.5	GOOD	MPH

SPING MONITOR SHEETS

Time: 0315

CHANNEL #	TYPE	UNITS	CONTAINMENT	(R-12A) Current Reading PLANT VENT	(R-14A) Current Reading AIR EJECTOR	(R-15A)
1	Part - Beta	uCi	STANDBY	+5.60E-04	N/A	
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A	
3	I-131	uCi	STANDBY	+3.90E-04	N/A	
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A	
5	Noble Gas-Low	uCi/cc	STANDBY	+8.00E-06	3.70E-06	
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03	
7	Noble Gas-Mid	uCi/cc	STANDBY	+8.00E-06	-1.00E-06	
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01	
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03	
1	Part - Beta	uCi/cc*	STANDBY	+7.00E-10	_____	
3	I-131	uCi/cc*	STANDBY	+3.50E-10	_____	

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 03:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0050	00
WS 33B	0052	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0335	03000	0325	0345	0072	0020	0064	00
WD 33B	0335	03010	0325	0344	0071	0021	0063	00
WD150A	0334	03100	0324	0345	0045	0022	0062	00
WD150B	0333	03000	0323	0342	0035	0023	0060	02
WD 250	0335	03000	0325	0342	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0700	00	TER33B	0700	00	TE150A	0715	
TE150B	0715	00	TE250A	0725	00	TE250B	0725	
DT150A	0015	00	DT150B	0015	00	DT250A	0025	
DT250B	0025							
DEW 33	0456		TEG 33	0602	00			
RAIN	0056							

Time: 0330

Message: 18

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects a controlled shutdown to hot shutdown.

Actions Expected:

1

1987 EVALUATED EXERCISE Time: 0330

MAJOR PARAMETERS

Reactor Power Level	376 MWE/1125 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 74% N-43 74%	
NIS	N-42 74% N-44 74%	
RCS Pressure	2240	psig
RCS Temperature TAVG	566	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	41	%
LTN.(FI-134)	41	GPM
Containment Pressure	0.1	psig
1A S/G Level	52	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	820	psig
1B S/G Pressure	825	psig
*CET	587	oF
Sump A Level	1.6	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator (Energized)/Deenergized

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 21.5 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps
FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %
Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/(STBY)/OOS
NaOH Tank Level = 93 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 52 psig
Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %
Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/(STBY)/OOS

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0330

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.9E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	3.8E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	5.0E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	3.8E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	7.3E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	72.5	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	69.5	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	337	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	335	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	4.6	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.7	GOOD	MPH

NS

SPING MONITOR SHEETS

Time: 0330

				(R-12A)	(R-14A)	(R-15A)
CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR	
1	Part - Beta	uCi	STANDBY	+5.80E-04	N/A	
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A	
3	I-131	uCi	STANDBY	+3.90E-04	N/A	
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A	
5	Noble Gas-Low	uCi/cc	STANDBY	+1.00E-06	3.70E-06	
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03	
7	Noble Gas-Mid	uCi/cc	STANDBY	-1.00E-06	-1.00E-06	
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01	
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03	
1	Part - Beta	uCi/cc*	STANDBY	+9.00E-10	_____	
3	I-131	uCi/cc*	STANDBY	+3.70E-10	_____	

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 03:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0046	00900	0015	0050	00
WS 33B	0045	00810	0016	0052	00
WS150A	0041	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0060	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0337	02000	0327	0347	0072	0020	0064	00
WD 33B	0336	03010	0326	0346	0071	0021	0063	00
WD150A	0332	03100	0323	0343	0045	0022	0062	00
WD150B	0337	03000	0327	0347	0035	0023	0060	02
WD 250	0338	03000	0328	0348	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0695	00	TER33B	0695	00	TE150A	0715	
TE150B	0715	00	TE250A	0725	00	TE250B	0725	
DT150A	0200	00	DT150B	0200	00	DT250A	0030	
DT250B	0030							
DEW 33	0460		TEG 33	0602	00			
RAIN	0056							

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Time: 0345

Message: 19

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in Control Room:

- E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) The TSC, OSC and Emergency Survey Center should be nearing operational status.

2) Data reflects a controlled shutdown to hot shutdown.

Actions Expected:

1) TSC, when operational should send a repair team out to investigate 480 volt Bus #16 transformer damage.

1987 EVALUATED EXERCISE Time: 0345

MAJOR PARAMETERS

Reactor Power Level	350 MWE/1048 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 69% N-43 69%	
NIS	N-42 69% N-44 69%	
RCS Pressure	2235	psig
RCS Temperature Tavg	565	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	40	%
LTN.(FI-134)	41	GPM
Containment Pressure	0.1	psig
1A S/G Level	52	%
1B S/G Level	52	%
RVLIS	100	%
1A S/G Pressure	830	psig
1B S/G Pressure	835	psig
*CET	585	oF
Sump A Level	1.8	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	(Energized)/Deenergized

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 21.5 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. InServ/(STBY)/OOS
PostAccident 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 52 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0345

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.9E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	4.2E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	5.5E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	4.1E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	8.2E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	72.6	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	69.7	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	339	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	337	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0345

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+6.00E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+1.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-1.00E-06	-1.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	+1.00E-09	_____
3	I-131	uCi/cc*	STANDBY	+3.70E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 03:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0031	00900	0011	0050	00
WS 33B	0032	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0030	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0339	03000	0329	0349	0072	0020	0064	00
WD 33B	0338	03010	0328	0348	0071	0021	0063	00
WD150A	0336	03100	0326	0346	0045	0022	0062	00
WD150B	0335	03000	0325	0345	0035	0023	0060	02
WD 250	0337	03000	0327	0347	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0697	00	TER33B	0698	00	TE150A	0707	
TE150B	0707	00	TE250A	0718	00	TE250B	0718	
DT150A	0010	00	DT150B	0010	00	DT250A	0021	
DT250B	0021	00						
DEW 33	0460		TEG 33	0602	00			
RAIN	0056							

Time: 0400

Message: 20

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

ALARMS received in the Control Room:

- J-9 (Safeguard breaker trip)
- J-32 (Emergency Diesel Generator 1B panel)
- L-7 (Bus 16 under voltage safeguards)

Indications in the Control Room include:

- 1B Emergency Diesel Generator Bus tie to 16 shows a green light.
- No voltage or KW's on 1B Emergency Diesel Generator. Equipment off of 480 volt Bus 16 not running.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Local "B" Emergency Diesel Generator Panel indicates Diesel tripped on low bearing oil pressure.

2) Major equipment lost with loss of Bus #16 - MCC-1D, MCC-1J, MCC-1M, 1BMDAFWP, 1B & 1C charging pumps, 1B CCW pump, 1B & 1C CV recirculation fans, 1B CV spray pump, 1B RHR pump, 1B SI pump and 1D standby auxiliary feedwater pump.

3) TSC should send repair team out to check out 1B Emergency Diesel Generator

Actions Expected:

1) Operators should switch over to excess letdown because of only one charging pump available.

2) TSC should send repair team out to check out 1B Emergency Diesel Generator.

1987 EVALUATED EXERCISE Time: 0400

MAJOR PARAMETERS

Reactor Power Level	325 MWE/973 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 64% N-43 64%	
NIS	N-42 64% N-44 64%	
RCS Pressure	2235	psig
RCS Temperature TAVG	563	oF
CHG.(FI-128)	27	GPM
Pressurizer Level	38	%
LTN.(FI-134)	41	GPM
Containment Pressure	0.1	psig
1A S/G Level	52	%
1B S/G Level	53	%
RVLIS	100	%
1A S/G Pressure	845	psig
1B S/G Pressure	850	psig
*CET	581	oF
Sump A Level	2.0	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18)/(16) Energized/Deenergized
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	InServ/(STBY)/OOS
PostAccident 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	52 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES AVERAGE

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0400

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.4E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.7E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.9E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	4.7E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	6.0E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	4.4E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+2	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	73.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	70.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	340	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	340	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.2	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.5	GOOD	MPH

SPING MONITOR SHEETS

Time: 0400

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+6.20E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+2.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-2.00E-06	-1.50E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.45E-03
1	Part - Beta	uCi/cc*	STANDBY	+1.00E-09	_____
3	I-131	uCi/cc*	STANDBY	+3.80E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 04:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0055	00700	0015	0050	00
WS 33B	0052	00910	0012	0052	00
WS150A	0055	01000	0022	0060	00
WS150B	0056	01100	0023	0061	02
WS 250	0052	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0340	02000	0330	0350	0072	0020	0064	00
WD 33B	0340	03010	0330	0350	0071	0021	0063	00
WD150A	0341	03100	0331	0351	0045	0022	0062	00
WD150B	0342	03000	0332	0352	0035	0023	0060	02
WD 250	0340	03000	0330	0350	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0700	00	TER33B	0700	00	TE150A	0720	
TE150B	0720	00	TE250A	0730	00	TE250B	0730	
DT150A	0200	00	DT150B	0020	00	DT250A	0030	
DT250B	0030							
DEW 33	0470		TEG 33	0602	00			
RAIN	0057							

Time: 0400

Message: 21X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: OSC Team Investigating Loss of #16 Station Service Transformer

Simulated Plant Conditions:

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

The transformer has phase to phase grounds and must be replaced.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver verbally when the team has made appropriate investigations.

Actions Expected:

1) Notify Control Room/OSC and estimate repair effort.

Time: 0405

Message: 21.5X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: JENC Manager

Simulated Plant Conditions:

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

Radio Station WZZZ called to report this news bulletin received from the Associated Press:

"The U.S. Geological Survey Office in Golden, Colorado this morning reported an earthquake in Upstate New York that occurred at approximately 1:45 a.m. EST. The earthquake registered 5.0 on the Richter Scale. The earthquake's epicenter was located approximately 30 miles east of Rochester, New York.

Preliminary reports from local police and governmental agencies indicate light to moderate damage to residential and commercial structures in the affected area. Roadways and bridges are reported passable. No major injuries or fatalities have been reported at this time."

FOR CONTROLLER USE ONLY

Controller Notes:

ACTIONS EXPECTED:

Time: 0415

Message: 22

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in the Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY
Controller Notes:

1) If the TSC decides to cross-tie Buses 14-16, inform them that the breaker tie on Bus 16 will not close.

ACTIONS EXPECTED:

1) A SITE EMERGENCY should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Fire causing loss of safety systems including redundant components as determined by the Shift Supervisor; (i.e. Loss of both containment spray pumps), or EAL: Events in progress or have occurred which involves actual or likely major failures of plant functions needed for protection of the public.

2) Implement SC-203, "SITE EMERGENCY":
   A. Make notifications
   B. Assess and monitor plant conditions. Update offsite agencies at least every 30 minutes and whenever there are significant changes in plant status.
   C. Activate the EOF, JENC, and Engineering Support Center.

3) Implement SC-212 "Site Evacuation", and SC-213 "Accountability."

4) TSC may send a repair team out to checkout and repair the breaker between the 14 - 16 Buses.

5) TSC should be working on leakage problem in containment.

6) Operations takes out normal letdown and puts in excess letdown because of only one charging pump operating due to Bus 16 outage.

1987 EVALUATED EXERCISE Time: 0415

MAJOR PARAMETERS

Reactor Power Level 300 MWE/896 MWT
Reactor Shutdown Yes/(No)

NIS N-41 59% N-43 59%
NIS N-42 59% N-44 59%
RCS Pressure 2240 psig
RCS Temperature TAVG 562 oF
CHG.(FI-128) 0 GPM
Pressurizer Level 37 %
LTN.(FI-134) excess LTDN. IN service GPM
Containment Pressure 0.2 psig
1A S/G Level 52 %
1B S/G Level 52 %
RVLIS 100 %
1A S/G Pressure 855 psig
1B S/G Pressure 860 psig
*CET 579 oF
Sump A Level 2.2 feet
Sump B Level 0 inches
A RCP (Running)/Stopped
B RCP (Running)/Stopped

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator (Energized)/Deenergized

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 SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps
FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/STBY/(OOS)

RWST Level = 95 %
Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)
NaOH Tank Level = 93 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS
PostAccident 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 55 psig
Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %
Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/STBY/(OOS)

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES,(AVERAGE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0415

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.5E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.8E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.9E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	5.3E+4	HALH	CPM
R10B	PLANT VENT IODINE MONITOR R10B	6.6E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALH	CPM
R12	CONTAINMENT GAS MONITOR	4.7E+5	HALH	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+2	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.6E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	73.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	70.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	341	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	340	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH

SPING MONITOR SHEETS

Time: 0415

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+6.40E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+3.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	-2.00E-06	-3.00E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	1.45E-03
1	Part - Beta	uCi/cc*	STANDBY	+1.20E-09	_____
3	I-131	uCi/cc*	STANDBY	+3.80E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 04:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0050	00
WS 33B	0050	00910	0012	0052	00
WS150A	0055	01000	0022	0060	00
WS150B	0056	01100	0023	0061	02
WS 250	0055	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0340	02100	0330	0350	0072	0020	0064	00
WD 33B	0341	03010	0331	0351	0071	0021	0063	00
WD150A	0340	03100	0330	0350	0045	0022	0062	00
WD150B	0341	03000	0331	0351	0035	0023	0060	02
WD 250	0342	02000	0331	0351	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0700	00	TER33B	0700	00	TE150A	0722	
TE150B	0722	00	TE250A	0733	00	TE250B	0733	
DT150A	0022	00	DT150B	0022	00	DT250A	0033	
DT250B	0033							
DEW 33	0470		TEG 33	0602	00			
RAIN	0057							

Time: 0430 to ~ 0530

Message: 23X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: OSC Team Investigating Loss of 1B Emergency Diesel Generator

Simulated Plant Conditions:

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

The 1B Emergency Diesel Generator Lube Oil Pump has a cracked casing. Spare is available.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver verbally when the Team has made appropriate investigations.

2) Repairs cannot be successful until 0800 hours.

Actions Expected:

1) Notify Control Room/OSC and continue repair efforts.

Time: 0430

Message: 24

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Technical Support Center

Simulated Plant Conditions: See attached sheets

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

Results from developing of the accelerograph film indicates an earthquake of .24g has occurred.

Alarms received in Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

1) If not already declared, a SITE AREA EMERGENCY should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Natural Phenomenon Being Experienced; Plant not in cold shutdown and earthquake greater than .2g as determined by developing accelograph film.

2) Implement SC-203, "SITE AREA EMERGENCY"

   A. Make notifications.

   B. Assess and monitor plant conditions. Update off-site agencies at least every 30 minutes and whenever there are significant changes in plant status.

   C. Activate the EOF, JENC, and Engineering Support Center.

3) Implement SC-212, "Site Evacuation" and SC-213, "Accountability."

4) TSC should be evaluating leakage problem in containment.

1987 EVALUATED EXERCISE Time: 0430

MAJOR PARAMETERS

Reactor Power Level	274 MWE/820 MWT	
Reactor Shutdown	Yes/(No)	
NIS	N-41 54% N-43 54%	
NIS	N-42 54% N-44 54%	
RCS Pressure	2240	psig
RCS Temperature TAVG	561	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	35	%
LTN. (FI-134) excess LTDN.	IN Service	GPM
Containment Pressure	0.25	psig
1A S/G Level	53	%
1B S/G Level	52	%
RVLIS	100	%
1A S/G Pressure	870	psig
1B S/G Pressure	875	psig
*CET	576	oF
Sump A Level	1.8	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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	21.5 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (AVERAGE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0430

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.5E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.8E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.0E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	5.8E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	7.4E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	5.0E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.1E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.7E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	73.1	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	70.1	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	342	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	340	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.7	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0430

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+6.60E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.50E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+3.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-4.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+3.00E-06	-1.50E-06
8	Gamma Bkg	CPM	STANDBY	-4.10E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.50E-03
1	Part - Beta	uCi/cc*	STANDBY	+1.20E-09	_____
3	I-131	uCi/cc*	STANDBY	+4.00E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 04:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WS 33A	0051	00900	0011	0050	00			
WS 33B	0056	00910	0012	0052	00			
WS150A	0050	01000	0022	0060	00			
WS150B	0052	01100	0023	0061	02			
WS 250	0060	01000	0010	0055	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0342	03000	0332	0352	0072	0020	0064	00
WD 33B	0341	03010	0331	0351	0071	0021	0063	00
WD150A	0341	03100	0331	0352	0045	0022	0062	00
WD150B	0341	03000	0331	0354	0035	0023	0060	02
WD 250	0342	03000	0332	0355	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0701	00	TER33B	0701	00	TE150A	0711	
TE150B	0712	00	TE250A	0731	00	TE250B	0731	
DT150A	0011	00	DT150B	0011	00	DT250A	0030	
DT250B	0030							
DEW 33	0475		TEG 33	0602	00			
RAIN	0058							

Time: 0445

Message: 25X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Emergency Coordinator

Simulated Plant Conditions:

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

Declare a SITE AREA EMERGENCY in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Natural Phenomenom being Experienced; plant not in Cold Shutdown and earthquake greater than .2g as determined by developing accelograph film.

FOR CONTROLLER USE ONLY

Controller Notes:

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

Actions Expected:

Time: 0445

Message: 26

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in the Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data reflects unit in a Controlled Shutdown.

Actions Expected:

1) TSC may send a Repair Team out to finish maintenance on the turbine driven auxiliary feedwater pump.

1987 EVALUATED EXERCISE Time: 0445

MAJOR PARAMETERS

Reactor Power Level 249 MWE/745 MWT
Reactor Shutdown Yes/(No)

NIS N-41 49% N-43 49%
NIS N-42 49% N-44 49%
RCS Pressure 2235 psig
RCS Temperature TAvg 560 oF
CHG.(FI-128) 0 GPM
Pressurizer Level 34 %
LTN.(FI-134) excess LTDN. In Service GPM
Containment Pressure 0.3 psig
1A S/G Level 53 %
1B S/G Level 52 %
RVLIS 100 %
1A S/G Pressure 880 psig
1B S/G Pressure 885 psig
*CET 574 oF
Sump A Level 2.0 feet
Sump B Level 0 inches
A RCP (Running)/Stopped
B RCP (Running)/Stopped

Containment Isolation Yes/(No)

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator (Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps
FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/STBY/(OOS)

RWST Level = 95 %
Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)
NaOH Tank Level = 95 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS
PostAccident 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 55 psig
Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %
Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/STBY/(OOS)

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (AVERAGE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0445

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.5E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.8E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.0E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	6.5E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	8.1E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	5.3E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.4E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	4.9E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	73.2	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	70.2	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	345	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	345	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0445

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	+6.80E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+3.90E-04	N/A
4	Bkg I	CPM	STANDBY	+3.50E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+3.40E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.00E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+3.40E-06	-1.50E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.50E-03
1	Part - Beta	uCi/cc*	STANDBY	+2.00E-09	_____
3	I-131	uCi/cc*	STANDBY	+4.20E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 04:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0031	00900	0011	0050	00
WS 33B	0032	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0030	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0345	03000	0341	0350	0072	0020	0064	00
WD 33B	0342	03010	0330	0350	0071	0021	0063	00
WD150A	0341	03100	0331	0351	0045	0022	0062	00
WD150B	0344	03000	0340	0350	0035	0023	0060	02
WD 250	0346	03000	0330	0351	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0702	00	TER33B	0702	00	TE150A	0722	
TE150B	0722	00	TE250A	0725	00	TE250B	0725	
DT150A	0020	00	DT150B	0020	00	DT250A	0023	
DT250B	0023							
DEW 33	0475		TEG 33	0602	00			
RAIN	0059							

Time: 0445

Message: 27x

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: OSC Team investigating Bus 14-16 Tie Breaker on Bus 16 failure to close.

Simulated Plant Conditions:

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

The Tie Breaker indicated physical damage and must be changed out.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver verbally when the team has made appropriate investigations.

2) Repairs cannot be successful until after 1130 hours.

Actions Expected:

1) Notify Control Room/OSC and continue repair efforts.

Time: 0445-0515

Message: 27.5x

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Emergency Coordinator

Simulated Plant Conditions:

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

FOR CONTROLLER USE ONLY

When accountability of site personnel is complete and non-essential people have been identified, the Emergency Coordinator should call the Wayne County EOC stating that ___ persons are to be evacuated from the site. He should request information on road conditions or traffic impediments and the acceptable routes. If transportation is required, he should request it at this time.

Deliver this message verbally if the Emergency Coordinator has not made this call within approximately 30 minutes of accountability.

Controller Notes:

TSC Controller should ensure that this call is completed even in the event that no personnel are to be evacuated.

Time: 0500

Message: 28X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: OSC Team sent out to finish maintenance on turbine driven auxiliary feedwater pump

Simulated Plant Conditions:

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

The thrust bearing and thrust bearing cooler need to be installed plus line-up and coupling of pump and turbine.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver verbally when team has made appropriate investigations.

2) Repairs cannot be successful until after 1600 hours.

Actions Expected:

1) Notify Control Room/OSC and continue repair efforts if it is decided to do so.

Time: 0500

Message: 29

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Alarms received in the Control Room:

o E-31 (Containment Recirc. Fan Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data sheets reflect continuing reactor shutdown.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0500

MAJOR PARAMETERS

Reactor Power Level	224 MWE/668 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41 44% N-43 44%		
NIS N-42 44% N-44 44%		
RCS Pressure	2245	psig
RCS Temperature TAVG	559	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	33	%
LTN. (FI-134) excess LTDN.	IN Service	GPM
Containment Pressure	0.3	psig
1A S/G Level	53	%
1B S/G Level	52	%
RVLIS	100	%
1A S/G Pressure	895	psig
1B S/G Pressure	900	psig
*CET	572	oF
Sump A Level	2.2	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	
Containment Isolation	Yes/(No)	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (AVERAGE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0500

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.5E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.8E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.0E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	7.1E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	8.6E+2	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	5.5E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.9E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.0E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	73.6	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	70.5	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	350	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	350	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.5	GOOD	MPH

SPING MONITOR SHEETS

Time: 0500

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading (R-12A) PLANT VENT	(R-14A) AIR EJECTOR	(R-15A)
1	Part - Beta	uCi	STANDBY	-7.00E-04	N/A	
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A	
3	I-131	uCi	STANDBY	+3.90E-04	N/A	
4	Bkg I	CPM	STANDBY	+3.50E+01	N/A	
5	Noble Gas-Low	uCi/cc	STANDBY	-3.40E-06	3.70E-06	
6	Area Monitor	MR/H	1.00E-01	-5.00E-02	1.00E-03	
7	Noble Gas-Mid	uCi/cc	STANDBY	+3.40E-06	-1.50E-06	
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01	
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.50E-03	
1	Part - Beta	uCi/cc*	STANDBY	+2.00E-09	_____	
3	I-131	uCi/cc*	STANDBY	+4.20E-10	_____	

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 05:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0061	00800	0021	0050	00
WS 33B	0062	00910	0022	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0060	01000	0010	0075	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0350	03000	0340	0359	0072	0020	0064	00
WD 33B	0351	03010	0340	0359	0071	0021	0063	00
WD150A	0352	03100	0340	0000	0045	0022	0062	00
WD150B	0352	03000	0339	0001	0035	0023	0060	02
WD 250	0353	03000	0343	0002	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0705	00	TER33B	0705	00	TE150A	0725	
TE150B	0725	00	TE250A	0736	00	TE250B	0736	
DT150A	0020	00	DT150B	0020	00	DT250A	0031	
DT250B	0031							
DEW 33	0480		TEG 33	0602	00			
RAIN	0059							

Time: 0515

Message: 30

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

Indications in the Control Room:

- The Containment Recirculation Fan Cooler condensate collectors on fans 1A and 1D are needing dumping more often.

Alarms received in the Control Room:

- E-31 (Containment Recirc. Fran Condensate Hi-Hi Level)

FOR CONTROLLER USE ONLY

Controller Notes:

1) The above message indicated that the "A" S/G weld crack is worsening.

2) The EOF, JENC, and Engineering Support Center should be nearing operational status.

3) Data sheets reflect continuing Reactor Shutdown.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0515

MAJOR PARAMETERS

Reactor Power Level	198 MWE/593 MWT	
Reactor Shutdown	Yes/(No)	
NIS N-41	39%	
NIS N-43	39%	
NIS N-42	39%	
NIS N-44	39%	
RCS Pressure	2245	psig
RCS Temperature TAVG	557	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	31	%
LTN. (FI-134) excess LTDN.	IN Service	GPM
Containment Pressure	0.35	psig
1A S/G Level	54	%
1B S/G Level	52	%
RVLIS	100	%
1A S/G Pressure	895	psig
1B S/G Pressure	910	psig
*CET	568	oF
Sump A Level	2.0	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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 SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)

RWST Level = 95 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS

PostAccident 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 55 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (AVERAGE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0515

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.5E+1	GOOD	MR/H
R03	AREA 3-RADIO CHEM LAB	1.9E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	1.8E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	5.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.2E+1	GOOD	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	5.2E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	7.9E+4	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+3	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	6.4E+5	HALM	CPM
R12	CONTAINMENT GAS MONITOR	6.1E+5	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	2.3E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.3E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	8.0E-1	GOOD	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	9.0E-1	GOOD	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.0E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	74.7	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	71.6	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	15	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	16	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.3	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH

SPING MONITOR SHEETS

Time: 0515

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	-7.40E-04	N/A
2	Part - Alpha	CPM	STANDBY	-1.90E+01	N/A
3	I-131	uCi	STANDBY	+4.00E+01	N/A
4	Bkg I	CPM	STANDBY	+3.60E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-3.90E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.20E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+4.00E-06	-1.50E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.50E-03
1	Part - Beta	uCi/cc*	STANDBY	+2.50E-09	_____
3	I-131	uCi/cc*	STANDBY	+4.70E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.00E-02	mR/hr
(R-32): "B" Steam Line Rad Monitor	+1.00E-02	mR/hr

Time: 05:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0042	00900	0011	0050	00
WS 33B	0043	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0042	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0350	03000	0340	0000	0072	0020	0064	00
WD 33B	0349	03010	0340	0001	0071	0021	0063	00
WD150A	0350	03100	0341	0000	0045	0022	0062	00
WD150B	0350	03000	0340	0002	0035	0023	0060	02
WD 250	0359	03000	0340	0010	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0715	00	TER33B	0715	00	TE150A	0735	
TE150B	0735	00	TE250A	0745	00	TE250B	0745	
DT150A	0200	00	DT150B	0200	00	DT250A	0030	
DT250B	0030							
DEW 33	0480		TEG 33	0602	00			
RAIN	0059							

Time: 0530

Message: 31

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

ALARMS received in Control Room:
- D-19 (Pressurizer low pressure SI 1750 psig)
- D-21 (Steam Line Loop A Lo-Lo pressure 514 psi)
- D-20 (Pressurizer low pressure trip 1873 psi)
- D-28 (Containment pressure 4 psi)

Indications in the Control Room include:
- Containment Isolation is normal
- 2 Control Rods indicate full out, all other Control Rods fully inserted

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FOR CONTROLLER USE ONLY

Controller Notes:

1) The "A" S/G steam line severs where it exits the S/G.

2) Containment spray initiates but there are no pumps available. (1A inoperable due to initial condition, 1B inoperable due to Bus #16 outage).

3) There is no 12% Boric Acid injection (MOV-826B inoperable due to initial condition, MOV-826D inoperable due to Bus #16 outage).

4) The core returns to power and a large amount of the fuels gap and fuel pellet activity is released.

5) The pressure housings on the Control Rods that are stuck out were the source of the initial condition unidentified RCS leak.

6) Containment Radiation levels increasing rapidly as shown by data sheets.

7) There is no offsite radiation release at this time.

Actions Expected:

1) Control Room operators take immediate actions in accordance with E-0.

1987 EVALUATED EXERCISE · Time: 0530

MAJOR PARAMETERS

Reactor Power Level 0 MWE/ 0 MWT
Reactor Shutdown (Yes)/No

NIS N-41 0 N-43 0
NIS N-42 0 N-44 0

RCS Pressure	1700	psig
RCS Temperature T_{Avg}	540	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	20	psig
1A S/G Level	0	%
1B S/G Level	0	%
RVLIS	100	%
1A S/G Pressure	500	psig
1B S/G Pressure	960	psig
*CET	600	oF
Sump A Level	3.5	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator Energized/(Deenergized)

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 SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626 200 GPM

1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS
PostAccident 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 50 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE).

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0530

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	8.8E+3	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	2.5E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	2.5E+2	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	9.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	1.1E+4	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.1E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	6.0E+2	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.1E+3	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	3.0E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.5E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.8E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	9.0E+0	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	1.0E+1	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.5E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	74.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	72.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	21.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	22.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	7.2	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH

SPING MONITOR SHEETS

Time: 0530

CHANNEL #	TYPE	UNITS	CONTAINMENT (R-12A)	Current Reading PLANT VENT (R-14A)	AIR EJECTOR (R-15A)
1	Part - Beta	uCi	STANDBY	-7.80E-04	N/A
2	Part - Alpha	CPM	STANDBY	-2.00E+01	N/A
3	I-131	uCi	STANDBY	+4.00E-04	N/A
4	Bkg I	CPM	STANDBY	+3.60E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-3.90E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.20E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+4.20E-06	-1.60E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.50E-03
1	Part - Beta	uCi/cc*	STANDBY	+3.50E-09	_____
3	I-131	uCi/cc*	STANDBY	+5.0E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.00E-02	mR/hr
(R-32): "B" Steam Line Rad Monitor	+1.00E-02	mR/hr

Time: 05:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0050	00900	0011	0060	00
WS 33B	0050	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0063	01000	0010	0070	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0015	03000	0005	0025	0072	0020	0064	00
WD 33B	0016	03010	0005	0025	0071	0021	0063	00
WD150A	0017	03100	0007	0027	0045	0022	0062	00
WD150B	0018	03000	0008	0028	0035	0023	0060	02
WD 250	0016	03000	0006	0026	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0716	00	TER33B	0716	00	TE150A	0736	
TE150B	0736	00	TE250A	0747	00	TE250B	0747	
DT150A	0020	00	DT150B	0020	00	DT250A	0031	
DT250B	0031							
DEW 33	0436		TEG 33	0602	00			
RAIN	0060							

Time: 0531

Message: 31.5

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Data sheet indicates core uncovering and core exit thermocouples greater than 700 degrees F.

Actions Expected:

1987 EVALUATED EXERCISE Time: 0531

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 988	MWT
Reactor Shutdown	Yes/(No)	
NIS N-41 65% N-43 65%		
NIS N-42 65% N-44 65%		
RCS Pressure	750	psig
RCS Temperature Tc	450	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	43	psig
1A S/G Level	0	%
1B S/G Level	0	%
RVLIS	46	%
1A S/G Pressure	132	psig
1B S/G Pressure	800	psig
*CET	900	oF
Sump A Level	5	feet
Sump B Level	0	inches
A RCP	(Running)/Stopped	
B RCP	(Running)/Stopped	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator (Energized)/Deenergized

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 SAFEGUARDS

High Head S. I. Pumps

FI-924 280 GPM
FI-925 210 GPM
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. (InServ)/STBY/OOS
BAST Level = 55 %

Low Head S. I. Pumps

FI-626 200 GPM
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

RWST Level = 95 %

Containment Spray Pumps

FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS
PostAccident 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 50 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0533

Message: 31.7

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

1987 EVALUATED EXERCISE Time: 0533

MAJOR PARAMETERS

Reactor Power Level	0 MWE/836	MWT
Reactor Shutdown	Yes/(No)	
NIS N-41 55% N-43 55%		
NIS N-42 55% N-44 55%		
RCS Pressure	1000	psig
RCS Temperature Tc	470	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	5	%
LTN.(FI-134)	0	GPM
Containment Pressure	57	psig
1A S/G Level	0	%
1B S/G Level	0	%
RVLIS	32	%
1A S/G Pressure	57	psig
1B S/G Pressure	840	psig
*CET	1300	oF
Sump A Level	5.2	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps
FI-924 250 GPM
FI-925 200 GPM
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. (InServ)/STBY/OOS
BAST Level = 55 %

Low Head S. I. Pumps
FI-626 200 GPM
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

RWST Level = 94 %

Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS

PostAccident 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 50 psig

Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/STBY/(OOS)

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0535

Message: 32

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheet

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) See attached Emergency Operating procedures E-0 and FR-S.1 for Control Room conditions status information.

Actions Expected:

1) A GENERAL EMERGENCY should be declared in accordance with SC-100; "Ginna Station Event Evaluation and Classification," EAL: Loss of Engineered Safety Features; Inability to Shutdown the Reactor which results in core damage with indications of containment pressure increasing rapidly and reactor remains at power after reactor trip initiates, (i.e. power range indication) or EAL: Containment System; failed fuel indicated by sampling of containment atmosphere and containment pressure 30 psig and increasing or Shift Supervisors opinion containment may be breached.

2) Implement SC-204, "GENERAL EMERGENCY".
   a. Make an immediate protective action. Recommendation in accordance with SC-240, "Protective Action Recommendations."
   b. Make notifications.

3) Assess and monitor plant conditions. Update offsite agencies at least every 30 minutes and whenever there are significant changes to plant status.

1987 EVALUATED EXERCISE Time: 0535

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT		
Reactor Shutdown	(Yes)/No		
NIS	N-31: 0	N-35 2.5×10^{-9} Amps	
NIS	N-32: 0	N-36 2.5×10^{-9} Amps	
RCS Pressure	1700	psig	
RCS Temperature	500	oF	
CHG.(FI-128)	0	GPM	
Pressurizer Level	37	%	
LTN.(FI-134)	0	GPM	
Containment Pressure	55	psig	
1A S/G Level	0	%	
1B S/G Level	8	%	
RVLIS	100	%	
1A S/G Pressure	55	psig	
1B S/G Pressure	700	psig	
*CET	650	oF	
Sump A Level	5.2	feet	
Sump B Level	0	inches	
A RCP	Running/(Stopped)		
B RCP	Running/(Stopped)		
Containment Isolation	(Yes)/No		

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13/14/15/17/18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	94 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0545

Message: 33

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

1) Operations stabalizes the plant using Emergency Operating Procedures.

2) Operations transfers the flow from the "A" MDAFWP from the "A" S/G to the "B" S/G.

1987 EVALUATED EXERCISE Time: 0545

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS N-31	10^4 cps	
NIS N-32	10^4 cps	
NIS N-35	5×10^{-11} amps	
NIS N-36	5×10^{-11} Amps	
RCS Pressure	2080	psig
RCS Temperature Tc	510	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	50	%
LTN.(FI-134)	0	GPM
Containment Pressure	54	psig
1A S/G Level	0	%
1B S/G Level	10	%
RVLIS	100	%
1A S/G Pressure	54	psig
1B S/G Pressure	710	psig
*CET	530°F	oF
Sump A Level	5.5	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	94 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0545

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.1E+5	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	2.5E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	2.5E+2	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	9.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.0E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	1.2E+5	HALM	MR/H
R08	AREA 8-DRUMMING STATION	5.0E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	6.0E+2	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.2E+3	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	3.2E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.6E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	3.2E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.1E+2	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	1.2E+2	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.6E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	74.5	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	71.5	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	22.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	22.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.5	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH

SPING MONITOR SHEETS

Time: 0545

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) AIR EJECTOR
1	Part - Beta	uCi	STANDBY	-8.00E-04	N/A
2	Part - Alpha	CPM	STANDBY	-2.00E+01	N/A
3	I-131	uCi	STANDBY	+4.50E-04	N/A
4	Bkg I	CPM	STANDBY	+3.60E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-5.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.20E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+5.00E-06	-1.70E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.70E-03
1	Part - Beta	uCi/cc*	STANDBY	+3.50E-09	_____
3	I-131	uCi/cc*	STANDBY	+5.10E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.00E-02	mR/hr
(R-32): "B" Steam Line Rad Monitor	+1.00E-02	mR/hr

Time: 05:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0071	00900	0015	0080	00
WS 33B	0062	00910	0012	0072	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0070	01000	0010	0085	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0020	03000	0010	0030	0072	0020	0064	00
WD 33B	0021	03010	0011	0031	0071	0021	0063	00
WD150A	0020	03100	0010	0030	0045	0022	0062	00
WD150B	0020	03000	0010	0030	0035	0023	0060	02
WD 250	0019	03000	0010	0032	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0720	00	TER33B	0720	00	TE150A	0740	
TE150B	0741	00	TE250A	0755	00	TE250B	0750	
DT150A	0020	00	DT150B	0020	00	DT250A	0035	
DT250B	0030							
DEW 33	0485		TEG 33	0602	00			
RAIN	0060							

Time: 0550

Message: 34X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: TSC or EOF

Simulated Plant Conditions:

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

A GENERAL EMERGENCY should be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification," EAL: Loss of engineered safety features; Inability to Shutdown the reactor which results in core damage with indications of containment pressure increasing rapidly and reactor remains at power after reactor trip initiated, (i.e. power range indication) or EAL: Containment Systems; failed fuel indicated by sampling of containment atmosphere and containment pressure 30 psig and increasing or Shift Supervisors opinion containment may be breached.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver if a GENERAL EMERGENCY has not yet been declared. Do not deliver if Emergency Classifications discussions are in progress.

Actions Expected:

Time: 0600

Message: 35

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) The Plant is fairly stable from the steam break accident but containment pressure remains high due to no spray pumps operable and only two containment fan coolers operating.

Actions Expected:

1) Operations continues to stabalize plant using Emergency Operating procedures.

2) Dose Assessment projecting doses and making recommendations as needed.

1987 EVALUATED EXERCISE Time: 0600

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 3×10^2 cps	N-35 $< 10^{-11}$ AMPS
NIS	N-32: 3×10^2 cps	N-36 $< 10^{-11}$ AMPS
RCS Pressure	1800	psig
RCS Temperature Tc	510	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	51	%
LTN.(FI-134)	0	GPM
Containment Pressure	40	psig
1A S/G Level	0	%
1B S/G Level	6	%
RVLIS	100	%
1A S/G Pressure	40	psig
1B S/G Pressure	700	psig
*CET	530	oF
Sump A Level	5.5	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18) Energized/(16) Deenergized
Turbine Generator	Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

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 = 55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)

RWST Level = 94 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS

PostAccident 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 50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE).

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0600

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.2E+5	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	2.5E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	2.5E+2	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	9.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.2E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.6E+5	HALM	MR/H
R08	AREA 8-DRUMMING STATION	5.0E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	6.0E+2	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.3E+3	GOOD	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	3.4E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.6E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	3.3E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	2.2E+2	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.4E+2	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.2E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.6E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	75.5	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	72.3	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	23.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	23.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.2	GOOD	MPH

2/6

SPING MONITOR SHEETS

Time: 0600

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	-8.20E-04	N/A
2	Part - Alpha	CPM	STANDBY	-2.10E+01	N/A
3	I-131	uCi	STANDBY	+5.50E-04	N/A
4	Bkg I	CPM	STANDBY	+3.70E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-6.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.20E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+6.00E-06	-1.70E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.65E-03
1	Part - Beta	uCi/cc*	STANDBY	+3.70E-09	_____
3	I-131	uCi/cc*	STANDBY	+5.10E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 06:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0059	00700	0011	0070	00
WS 33B	0060	00910	0012	0082	00
WS150A	0049	01000	0022	0060	00
WS150B	0044	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0020	03000	0010	0030	0072	0020	0064	00
WD 33B	0021	03010	0011	0031	0071	0021	0063	00
WD150A	0022	03100	0012	0032	0045	0022	0062	00
WD150B	0021	03000	0010	0012	0035	0023	0060	02
WD 250	0023	03000	0010	0012	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0720	00	TER33B	0720	00	TE150A	0745	
TE150B	0745	00	TE250A	0755	00	TE250B	0755	
DT150A	0025	00	DT150B	0025	00	DT250A	0035	
DT250B	0035							
DEW 33	0485		TEG 33	0602	00			
RAIN	0060							

Time: 0615

Message: 36

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

1987 EVALUATED EXERCISE Time: 0615

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31 $3X10^2$ cps	N-35 $<10^{-11}$ Amps
NIS	N-32 $3X10^2$ cps	N-36 $<10^{-11}$ Amps
RCS Pressure	1700	psig
RCS Temperature Tc	510	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	52	%
LTN.(FI-134)	0	GPM
Containment Pressure	32	psig
1A S/G Level	0	%
1B S/G Level	8	%
RVLIS	100	%
1A S/G Pressure	32	psig
1B S/G Pressure	750	psig
*CET	530	oF
Sump A Level	5.6	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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	18 feet

ENGINEERED SAFEGUARDS

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 =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/STBY/(OOS)

RWST Level = 94 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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 50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0615

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	3.1E+5	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	2.5E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	2.5E+2	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	9.0E+0	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	1.3E+1	GOOD	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.7E+5	HALM	MR/H
R08	AREA 8-DRUMMING STATION	5.0E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	6.0E+2	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.4E+3	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	3.6E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	5.7E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	4.0E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	3.1E+2	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	3.4E+2	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	1.3E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+1	GOOD	MR/H
R35	AREA 35-PASS SAMPLE PANEL	1.7E-1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	22.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	21.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.2	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0615

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	-8.40E-04	N/A
2	Part - Alpha	CPM	STANDBY	-2.10E+01	N/A
3	I-131	uCi	STANDBY	+5.70E-04	N/A
4	Bkg I	CPM	STANDBY	+3.70E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	-7.00E-06	3.70E-06
6	Area Monitor	MR/H	1.00E-01	-5.20E-02	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+7.00E-06	-1.70E-06
8	Gamma Bkg	CPM	STANDBY	-4.20E-02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.70E-03
1	Part - Beta	uCi/cc*	STANDBY	+4.00E-09	_____
3	I-131	uCi/cc*	STANDBY	+5.30E-10	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 06:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0041	00900	0011	0050	00
WS 33B	0042	00910	0012	0052	00
WS150A	0045	01000	0022	0060	00
WS150B	0043	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0022	03000	0012	0032	0072	0020	0064	00
WD 33B	0021	03010	0010	0031	0071	0021	0063	00
WD150A	0020	03100	0010	0030	0045	0022	0062	00
WD150B	0021	03000	0009	0031	0035	0023	0060	02
WD 250	0022	03000	0010	0032	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0730	00	TER33B	0730	00	TE150A	0750	
TE150B	0750	00	TE250A	0760	00	TE250B	0760	
DT150A	0020	00	DT150B	0020	00	DT250A	0030	
DT250B	0030							
DEW 33	0486		TEG 33	0602	00			
RAIN	0061							

Time: 0630

Message: 37

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

The Station experiences a severe aftershock from the earthquake.

Indications in the Control Room include:

- o RCS pressure rapidly decreasing.
- o Containment vessel pressure and radiation levels start increasing.

FOR CONTROLLER USE ONLY

Controller Notes:

1) There is no offsite radiation release at this point.

2) The Control Rod pressure housings that have been leaking sever causing a LOCA.

Actions Expected:

1) Safety injection should be initiated automatically or manually again.

2) Operators take actions as described in Emergency Procedures E-0 and E-1.

1987 EVALUATED EXERCISE Time: 0630

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: $3X10^2$ cps	N-35 $<10^{-11}$ AMPS
NIS	N-32: $3X10^2$ cps	N-36 $<10^{-11}$ AMPS
RCS Pressure	900	psig
RCS Temperature Tc	570	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	33	psig
1A S/G Level	0	%
1B S/G Level	0	%
RVLIS	100	%
1A S/G Pressure	33	psig
1B S/G Pressure	750	psig
*CET	530	oF
Sump A Level	11	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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	17.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	225 GPM
FI-925	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	94 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0630

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	1.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	4.4E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	2.5E+2	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	3.5E+1	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	5.3E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	5.0E+0	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	6.0E+2	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.7E+3	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	4.5E+3	GOOD	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	7.0E+2	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+1	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+1	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	9.0E+2	GOOD	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	4.7E+3	GOOD	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	2.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	4.0E+3	GOOD	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	4.4E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	4.8E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.5E+1	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	1.7E+0	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	3.3E+0	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	75.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.0	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0630

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading (R-12A) PLANT VENT	(R-14A) AIR EJECTOR	(R-15A)
1	Part - Beta	uCi	STANDBY	-9.20E-04	N/A	
2	Part - Alpha	CPM	STANDBY	-3.00E+01	N/A	
3	I-131	uCi	STANDBY	+9.00E-04	N/A	
4	Bkg I	CPM	STANDBY	+3.90E+01	N/A	
5	Noble Gas-Low	uCi/cc	STANDBY	-1.00E-05	3.70E-06	
6	Area Monitor	MR/H	1.00E-01	-5.60E-02	1.00E-03	
7	Noble Gas-Mid	uCi/cc	STANDBY	-1.00E-05	-1.80E-06	
8	Gamma Bkg	CPM	STANDBY	-4.90E-02	1.00E+01	
9	Noble Gas-High	uCi/cc	STANDBY	+1.30E-03	-1.80E-03	
1	Part - Beta	uCi/cc*	STANDBY	+5.00E-09	_____	
3	I-131	uCi/cc*	STANDBY	+1.00E-09	_____	

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 06:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0059	00800	0031	0080	00
WS 33B	0060	00910	0042	0082	00
WS150A	0050	01000	0022	0060	00
WS150B	0052	01100	0023	0061	02
WS 250	0060	01000	0010	0075	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0019	0039	0072	0020	0064	00
WD 33B	0030	03010	0020	0038	0071	0021	0063	00
WD150A	0031	03100	0021	0040	0045	0022	0062	00
WD150B	0030	03000	0020	0040	0035	0023	0060	02
WD 250	0029	03000	0019	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0730	00	TER33B	0730	00	TE150A	0740	
TE150B	0740	00	TE250A	0750	00	TE250B	0750	
DT150A	0010	00	DT150B	0010	00	DT250A	0020	
DT250B	0022							
DEW 33	0486		TEG 33	0602	00			
RAIN	0062							

Time: 0635

Message: 38

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) There is no offsite radiation release at this point.

2) Containment pressure and radiation levels building up.

Actions Expected:

1) Operations continue with Emergency Procedures to mitigate the LOCA.

1987 EVALUATED EXERCISE Time: 0635

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: $2X10^2$ cps	N-35 $<10^{-11}$ Amps
NIS	N-32: $2X10^2$ cps	N-36 $<10^{-11}$ Amps
RCS Pressure	530	psig
RCS Temperature T_c	450	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	0	%
LTN. (FI-134)	0	GPM
Containment Pressure	45	psig
1A S/G Level	0	%
1B S/G Level	12	%
RVLIS	100	%
1A S/G Pressure	45	psig
1B S/G Pressure	750	psig
*CET	475	oF
Sump A Level	13	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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	17.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	340 GPM
FI-925	260 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	93 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0640

Message: 39

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) There is no offsite radiation release at this point.

Actions Expected:

1) Operations continue with Emerency Procedures to midigate the LOCA.

1987 EVALUATED EXERCISE Time: 0640

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 10^2 cps	N-35 $< 10^{-11}$ AMPS
NIS	N-32: 10^2 cps	N-36 $< 10^{-11}$ Amps
RCS Pressure	245	psig
RCS Temperature Tc	380	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	0	%
LTN. (FI-134)	0	GPM
Containment Pressure	47	psig
1A S/G Level	0	%
1B S/G Level	28	%
RVLIS	100	%
1A S/G Pressure	47	psig
1B S/G Pressure	720	psig
*CET	405	oF
Sump A Level	15	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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	17 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	200 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
RWST Level =	92 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0645

Message: 40

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

ALARMS received in Control Room:
- o L-10 (Aux. Building sump pump auto start)
- o L-9 (Aux. Building sump hi level)
- o J-9 (Safeguard breaker trip)

Indications in Control Room include:
- o "A" RHR pump breaker indication shows white disagreement light lite
- o R-13 and R-14 on High Alarm.

FOR CONTROLLER USE ONLY

Controller Notes:

1) If Operators attempt to restart "A" RHR pump, it will not start at this time.

2) If Operators check the Auxiliary Building sump pump switches on back of board, both sump pumps indicate they have trip. If attempts are made to restart them, they will not start at this time.

3) Plant vent monitors (see attached sheet) indicate rapid increases of radiation levels.

4) A major release to the Environment begins.
Release path: Containment through "B" RHR suction line out the plant vent.

Actions Expected:

1) Efforts should be underway to track the plume, terminate the release, and implement/coordinate PARs.

1987 EVALUATED EXERCISE Time: 0645

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8x10^1 cps	N-35 < 10^-11 Amps
NIS	N-32: 8x10^1 cps	N-36 < 10^-11 Amps
RCS Pressure	245	psig
RCS Temperature Tc	380	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	45	psig
1A S/G Level	0	%
1B S/G Level	54	%
RVLIS	100	%
1A S/G Pressure	45	psig
1B S/G Pressure	540	psig
*CET	405	oF
Sump A Level	17	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized
480 V Buses (13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator Energized/(Deenergized)

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 17 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps
FI-924 400 GPM
FI-925 300 GPM
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. (InServ)/STBY/OOS
BAST Level = 55 %

Low Head S. I. Pumps
FI-626 0 GPM

1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)

RWST Level = 89 %

Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/STBY/(OOS)

NaOH Tank Level = 93 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)
1C. InServ/STBY/(OOS)
1D. (InServ)/STBY/OOS

PostAccident 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 50 psig

Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/STBY/(OOS)

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps
1C. InServ/STBY/OOS
1D. InServ/STBY/(OOS)

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0645

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	4.4E+6	HALH	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALH	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALH	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALH	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	5.3E+6	HALH	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALH	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALH	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALH	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALH	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALH	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALH	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALH	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALH	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+2	HALH	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALH	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALH	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALH	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	4.4E+3	HALH	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	4.8E+3	HALH	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALH	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALH	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.0E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.0E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	75.2	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.2	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0645

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT (R-12A)	AIR EJECTOR (R-14A) (R-15A)
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.47E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+02	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	-4.00E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.11E+01	-1.80E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor	+1.50E+00	mR/hr
(R-32): "B" Steam Line Rad Monitor	+8.00E-01	mR/hr

Time: 06:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0060	00900	0019	0080	00
WS 33B	0060	00910	0012	0082	00
WS150A	0048	01000	0022	0060	00
WS150B	0047	01100	0023	0061	02
WS 250	0060	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0019	0040	0072	0020	0064	00
WD 33B	0029	03010	0020	0040	0071	0021	0063	00
WD150A	0028	03100	0021	0039	0045	0022	0062	00
WD150B	0028	03000	0022	0041	0035	0023	0060	02
WD 250	0029	03000	0020	0042	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0732	00	TER33B	0732	00	TE150A	0752	
TE150B	0752	00	TE250A	0762	00	TE250B	0762	
DT150A	0020	00	DT150B	0020	00	DT250A	0030	
DT250B	0030							
DEW 33	0496		TEG 33	0602	00			
RAIN	0063							

Time: 0700

Message: 41

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Release will continue until 0800 hours.

Actions Expected:

1) Efforts are underway to track the plume, terminate the release and implement/coordinate PARs.

2) TSC and Control Room should decide to close MOV-851A in an attempt to isolate the leak from containment. It will close when they attempt it. MOV-851B will not close because it has no electrical power (Bus 16 and MCC-1D have no electrical power). All other lines, from containment, in the RHR sub-basement, isolated with containment isolation.

1987 EVALUATED EXERCISE · Time: 0700

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	Yes/No	
NIS N-31:	8 X 10^1 CPS	N-35 < 10^-11 AMPS
NIS N-32:	8 X 10^1 CPS	N-36 < 10^-11 AMPS
RCS Pressure	235	psig
RCS Temperature	380	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	0	%
LTN. (FI-134)	0	GPM
Containment Pressure	40	psig
1A S/G Level	0	%
1B S/G Level	53	%
RVLIS	100	%
1A S/G Pressure	40	psig
1B S/G Pressure	450	psig
*CET	400	oF
Sump A Level	22.6	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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	17.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)
RWST Level =	87 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0700

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	3.8E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	4.6E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALM	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+2	HALM	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	3.8E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	4.2E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.0E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.0E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.3	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0700

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+2	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	+7.52E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.11E+01	-1.41E-03

1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.50E+00 mR/hr

(R-32): "B" Steam Line Rad Monitor +8.00E-01 mR/hr

Time: 07:00

'SILENT 700' COMPUTER.

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0061	00900	0011	0070	00
WS 33B	0062	00910	0012	0072	00
WS150A	0060	01000	0022	0060	00
WS150B	0052	01100	0023	0061	02
WS 250	0070	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0020	0040	0072	0020	0064	00
WD 33B	0029	03010	0020	0040	0071	0021	0063	00
WD150A	0028	03100	0021	0040	0045	0022	0062	00
WD150B	0029	03000	0022	0039	0035	0023	0060	02
WD 250	0030	03000	0020	0038	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0733	00	TER33B	0733	00	TE150A	0753	
TE150B	0753	00	TE250A	0764	00	TE250B	0764	
DT150A	0020	00	DT150B	0020	00	DT250A	0031	
DT250B	0031							
DEW 33	0496		TEG 33	0602	00			
RAIN	0063							

Time: 0715

Message: 42

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room .

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Release will continue until 0800 hours.

Actions Expected:

1) TSC and OSC should increase efforts to repair and return the "B" Emergency Diesel Generator to operation so they can close MOV-851B to terminate the release and start the "B" containment spray pump to reduce containment pressure.

2) Efforts are underway to track the plume, terminate the release and implement/coordinate PARs.

1987 EVALUATED EXERCISE Time: 0715

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31 8X10¹ CPS	N-35 <10⁻¹¹ Amps
NIS	N-32 8X10¹ CPS	N-36 <10⁻¹¹ Amps
RCS Pressure	230	psig
RCS Temperature Tc	380	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	30	psig
1A S/G Level	0	%
1B S/G Level	52	%
RVLIS	100	%
1A S/G Pressure	30	psig
1B S/G Pressure	450	psig
*CET	398	oF
Sump A Level	27.6	feet
Sump B Level	0	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	Energized/(Deenergized)

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	17.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)
RWST Level =	85 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0715

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	3.3E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.9E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALM	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.2E+2	HALM	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	3.3E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	3.6E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+1	HALM	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.0E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.0E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	76.1	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.4	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	39.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH

SPING MONITOR SHEETS

Time: 0715

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+02	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	+7.50E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.11E+01	-1.41E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.50E+00 mR/hr

(R-32): "B" Steam Line Rad Monitor +8.00E-01 mR/hr

Time: 07:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0057	00
WS 33B	0052	00910	0012	0059	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0060	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0030	03000	0020	0040	0072	0020	0064	00
WD 33B	0031	03010	0021	0041	0071	0021	0063	00
WD150A	0029	03100	0022	0042	0045	0022	0062	00
WD150B	0030	03000	0021	0041	0035	0023	0060	02
WD 250	0030	03000	0020	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0733	00	TER33B	0733	00	TE150A	0754	
TE150B	0754	00	TE250A	0763	00	TE250B	0763	
DT150A	0021	00	DT150B	0021	00	DT250A	0033	
DT250B	0033							
DEW 33	0496		TEG 33	0602	00			
RAIN	0064							

Time: 0730

Message: 43

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Release will continue until 0800 hours.

Actions Expected:

1) Repair on "B" Emergency Diesel Generator is nearing completion.

2) Plume tracking, implementing and coordinating PARs and release termination efforts continue.

1987 EVALUATED EXERCISE · Time: 0730

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8x10¹ cps	N-35 < 10⁻¹¹ Amps
NIS	N-32: 8x10¹ cps	N-36 < 10⁻¹¹ Amps
RCS Pressure	230	psig
RCS Temperature Tc	380	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	0	%
LTN. (FI-134)	0	GPM
Containment Pressure	25	psig
1A S/G Level	0	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	25	psig
1B S/G Pressure	450	psig
*CET	398	oF
Sump A Level	31	feet
Sump B Level	8	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18 Energized)/(16 Deenergized)
Turbine Generator	(Energized)/Deenergized

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	18 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)
RWST Level =	82 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0730

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.7E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	3.2E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALM	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.3E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.3E+2	HALM	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	2.7E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	3.2E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.0E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.1E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	76.2	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.2	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0730

CHANNEL #	TYPE	UNITS	CONTAINMENT (R-12A)	Current Reading PLANT VENT (R-14A)	AIR EJECTOR (R-15A)
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+02	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	+7.50E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.11E+01	-1.41E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.50E+00 mR/hr

(R-32): "B" Steam Line Rad Monitor +8.00E-01 mR/hr

Time: 07:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0049	00900	0011	0050	00
WS 33B	0049	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0019	0040	0072	0020	0064	00
WD 33B	0028	03010	0018	0040	0071	0021	0063	00
WD150A	0029	03100	0020	0039	0045	0022	0062	00
WD150B	0030	03000	0020	0040	0035	0023	0060	02
WD 250	0031	03000	0020	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0733	00	TER33B	0733	00	TE150A	0753	
TE150B	0753	00	TE250A	0765	00	TE250B	0765	
DT150A	0020	00	DT150B	0020	00	DT250A	0032	
DT250B	0032							
DEW 33	0506		TEG 33	0602	00			
RAIN	0064							

Time: 0745

Message: 44

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Release will continue until 0800 hours.

Actions Expected:

1) Repair on "B" Emergency Diesel Generator is almost completed.

2) Plume tracking, implementing and coordinating PARs and release termination efforts continue.

1987 EVALUATED EXERCISE Time: 0745

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8X10' cps	N-35 <10^-11 Amps
NIS	N-32: 8X10' cps	N-36 <10^-11 Amps
RCS Pressure	225	psig
RCS Temperature Tc	375	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	20	psig
1A S/G Level	0	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	20	psig
1B S/G Pressure	445	psig
*CET	397	oF
Sump A Level	31	feet
Sump B Level	8	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(13,14,15,17,18)/(16) Energized/Deenergized
Turbine Generator	Energized/(Deenergized)

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	18 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/STBY/(OOS)
RWST Level =	80 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
1C.	InServ/STBY/(OOS)
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/STBY/(OOS)
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0745

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	2.0E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.8E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALM	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+2	HALM	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	2.0E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.8E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	77.2	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	74.2	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH

SPING MONITOR SHEETS

Time: 0745

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+02	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	+7.50E-06
8	Gamma Bkg	CPM	STANDBY	1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.10E+01	-1.41E-03

1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.50E+00 mR/hr

(R-32): "B" Steam Line Rad Monitor +8.00E-01 mR/hr

Time: 07:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0059	00900	0022	0070	00
WS 33B	0059	00910	0032	0052	00
WS150A	0056	01000	0022	0060	00
WS150B	0052	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0030	03000	0021	0041	0072	0020	0064	00
WD 33B	0031	03010	0020	0041	0071	0021	0063	00
WD150A	0032	03100	0021	0040	0045	0022	0062	00
WD150B	0030	03000	0020	0041	0035	0023	0060	02
WD 250	0029	03000	0020	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0742	00	TER33B	0742	00	TE150A	0753	
TE150B	0753	00	TE250A	0765	00	TE250B	0765	
DT150A	0011	00	DT150B	0011	00	DT250A	0033	
DT250B	0033							
DEW 33	0506		TEG 33	0602	00			
RAIN	0065							

Time: 0750

Message: 45X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: OSC Team repairing 1B Emergency Diesel Generator

Simulated Plant Conditions:

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

The 1B Emergency Diesel Generator lube oil pump replacement is complete and Diesel is ready to be lined up for operation.

FOR CONTROLLER USE ONLY

Controller Notes:

1) Deliver verbally to OSC team.

2) 1B Diesel Generator to be tied to Bus 16 just before 0800 hours.

3) When MOV-851B is closed, the release to the environment is terminated.

Actions Expected:

1) Operations to tie 1B Emergency Diesel Generator to 480 volt Bus #16 energizing both Bus 16 an MCC-1D.

2) Operations to attempt to close MOV-851B. When attempt is made, MOV-851B will go closed.

Time: 0800

Message: 46

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) TSC and Control Room should talk about starting or not starting the 1B RHR pump due to the environmental problem in the RHR sub-basement area.

Actions Expected:

1) Operations should start needed equipment when Bus #16 returned to service (i.e. 1B containment spray pump, 1B, 1C containment fan coolers, 1B SI pump if needed, 1B auxiliary feedwater pump if needed, etc.).

2) Plume tracking, implementing and coordinating PARs continues.

1987 EVALUATED EXERCISE Time: 0800

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8x10' CPS	N-35 <10^-11 AMPS
NIS	N-32: 8x10' CPS	N-36 <10^-11 AMPS
RCS Pressure	225	psig
RCS Temperature Tc	375	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	20	psig
1A S/G Level	0	%
1B S/G Level	51	%
RVLIS	100	%
1A S/G Pressure	20	psig
1B S/G Pressure	445	psig
*CET	397	oF
Sump A Level	31	feet
Sump B Level	8	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	Energized/(Deenergized)

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	18.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	400 GPM
FI-925	300 GPM
1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/(STBY)/OOS
RWST Level =	77 %

Containment Spray Pumps

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

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
1C.	InServ/(STBY)/OOS
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0800

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.5E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	6.0E+4	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	7.0E+4	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.3E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+4	HALM	MR/H
R09	AREA 9-LETDOWN LINE	6.8E+4	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	1.0E+6	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	7.5E+2	HALM	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.5E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.3E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.7E+5	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.5E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	77.3	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	74.3	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.2	GOOD	MPH

SPING MONITOR SHEETS

Time: 0800

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.49E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	HIGH FAIL	3.70E-06
6	Area Monitor	MR/H	+3.00E+02	+3.00E+02	8.00E-02
7	Noble Gas-Mid	uCi/cc	STANDBY	+1.10E+01	+7.50E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+03	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+1.10E+01	-1.41E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.50E+00 mR/hr

(R-32): "B" Steam Line Rad Monitor +8.00E-01 mR/hr

Time: 08:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0060	00900	0011	0080	00
WS 33B	0042	00910	0012	0082	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0030	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0020	0039	0072	0020	0064	00
WD 33B	0030	03010	0020	0040	0071	0021	0063	00
WD150A	0031	03100	0020	0040	0045	0022	0062	00
WD150B	0029	03000	0021	0041	0035	0023	0060	02
WD 250	0029	03000	0022	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0743	00	TER33B	0743	00	TE150A	0753	
TE150B	0753	00	TE250A	0773	00	TE250B	0773	
DT150A	0010	00	DT150B	0010	00	DT250A	0030	
DT250B	0030							
DEW 33	0436		TEG 33	0602	00			
RAIN	0066							

Time: 0815

Message: 47

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) The release is terminated.

Actions Expected:

1) Plume tracking, implementing and coordinating PARs continues.

2) Plant continues to recover from the loss of coolant accident.

1987 EVALUATED EXERCISE Time: 0815

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31 8X10¹ CPS	N-35 <10⁻¹¹ Amps
NIS	N-32 8X10¹ CPS	N-36 <10⁻¹¹ Amps
RCS Pressure	225	psig
RCS Temperature Tc	375	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	18	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	18	psig
1B S/G Pressure	440	psig
*CET	397	oF
Sump A Level	31	feet
Sump B Level	78	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator Energized/(Deenergized)

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 18.5 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps
FI-924 400 GPM
FI-925 300 GPM
1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS
1C. (InServ)/STBY/OOS
BAST Level = 55 %

Low Head S. I. Pumps
FI-626 0 GPM
1A. InServ/STBY/(OOS)
1B. InServ/(STBY)/OOS

RWST Level = 75 %
Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. (InServ)/STBY/OOS
NaOH Tank Level = 92 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. (InServ)/STBY/OOS
PostAccident 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 50 psig
Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %
Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/(STBY)/OOS

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0815

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.5E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	3.0E+3	HALM	MR/H
R05	AREA 5-SPENT FUEL PIT	3.5E+3	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.3E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	2.0E+3	HALM	MR/H
R09	AREA 9-LETDOWN LINE	3.8E+3	HALM	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	3.0E+3	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	2.0E+2	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	1.0E+6	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.5E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.3E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	5.5E+0	HALM	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.0E+4	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.4E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	77.4	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	73.6	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.3	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH

SPING MONITOR SHEETS

Time: 0815

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+5.50E-05	3.70E-06
6	Area Monitor	MR/H	+5.00E+01	+6.00E+01	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+5.50E-05	+5.0E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+2.00E-03	-1.40E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 08:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0059	00
WS 33B	0042	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0030	03000	0020	0041	0072	0020	0064	00
WD 33B	0030	03010	0021	0042	0071	0021	0063	00
WD150A	0030	03100	0022	0043	0045	0022	0062	00
WD150B	0029	03000	0020	0041	0035	0023	0060	02
WD 250	0028	03000	0021	0040	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0736	00	TER33B	0736	00	TE150A	0756	
TE150B	0756	00	TE250A	0774	00	TE250B	0774	
DT150A	0020	00	DT150B	0020	00	DT250A	0038	
DT250B	0038							
DEW 33	0506		TEG 33	0602	00			
RAIN	0066							

Time: 0830

Message: 48

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) The release is terminated.

Actions Expected:

1) Plume tracking, implementing and coordinating PARs continues.

2) Plant continues to recover from the loss of coolant accident.

1987 EVALUATED EXERCISE Time: 0830

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31 8X10' cps	N-35 <10⁻¹¹ Amps
NIS	N-32 8X10' cps	N-36 <10⁻¹¹ Amps
RCS Pressure	215	psig
RCS Temperature Tc	374	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	10	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	10	psig
1B S/G Pressure	440	psig
*CET	384	oF
Sump A Level	31	feet
Sump B Level	113	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	450 GPM
FI-925	370 GPM
1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/(STBY)/OOS
RWST Level =	67 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	(InServ)/STBY/OOS
NaOH Tank Level =	85 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0830

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.5E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	9.0E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	7.5E+1	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.3E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	4.5E+1	HALM	MR/H
R09	AREA 9-LETDOWN LINE	1.0E+2	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	2.6E+3	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	2.0E+2	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	5.0E+5	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.5E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.2E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	4.0E+1	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	2.5E+2	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.0E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	77.8	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	74.9	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	32.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	31.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.2	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0830

CHANNEL #	TYPE	UNITS	(R-12A) CONTAINMENT	(R-14A) Current Reading PLANT VENT	(R-15A) Current Reading AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+5.10E-05	3.70E-06
6	Area Monitor	MR/H	+4.00E+01	+5.00E+01	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+5.10E-05	-7.52E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+2.00E-03	-1.41E-03
1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 08:30

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0059	00
WS 33B	0052	00910	0012	0059	00
WS150A	0040	01000	0022	0060	00
WS150B	0042	01100	0023	0061	02
WS 250	0060	01000	0010	0067	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0031	03000	0020	0040	0072	0020	0064	00
WD 33B	0032	03010	0020	0040	0071	0021	0063	00
WD150A	0031	03100	0020	0040	0045	0022	0062	00
WD150B	0031	03000	0020	0040	0035	0023	0060	02
WD 250	0031	03000	0020	0041	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0749	00	TER33B	0749	00	TE150A	0769	
TE150B	0769	00	TE250A	0779	00	TE250B	0779	
DT150A	0020	00	DT150B	0020	00	DT250A	0030	
DT250B	0030							
DEW 33	0506		TEG 33	0602	00			
RAIN	0067							

Time: 0845

Message: 49

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) TSC and OSC should evaluate an attempt to start "A" RHR pump again as it is the only pump available for the recirculation mode.

2) If and when the TSC decides to try the "A" RHR pump, the pump starts and runs ok.

Actions Expected:

1) TSC have Control Room attempt to start "A" RHR pump.

2) Plume tracking, implementing and coordinating PARs continues.

3) Plant continues to recover from loss of coolant accident.

1987 EVALUATED EXERCISE Time: 0845

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8X10¹ cps	N-35 <10⁻¹¹ Amps
NIS	N-32: 8X10¹ cps	N-36 <10⁻¹¹ Amps
RCS Pressure	210	psig
RCS Temperature Tc	364	oF
CHG.(FI-128)	0	GPM
Pressurizer Level	0	%
LTN.(FI-134)	0	GPM
Containment Pressure	5	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	5	psig
1B S/G Pressure	430	psig
*CET	374	oF
Sump A Level	31	feet
Sump B Level	113	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924	450 GPM
FI-925	370 GPM
1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS

BAST Level = 55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/STBY/(OOS)
1B.	InServ/(STBY)/OOS

RWST Level = 60 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	(InServ)/STBY/OOS

NaOH Tank Level = 80 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0845

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.5E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	9.0E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	6.5E+1	HALM	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.3E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	3.0E+1	HALM	MR/H
R09	AREA 9-LETDOWN LINE	1.0E+2	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	2.4E+3	HALM	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	2.0E+2	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	4.0E+5	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.5E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.2E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	4.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	2.3E+2	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.0E+0	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	77.9	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	75.2	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	30.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.3	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH

SPING MONITOR SHEETS

Time: 0845

(R-12A) (R-14A) (R-15A)

CHANNEL #	TYPE	UNITS	CONTAINMENT	Current Reading PLANT VENT	AIR EJECTOR
1	Part - Beta	uCi	STANDBY	HIGH FAIL	N/A
2	Part - Alpha	CPM	STANDBY	HIGH FAIL	N/A
3	I-131	uCi	STANDBY	HIGH FAIL	N/A
4	Bkg I	CPM	STANDBY	+3.48E+01	N/A
5	Noble Gas-Low	uCi/cc	STANDBY	+5.00E-05	3.70E-06
6	Area Monitor	MR/H	+4.00E+01	+5.00E+01	1.00E-03
7	Noble Gas-Mid	uCi/cc	STANDBY	+5.00E-05	5.00E-06
8	Gamma Bkg	CPM	STANDBY	+1.00E+02	1.00E+01
9	Noble Gas-High	uCi/cc	STANDBY	+2.00E-03	-1.40E-03

1	Part - Beta	uCi/cc*	STANDBY	HIGH FAIL	_____
3	I-131	uCi/cc*	STANDBY	HIGH FAIL	_____

* SPING CONSOLE PLACED IN "INTERPRETED MODE"

STEAM LINE MONITORS:

(R-31): "A" Steam Line Rad Monitor +1.00E-02 mR/hr

(R-32): "B" Steam Line Rad Monitor +1.00E-02 mR/hr

Time: 08:45

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0051	00900	0011	0055	00
WS 33B	0049	00910	0012	0052	00
WS150A	0040	01000	0022	0060	00
WS150B	0046	01100	0023	0061	02
WS 250	0050	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0030	03000	0020	0040	0072	0020	0064	00
WD 33B	0030	03010	0020	0040	0071	0021	0063	00
WD150A	0031	03100	0021	0042	0045	0022	0062	00
WD150B	0032	03000	0021	0042	0035	0023	0060	02
WD 250	0033	03000	0022	0043	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0753	00	TER33B	0753	00	TE150A	0774	
TE150B	0774	00	TE250A	0774	00	TE250B	0774	
DT150A	0021	00	DT150B	0021	00	DT250A	0021	
DT250B	0021							
DEW 33	0516		TEG 33	0602	00			
RAIN	0068							

Time: 0900

Message: 50

GINNA STATION
1987 EVALUATED EXERCISE
MESSAGE FORM

Message for: Control Room
Simulated Plant Conditions: See attached sheets
Message: ***THIS IS AN EXERCISE***

FOR CONTROLLER USE ONLY
Controller Notes:

1) Offsite radiation levels have significantly decreased due to plume passage. Downgrade discussions may commence. Recovery/re-entry discussions may commence.

Actions Expected:

1) The EOF and TSC should be discussing actions to cooldown and depressurize the Reactor coolant system. This could include the following:
   A) use of the RHR system
   B) continue with the injection mode and then switch over to recirculation mode when required.

   These discussions could conclude that a large amount of radioactive water will be brought into the Auxiliary Building using either of the above methods.
   These discussions could also conclude that it may be better to go on RHR as there are two RHR pumps available when on RHR but only one RHR pump available for the recirculation mode because of the break in the "B" RHR pump suction line from containment.

2) The EOF and TSC should be discussing bringing in and hooking up a spare transformer to place 480 volt Bus #16 back on offsite power to allow shuting down the "B" Emergency Diesel Generator.

3) The EOF and TSC should be discussing what inspections should be performed because of the earthquake, to ensure long term cooling of the core.

4) The Engineering Support Center should be calculating an estimate of the core damage involved.

5) As plant conditions improve the EOF and TSC should evaluate the possibility of reducing the classification per SC-110 (Ginna Station Event Evaluation for reducing the classification).

6) The EOF and TSC should be looking ahead to the long term recovery phase per step 3.16 of the Corporate Recovery Managers checklist.

1987 EVALUATED EXERCISE Time: 0900

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8X10^1 cps	N-35 < 10^-11 Amps
NIS	N-32: 8X10^1 cps	N-36 < 10^-11 Amps
RCS Pressure	200	psig
RCS Temperature Tc	354	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	5	%
LTN. (FI-134)	0	GPM
Containment Pressure	3	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	3	psig
1B S/G Pressure	425	psig
*CET	364	oF
Sump A Level	31	feet
Sump B Level	113	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	Energized/(Deenergized)

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 SAFEGUARDS

High Head S. I. Pumps

FI-924	450 GPM
FI-925	370 GPM
1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	52 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	(InServ)/STBY/OOS
NaOH Tank Level =	75 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

AREA RADIOLOGICAL AND METEOROLOGICAL DATA

TIME: 0900-1000

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
R01	AREA 1-CONTROL ROOM	2.0E-1	GOOD	MR/H
R02	AREA 2-CONTAINMENT	1.4E+6	HALM	MR/H
R03	AREA 3-RADIO CHEM LAB	3.0E-1	GOOD	MR/H
R04	AREA 4-CHARGING PUMP ROOM	7.0E+1	GOOD	MR/H
R05	AREA 5-SPENT FUEL PIT	2.0E+1	GOOD	MR/H
R06	AREA 6-NUCLEAR SAMPLE ROOM	5.0E+1	HALM	MR/H
R07	AREA 7-INCORE INSTRUMENTATION	2.0E+6	HALM	MR/H
R08	AREA 8-DRUMMING STATION	1.0E+1	GOOD	MR/H
R09	AREA 9-LETDOWN LINE	8.5E+1	GOOD	MR/H
R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+6	HALM	CPM
R10B	PLANT VENT IODINE MONITOR R10B	1.0E+6	HALM	CPM
R11	CONTAINMENT AIR PARTICULATE	1.0E+6	HALM	CPM
R12	CONTAINMENT GAS MONITOR	1.0E+6	HALM	CPM
R13	AUX BLDG EXHAUST AIR PARTICULATE	1.0E+6	HALM	CPM
R14	AUX BLDG EXHAUST GAS MONITOR	2.0E+3	GOOD	CPM
R15	CONDENSER AIR EJECTOR EXHAUST	5.2E+2	GOOD	CPM
R16	CV COOLING HX SERVICE WATER OUT	2.0E+2	GOOD	CPM
R17	COMPONENT COOLING PUMP SUCT HDR	1.0E+6	HALM	CPM
R18	LIQUID WASTE DISPOSAL MONITOR	2.0E+5	HALM	CPM
R19	STEAM GENERATOR BLOWDOWN DRAIN	5.0E+3	GOOD	CPM
R20	SPENT FUEL PIT HX SERV WATER OUT	1.0E+6	HALM	CPM
R29	AREA 29-CONTAINMENT HIGH RANGE	1.5E+3	HALM	R/HR
R30	AREA 30-CONTAINMENT HIGH RANGE	2.0E+3	HALM	R/HR
R33	AREA 33-HOT INTERMEDIATE BLDG	4.0E+0	GOOD	MR/H
R34	AREA 34-AUX BLDG CV SPRAY PUMP	1.5E+2	HALM	MR/H
R35	AREA 35-PASS SAMPLE PANEL	3.0E+1	GOOD	MR/H
R36	CONTROL ROOM NOBLE GAS MONITOR	3.2E+2	GOOD	CPM
R37	CONTROL ROOM PARTICULATE MONITOR	1.6E+3	GOOD	CPM
R38	CONTROL ROOM IODINE MONITOR	1.2E+0	GOOD	CPM
HVAC1	CONTROL ROOM CHLORINE ANALYZER	0.0075	GOOD	PPM
HVAC2	CONTROL ROOM AMMONIA ANALYZER	0.7763	GOOD	PPM
WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
WT033	33 FOOT LEVEL TEMPERATURE	75.5	GOOD	DEGF
WD250	250 FOOT LEVEL WIND DIRECTION	29.	GOOD	DEG.
WD033	33 FOOT LEVEL WIND DIRECTION	28.	GOOD	DEG.
WS250	250 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH

Time: 09:00 - 11:00

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0071	00900	0011	0090	00
WS 33B	0062	00910	0012	0082	00
WS150A	0050	01000	0022	0060	00
WS150B	0062	01100	0023	0071	02
WS 250	0060	01000	0010	0075	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0029	03000	0019	0040	0072	0020	0064	00
WD 33B	0029	03010	0019	0040	0071	0021	0063	00
WD150A	0028	03100	0018	0041	0045	0022	0062	00
WD150B	0028	03000	0019	0042	0035	0023	0060	02
WD 250	0028	03000	0020	0043	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0750	00	TER33B	0750	00	TE150A	0750	
TE150B	0750	00	TE250A	0760	00	TE250B	0760	
DT150A	0000	00	DT150B	0000	00	DT250A	0010	
DT250B	0010							
DEW 33	050		TEG 33	0602	00			
RAIN	0069							

Time: 0915

Message: 51

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Recovery/re-entry discussions continue.

Actions Expected:

1) The EOF and TSC should be discussing actions to cooldown and depressurize the Reactor coolant system. This could include the following:
   A) use of the RHR system
   B) continue with the injection mode and then switch over to recirculation mode when required.

   These discussions could conclude that a large amount of radioactive water will be brought into the Auxiliary Building using either of the above methods.
   These discussions could also conclude that it may be better to go on RHR as there are two RHR pumps available when on RHR but only one RHR pump available for the recirculation mode because of the break in the "B" RHR pump suction line from containment.

2) The EOF and TSC should be discussing bringing in and hooking up a spare transformer to place 480 volt Bus #16 back on offsite power to allow shuting down the "B" Emergency Diesel Generator.

3) The EOF and TSC should be discussing what inspections should be performed because of the earthquake, to ensure long term cooling of the core.

4) The Engineering Support Center should be calculating an estimate of the core damage involved.

5) As plant conditions improve the EOF and TSC should evaluate the possibility of reducing the classification per SC-110 (Ginna Station Event Evaluation for reducing the classification).

6) The EOF and TSC should be looking ahead to the long term recovery phase per step 3.16 of the Corporate Recovery Managers checklist.

1987 EVALUATED EXERCISE Time: 0915

MAJOR PARAMETERS

Reactor Power Level 0 MWE/ 0 MWT
Reactor Shutdown (Yes)/No

NIS N-31 8X10^1 cps N-35 <10^-11 Amps
NIS N-32 8X10^1 cps N-36 <10^-11 Amps
RCS Pressure 200 psig
RCS Temperature Tc 344 oF
CHG.(FI-128) 0 GPM
Pressurizer Level 15 %
LTN.(FI-134) 0 GPM
Containment Pressure 2 psig
1A S/G Level 0 %
1B S/G Level 50 %
RVLIS 100. %
1A S/G Pressure 0 psig
1B S/G Pressure 415 psig
*CET 354 oF
Sump A Level 31 feet
Sump B Level 113 inches
A RCP Running/(Stopped)
B RCP Running/(Stopped)

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator Energized/(Deenergized)

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 feet

ENGINEERED SAFEGUARDS

High Head S. I. Pumps

FI-924 450 GPM
FI-925 370 GPM
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
BAST Level = 55 %

Low Head S. I. Pumps

FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 45 %

Containment Spray Pumps

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

Containment Recirc Fans

1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. (InServ)/STBY/OOS
PostAccident 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 50 psig

Component Cooling Water Pumps

1A. (InServ)/STBY/OOS
1B. InServ/(STBY)/OOS

Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0930

Message: 52

GINNA STATION
1987 EVALUATED EXERCISE
MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets.

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

FOR CONTROLLER USE ONLY
Controller Notes:
1) Recovery/re-entry discussions continue.

Actions Expected:
1) The EOF and TSC should be discussing actions to cooldown and depressurize the reactor coolant system. This could involve the following:
   A) use of the RHR system
   B) continue with the injection mode and then switch over to recirculation mode when required.

   These discussions could conclude that a large amount of radioactive water will be brought into the Auxiliary Building using either of the above methods.
   These discussions could also conclude that it may be better to go on RHR as there are two RHR pumps available when on RHR but only one RHR pump available for the recirculation mode because of the break in the "B" RHR pump suction line from containment.

2) The EOF and TSC should be discussing bringing in and hooking up a spare transformer to place 480 volt Bus #16 back on offsite power to allow shuting down the "B" Emergency Diesel Generator.

3) The EOF and TSC should be discussing what inspections should be performed because of the earthquake, to ensure long term cooling of the core.

4) The Engineering Support Center should be calculating an estimate of the core damage involved.

5) As plant conditions improve the EOF and TSC should evaluate the possibility of reducing the classification per SC-110 (Ginna Station Event Evaluation for reducing the classification).

6) The EOF and TSC should be looking ahead to the long term recovery phase per step 3.16 of the Corporate Recovery Managers checklist.

1987 EVALUATED EXERCISE Time: 0930

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8X10^1 CPS	N-35 < 10^-11 Amps
NIS	N-32: 8X10^1 CPS	N-36 < 10^-11 Amps
RCS Pressure	200	psig
RCS Temperature Tc	334	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	25	%
LTN. (FI-134)	0	GPM
Containment Pressure	1	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	0	psig
1B S/G Pressure	405	psig
*CET	344	oF
Sump A Level	31	feet
Sump B Level	113	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	
Containment Isolation	(Yes)/No	

ELECTRICAL POWER

34.5 KV Bus	(Energized)/Deenergized
4 KV Buses	(Energized)/Deenergized
480 V Buses	(Energized)/Deenergized
Turbine Generator	Energized/(Deenergized)

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 SAFEGUARDS

High Head S. I. Pumps

FI-924	450 GPM
FI-925	370 GPM
1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
BAST Level =	55 %

Low Head S. I. Pumps

FI-626	0 GPM
1A.	InServ/(STBY)/OOS
1B.	InServ/(STBY)/OOS
RWST Level =	37 %

Containment Spray Pumps

FI-931A	0 GPM
FI-931B	0 GPM
1A.	InServ/STBY/(OOS)
1B.	(InServ)/STBY/OOS
NaOH Tank Level =	65 %

Containment Recirc Fans

1A.	(InServ)/STBY/OOS
1B.	(InServ)/STBY/OOS
1C.	(InServ)/STBY/OOS
1D.	(InServ)/STBY/OOS
PostAccident 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	50 psig

Component Cooling Water Pumps

1A.	(InServ)/STBY/OOS
1B.	InServ/(STBY)/OOS
Surge Tank Level =	52 %

Standby Aux. Feedwater Pumps

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

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Time: 0945

Message: 53

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See attached sheets

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

FOR CONTROLLER USE ONLY

Controller Notes:

1) Recovery/re-entry discussions continue.

Actions Expected:

1) The EOF and TSC should be discussing actions to cooldown and depressurize the Reactor coolant system. This could include the following:
   A) use of the RHR system
   B) continue with the injection mode and then switch over to recirculation made when required.

   These discussions could conclude that a large amount of radioactive water will be brought into the Auxiliary Building using either of the above methods.
   These discussions could also conclude that it may be better to go on RHR as there are two RHR pumps available when on RHR but only one RHR pump available for the recirculation mode because of the break in the "B" RHR pump suction line from containment.

2) The EOF and TSC should be discussing bringing in and hooking up a spare transformer to place 480 volt Bus #16 back on offsite power to allow shuting down the "B" Emergency Diesel Generator.

3) The EOF and TSC should be discussing what inspections should be performed because of the earthquake, to ensure long term cooling of the core.

4) The Engineering Support Center should be calculating an estimate of the core damage involved.

5) As plant conditions improve the EOF and TSC should evaluate the possibility of reducing the classification per SC-110 (Ginna Station Event Evaluation for reducing the classification).

6) The EOF and TSC should be looking ahead to the long term recovery phase per step 3.16 of the Corporate Recovery Managers checklist.

1987 EVALUATED EXERCISE Time: 0945

MAJOR PARAMETERS

Reactor Power Level	0 MWE/ 0 MWT	
Reactor Shutdown	(Yes)/No	
NIS	N-31: 8X10¹ CPS	N-35 < 10⁻¹¹ Amps
NIS	N-32: 8X10¹ CPS	N-36 < 10⁻¹¹ Amps
RCS Pressure	250	psig
RCS Temperature Tc	324	oF
CHG. (FI-128)	0	GPM
Pressurizer Level	51	%
LTN. (FI-134)	0	GPM
Containment Pressure	0.5	psig
1A S/G Level	0	%
1B S/G Level	50	%
RVLIS	100	%
1A S/G Pressure	0	psig
1B S/G Pressure	395	psig
*CET	334	oF
Sump A Level	31	feet
Sump B Level	113	inches
A RCP	Running/(Stopped)	
B RCP	Running/(Stopped)	

Containment Isolation (Yes)/No

ELECTRICAL POWER

34.5 KV Bus (Energized)/Deenergized
4 KV Buses (Energized)/Deenergized

480 V Buses (Energized)/Deenergized
Turbine Generator Energized/(Deenergized)

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 SAFEGUARDS

High Head S. I. Pumps
FI-924 450 GPM
FI-925 370 GPM
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
BAST Level = 53 %

Low Head S. I. Pumps
FI-626 0 GPM

1A. InServ/(STBY)/OOS
1B. InServ/(STBY)/OOS

RWST Level = 30 %
Containment Spray Pumps
FI-931A 0 GPM
FI-931B 0 GPM
1A. InServ/STBY/(OOS)
1B. (InServ)/STBY/OOS
NaOH Tank Level = 60 %

Containment Recirc Fans
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS
1C. (InServ)/STBY/OOS
1D. (InServ)/STBY/OOS
PostAccident 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 50 psig
Component Cooling Water Pumps
1A. (InServ)/STBY/OOS
1B. (InServ)/STBY/OOS

Surge Tank Level = 52 %
Standby Aux. Feedwater Pumps
1C. InServ/(STBY)/OOS
1D. InServ/(STBY)/OOS

*CET = PREDETERMINED CORE EXIT THERMOCOUPLES, (5 OR MORE)

Approximately
Time: 1000

Message: 54X

GINNA STATION

1987 EVALUATED EXERCISE

MESSAGE FORM

Message for: Emergency Coordinator and Recovery Manager

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 that the Plume Exposure Exercise is terminated.

2) Also announce that those participants who will be playing the Ingestion Pathway Exercise should remain.

SECTION 9.0

ONSITE RADIOLOGICAL AND CHEMISTRY DATA

SECTION 9.1

RADIOLOGICAL SUMMARY

9.1 Radiological Summary

A. Source Term

The radiological source term assumed for this scenario was selected to include sufficient radioiodine to achieve offsite deposition levels which exceed derived FDA Preventive and Emergency Protective Action Guides (PAG's) for soil, pasture grass and cow's milk. The Emergency PAG's for the milk pathway are exceeded out to approximately 12 miles downwind from the Ginna Plant. The Preventive PAG's for the milk pathway are exceeded out to approximately 30 miles downwind. Deposition radioactivity diminishes to background levels at or beyond 50 miles from the plant.

In addition, the postulated reactor accident is assumed to result in the release of particulates which also will ultimately enter various food and water pathways.

Immediate protective action recommendations (e.g., sheltering, evacuation) may not be necessarily based upon projected child thyroid dose, due to the predominence of release noble gas quantities. (SEE FIGURE 9.1). The noble gas-to-radioiodine ratioassumed in this scenario is approximately 3300:1. An isotopic breakdown of assumed noble gas, radioiodine and particulate release quantities is provided in Table 9.1.

B. Integrated Offsite Doses Due to Plume Exposure

The downwind integrated doses from the 1.25-hour scenario release are as follows:

Whole Body Dose (at 5 miles) = 1.28 REM

Child Thyroid Dose (at 5 miles) = 0.48 REM

TABLE 9.1

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

NUCLIDE	CURIE/SEC	TOTAL CURIES RELEASED
Kr-85	2.26 E-01	1.02 E+03
Kr-85m	2.40 E+01	1.08 E+05
Kr-87	4.00 E+01	1.80 E+05
Kr-88	6.00 E+01	2.70 E+05
Xe-131m	6.55 E-01	2.95 E+03
Xe-133	2.04 E+02	9.18 E+05
Xe-133m	3.20 E+01	1.44 E+05
Xe-135	4.00 E+01	1.80 E+05
Total Noble Gas	4.0 E+02	1.8 E+06
I-131	1.80 E-02	8.10 E+01
I-132	2.59 E-02	1.17 E+02
I-133	3.60 E-02	1.62 E+02
I-134	8.10 E-03	3.65 E+01
I-135	3.26 E-02	1.47 E+02
Total Iodines	1.2 E-01	5.4 E+02
Rb-88	6.00 E+01	2.70 E+05
Cs-134	4.32 E-05	1.94 E-01
Cs-137	1.98 E-05	8.91 E-02
Sr-89	4.68 E-08	2.11 E-04
Sr-90	4.32 E-08	1.94 E-04
Ba-140	1.01 E-06	4.54 E-03
La-140	1.01 E-06	4.54 E-03
Total Long-Lived Particulates	6.5 E-05	2.9 E-01

FIGURE 9.1

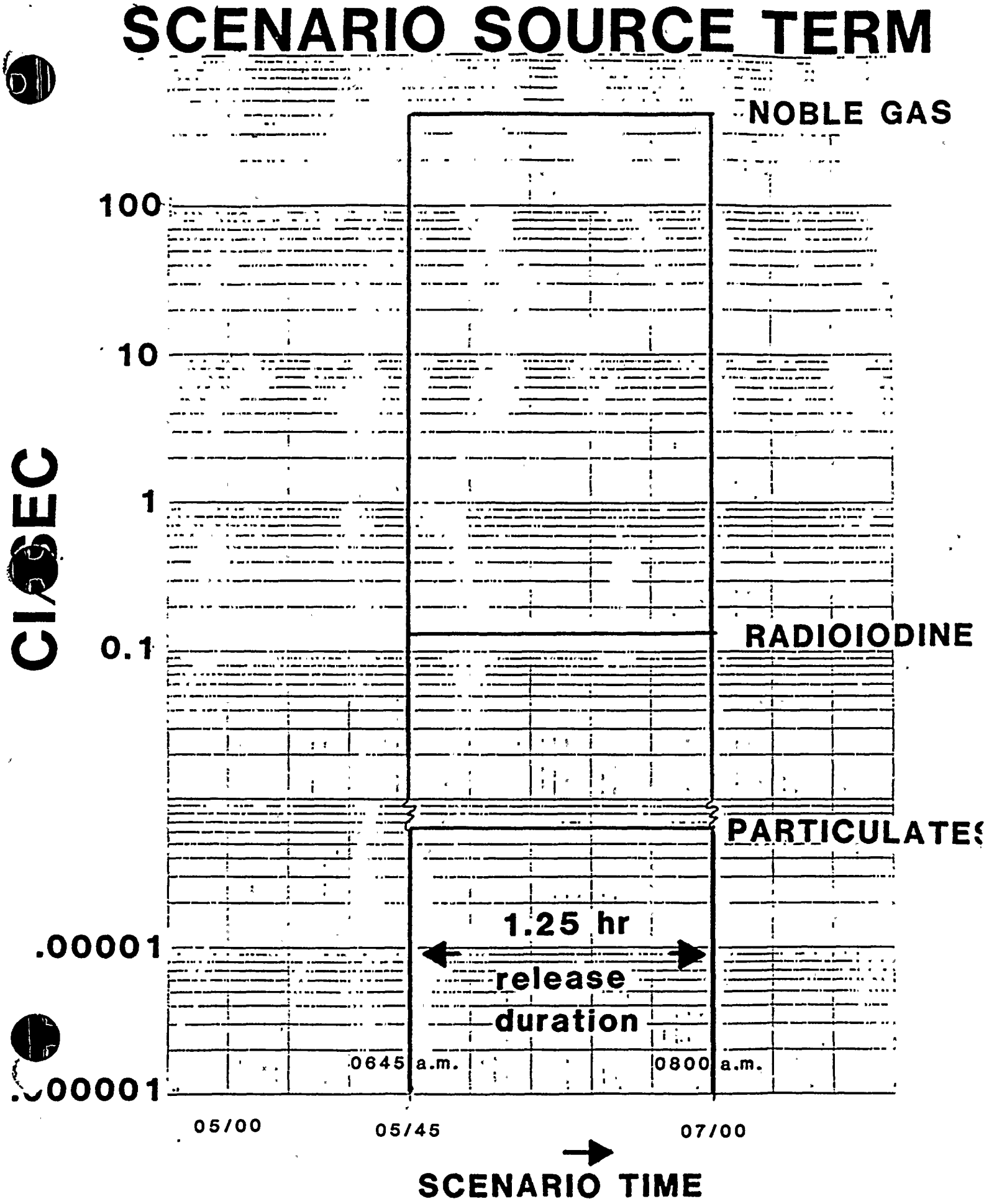

SCENARIO SOURCE TERM
NOBLE GAS
100
10
1
0.1
RADIOIODINE
PARTICULATES
.00001
.00001
CI/SEC
1.25 hr
release
duration
0645 a.m.
0800 a.m.
05/00
05/45
07/00
SCENARIO TIME

TABLE 9.2

PLANT VENT SAMPLE ANALYSIS

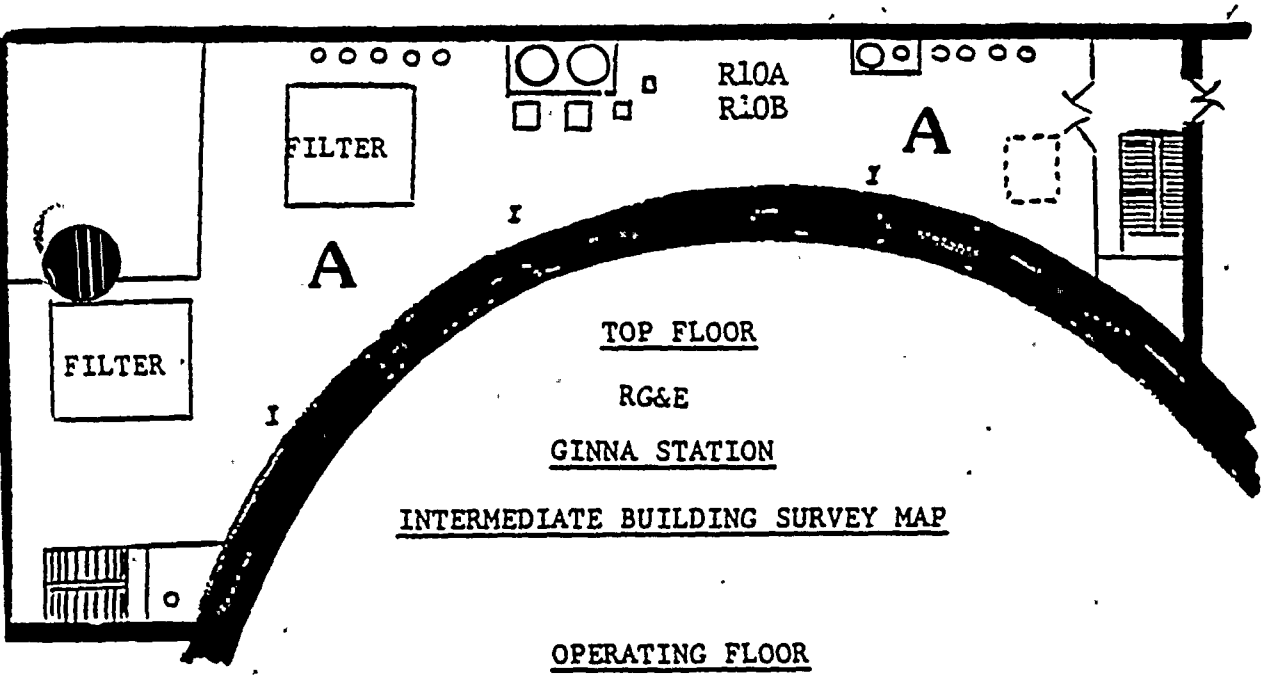
(T = 0645 - 0800)

NUCLIDE **	CONCENTRATION ** (UCI/CC)
KR-85	6.22 E-03
KR-85M	6.20 E-01
KR-87	1.14 E+00
KR-88	1.66 E+00
XE-131M	1.80 E-02
XE-133	5.68 E+00
XE-133M	8.29 E-01
XE-135	1.09 E+00
XE-135M	5.00 E-04
TOTAL NOBLE GAS	1.10 E+01
I-131	5.03 E-04
I-132	7.23 E-04
I-133	1.01 E-03
I-134	2.26 E-04
I-135	9.11 E-04
TOTAL RADIOIODINE	3.37 E-03
RB-88	1.66 E+00
CS-134	1.21 E-06
CS-137	5.53 E-07
Ba-140	2.82 E-08
La-140	2.80 E-08
TOTAL LONG LIVED PARTICULATE	1.82 E-06

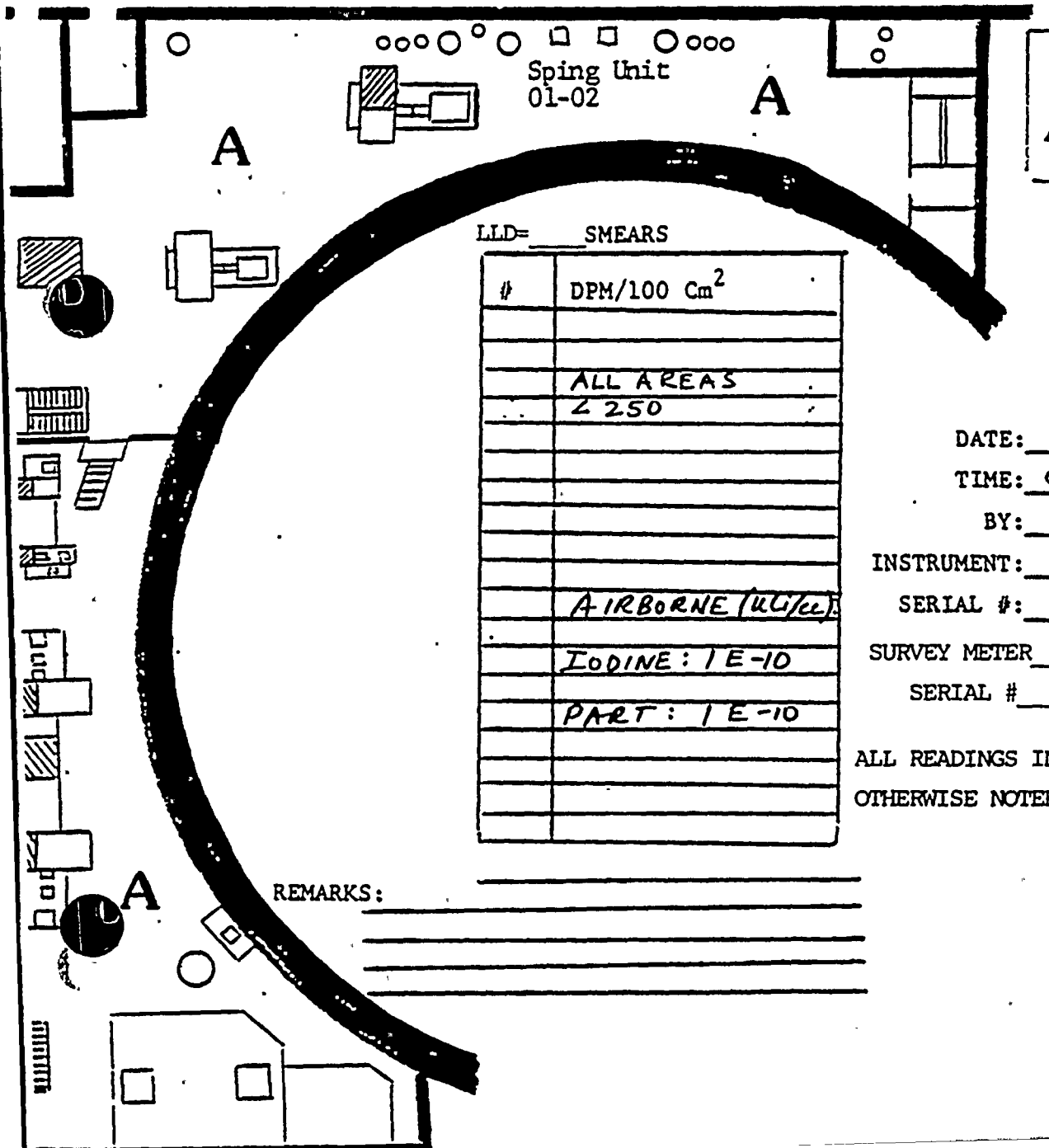
** Data to be provided to HP/Chemistry and Dose Assessment personnel in accordance with Exercise ground rules.

SECTION 9.2

IN-PLANT RADIOLOGICAL DATA MAPS



OPERATING FLOOR



A = 0.02 MR/HR

LLD= ___ SMEARS

#	DPM/100 Cm^2
	ALL AREAS
	< 250
	AIRBORNE (uCi/cc)
	IODINE: 1E-10
	PART: 1E-10

DATE: DAY 1

TIME: 0100-0530 HR

BY: _____

INSTRUMENT: _____

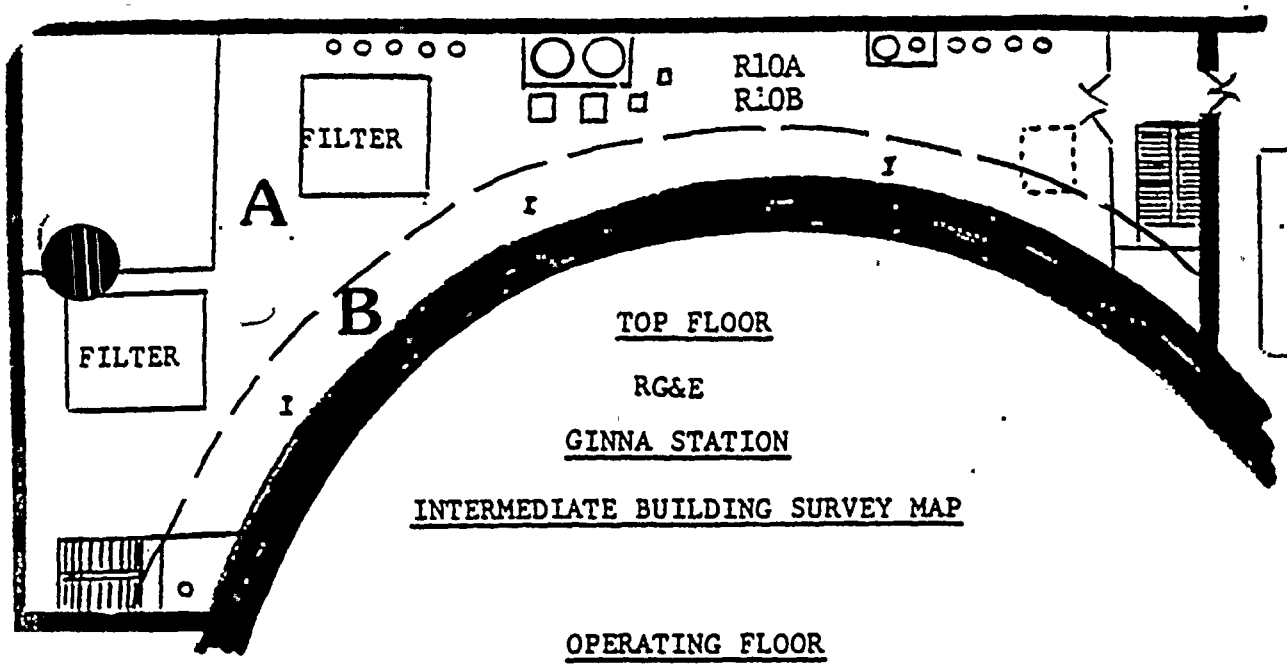
SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

REMARKS: _____



A = 0.3 MR/HR

B = 1.5 MR/HR

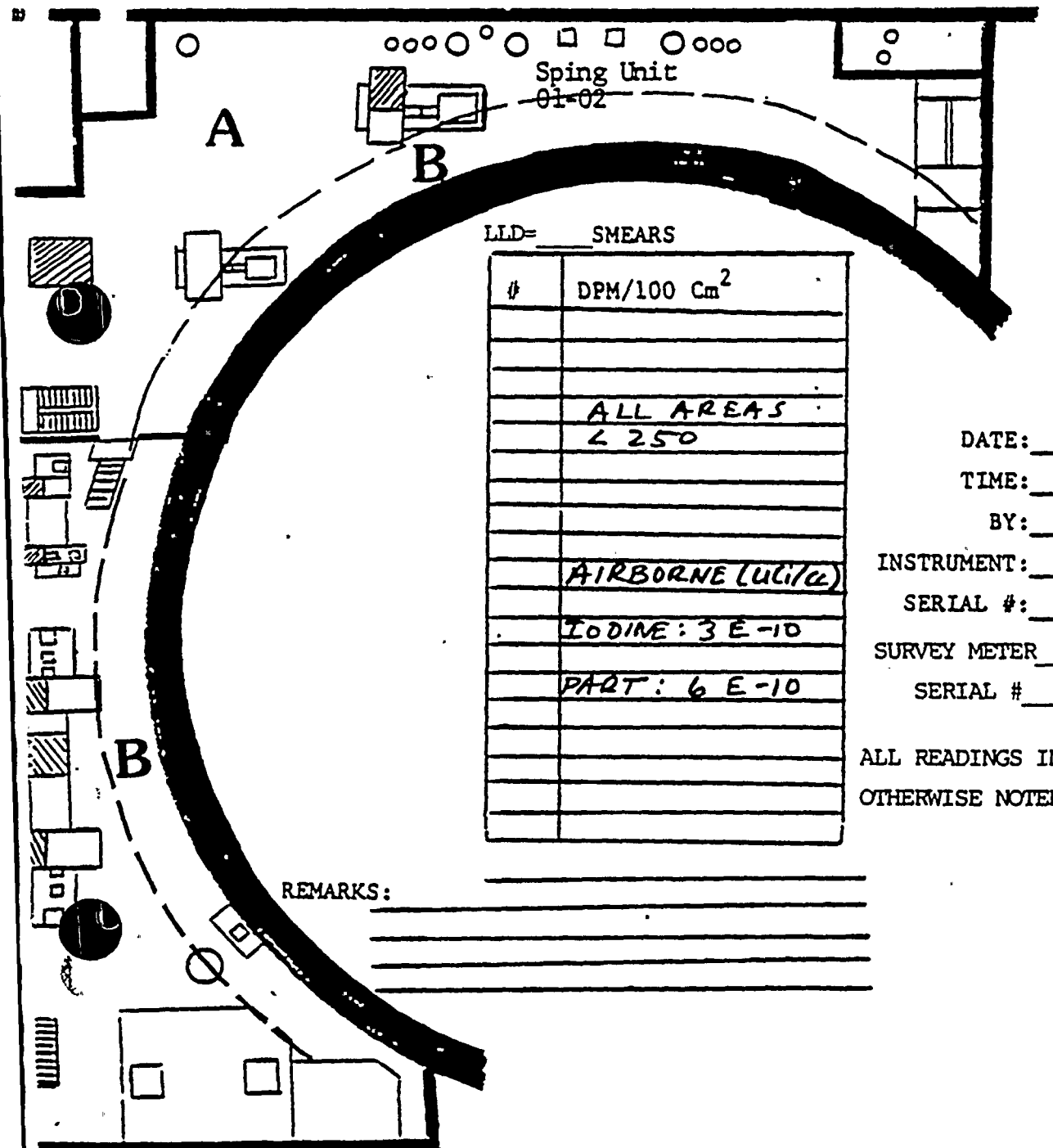
TOP FLOOR

RG&E

GINNA STATION

INTERMEDIATE BUILDING SURVEY MAP

OPERATING FLOOR



LLD= ___ SMEARS

#	DPM/100 Cm^2
	ALL AREAS
	< 250
	AIRBORNE (uCi/cc)
	IODINE: 3 E-10
	PART: 6 E-10

DATE: DAY 1

TIME: 0531-0645

BY: _____

INSTRUMENT: _____

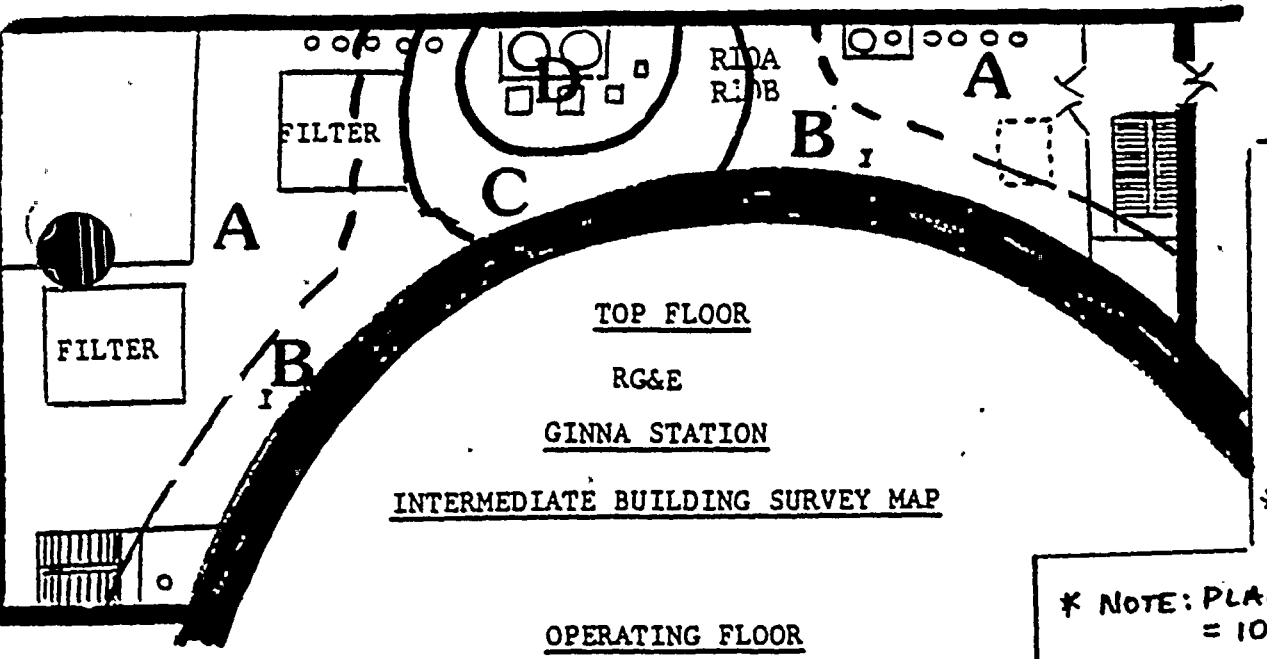
SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

REMARKS: _____



TOP FLOOR

RG&E

GINNA STATION

INTERMEDIATE BUILDING SURVEY MAP

A = 15MR/HR

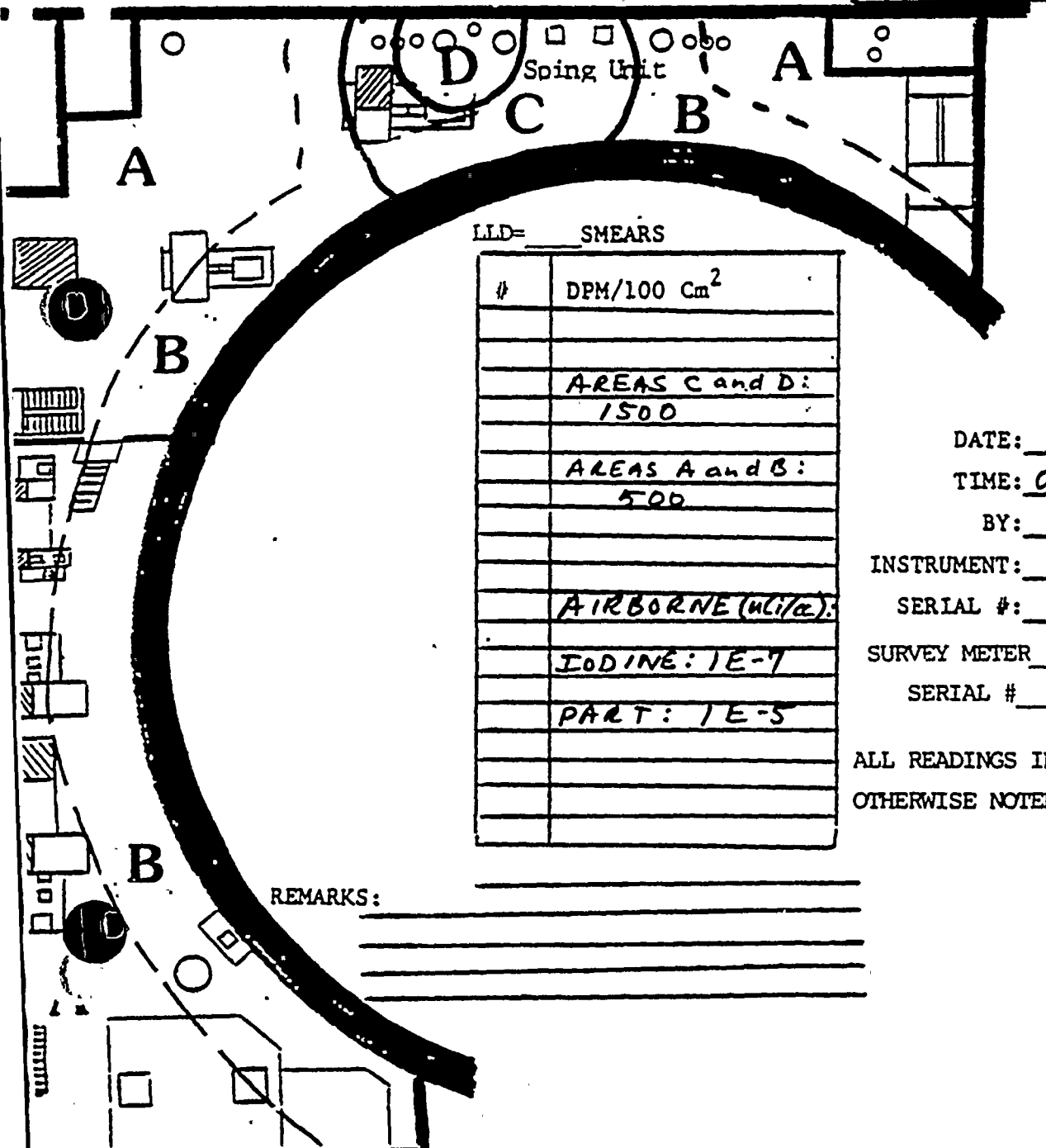
B = 25MR/HR

C = 300MR/HR

* D = 2500 MR/HR

* NOTE: PLANT VENT READING = 10,000 MR/HR @ 1 FT

OPERATING FLOOR



LLD=____SMEARS

#	DPM/100 Cm^2
	AREAS C and D:
	1500
	AREAS A and B:
	500
	AIRBORNE (uCi/cc):
	IODINE: 1E-7
	PART: 1E-5

DATE: DAY 1

TIME: 0646 - 0800

BY: _____

INSTRUMENT: _____

SERIAL #: _____

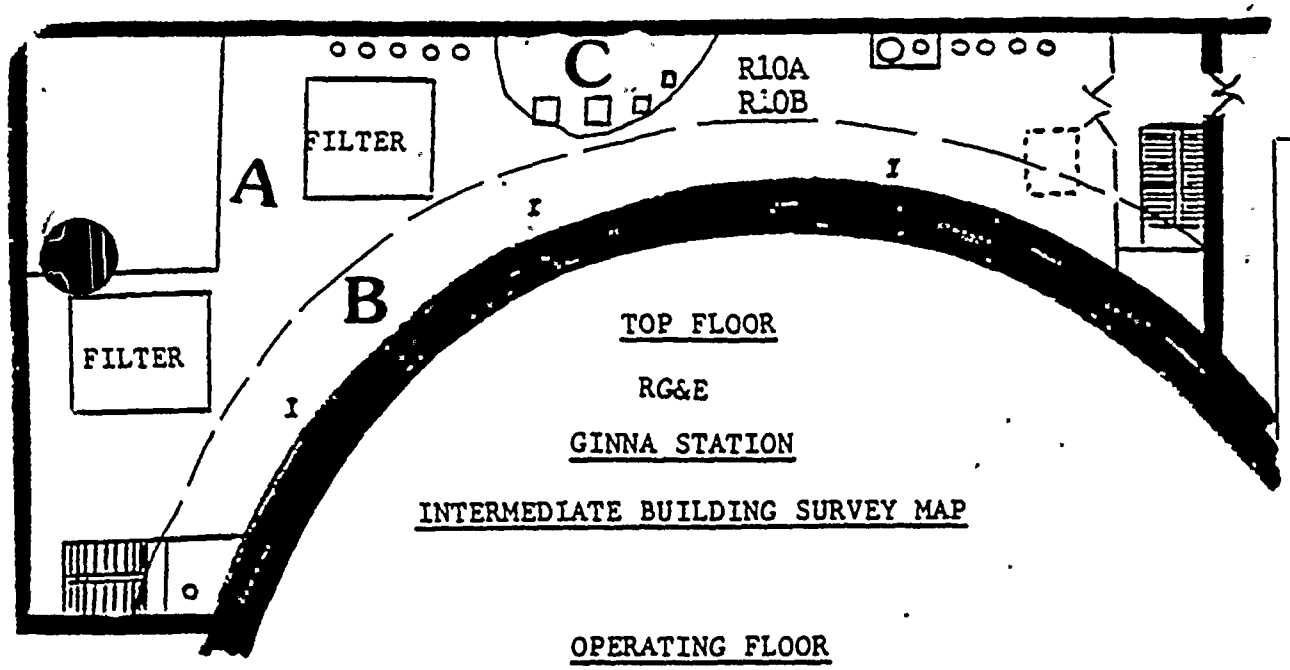
SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

REMARKS: _____

300



A = 5 MR/HR

B = 15 MR/HR

C = 40 MR/HR

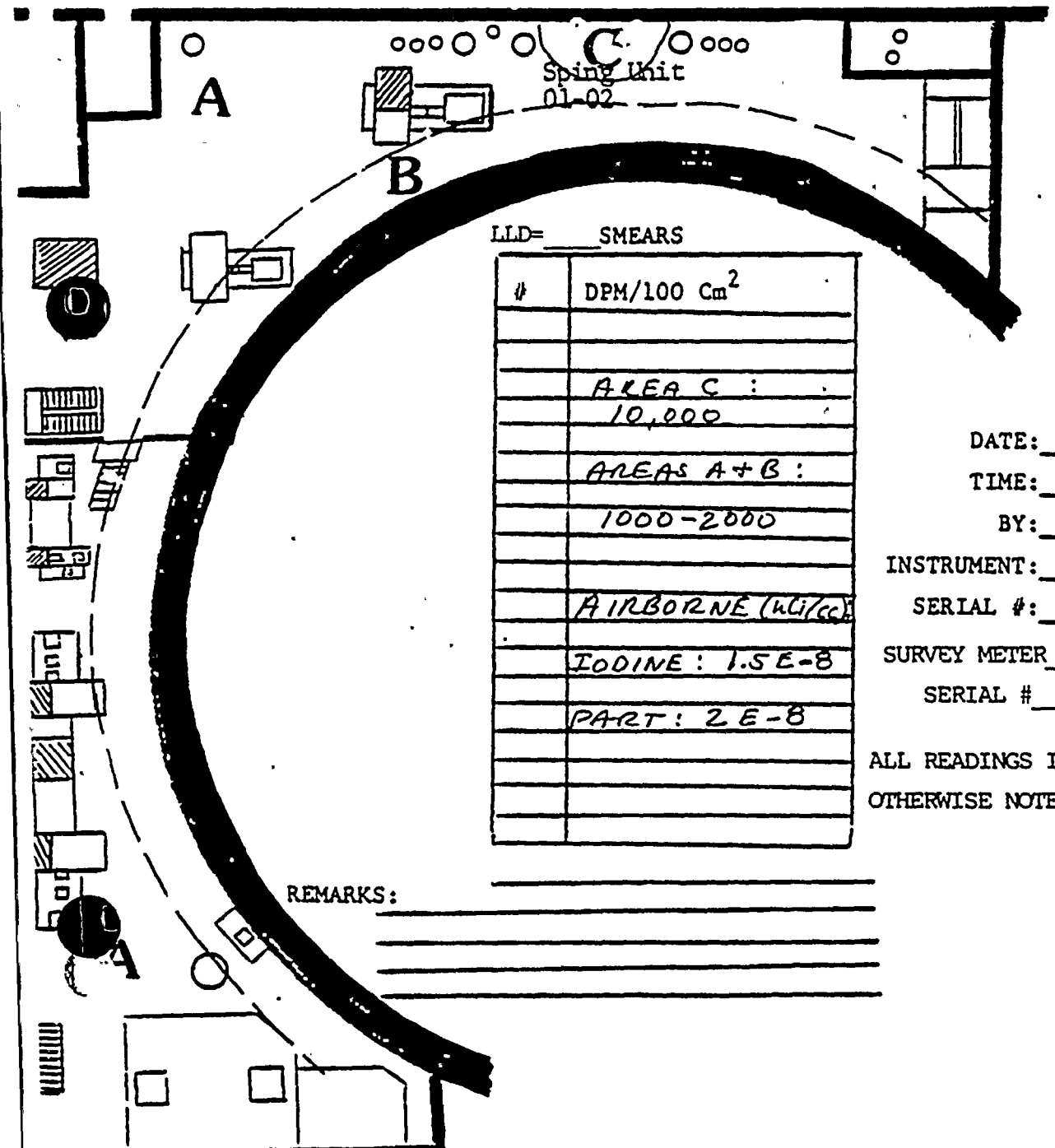
TOP FLOOR

RG&E

GINNA STATION

INTERMEDIATE BUILDING SURVEY MAP

OPERATING FLOOR



LLD= ___ SMEARS

#	DPM/100 Cm^2
	AREA C :
	10,000
	AREAS A+B :
	1000-2000
	AIRBORNE (uCi/cc)
	IODINE : 1.5E-8
	PART : 2E-8

DATE: DAY 1

TIME: 0801 – 1000

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

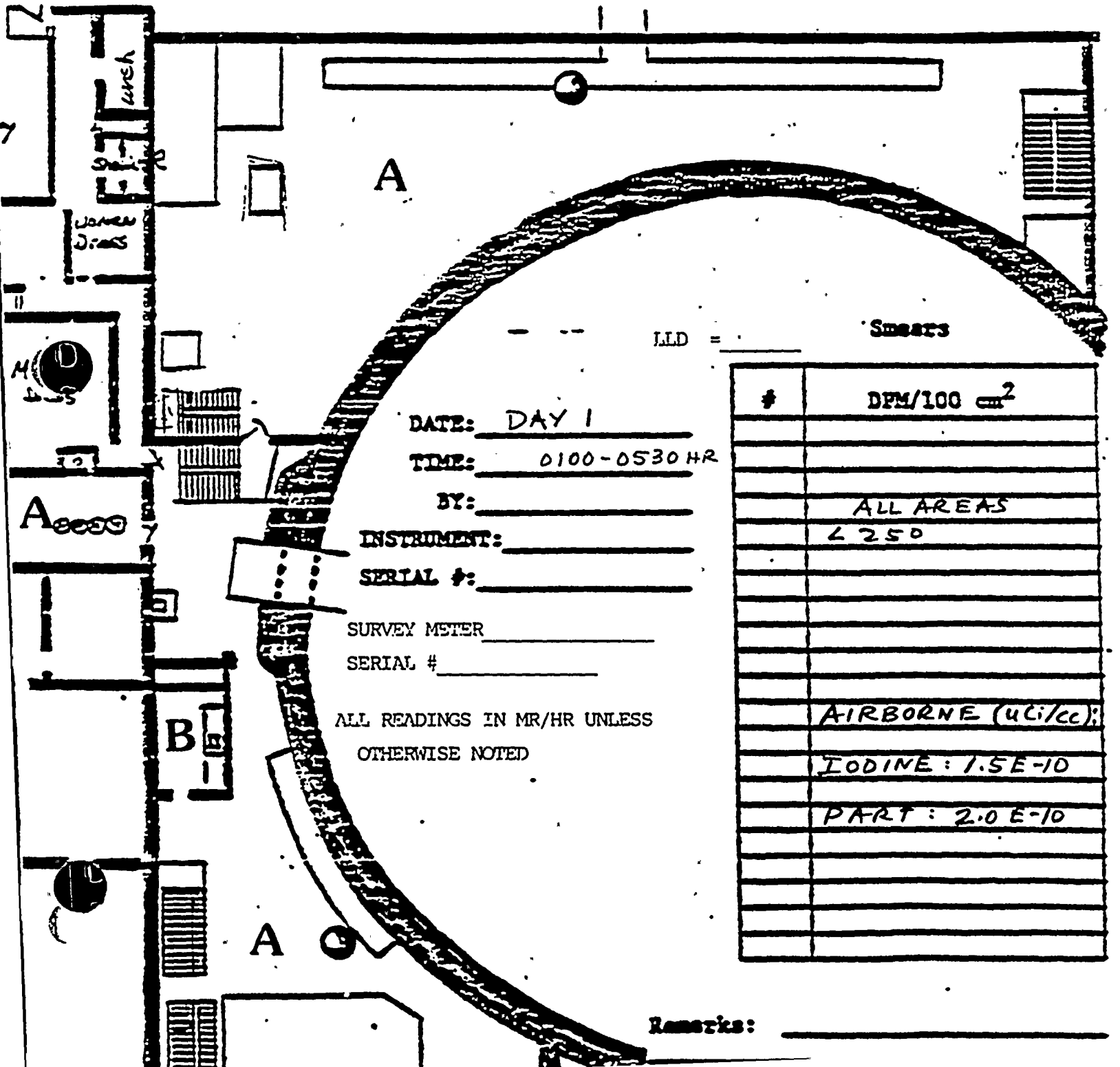
REMARKS: _____

GINNA STATION

INTERMEDIATE BUILDING MEZZANINE FLOOR

SURVEY MAP

A	= 0.05 MR/HR
B	= 10 MR/HR

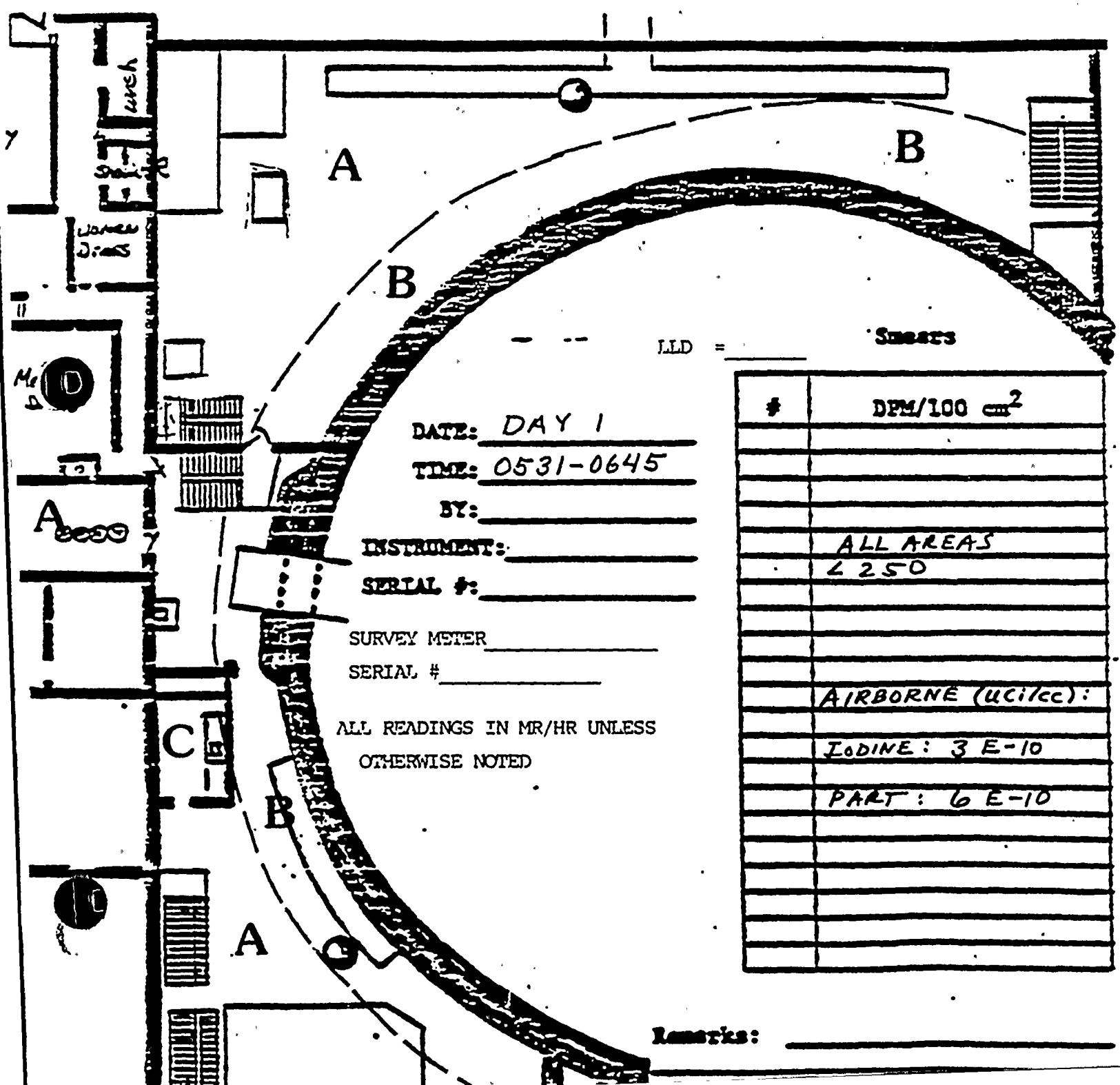


GENNA STATION

INTERMEDIATE BUILDING MEZZANINE FLOOR

SURVEY MAP

A	= 0.5 MR/HR
B	= 1.5 MR/HR
C	= 12 MR/HR



LLD = _____ Smears

DATE: DAY 1

TIME: 0531-0645

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

#	DPM/100 cm^2
	ALL AREAS
	< 250
	AIRBORNE (uci/cc):
	IODINE: 3 E-10
	PART: 6 E-10

Remarks: _____

GINNA STATION

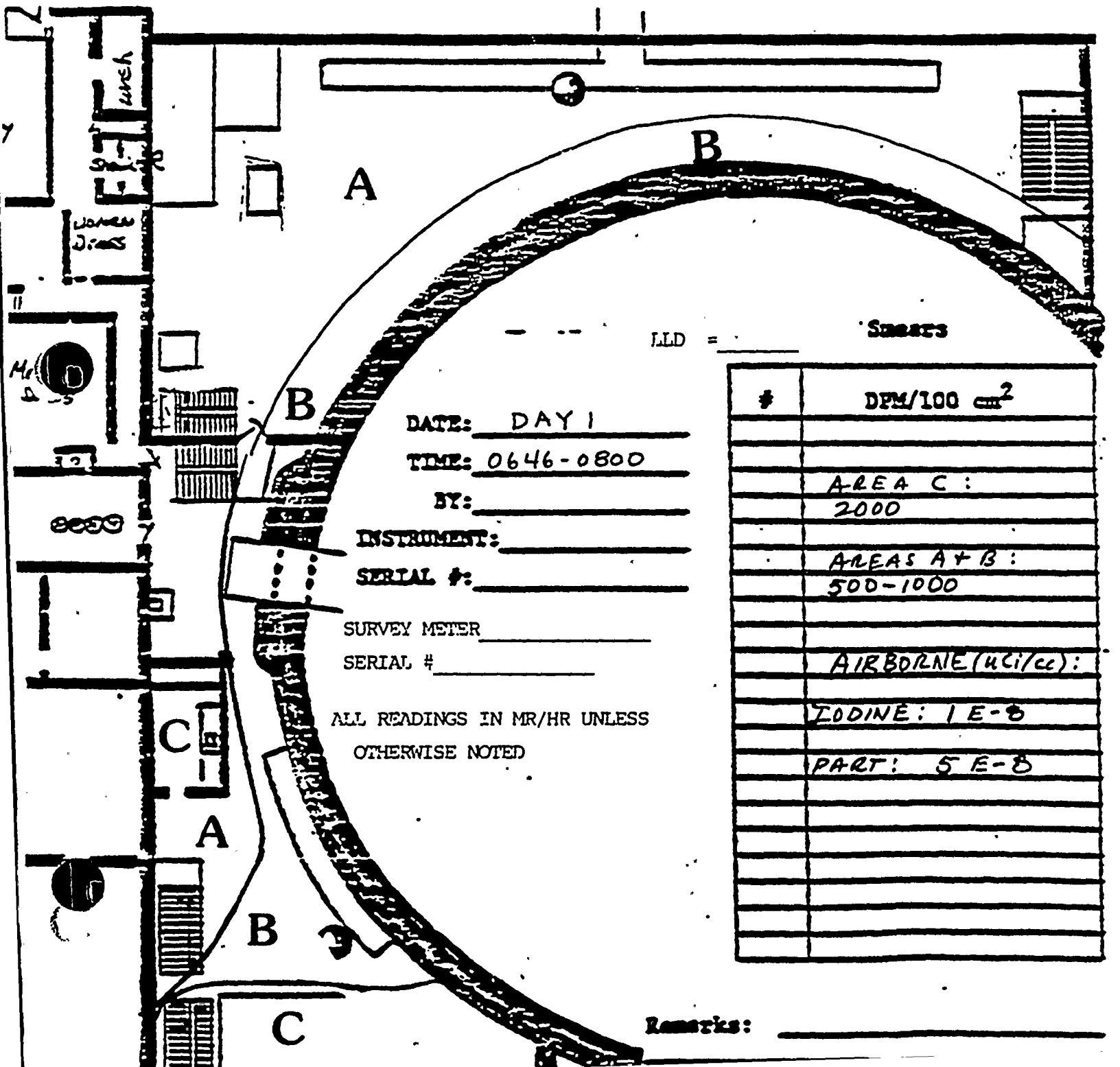
INTERMEDIATE BUILDING MEZZANINE FLOOR

SURVEY MAP

A = 5 MR/HR

B = 25 MR/HR

C = 50 MR/HR



LLD = _____

Smears

DATE: DAY 1

TIME: 0646-0800

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

#	DPM/100 cm^2
	AREA C:
	2000
	AREAS A+B:
	500-1000
	AIRBORNE (uCi/cc):
	IODINE: 1 E-8
	PART: 5 E-8

Remarks: _____

GENNA STATION

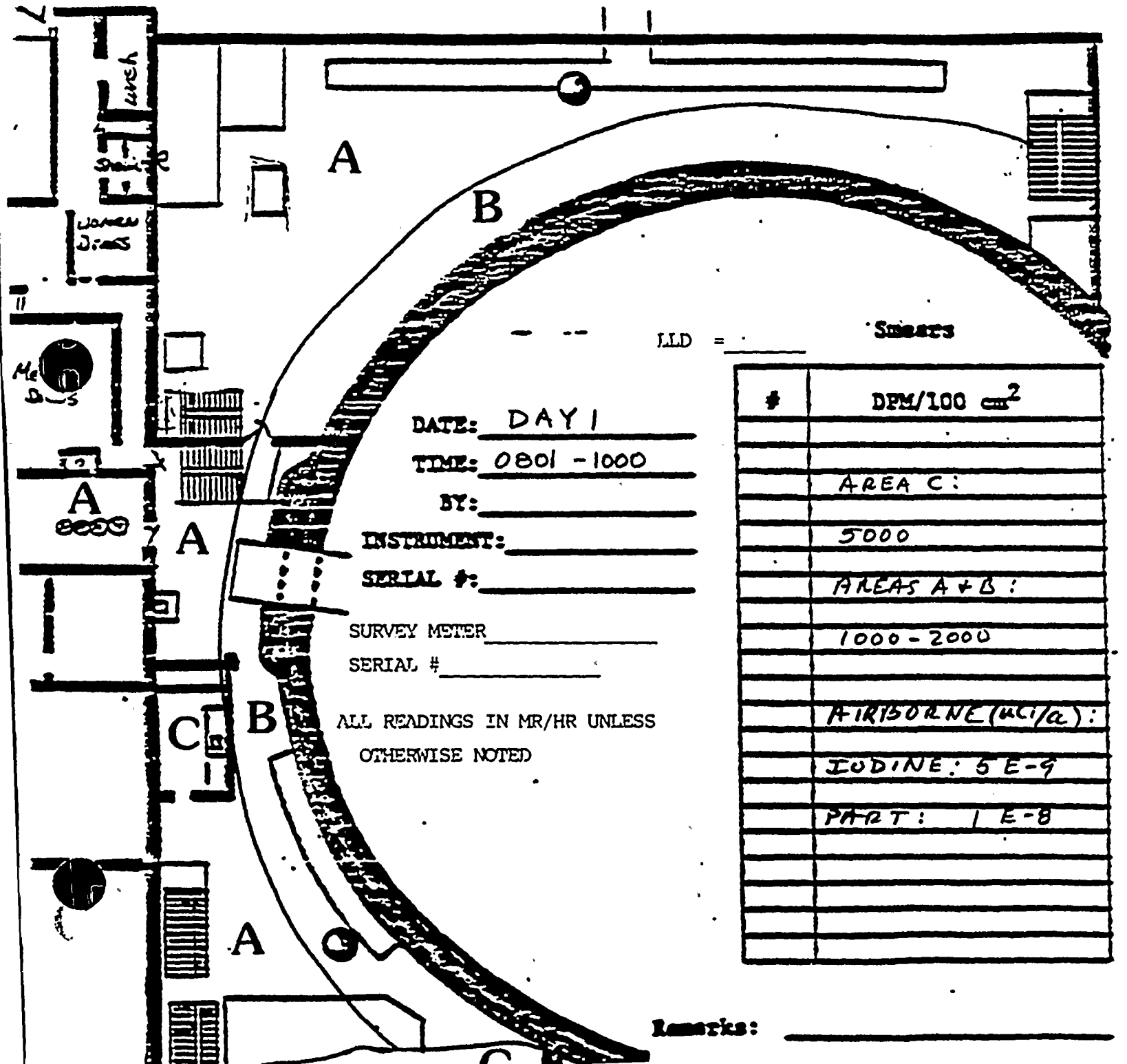
INTERMEDIATE BUILDING MEZZANINE FLOOR

SURVEY MAP

A = 3 MR/HR

B = 15 MR/HR

C = 50 MR/HR



LLD = _____ Smears

DATE: DAY 1

TIME: 0801 - 1000

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

#	DPM/100 cm^2
	AREA C:
	5000
	AREAS A+B:
	1000 - 2000
	AIRBORNE (uCi/a):
	IODINE: 5 E-9
	PART: 1 E-8

Remarks: _____

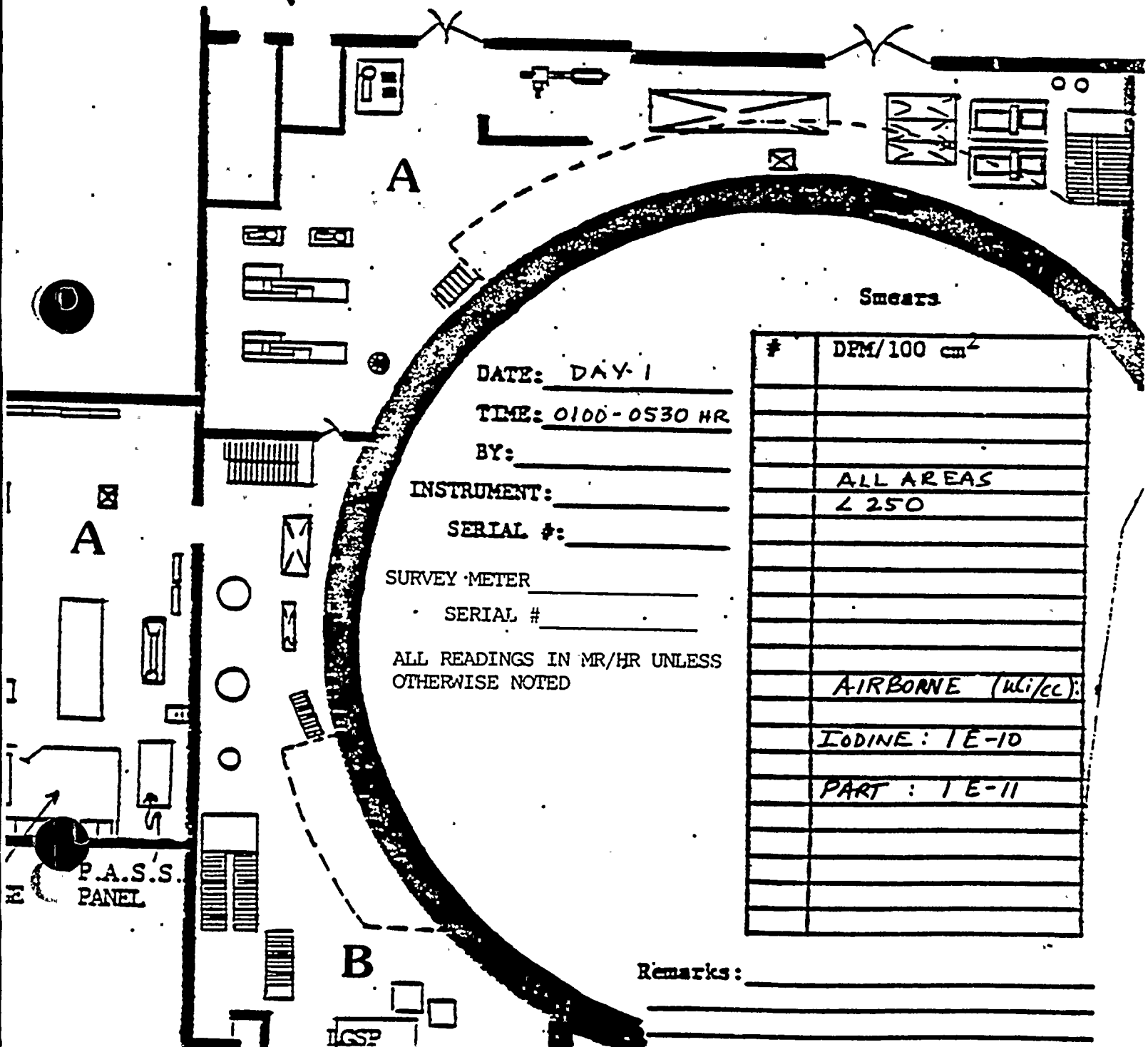
RG&E

GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

SURVEY MAP

A	= 0.05 MR/HR
B	= 0.5 MR/HR



DATE: DAY 1

TIME: 0100-0530 HR

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

Smears

#	DPM/100 cm^2
	ALL AREAS
	< 250
	AIRBORNE (uCi/cc):
	IODINE: 1E-10
	PART: 1E-11

Remarks: _____

RG&E

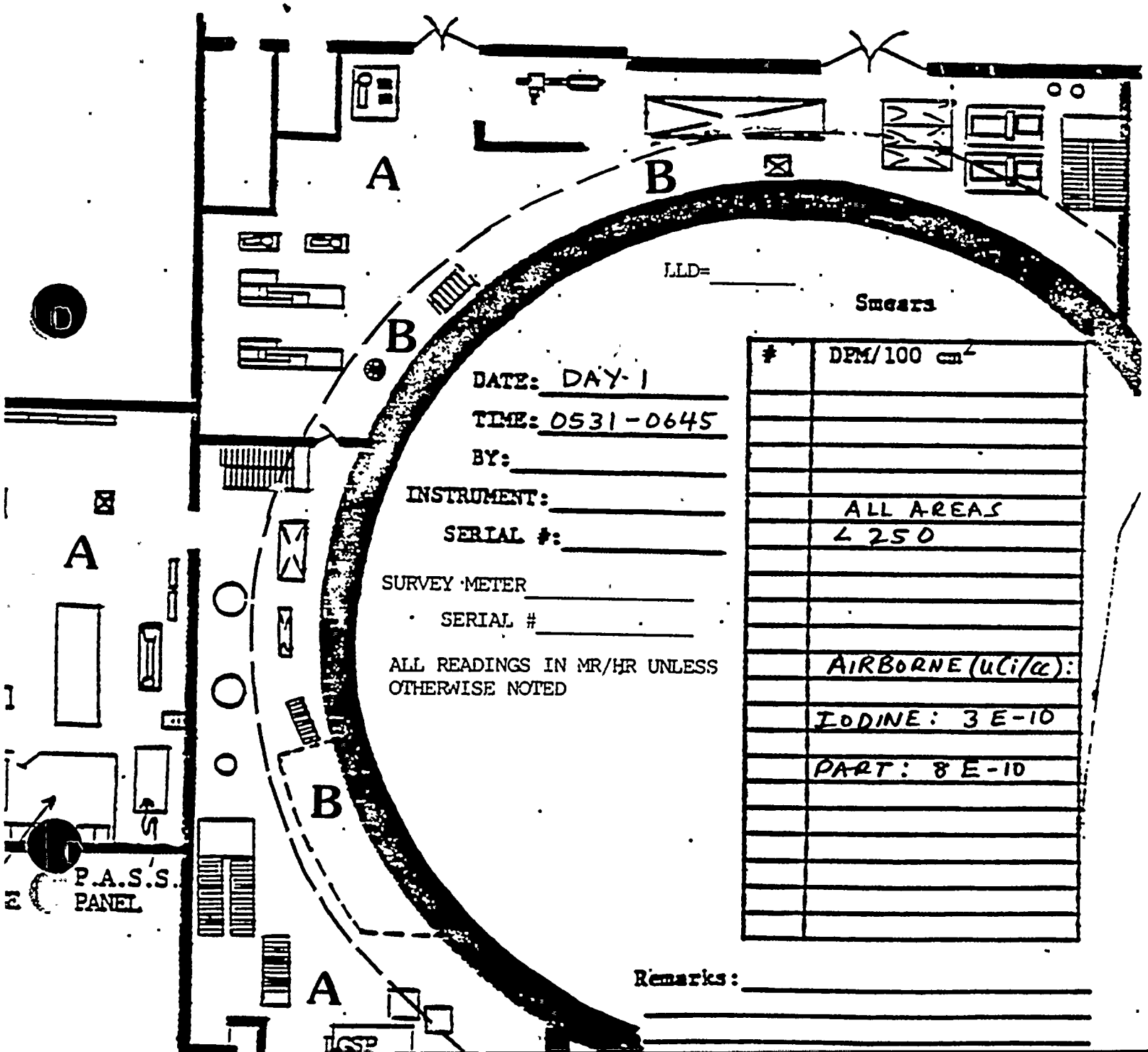
GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

SURVEY MAP

* NO PASS OPERATION *

A	= 0.2 MR/HR
B	= 1.5 MR/HR



LLD= _____

DATE: DAY 1

TIME: 0531-0645

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

Smears

#	DPM/100 cm^2
	ALL AREAS
	< 250
	AIRBORNE (uCi/cc):
	IODINE: 3 E-10
	PART: 8 E-10

Remarks: _____

RG&E

GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

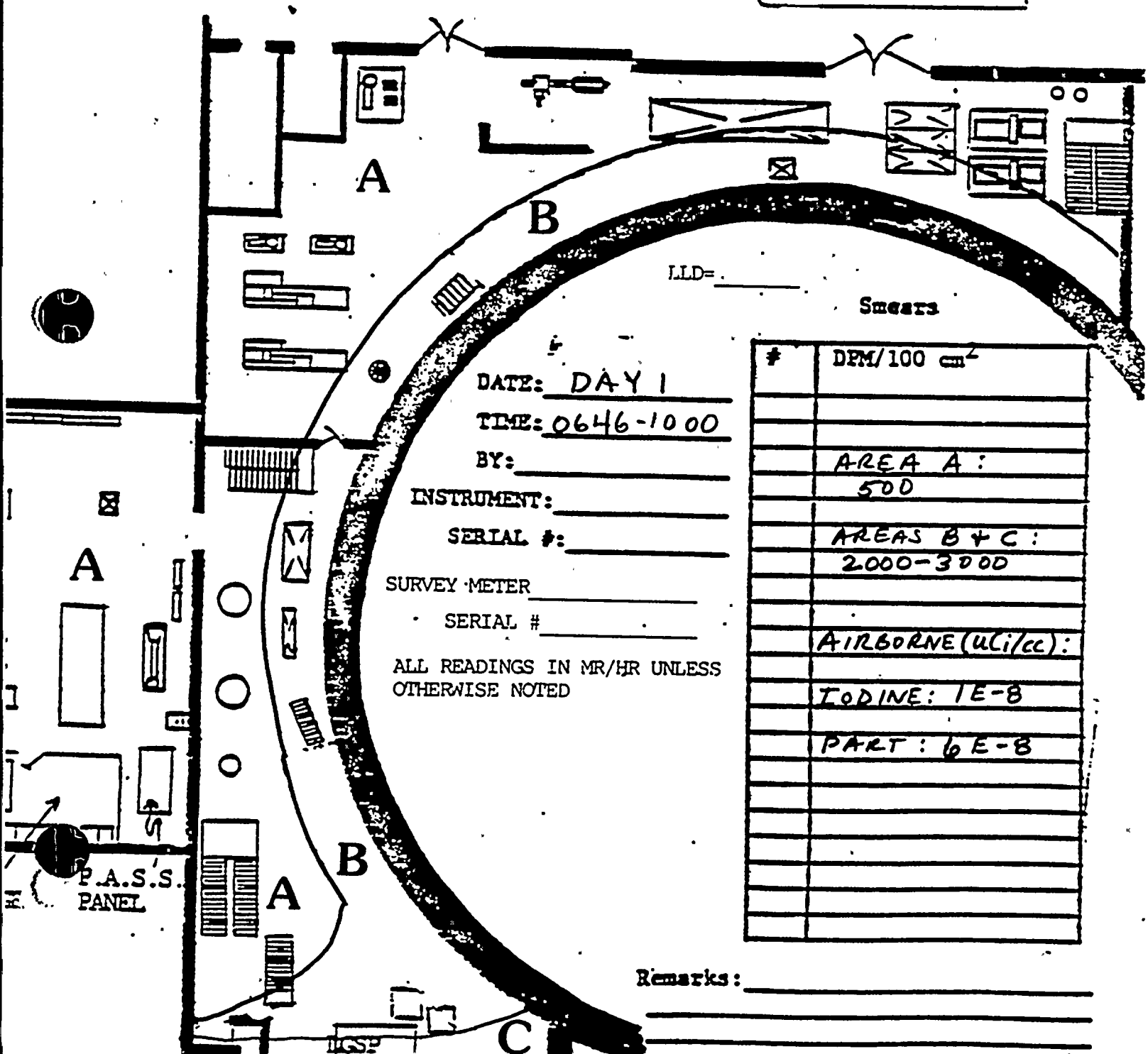
SURVEY MAP

* NO PASS OPERATION *

A = 5 MR/HR

B = 30 MR/HR

C = 40 MR/HR



LLD= _____

DATE: DAY 1

TIME: 0646-1000

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

Smears

#	DPM/100 cm²
	AREA A:
	500
	AREAS B + C:
	2000-3000
	AIRBORNE (uCi/cc):
	IODINE: 1E-8
	PART: 6E-8

Remarks: _____

RG&E

GINNA STATION

INTERMEDIATE BUILDING BASEMENT FLOOR

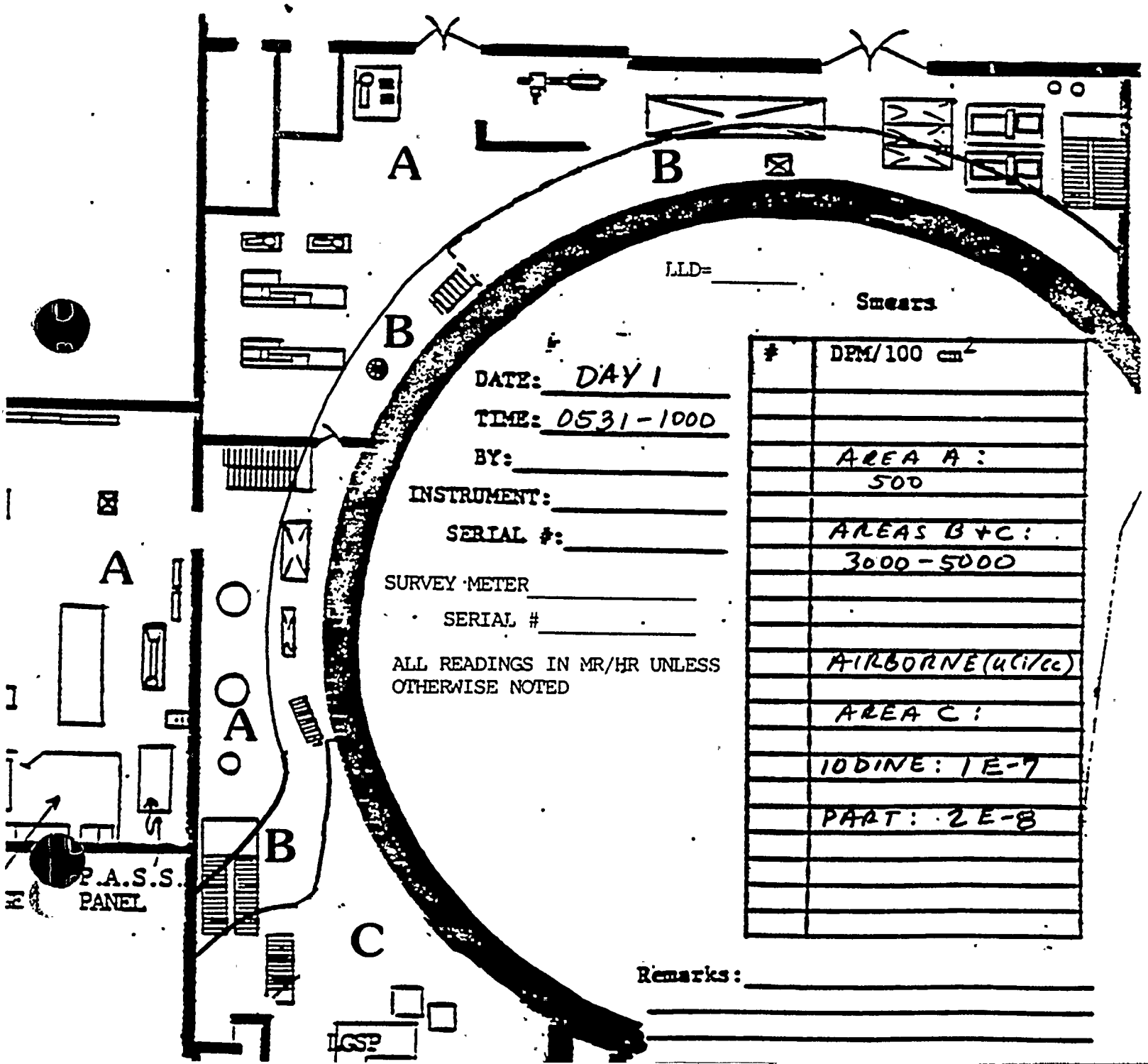
SURVEY MAP

** DURING PASS OPERATION **

A = 5 MR/HR

B = 30 MR/HR

C = 200 MR/HR



LLD= _____

DATE: DAY 1

TIME: 0531-1000

BY: _____

INSTRUMENT: _____

SERIAL #: _____

SURVEY METER _____

SERIAL # _____

ALL READINGS IN MR/HR UNLESS OTHERWISE NOTED

Smears

#	DPM/100 cm²
	AREA A:
	500
	AREAS B+C:
	3000-5000
	AIRBORNE (uCi/cc)
	AREA C:
	IODINE: 1E-7
	PART: 2E-8

Remarks: _____

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

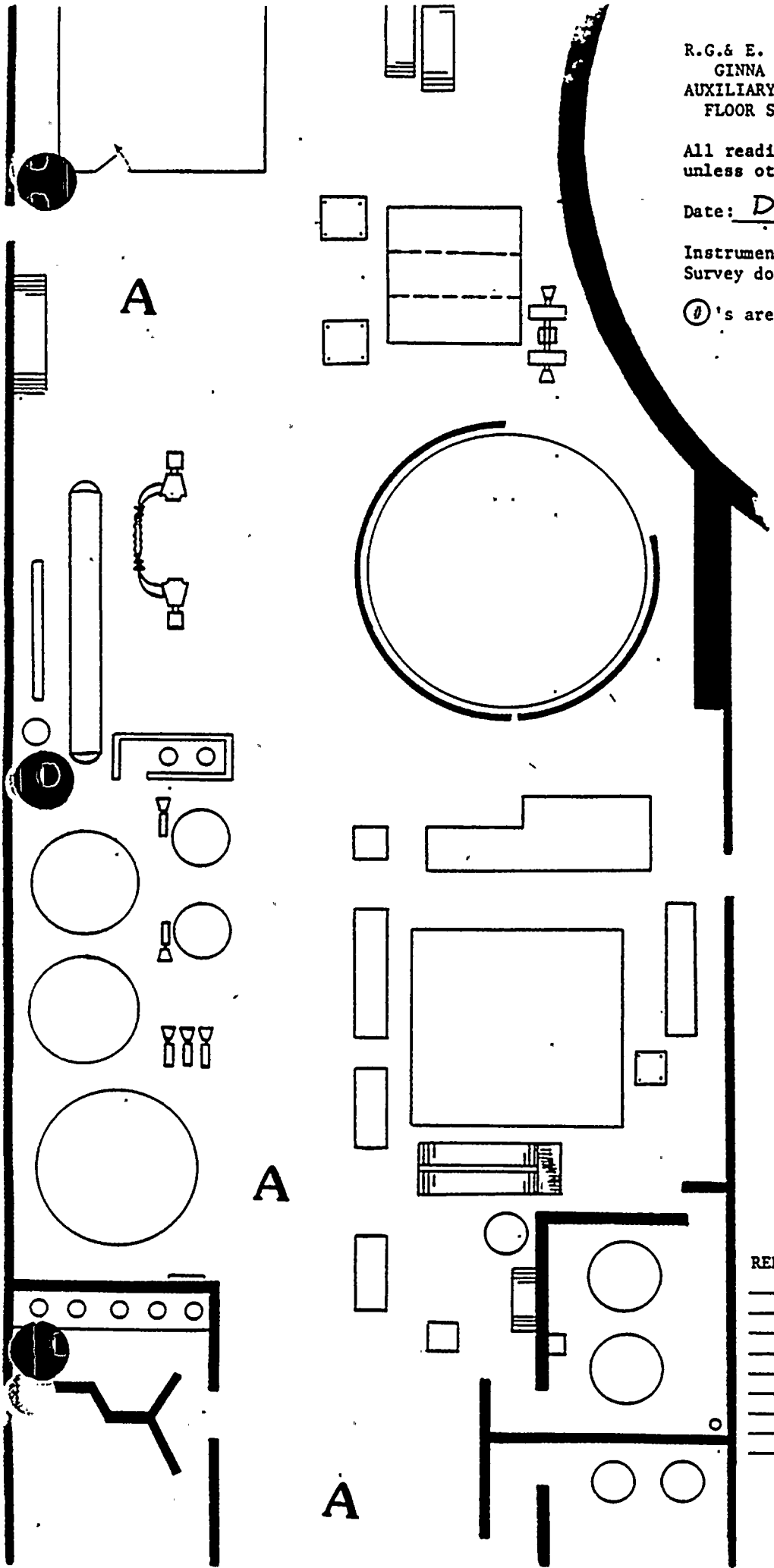
All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0100-0530 HR)

Instrument: _____ #____
Survey done by: _____

(#)'s are SMEAR locations.

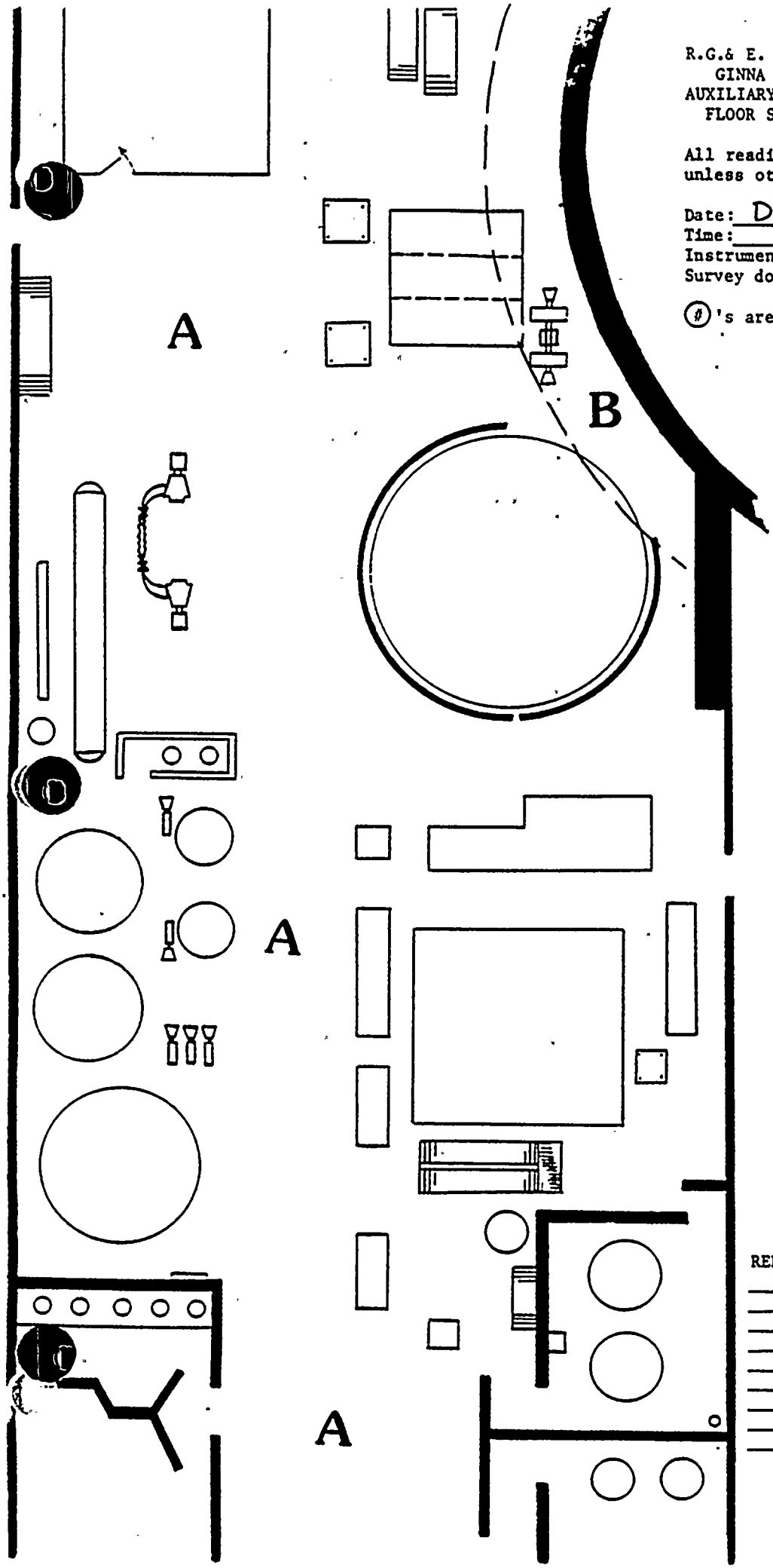
A = 3 MR/HR



SMEARS

#	DPM/100 cm^2
	ALL AREAS
	250-1000
	AIRBORNE:
	IODINE: 1E-10
	PART: 2E-10

REMARKS: _____



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

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0531-0645)
Time: _____ % Power: _____
Instrument: _____ # _____
Survey done by: _____

(#)'s are SMEAR locations.

A = 4 MR/HR

B = 9 MR/HR

SMEARS

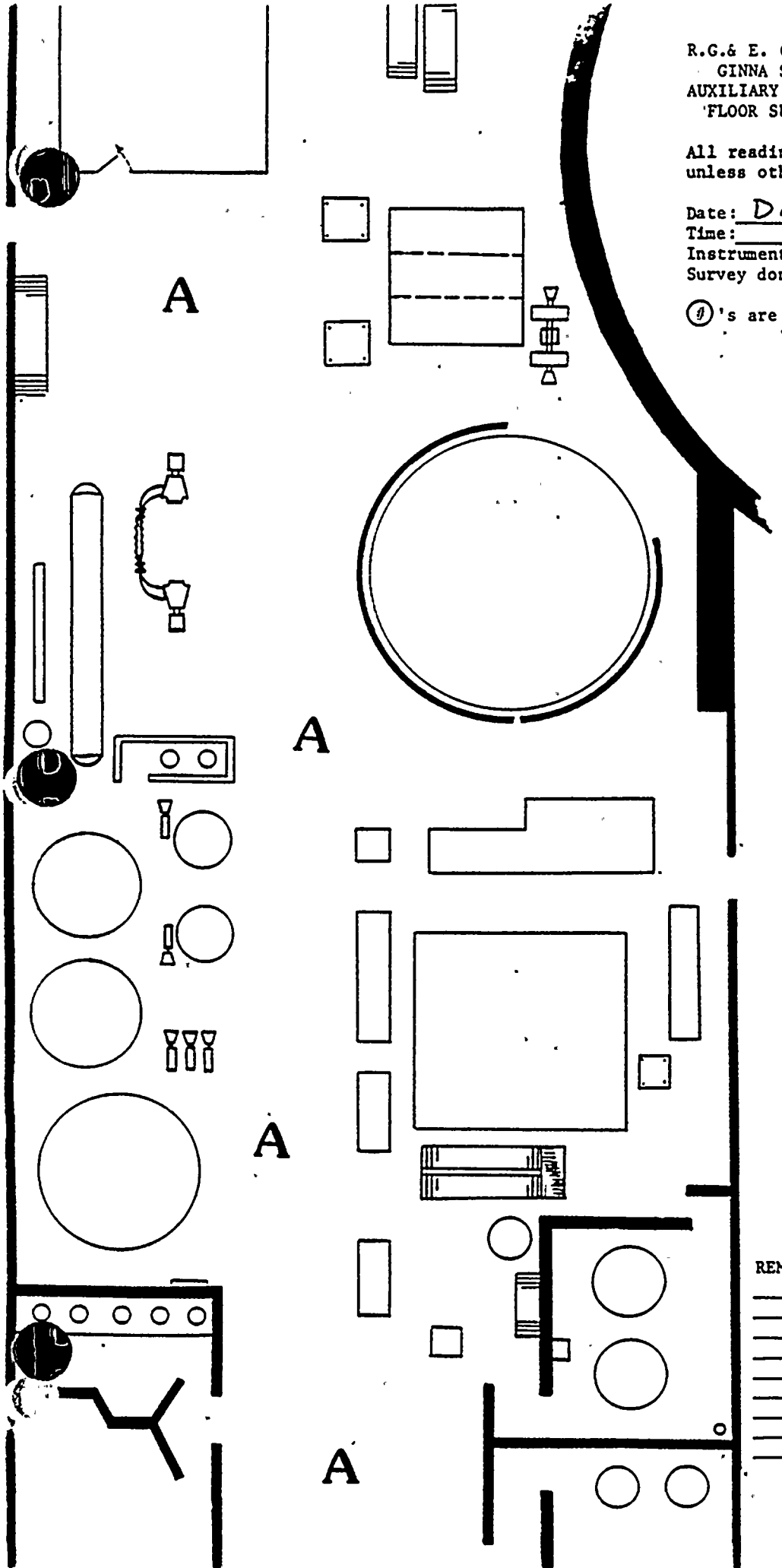
#	DPM/100 cm^2
	ALL AREA
	250-1000

AIRBORNE : (uCi/cc)

IODINE : 2E-10

PART : 3E-10

REMARKS: _____



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

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0646-0800)
Time: _____ % Power: _____
Instrument: _____ # _____
Survey done by: _____

(#)'s are SMEAR locations.

A = 70,000 MR/HR

SMEARS

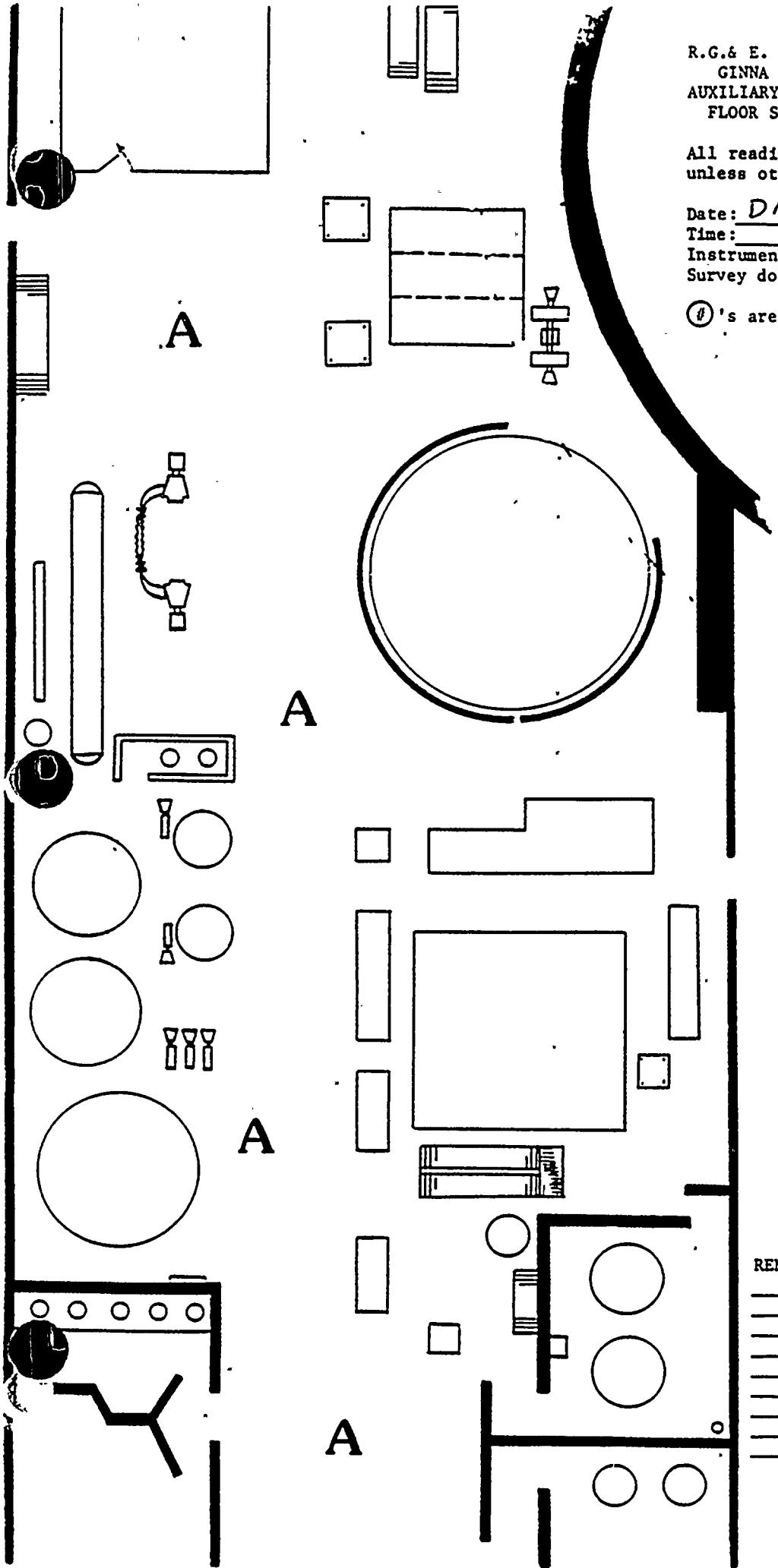
#	DPM/100 cm^2
	ALL AREAS
	100,000

AIRBORNE : (uCi/cc)

IODINE : 1E-2

PART : 1.5 E+0

REMARKS: _____



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

All readings in MR/HR.
unless otherwise noted.

Date: DAY1 (0801-1000 HR)
Time: _____ % Power: _____
Instrument: _____ # _____
Survey done by: _____

(#)'s are SMEAR locations.

A = 75 MR/HR

SMEARS

#	DPM/100 cm^2
	ALL AREAS
	$5-10^6$

AIRBORNE: (uCi/cc)

IODINE: 5 E-7

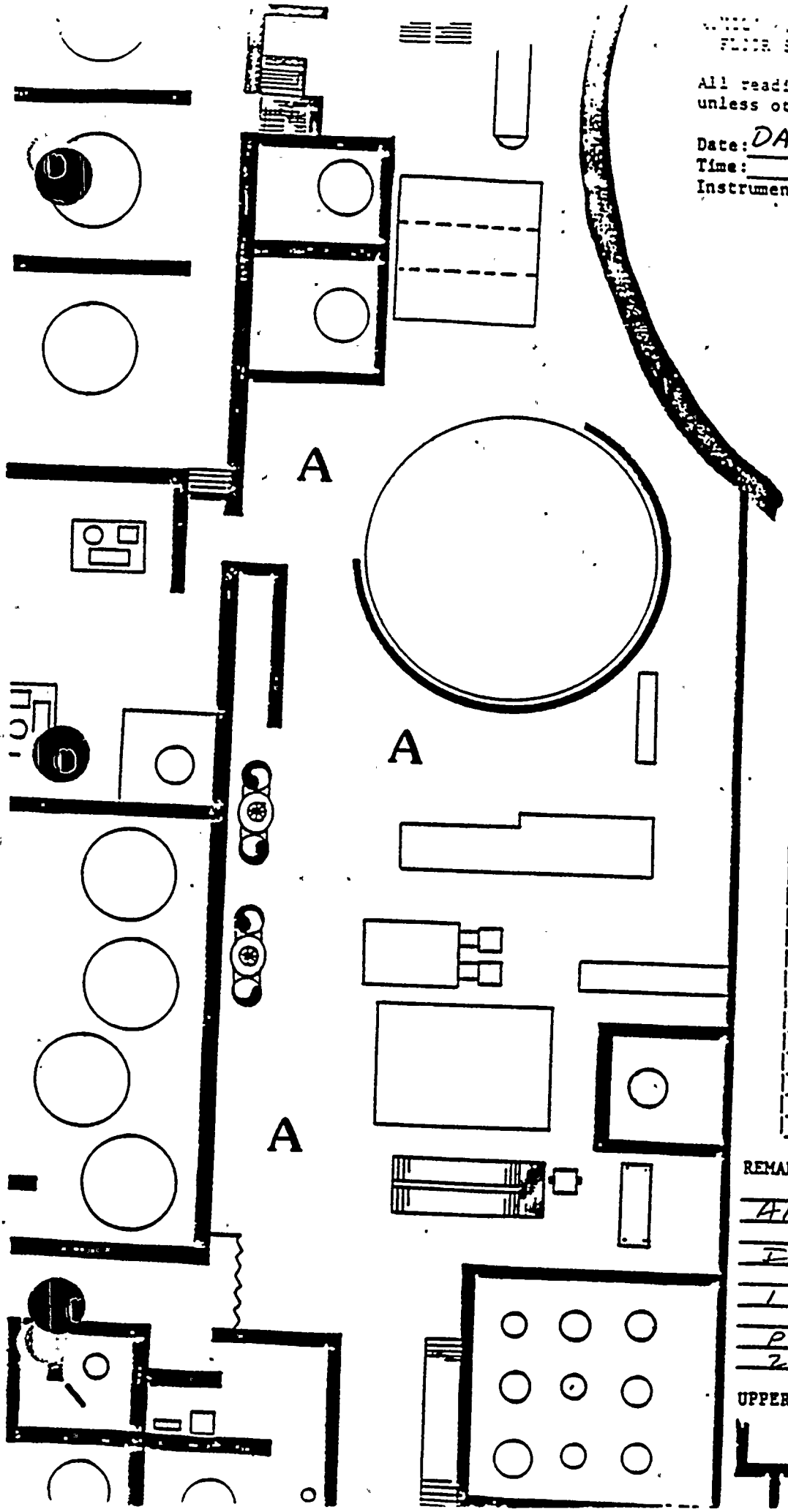
PART: 1 E-6

REMARKS: _____

FLOOR SURVEY MAP

All readings in MR HR.
unless otherwise noted.

Date: DAY 1 (0100-0530 HR)
Time: _____ % Power: ___
Instrument: _____ #___



A = 5 MR/HR

SMEARS

#	DPM/100 cm
	250-1000

REMARKS: _____

AIRBORNE (uCi/cc):

IODINE:

1 E-10

PART:

2 E-10

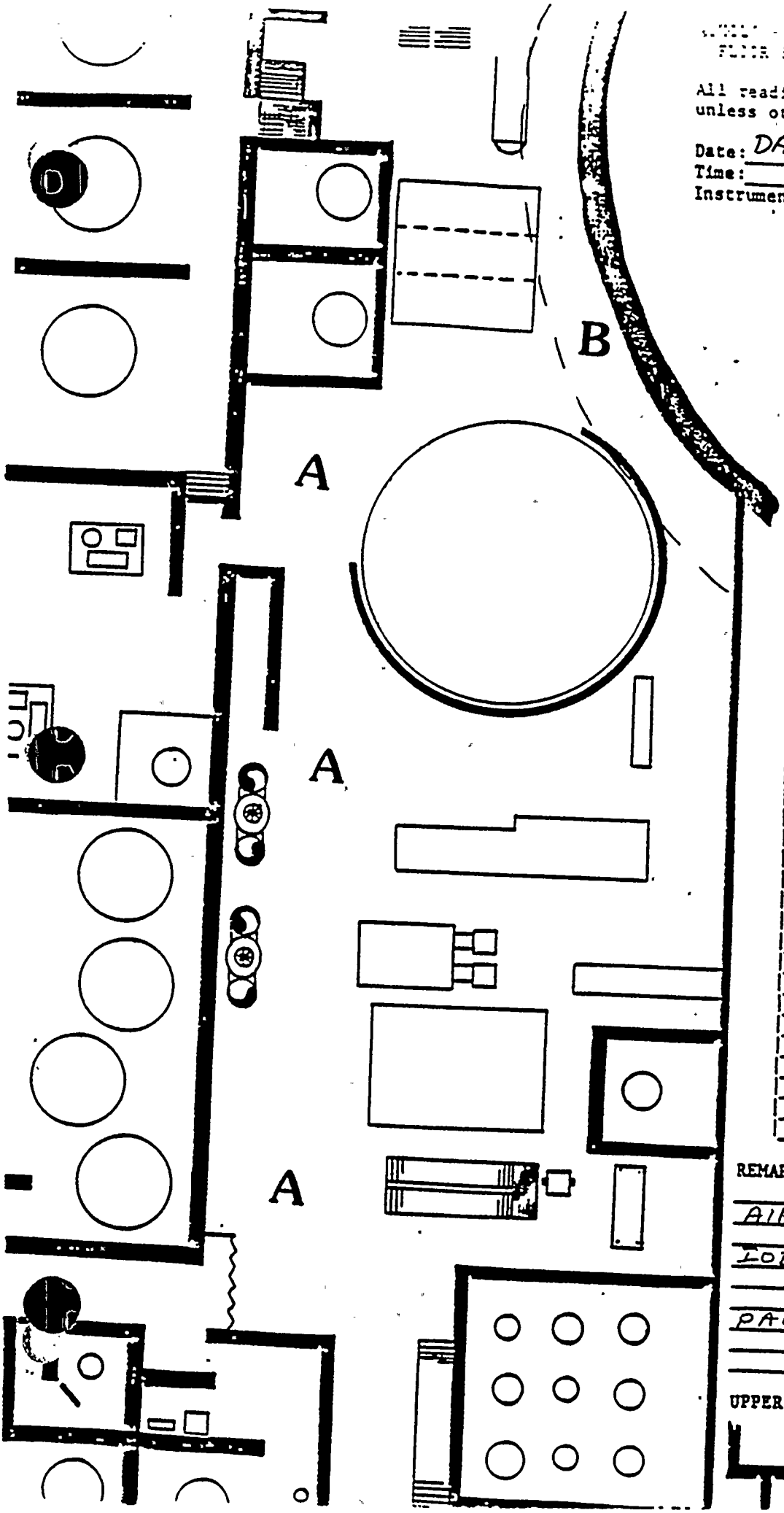
UPPER CATWALK AREA BE

FLOOR SURVEY MAP

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0531-0645 HR)
Time: _____ % Power: ____
Instrument: _____ # ____

A	= 5 MR/HR
B	= 10 MR/HR



SMEARS

#	DPM/100 cm
	250-1000

REMARKS: _____

AIRBORNE (uCi/cc):

IODINE: 1E-10

PART: 2E-10

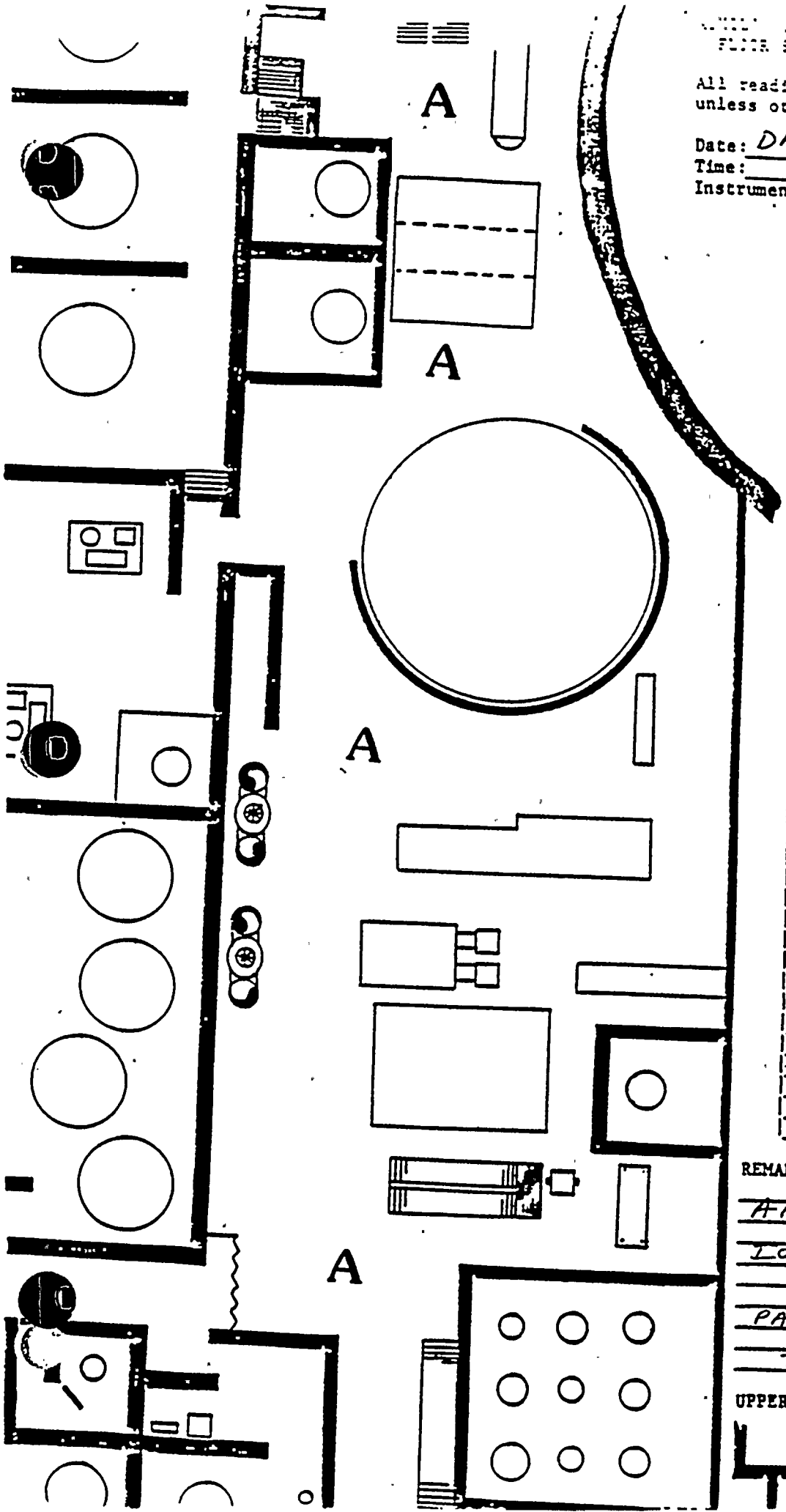
UPPER CATWALK AREA BE

FLOOR SURVEY MAP

All readings in MR. HR.
unless otherwise noted.

Date: DAY 1 (0646-0800 HR)
Time: _____ % Power: _____
Instrument: _____ #

A = 100,000 MR/HR



SMEARS

#	DPM/100 cm
5	6
10	10

REMARKS: _____

AIRBORNE (uCi/cc):

IODINE:
5 E-2

PART:
3 E+0

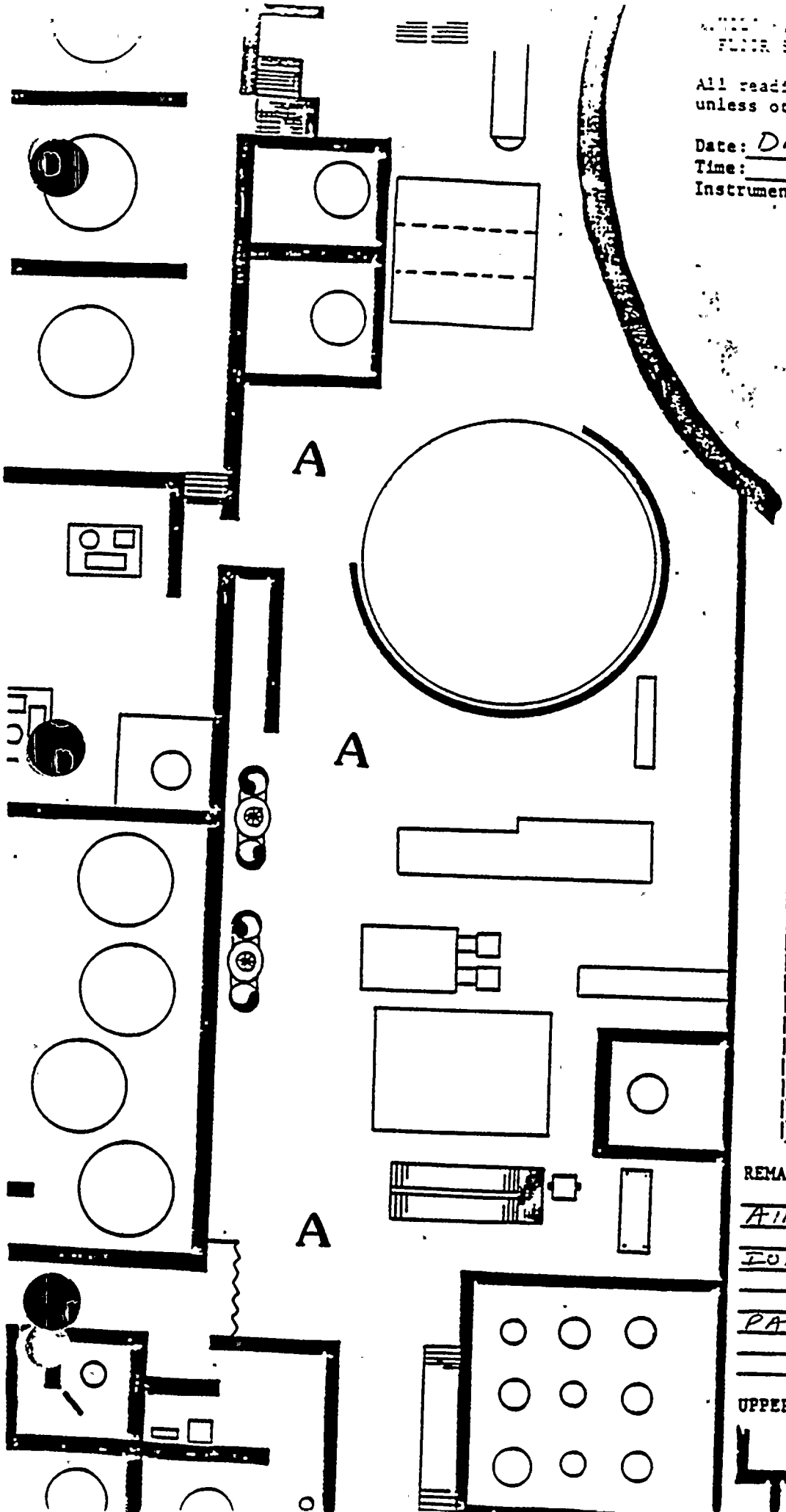
UPPER CATWALK AREA BE

FLOOR SURVEY MAP

All readings in MR HR.
unless otherwise noted.

Date: DAY 1 (0801-1000 HR)
Time: _____ % Power: ___
Instrument: _____ # ___

A = 100 MR/HR



SMEARS

#	DPM/100 cm
	$10^{5}-10^{6}$

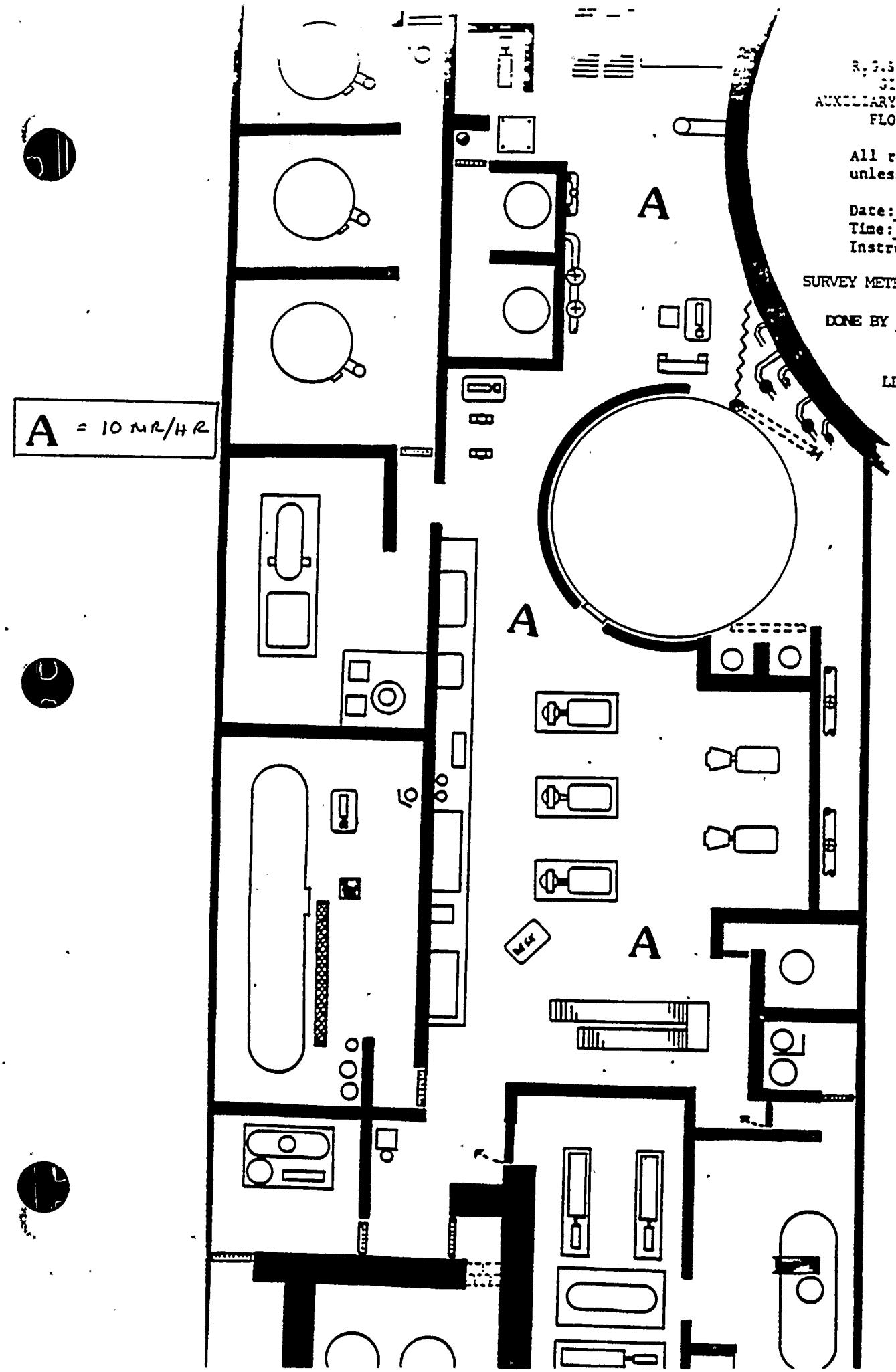
REMARKS: _____

AIRBORNE (uCi/cc):

IODINE: 7E-7

PART: 2E-6

UPPER CATWALK AREA BE



R.E. GINNA
GINNA STATION
AUXILIARY BUILDING BASEMENT
FLOOR SURVEY MAP

All readings in MR/HR.
unless otherwise noted.

DAY 1
Date: 0100 - 0530 HR
Time: _____ % Power: ___
Instrument: _____ #_____

SURVEY METER _____ #_____

DONE BY _____

LLD= _____

SMEARS

#	DPM/100
	250 - 1000

REMARKS: _____

AIRBORNE: (uCi/cc)

IODINE: 3 E-10

PART: 4 E-10

INDICATES GAT

9/B

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

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0531-06
Time: _____ % Power: ___
Instrument: _____ #_

SURVEY METER _____ #_____

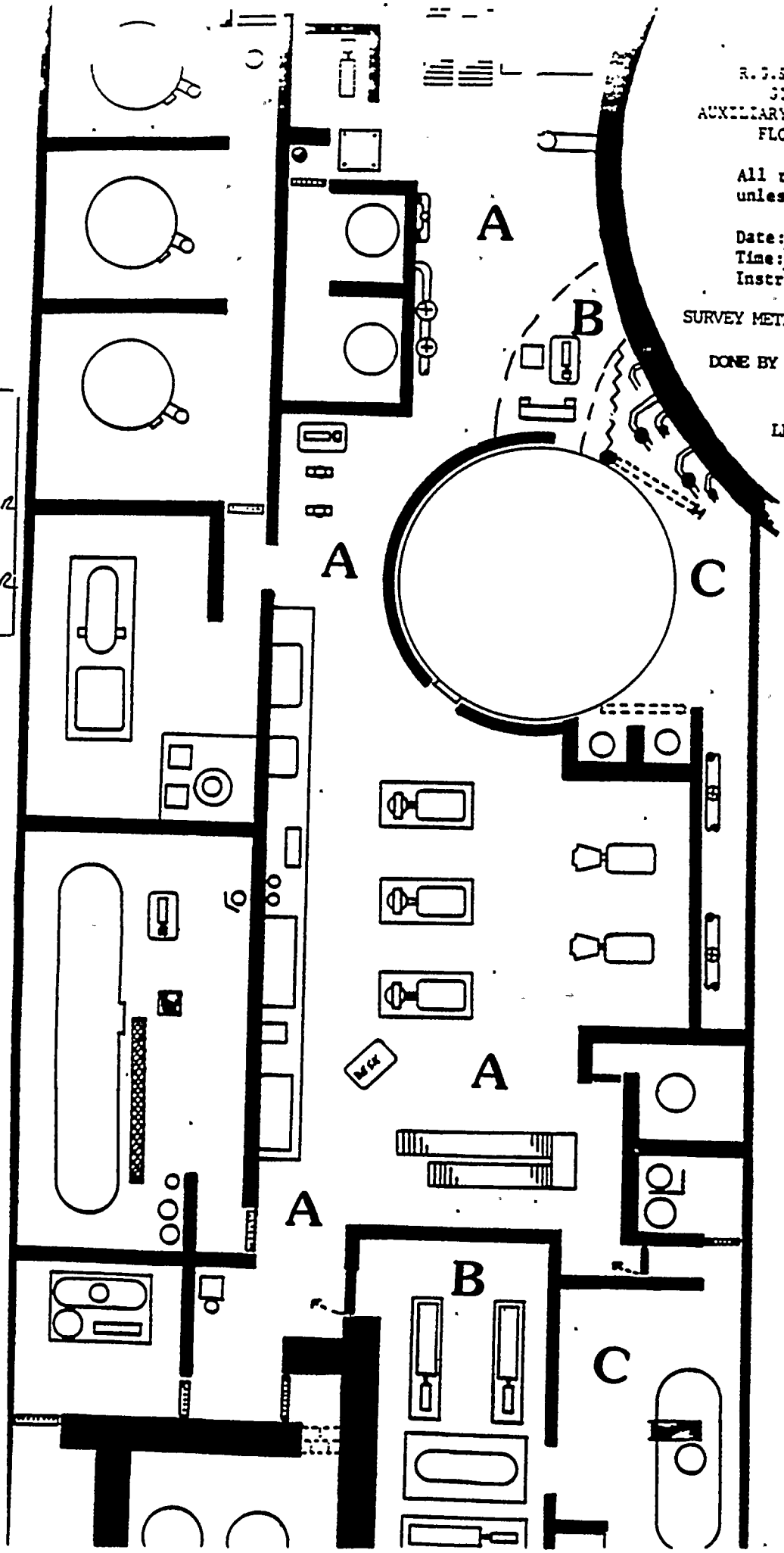
DONE BY _____

LLD= _____

A = 10 MR/HR

B = 250 MR/HR

C = 500 MR/HR



SMEARS

#	DPM/100 c
	250-100

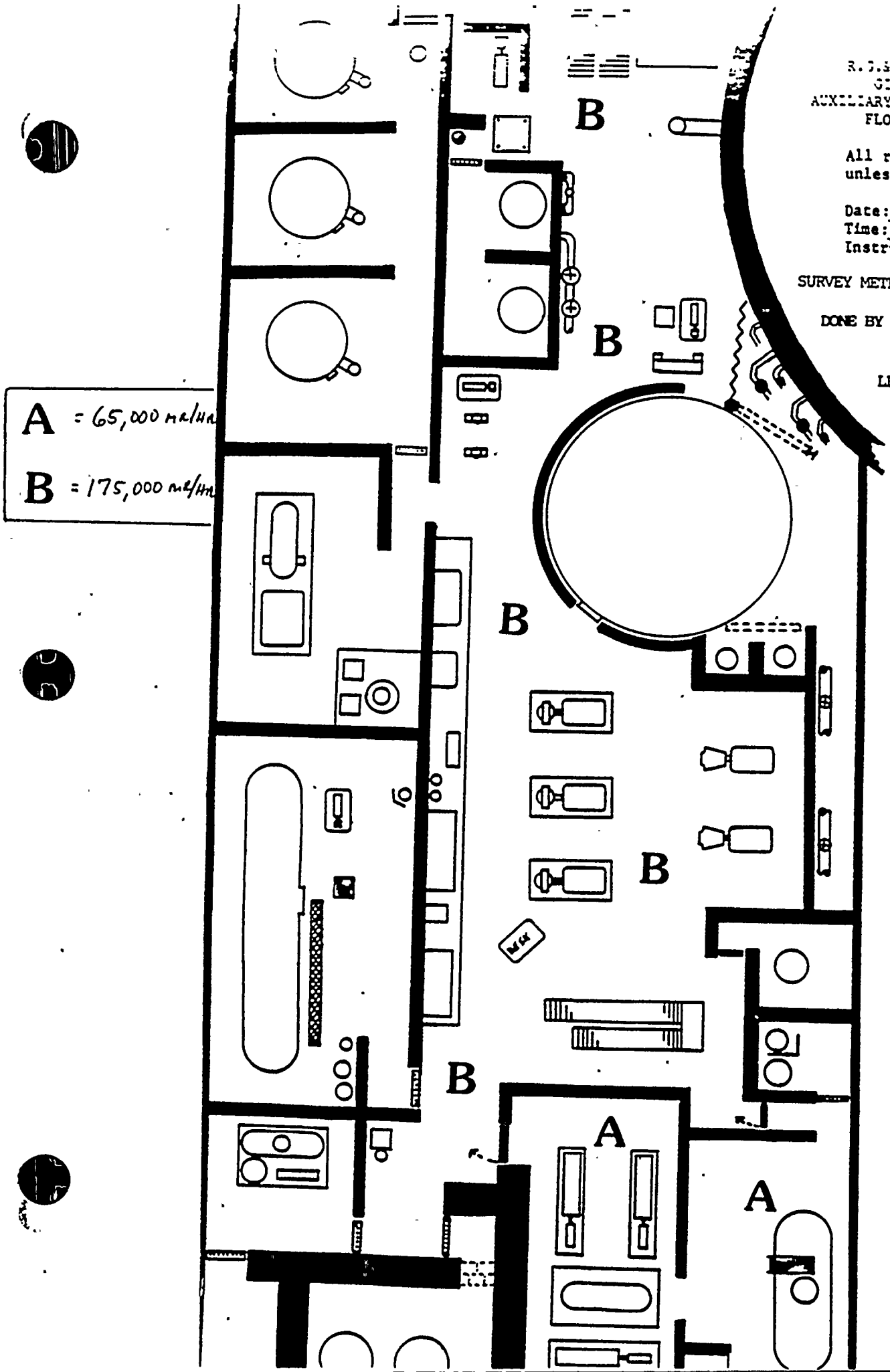
REMARKS: _____

AIRBORNE: (uCi/cc)

IODINE: 3E-1(

PART: 1E-9

INDICATES GAT



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

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0646-0800)
Time: _____ % Power: ___
Instrument: _____ #___

SURVEY METER _____ #_____

DONE BY _____

LLD= _____

SMEARS

#	DPM/100 c
	ALL AREAS: $10^6 - 10^7$

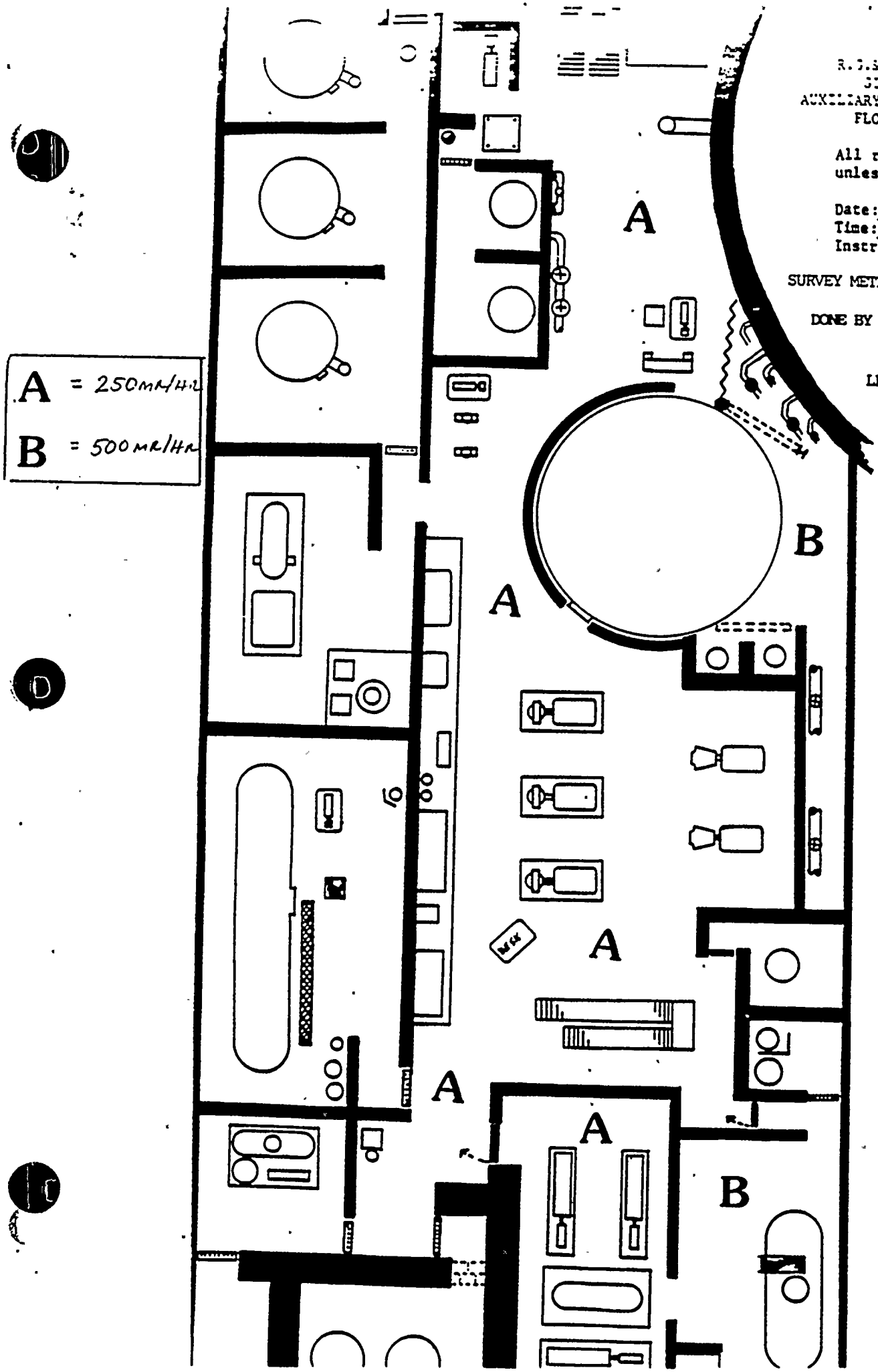
REMARKS: _____

AIRBORNE: (uCi/cc)

IODINE: 2E-1

PART: 5E+0

INDICATES GAT



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

All readings in MR/HR.
unless otherwise noted.

Date: DAY 1 (0801-1000)
Time: _____ % Power: ___
Instrument: _____ #___

SURVEY METER _____ #_____

DONE BY _____

LLD=_____

SMEARS

#	DPM/100 c
	ALL AREAS:
	7 8 10-10

REMARKS: _____

AIRBORNE: (uCi/cc)

IODINE: 5E-5

PART: 5E-4

INDICATES GA

A = 0.02 mR/HR

RG&E

GINNA STATION

TURBINE BUILDING OPERATING FLOOR

SURVEY MAP

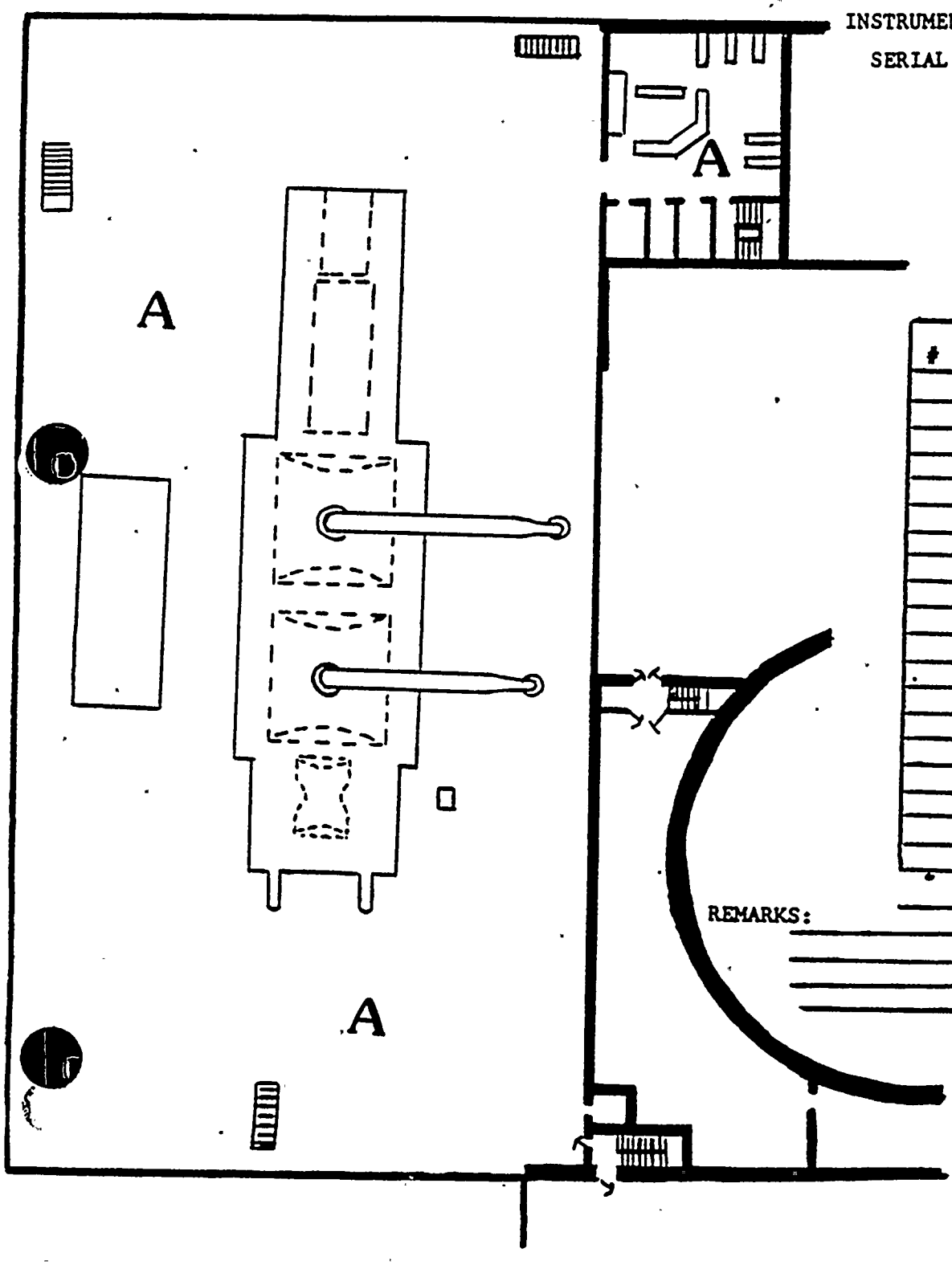
DATE: DAY 1 TIME: 0100 - 0645

POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

NORTH



SMEARS

#	DPM/100 Cm^2
	< 250

REMARKS: _____

A = 0.2 MR/HR

B = 20 MR/HR

RG&E

GINNA STATION

TURBINE BUILDING OPERATING FLOOR

SURVEY MAP

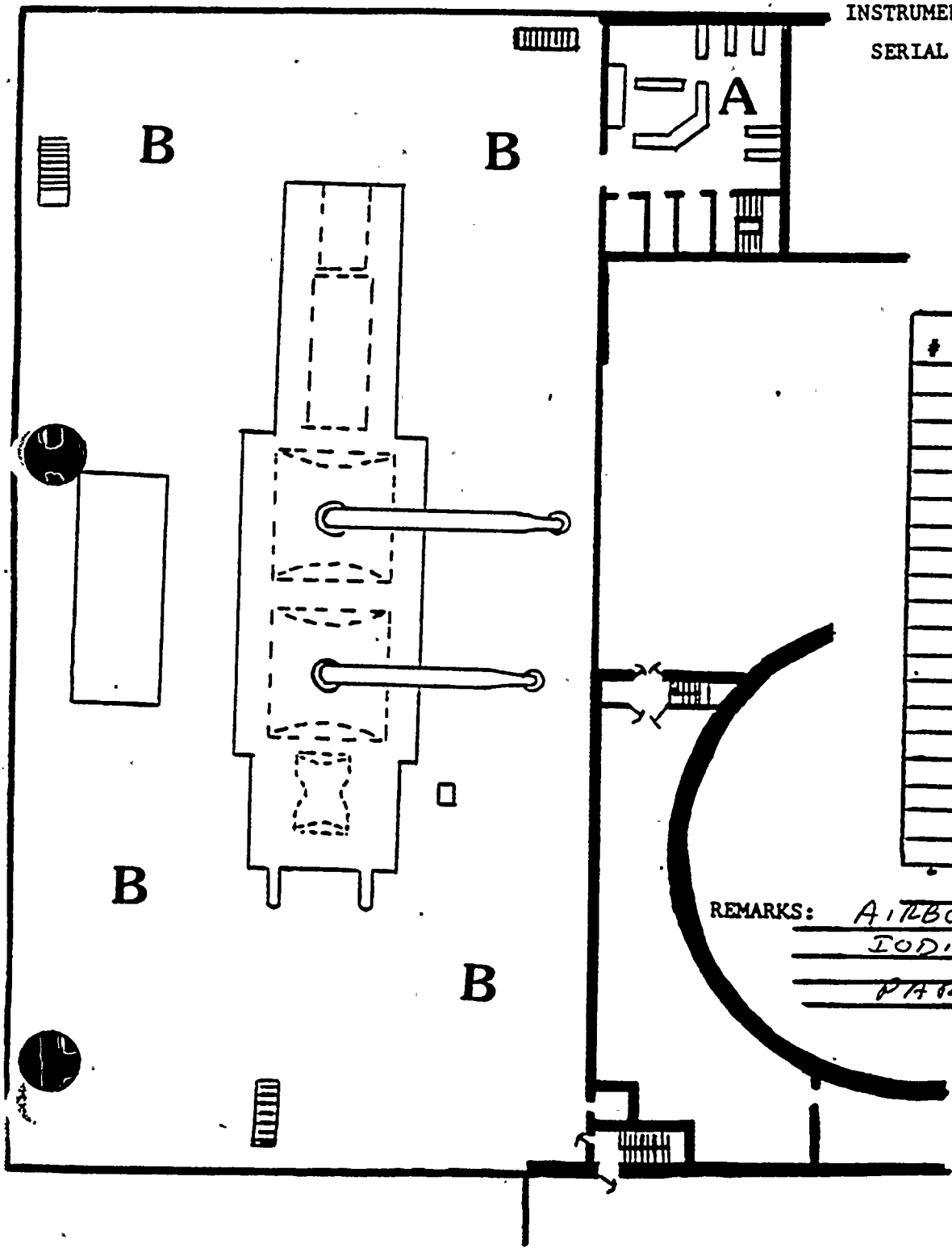
DATE: DAY 1 TIME: 0646-1000

POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

NORTH



SMEARS

#	DPM/100 Cm^2
	250 - 1000

REMARKS: AIRBORNE: (uCi/cc)
IODINE = 1E-8
PART = 2E-8

RG&E

GINNA STATION

TURBINE BUILDING MEZZANINE FLOOR

SURVEY MAP

A = 0.02 MR/HR

* (TSC = 0.02 MR/HR)

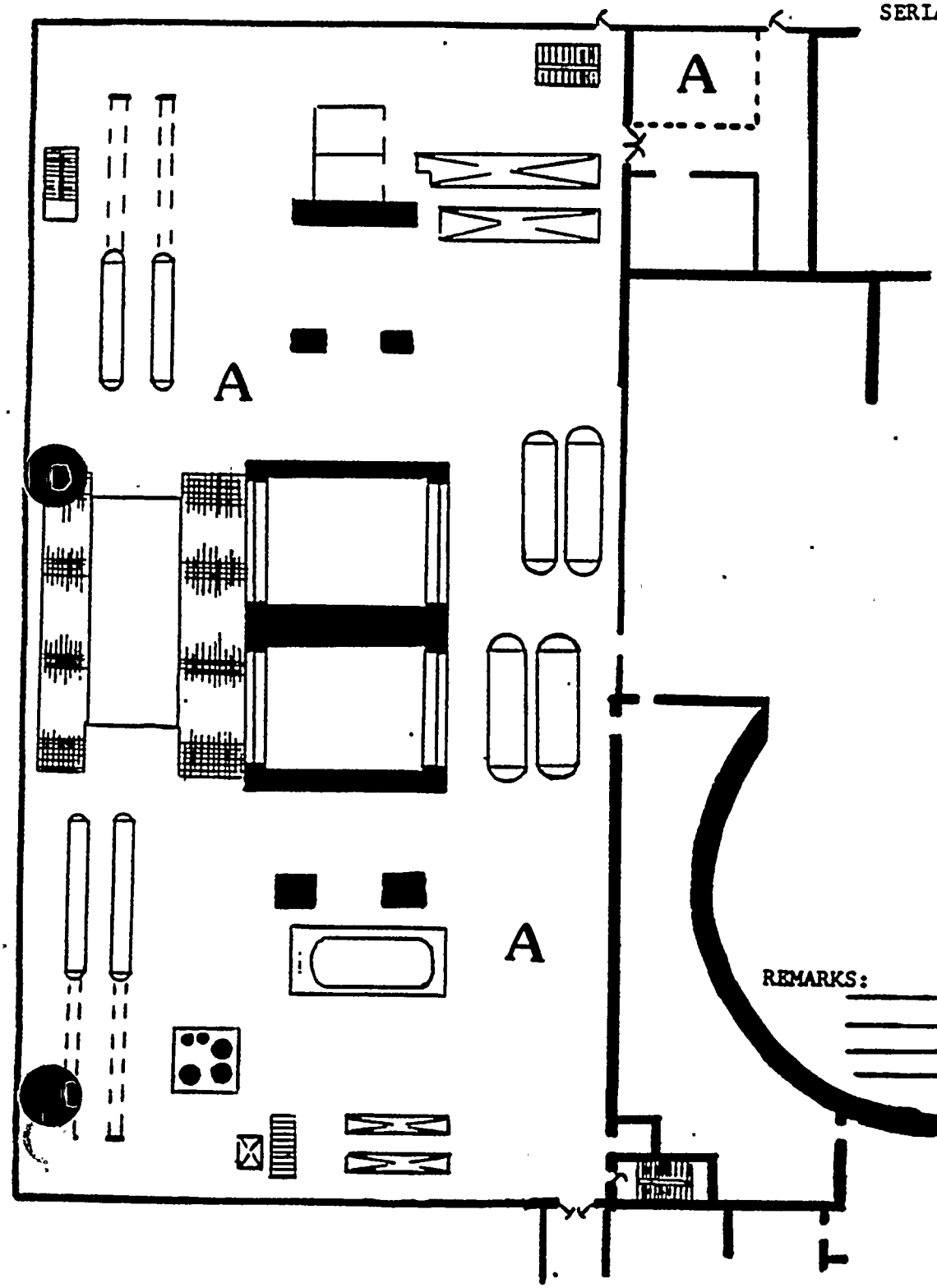
DATE: DAY 1 TIME: 0100 - 0645

POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

NORTH



SMEARS

#	DPM/100 Cm^2

REMARKS: _____

RG&E

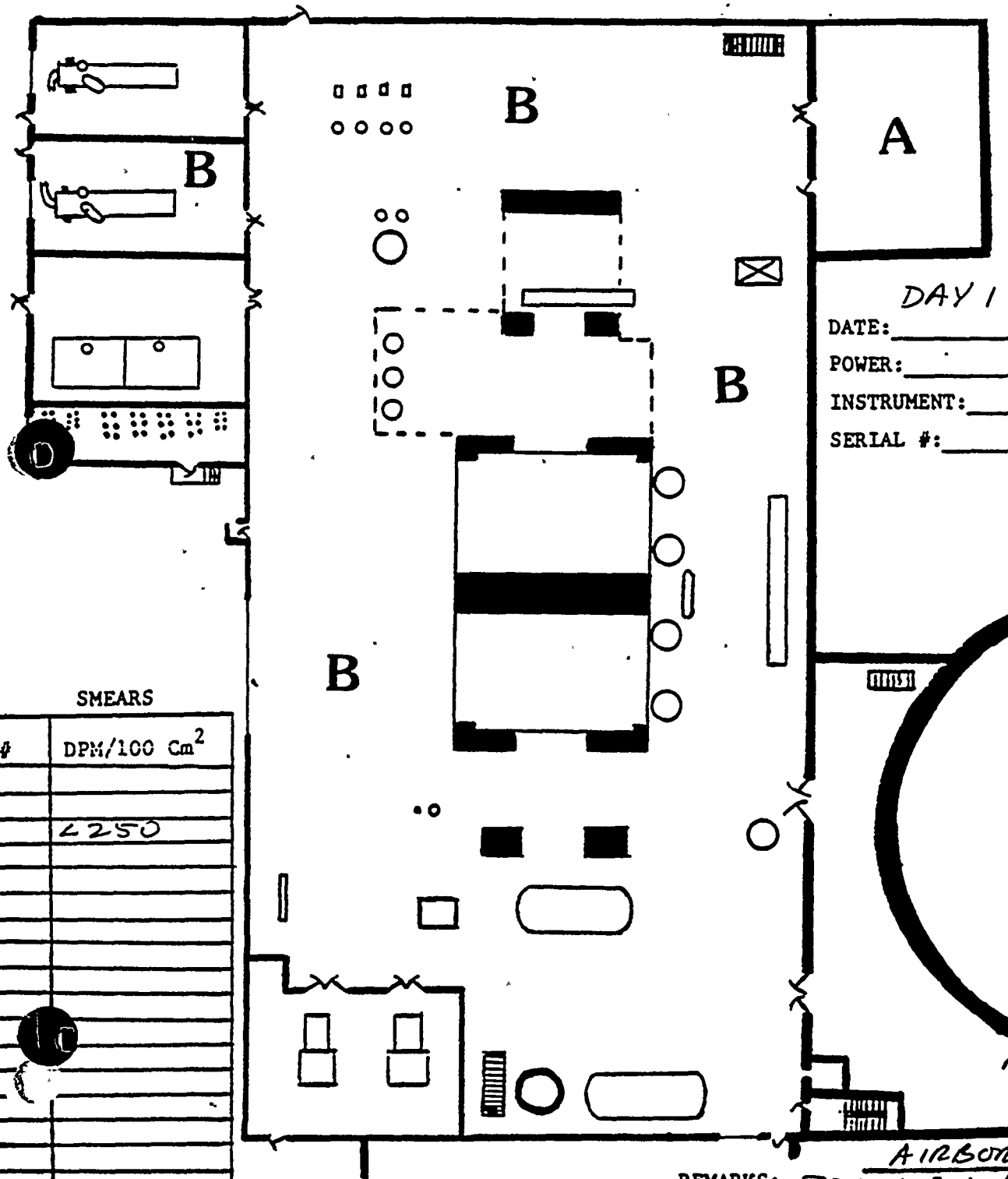
GINNA STATION

TURBINE BUILDING BASEMENT FLOOR

SURVEY MAP

A	= 0.1 MR/HR
B	= 10 MR/HR

NORTH



DAY 1

DATE: _____ TIME: 0646 - 1000

POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

SMEARS

#	DPM/100 Cm^2
2250	

AIRBORNE (uci/cc):

REMARKS: IODINE : 1E-8

PART : 2E-8

RG&E

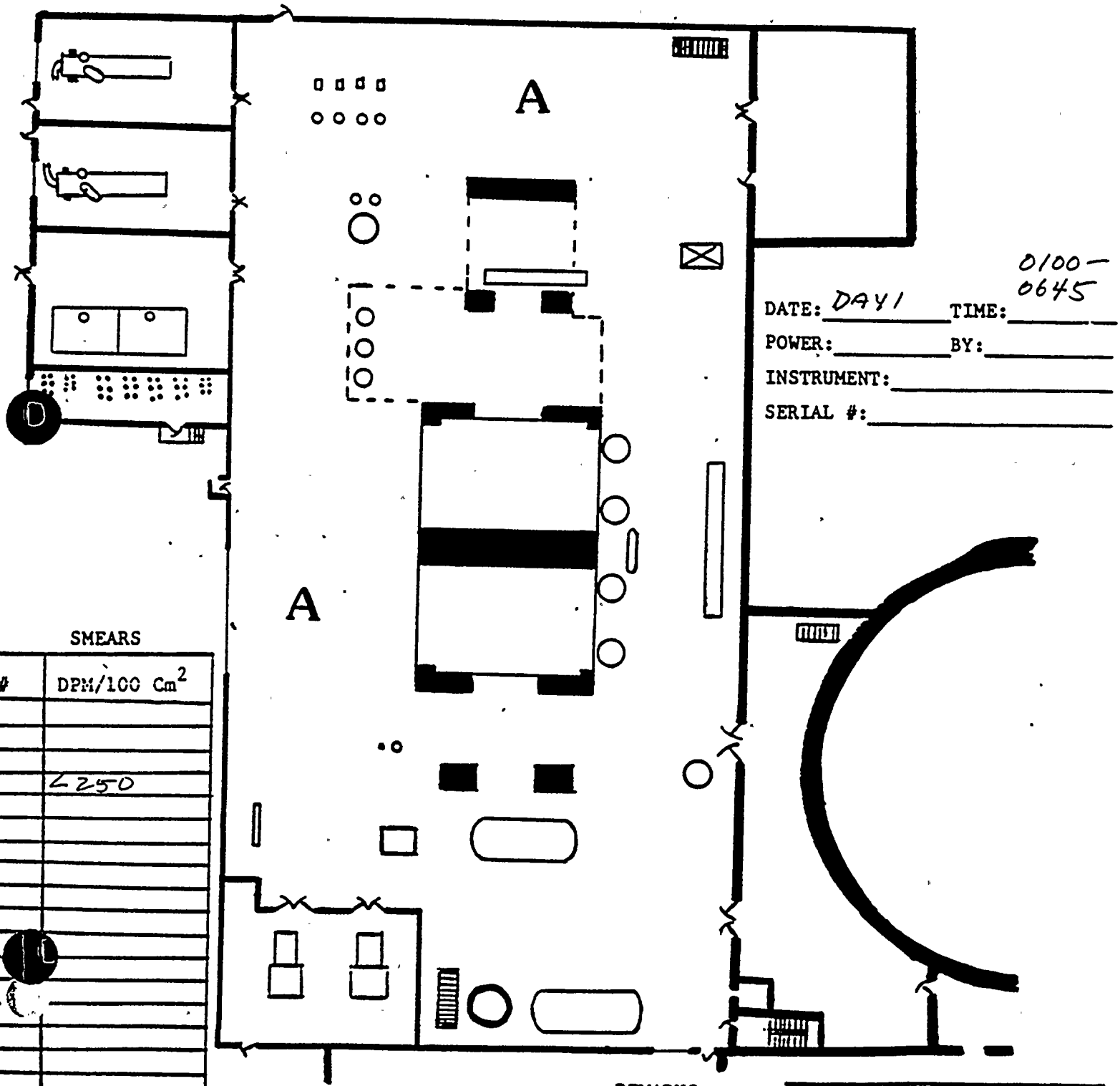
GINNA STATION

TURBINE BUILDING BASEMENT FLOOR

SURVEY MAP

A = 0.02 MR/HR

NORTH



DATE: DAY1 TIME: 0100-0645

POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

SMEARS

#	DPM/100 Cm^2
	<250

REMARKS: _____

RG&E

GINNA STATION

TURBINE BUILDING MEZZANINE FLOOR

SURVEY MAP

A = 0.2 MR/HR

B = 15 MR/HR

DATE: DAY 1 TIME: 0646 - 1000

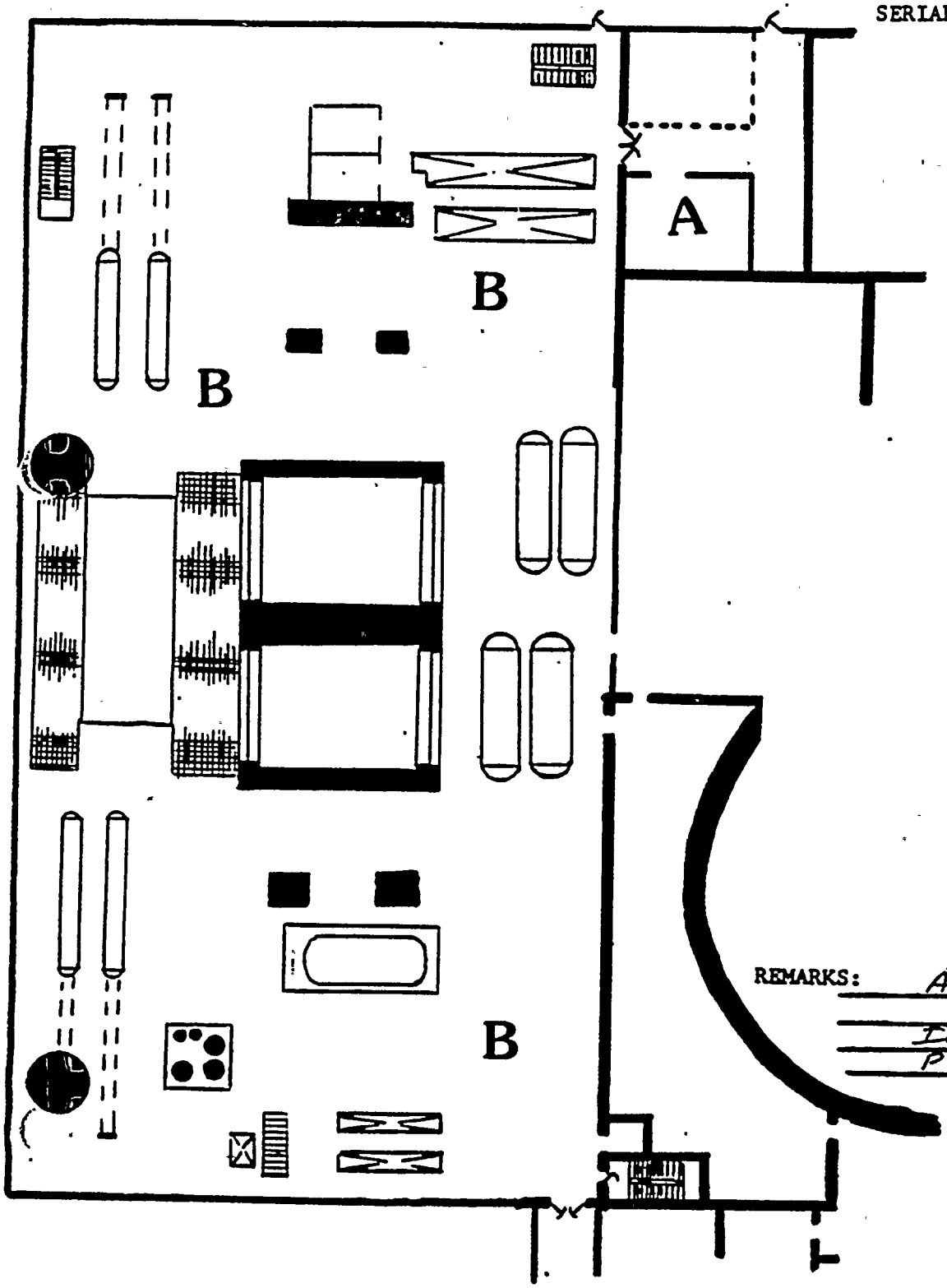
POWER: _____ BY: _____

INSTRUMENT: _____

SERIAL #: _____

NORTH

* TSC = 0.2 MR/HR



SMEARS

#	DPM/100 Cm^2
	250-1000

REMARKS: AIRBORNE (uCi/cc):

IODINE: 2E-8

PARTIC: 3E-8

DAY 1
0100 - 0645 HR

A = 0.05 MR/HR

B = 0.1 - 0.5 MR/HR

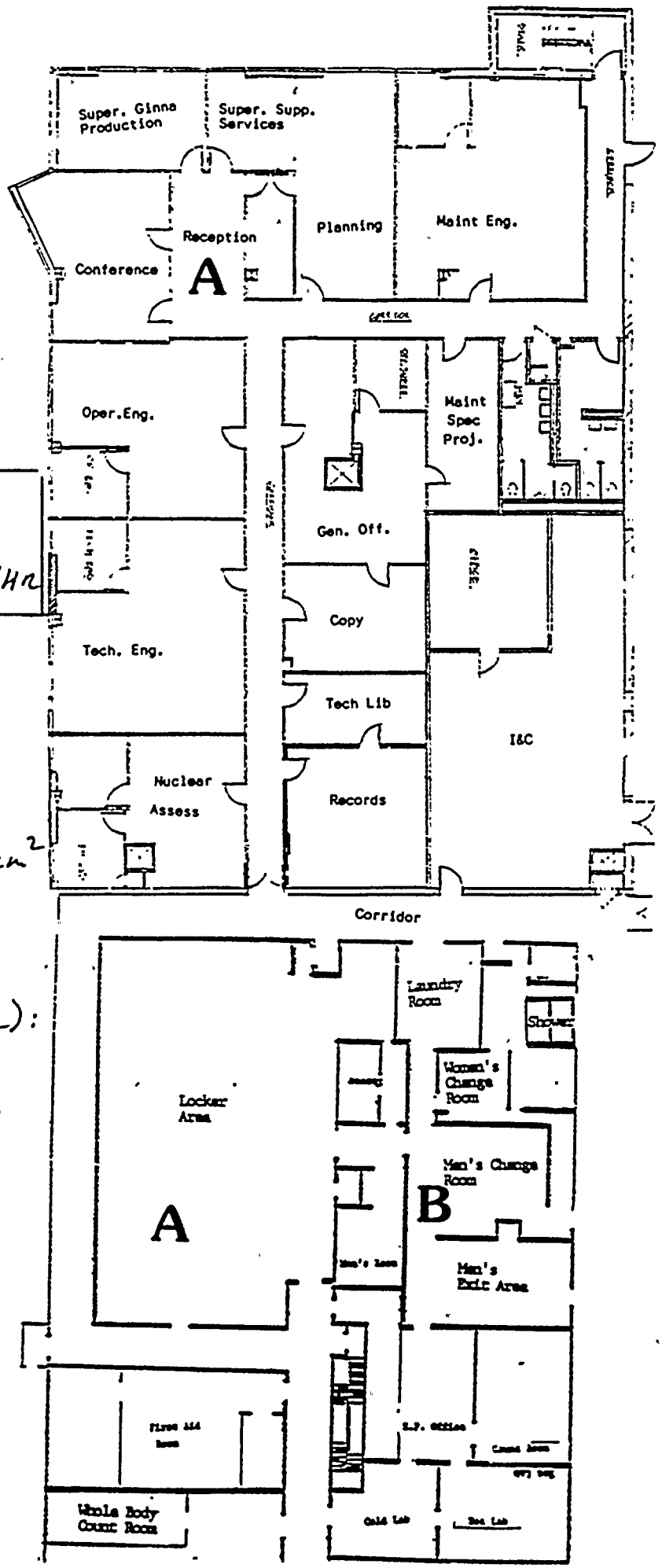
SMEARS:

ALL AREAS
< 250 dpm/100cm²

AIRBORNE (uCi/cc):

IODINE: 2E-11

PART: 2E-11

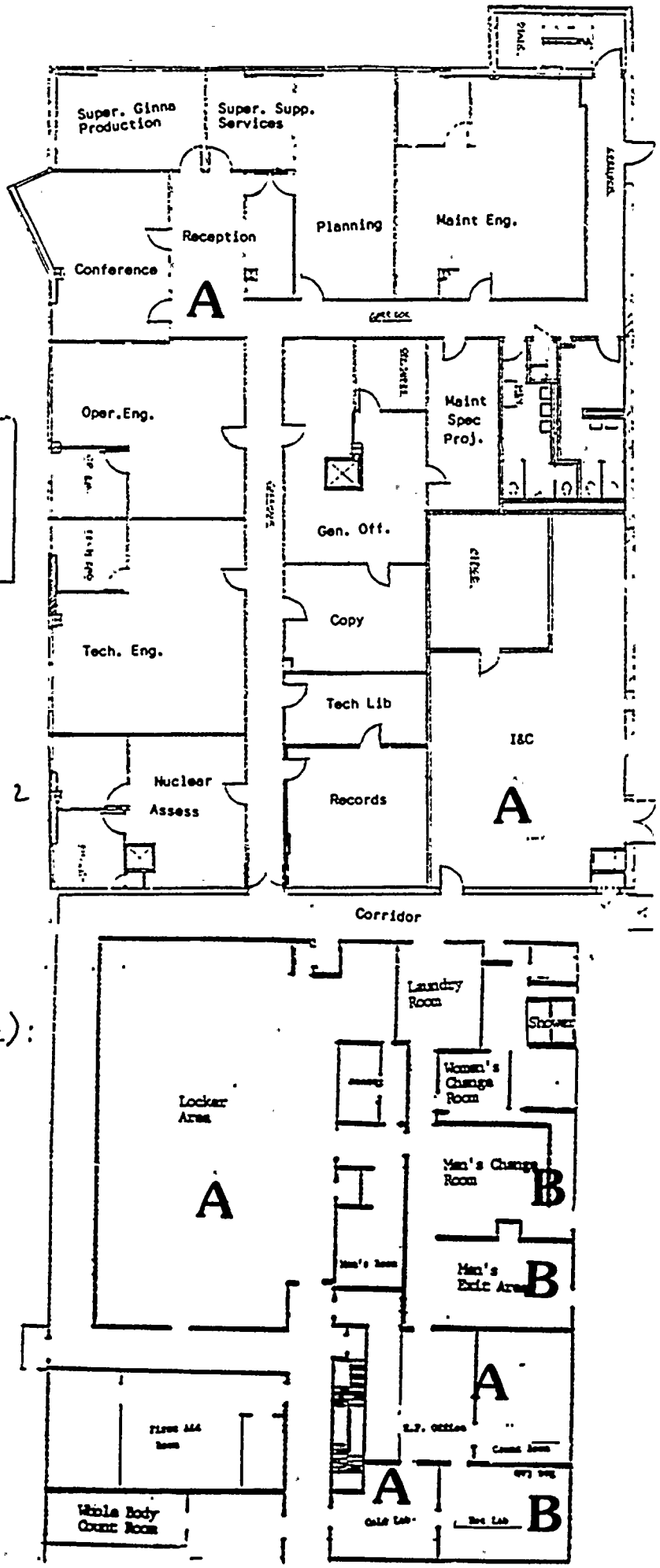


DAY 1
0646-1000 HR

A	= 0.1 MR/HR
B	= 0.5 MR/HR

MEARS:
< 250 dpm/100cm²

AIRBORNE (uCi/cc):
IODINE: 2E-9
PART: 3E-9



SECTION 9.3

IN-PLANT AND POST-ACCIDENT SAMPLING RESULTS

TABLE 9.3

EQUILIBRIUM PRIMARY COOLANT ACTIVITY

(As of 0045 hr, DAY 1)

NUCLIDE	CONCENTRATION (uCi/gm)
KR-85	6.22 E-03
KR-85M	3.34 E-02
KR-87	6.20 E-02
KR-88	7.47 E-02
XE-131M	1.80 E-02
XE-133	7.46 E-01
XE-133M	8.29 E-03
XE-135	2.39 E-01
XE-135M	8.43 E-02
XE-138	2.59 E-01
AR-41	8.43 E-02
TOTAL NOBLE GAS	1.62 E+00
I-131	5.76 E-02
I-132	8.16 E-02
I-133	1.15 E-01
I-134	1.25 E-01
I-135	1.01 E-01
TOTAL RADIOIODINE	4.80 E-01
I-131 DOSE EQUIVALENT	8.33 E-02
CR-51	5.80 E-06
MN-54	7.00 E-06
CO-58	1.26 E-05
CO-60	8.00 E-07
CS-134	6.91 E-04
CS-137	1.27 E-03
BA-140	1.66 E-05
TOTAL PARTICULATES	2.00 E-03

TABLE 9.4-A

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

GAS COLLECTION BOMB

(Collection Between 0531 - 0630 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
KR-85	1.11 E+01
KR-85M	1.12 E+03
KR-87	1.99 E+03
KR-88	2.93 E+03
XE-131M	3.19 E+01
XE-133	1.02 E+04
XE-133M	1.46 E+03
XE-135	1.91 E+03
XE-135M	1.91 E+01
XE-138	1.15 E+01
TOTAL NOBLE GAS	2.0 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 140 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 160 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT = 170 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.4-B

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

GAS COLLECTION BOMB

(Collection Between 0631 - 0800 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
KR-85	1.22 E+01
KR-85M	1.23 E+03
KR-87	2.17 E+03
KR-88	3.35 E+03
XE-131M	3.55 E+01
XE-133	1.12 E+04
XE-133M	1.64 E+03
XE-135	2.17 E+03
XE-135M	2.17 E+01
XE-138	5.11 E+01
TOTAL NOBLE GAS	2.2 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 160 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 175 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT = 190 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.4-C

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

GAS COLLECTION BOMB

(Collection Between 0801 - 1000 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
KR-85	1.09 E+01
KR-85M	1.09 E+03
KR-87	2.09 E+03
KR-88	3.00 E+03
XE-131M	3.27 E+01
XE-133	1.00 E+04
XE-133M	1.55 E+03
XE-135	2.00 E+03
XE-135M	2.00 E+01
XE-138	2.35 E+00
TOTAL NOBLE GAS	2.0 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 140 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 160 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT = 180 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr.)

** Data to be provided to HP/Chemistry personnel in acordance with Exercise ground rules.

TABLE 9.5-A

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

DEGASSED ACTIVITY

(Collection Between 0531 - 0630 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	7.89 E+03
I-132	1.13 E+04
I-133	1.58 E+04
I-134	1.37 E+03
I-135	1.44 E+04
CS-134	3.39 E+03
CS-137	1.06 E+03
BA-140	3.20 E+01
LA-140	3.00 E+01
TOTAL RADIOIODINE	4.8 E+04
I-131 DOSE EQUIVALENT	1.1 E+04
TOTAL DEGASSED ACTIVITY	5.5 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 400 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 440 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 490 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.5-B

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

DEGASSED ACTIVITY

(Collection Between 0631 - 0800 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	5.62 E+03
I-132	8.18 E+03
I-133	1.18 E+04
I-134	3.94 E+02
I-135	9.86 E+03
CS-134	6.06 E+03
CS-137	2.96 E+03
BA-140	9.47 E+01
LA-140	9.00 E+01
TOTAL RADIOIODINE	3.6 E+04
I-131 DOSE EQUIVALENT	8.2 E+02
TOTAL DEGASSED ACTIVITY	4.9 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 360 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 400 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 450 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.5-C

PRIMARY COOLANT SYSTEM SAMPLE ACTIVITY

DEGASSED ACTIVITY

(Collection Between 0801 - 1000 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	5.04 E+03
I-132	7.79 E+03
I-133	1.05 E+04
I-134	1.83 E+03
I-135	9.62 E+03
CS-134	1.51 E+03
CS-137	6.88 E+02
BA-140	2.21 E+01
LA-140	2.00 E+01
TOTAL RADIOIODINE	3.3 E+04
I-131 DOSE EQUIVALENT	7.8 E+03
TOTAL DEGASSED ACTIVITY	3.7 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 270 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 300 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 330 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.6-A

CONTAINMENT SUMP SAMPLE

DEGASSED ACTIVITY

(Collection Between 0531 - 0630 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	5.99 E+03
I-132	9.25 E+03
I-133	1.25 E+04
I-134	2.17 E+03
I-135	1.14 E+04
CS-134	1.79 E+03
CS-137	8.17 E+02
BA-140	2.63 E+01
LA-140	2.50 E+01
TOTAL RADIOIODINE	3.9 E+04
I-131 DOSE EQUIVALENT	9.3 E+03
TOTAL DEGASSED ACTIVITY	4.4 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 320 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 350 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 390 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.6-B

CONTAINMENT SUMP SAMPLE

DEGASSED ACTIVITY

(Collection Between 0631 - 0800 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	2.64 E+03
I-132	4.08 E+03
I-133	5.52 E+03
I-134	9.58 E+02
I-135	5.03 E+03
CS-134	7.90 E+02
CS-137	3.61 E+02
BA-140	1.16 E+01
LA-140	1.00 E+01
TOTAL RADIOIODINE	1.7 E+04
I-131 DOSE EQUIVALENT	4.1 E+03
TOTAL DEGASSED ACTIVITY	2.0 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 140 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 160 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 170 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.6-C

CONTAINMENT SUMP SAMPLE

DEGASSED ACTIVITY

(Collection Between 0801 - 1000 hr, DAY 1)

NUCLIDE	CONCENTRATION* (UCI/GM)
I-131	1.90 E+03
I-132	2.93 E+03
I-133	3.96 E+03
I-134	6.88 E+02
I-135	3.61 E+03
CS-134	5.67 E+02
CS-137	2.59 E+02
BA-140	8.33 E+00
LA-140	8.30 E+00
TOTAL RADIOIODINE	1.2 E+04
I-131 DOSE EQUIVALENT	2.9 E+03
TOTAL DEGASSED ACTIVITY	1.3 E+04

UNDILUTED SAMPLE DOSE RATE @ 1 METER = 100 MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT = 100 R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER = LESS THAN 1 MR/HR

DILUTED SAMPLE DOSE RATE @ 1 CONTACT = 120 MR/HR

* Concentrations corrected to time of reactor shutdown (0535 hr).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.7-A

CONTAINMENT AIR SAMPLE ACTIVITY

(Collection Between 0531 - 0630 hr, DAY 1)

NUCLIDE	CONCENTRATION (UCI/CC)
KR-85	5.26 E-02
KR-85M	5.26 E+00
KR-87	9.20 E+00
KR-88	1.36 E+01
XE-131M	1.49 E-01
XE-133	4.82 E+01
XE-133M	6.57 E+00
XE-135	9.16 E+00
XE-135M	8.76 E-02
XE-138	1.10 E+00
TOTAL NOBLE GAS	9.2 E+01
I-131	4.72 E-02
I-132	6.95 E-02
I-133	9.80 E-02
I-134	1.11 E-03
I-135	8.73 E-02
TOTAL RADIOIODINE	3.0 E-01
CS-134	2.07 E-04
CS-137	9.44 E-05
BA-140	3.00 E-06
LA-140	2.90 E-06

* Concentrations corrected to time of reactor shutdown (0535 hr.).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.7-B

CONTAINMENT AIR SAMPLE ACTIVITY

(Collection Between 0631 - 0645 hr, DAY 1)

NUCLIDE	CONCENTRATION (UCI/CC)
KR-85	5.73 E-02
KR-85M	5.76 E+00
KR-87	1.04 E+01
KR-88	1.51 E+01
XE-131M	1.65 E-01
XE-133	5.10 E+01
XE-133M	7.65 E+00
XE-135	1.00 E+01
XE-135M	1.07 E-01
XE-138	5.08 E-01
TOTAL NOBLE GAS	1.0 E+02
I-131	5.15 E-02
I-132	7.54 E-02
I-133	1.07 E-01
I-134	4.91 E-03
I-135	9.47 E-02
TOTAL RADIOIODINE	3.3 E-01
CS-134	2.25 E-04
CS-137	1.03 E-04
BA-140	3.32 E-06
LA-140	3.00 E-06

* Concentrations corrected to time of reactor shutdown (0535 hr.).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.7-C

CONTAINMENT AIR SAMPLE ACTIVITY

(Collection Between 0646 - 0800 hours)

NUCLIDE	CONCENTRATION (UCI/CC)
KR-85	4.32 E-02
KR-85-M	4.32 E+00
KR-87	8.16 E+00
KR-88	1.12 E+01
XE-131M	1.26 E-01
XE-133	3.94 E+01
XE-133M	5.72 E+00
XE-135	7.42 E+00
XE-135M	7.64 E-02
XE-138	1.92 E+00
TOTAL NOBLE GAS	7.42 E+01
I-131	3.34 E-02
I-132	4.84 E-02
I-133	6.70 E-02
I-134	1.54 E-03
I-135	6.06 E-02
TOTAL RADIOIODINE	2.10 E-01
CS-134	2.36 E-04
CS-137	1.08 E-04
BA-140	3.48 E-06
LA-140	3.00 E-06

* Concentrations corrected to time of reactor shutdown (0535 hr.).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.7-D

CONTAINMENT AIR SAMPLE ACTIVITY

(Collection Between 0831- 1000 hr, DAY 1)

NUCLIDE	CONCENTRATION (UCI/CC)
KR-85	2.00 E-02
KR-85M	2.00 E+00
KR-87	4.00 E+00
KR-88	5.06 E+00
XE-131M	6.16 E-02
XE-133	1.85 E+01
XE-133M	2.86 E+00
XE-135	3.70 E+00
XE-135M	3.80 E-02
XE-138	9.60 E-01
TOTAL NOBLE GAS	3.7 E+01
I-131	1.62 E-02
I-132	2.40 E-02
I-133	3.30 E-02
I-134	7.70 E-03
I-135	3.00 E-02
TOTAL RADIOIODINE	1.0 E-01
CS-134	1.10 E-04
CS-137	5.40 E-05
BA-140	1.70 E-06
LA-140	1.50 E-06

* Concentrations corrected to time of reactor shutdown (0535 hr.).

** Data to be provided to HP/Chemistry personnel in accordance with Exercise ground rules.

TABLE 9.8

EXPOSURE RATES AT VARIOUS DISTANCES FROM PLANT VENTILATION DUCTWORK

TIME	MILLIREM PER HR					
	0.5 FT	1 FT	3 FT	5 FT	10 FT	15 FT
01:00 - 06:44	0.1	0.1	0.1	0.1	0.1	0.1
06:45 - 08:00	10,000	7,900	3,500	2,000	750	380
08:01 - 12:00	5	3	0.8	0.5	0.1	0.1

TABLE 9.9

HYDROGEN CONCENTRATION IN CONTAINMENT

Time	Concentration (vol %)
0000-0530	0.01
0531-0630	0.5
0631-0645	1.0
0646-0800	0.40
0801-1100	0.08

All values are below the combustible level of 4%

TABLE 9.10

PRIMARY SYSTEM BORON DATA

Sample	Time	ppm Boron	pH
RCS	0100-0430	65	7.3
Sump		40	7.4
RCS	0431-0530	120	7.2
Sump		80	7.3
RCS	0531-0630	200	6.9
Sump		140	7.1

NOTE: SI starts at 0530 (Steam Break) and again at 0630 (LOCA)

RCS	0631-0800	1700	5.8
Sump		1400	6.1
RCS	0801-1000	2300	5.4
Sump		2100	5.5

SECTION 10.0

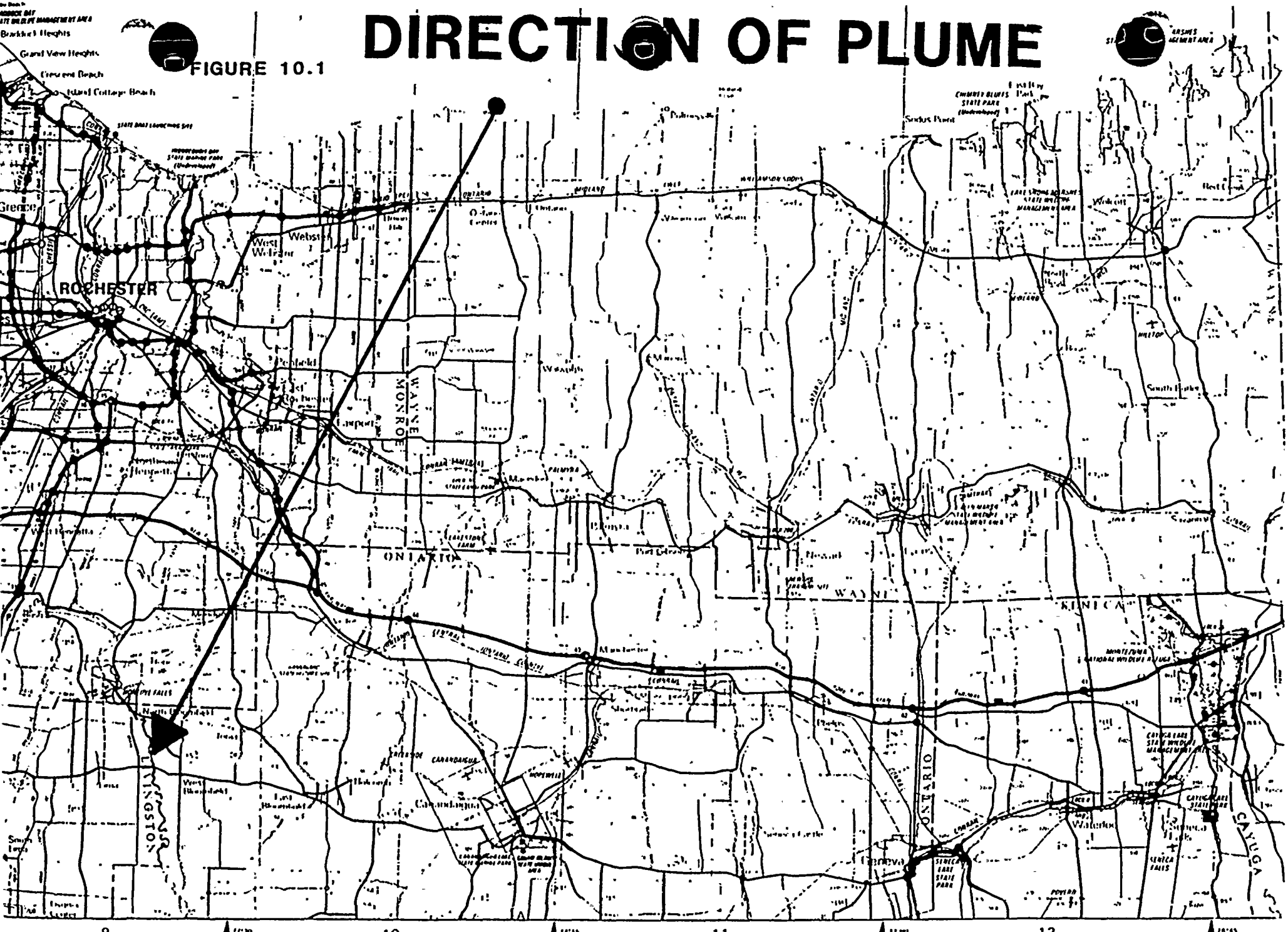
METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA

SECTION 10.1

METEOROLOGICAL CONDITIONS AND FORECASTS

DIRECTION OF PLUME

FIGURE 10.1



SCALE 1:250,000

5 0 5 MILES

NORTH

TABLE 10.1

SUMMARY OF GINNA SITE METEOROLOGICAL CONDITIONS (HOURLY AVERAGES)

CLOCK TIME	WS-33FT (MPH)	WD-33 FT (DEG. FROM)	TEMP - 33 FT	PASQUILL STABILITY	GENERAL WEATHER
DAY 1					
0000-0100	3.2	330	65	F	OVERCAST
0100-0200	3.2	330	65	F	DRIZZLE
0200-0300	3.4	328	67	F	DRIZZLE
0300-0400	4.2	337	69	F	DRIZZLE
0400-0500	4.7	342	70	F	DRIZZLE
0500-0600	5.6	003	71	F	DRIZZLE
0600-0700	5.5	025	73	F	DRIZZLE
0700-0800	5.5	030	74	F	DRIZZLE
0800-0900	5.3	030	75	F	DRIZZLE
0900-1000	7.1	029	75	F	DRIZZLE
1000-1100	7.1	029	75	F	DRIZZLE
1100-1200	7.5	030	76	F	DRIZZLE
1200-1300	7.0	030	75	F	PT.CLOUDY
1300-1400	7.0	030	74	F	PT.CLOUDY
1400-2400	8.0	030	65	D	PT.CLOUDY
DAY 2					
0000-2400		USE ACTUAL METEOROLOGY			
DAY 3					
0000-2400		USE ACTUAL METEOROLOGY			

TABLE 10.2

FORECAST INFORMATION

Weather Forecast*

October , 1987 0200 am

STATION NAME	TMP	WIND	GST	VIS	WEATHER	PS
Kingston, ONT	63	4		15	light rain	G
Rochester, NY	67	3		15	light rain	F
Syracuse, NY	65	5		15	light rain	F
Buffalo, NY	64	5		15	light rain	F

Zone Forecasts

Western Lake Ontario Counties:

- Today - Warm, with light drizzle throughout the day. Winds changing to north-northeasterly this morning at 4 to 6 mph. Scattered showers expected in the Finger Lakes area. Partly cloudy this evening with less than 10% chance of precipitation. Highs in the mid 70's.
- Tonight - Cooler temperatures. Northeasterly winds at 5 to 10 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Eastern Lake Ontario Counties:

- Today - Humid with overcast skies and light rain throughout most of the day. Light winds from the north-northeast at 5 mph. Highs in the mid 70's.
- Tonight - Cooler temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Lake Ontario (South Shore Marine Forecast):

- Winds remaining north-northeasterly throughout the day. Winds less than 8 mph. Wave height less than 1 foot.

* To be provided to the Dose Assessment Manager or designee

TABLE 10.2 (cont'd)

FORECAST INFORMATION

Weather Forecast*

October , 1987 0400 am

STATION NAME	TMP	WIND	GST	VIS	WEATHER	PS
Kingston, ONT	67	4		15	light rain	F
Rochester, NY	69	5		15	light rain	F
Syracuse, NY	68	4		15	light rain	E
Buffalo, NY	66	4		15	light rain	F

Zone Forecasts

Western Lake Ontario Counties:

- Today - Warm, with light drizzle throughout the day. Winds changing to north-northeasterly this morning at 4 to 6 mph. Scattered showers expected in the Finger Lakes area and Southern Tier. Partly cloudy this evening with less than 10% chance of precipitation. Highs in the mid 70's.

- Tonight - Cooler Temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Eastern Lake Ontario Counties:

- Today - Humid with overcast skies and light rain throughout most of the day. Light winds from the north-northeast at less than 5 mph. Highs in the mid 70's.

- Tonight - Cooler temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Lake Ontario (South Shore Marine Forecast):

- Winds remaining north-northeasterly throughout the day. Winds less than 8 mph. Wave height less than 1 foot.

* To be provided to the Dose Assessment Manager or designee.

TABLE 10.2 (cont'd)

FORECAST INFORMATION

Weather Forecast*

October , 1987 0600 am

STATION NAME	TMP	WIND	GST	VIS	WEATHER	PS
Kingston, ONT	70	4		15	light rain	F
Rochester, NY	72	4		15	light rain	F
Syracuse, NY	71	5		15	light rain	E
Buffalo, NY	70	4		15	light rain	E

Zone Forecasts

Western Lake Ontario Counties:

- Today - Warm, with light drizzle throughout the day. Winds from the north-northeast at 4 to 6 mph. Scattered showers expected in the Finger Lakes area and the Southern Tier. Partly cloudy this evening with less than 10% chance of precipitation. High in the mid 70's.
- Tonight - Cooler temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Eastern Lake Ontario Counties:

- Today - Humid with overcast skies and light rain throughout most of the day. Light winds from the north-northeast at less than 5 mph. Highs in the mid 70's.
- Tonight - Cooler Temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Lake Ontario (South Shore Marine Forecast):

- Winds remaining north-northeasterly throughout the day. Winds less than 8 mph. Wave height less than 1 foot.

* To be provided to the Dose Assessment Manager or designee.

TABLE 10.2 (cont'd)

FORECAST INFORMATION

Weather Forecast*

October , 1987 0800 am

STATION NAME	TMP	WIND	GST	VIS	WEATHER	PS
Kingston, ONT	75	5		15	light rain	F
Rochester, NY	77	6		15	light rain	F
Syracuse, NY	76	6		15	light rain	E
Buffalo, NY	75	5		15	light rain	E

Zone Forecasts

Western Lake Ontario Counties:

- Today - Warm, with light drizzle throughout the day. Winds from the north-northeast at 4 to 6 mph. Scattered showers expected in the Finger Lakes area and the Southern Tier. Partly cloudy this evening with less than 10% chance of precipitation. Highs in the mid 70's.

- Tonight - Cooler temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Eastern Lake Ontario Counties:

- Today - Humid with overcast skies and light rain throughout most of the day. Light winds from the north-northeast at less than 5 mph. Highs in the mid 70's.

- Tonight - Cooler temperatures. Northeasterly winds at 6 to 9 mph. Temperature in the low 40's. Less than 10% chance of precipitation.

Lake Ontario (South Shore Marine Forecast):

- Winds remaining north-northeasterly throughout the day. Winds less than 8 mph. Wave height less than 1 foot.

* To be provided to the Dose Assessment Manager or designee.

SECTION 10.2

ONSITE AND OFFSITE RADIOLOGICAL READINGS

PLUME MAP (0-1 MILE)

FIGURE 10.2

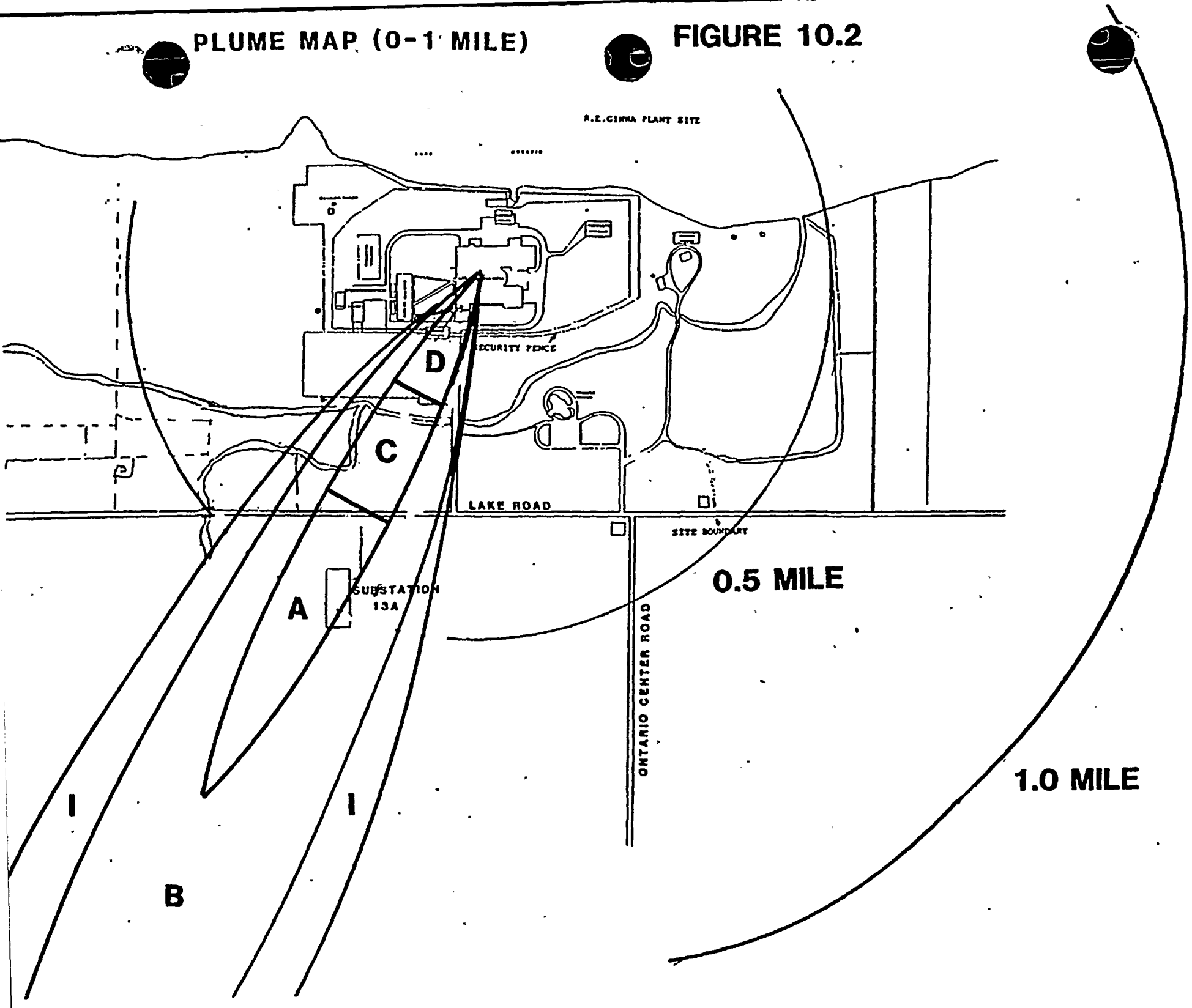


FIGURE 10.3

(REFER TO LARGE SIZE

0 - 10 MILE ZONE MAP)

TABLE 10.3

PLUME ARRIVAL/DEPARTURE TIMES

DISTANCE (MILES)	TIME OF * PLUME ARRIVAL	TIME OF ** PLUME DEPARTURE
0.5	06:50	08:05
1.0	06:55	08:10
2.0	07:05	08:20
3.0	07:15	08:30
4.0	07:25	08:40
5.0	07:35	08:50
6.0	07:45	09:00
7.0	07:55	09:10
8.0	08:05	09:20
9.0	08:15	09:30
10.0	08:25	09:40
11.0	08:35	09:50
12.0	08:45	10:00

NOTES:

* After indicated arrival time, refer to offsite radiological data shown on Table 10.4 for zone of interest.

** After indicated departure time, refer to post-plume offsite radiological data shown on Tables 10.5 and 10.6.

TABLE 10.4

RADIOLOGICAL SURVEY/SAMPLING DATA

ZONE	CLOSE WINDOW (mR/hr) 3 FEET	CLOSE WINDOW (mR/hr) CONTACT	OPEN WINDOW (Mr/hr) 3 FEET	OPEN WINDOW (Mr/hr) CONTACT	DOSIMETRY INCREMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
A	8,800	8,800	12,000	12,000	2,200	14,000	16,000
B	4,800	4,800	6,400	6,400	1,200	6,700	7,800
C	2,400	2,400	3,200	3,200	600	3,200	3,800
D	1,100	1,100	1,400	1,400	270	1,400	1,600
E	670	670	900	900	170	850	990
F	470	470	620	620	120	560	650
G	310	310	410	410	80	270	310
H	210	210	280	280	50	70	80
I	180	180	240	240	45	50	55

NOTES:

1. Dose rate readings apply to AutoDigimaster, RO-2, and CDV-715 instrument or equivalent. Ensure that readings provided do not exceed range of survey instrument being used. Provide only those readings being requested, or in accordance with Controller instructions.

2. Dosimeter incremental exposure assumes a 15-minute stay-time in the particular zone of interest. Incremental values may be scaled up or down as appropriate. Provide cumulative DRD reading only when requested.

3. Air samples assume use of RADECO H-809C air sampler or equivalent. Volume assumed is approximately 300 liters (10 ft3), and field reading is with HP-190 (background = 20 cpm), or HP-210/260 pancake probe (background = 30 cpm).

SECTION 10.3

DEPOSITION DATA AT TERMINATION OF RELEASE

FIGURE 10.4

NYS IP EXERCISE

GINNA RELEASE DEPOSITION PATTERN

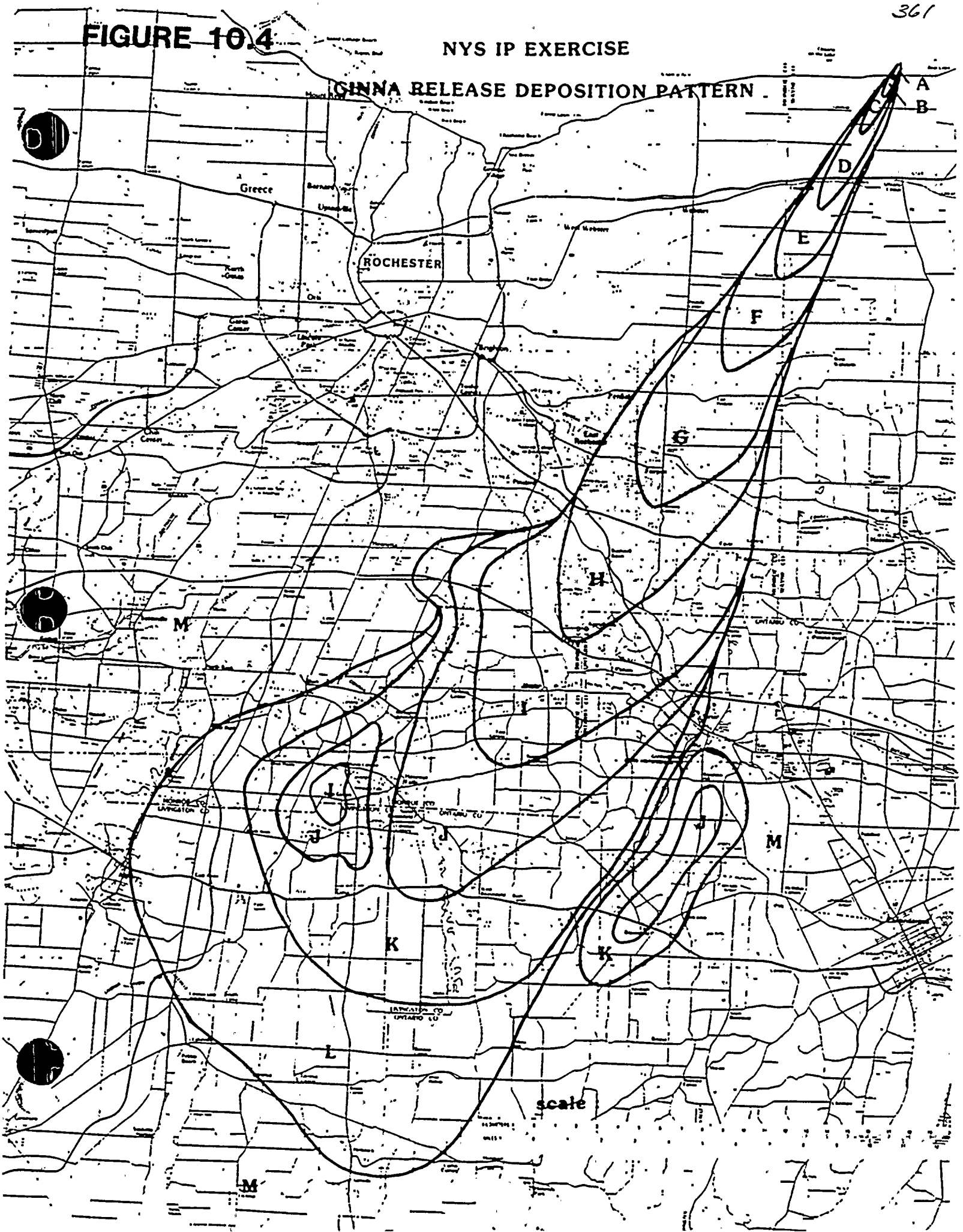


TABLE 10.5

GROUND SURVEYS (CPM)

DAY 1
AFTER PLUME PASSAGE

POST-PLUME RADIOLOGICAL SURVEY/SAMPLING DATA
(FOR END WINDOW AND PANCAKE PROBES)

POST-PLUME DECAY TIME = 0.0 HOURS

ZONE	TOTAL GROUND ACTIVITY UCI/M2	END WINDOW PROBE (CPM)		PANCAKE PROBE (CPM)	
		1 METER	1 CM	1 METER	1 CM
A	2.19E+02	7.1E+03	5.0E+04	1.2E+04	5.0E+04
B	1.19E+02	3.9E+03	4.8E+04	6.3E+03	5.0E+04
C	5.95E+01	1.9E+03	2.4E+04	3.2E+03	5.0E+04
D	2.64E+01	8.7E+02	1.1E+04	1.4E+03	2.6E+04
E	1.67E+01	5.6E+02	6.7E+03	9.1E+02	1.7E+04
F	1.17E+01	4.0E+02	4.7E+03	6.5E+02	1.2E+04
G	7.64E+00	2.7E+02	3.1E+03	4.3E+02	7.6E+03
H	5.20E+00	1.9E+02	2.1E+03	3.0E+02	5.2E+03
I	4.50E+00	1.6E+02	1.8E+03	2.7E+02	4.5E+03
J	1.22E+00	5.9E+01	4.9E+02	9.4E+01	1.2E+03
K	2.61E-01	5.4E+01	1.0E+02	8.5E+01	2.6E+02
L	2.19E-01	4.8E+01	8.7E+01	7.6E+01	2.2E+02
M	L.T. LLD	2.0E+01	2.0E+01	3.0E+01	3.0E+01

NOTE: ASSUMED BACKGROUND READING

20 CPM (END WINDOW)
30 CPM (PANCAKE)

TABLE 10.6

MICRO-R/HR

DAY 1

GAMMA MICRO-R/HR READINGS
DUE TO GROUND DEPOSITION

POST-PLUME DECAY TIME = 0.0 HOURS

ZONE	TOTAL GROUND ACTIVITY UCI/M2	@1 METER MICRO-R/HOUR	@1 CM MICRO-R/HOUR
A	2.19E+02	3.2E+03	5.5E+03
B	1.19E+02	1.7E+03	3.0E+03
C	5.95E+01	8.7E+02	1.5E+03
D	2.64E+01	3.9E+02	6.6E+02
E	1.67E+01	2.4E+02	4.2E+02
F	1.17E+01	1.7E+02	2.9E+02
G	7.64E+00	1.1E+02	1.9E+02
H	5.20E+00	7.6E+01	1.3E+02
I	4.50E+00	6.6E+01	1.1E+02
J	1.22E+00	1.8E+01	3.0E+01
K	2.61E-01	1.5E+01	2.6E+01
L	2.19E-01	1.3E+01	2.2E+01
M	L.T. LLD	1.0E+01	1.0E+01

NOTE: ASSUMED BACKGROUND READING: 10 MICRO-R/HR

AIR SAMPLE ISOTOPIC RESULTS

TABLE 10.7-A

AIR PARTICULATE FILTER
ISOTOPIC ACTIVITY

(COLLECTION DURING RELEASE)

ZONE	TOTAL ACTIVITY UCI/CC	FIELD READING (CPM)	I-131 UCI/CC	I-133 UCI/CC	CS-134 UCI/CC	CS-137 UCI/CC	BA-140 UCI/CC	LA-140 UCI/CC
A	1.27E-06	16,068	1.89E-07	3.78E-07	1.81E-09	8.31E-10	4.23E-11	4.23E-11
B	6.16E-07	7,822	9.18E-08	1.84E-07	8.81E-10	4.04E-10	2.06E-11	2.06E-11
C	2.97E-07	3,778	4.42E-08	8.84E-08	4.24E-10	1.95E-10	9.90E-12	9.90E-12
D	1.25E-07	1,606	1.87E-08	3.73E-08	1.79E-10	8.21E-11	4.18E-12	4.18E-12
E	7.63E-08	986	1.14E-08	2.27E-08	1.09E-10	5.00E-11	2.55E-12	2.55E-12
F	4.97E-08	649	7.40E-09	1.48E-08	7.11E-11	3.26E-11	1.66E-12	1.66E-12
G	2.32E-08	314	3.46E-09	6.92E-09	3.32E-11	1.52E-11	7.75E-13	7.75E-13
H	4.74E-09	80	7.06E-10	1.41E-09	6.78E-12	3.11E-12	1.58E-13	1.58E-13
I	2.73E-09	55	4.07E-10	8.14E-10	3.91E-12	1.79E-12	9.12E-14	9.12E-14
J	1.13E-09	34	1.68E-10	3.35E-10	1.61E-12	7.38E-13	3.75E-14	3.75E-14
K	3.85E-10	25	5.73E-11	1.15E-10	5.50E-13	2.52E-13	1.28E-14	1.28E-14
L	8.06E-11	21	1.20E-11	2.40E-11	1.15E-13	5.28E-14	2.69E-15	2.69E-15
M	L.T. LLD	20	L.T. LLD	L.T. LLD	L.T. LLD	L.T. LLD	L.T. LLD	L.T. LLD

TABLE 10.7-B

SILVER ZEOLITE CARTRIDGE
RADIOIODINE ISOTOPIC ACTIVITY

ZONE	TOTAL ACTIVITY UCI/CC	FIELD READING (CPM)	I-131 UCI/CC	I-132 UCI/CC	I-133 UCI/CC	I-134 UCI/CC	I-135 UCI/CC
A	3.80E-06	13,672	5.66E-07	8.16E-07	1.13E-06	2.55E-07	1.03E-06
B	1.85E-06	6,657	2.75E-07	3.97E-07	5.51E-07	1.24E-07	4.98E-07
C	8.89E-07	3,217	1.33E-07	1.91E-07	2.65E-07	5.97E-08	2.40E-07
D	3.75E-07	1,369	5.60E-08	8.06E-08	1.12E-07	2.52E-08	1.01E-07
E	2.28E-07	842	3.41E-08	4.91E-08	6.82E-08	1.53E-08	6.17E-08
F	1.49E-07	555	2.22E-08	3.20E-08	4.44E-08	9.99E-09	4.02E-08
G	6.96E-08	270	1.04E-08	1.50E-08	2.08E-08	4.67E-09	1.88E-08
H	1.42E-08	71	2.12E-09	3.05E-09	4.24E-09	9.54E-10	3.84E-09
I	8.19E-09	49	1.22E-09	1.76E-09	2.44E-09	5.50E-10	2.21E-09
J	3.37E-09	32	5.03E-10	7.24E-10	1.01E-09	2.26E-10	9.10E-10
K	1.15E-09	24	1.72E-10	2.48E-10	3.44E-10	7.74E-11	3.11E-10
L	2.41E-10	21	3.60E-11	5.18E-11	7.20E-11	1.62E-11	6.52E-11
M	L.T. LLD	20	L.T. LLD	L.T. LLD	L.T. LLD	L.T. LLD	L.T. LLD