

1988

**GINNA STATION  
EMERGENCY PREPAREDNESS  
EXERCISE SCENARIO**

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**THE ROCHESTER GAS AND ELECTRIC CORPORATION**

**GINNA STATION**

**EMERGENCY PREPAREDNESS EXERCISE MANUAL**

**1988 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE**

**OCTOBER, 1988**

**Prepared By:**

**Rochester Gas and Electric Corporation**

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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

1988 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

FOREWORD

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

The Rochester Gas and Electric Corporation and the State of New York approve this document as the standard for conduct in performance of the October 1988, Emergency Preparedness Exercise.



THE ROCHESTER GAS AND ELECTRIC CORPORATION, GINNA STATION  
1988 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

INTRODUCTION

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

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

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

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



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1988 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

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GINNA STATION  
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## GINNA STATION

## 1988 PLUME EXPOSURE EMERGENCY PREPAREDNESS EXERCISE

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PART I

GENERAL INFORMATION

**SECTION 1.0**

**SCOPE AND OBJECTIVES**

1.0 SCOPE AND ON-SITE OBJECTIVES - PLUME EXPOSURE PATHWAY

1.1 Scope

The 1988 Full Scale Emergency Preparedness Plume Exposure Pathway Exercise will simulate accident events culminating in a radiological accident resulting in the activation of on-site and off-site facilities. 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.

1.2 On-Site Objectives for the 1988 Ginna Evaluated Plume Exposure Pathway Exercise

The major objective of the Exercise is to demonstrate the response capabilities of the Rochester Gas and Electric Corporation Emergency 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 availability of appropriate equipment and procedures for measurement of airborne radioiodine concentrations as low as  $1.0 \text{ E-7 uCi/cc}$  in the presence of noble gases.
- 1.2.9 Demonstrate the availability of appropriate equipment and procedures for the collection of environmental samples.
- 1.2.10 Demonstrate the ability to project dosage to the public via plume exposure, based on Plant and field data, and to determine appropriate protective measures, based on Plant conditions, Protective Action Guidelines, available shelter, evacuation time estimates, expected release duration, and other appropriate factors.
- 1.2.11 Demonstrate the ability to notify 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 Ginna Station.
- 1.2.13 Demonstrate the ability to notify emergency support pools as appropriate (i.e., INPO, ANI, etc.).
- 1.2.14 Demonstrate the ability to notify 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.
- 1.3 Summary of Proposed Activities

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

\*Note: Open item identified during NRC Inspection No. 50-244/87-12.



TABLE 1.1

1988 GINNA STATION EMERGENCY PREPAREDNESS EXERCISE  
(PLUME EXPOSURE)

PROPOSED ON-SITE ACTIVITIES

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

**\*Note:** Field teams will be deployed and will demonstrate communications with respective emergency response facilities. Exercise scenario may result in only background field readings.

## SIMULATIONS

- o Respiratory protection and protective clothing will be simulated by onsite/offsite survey teams. In-Plant teams will don such protection at the Controller's discretion.
- o Call out of off-site fire companies will be simulated



1.4      OFFSITE OBJECTIVES AND PROPOSED ACTIVITIES

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

<u>Agency</u>	<u>Attachment</u>
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..

1.5      SUMMARY OF PROPOSED OFF-SITE ACTIVITIES

Attachment A also lists a summary of proposed activities for the 1988 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 to that particular agency.

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

2.0 EXERCISE INFORMATION

2.1 Exercise Participants

The participants in the Exercise will include the following:

2.1.1 ROCHESTER GAS AND ELECTRIC CORPORATION

A. Facilities Management and Support Personnel

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

B. Emergency Response Teams

1. Radiation Survey Teams (RSTs)
2. First Aid Team (if necessary)
3. Emergency OSC Teams
4. Security Force
5. Post Accident Sampling System (PASS) Team
6. Chemistry/Health Physics Support
7. Fire Brigade (if necessary)

2.1.2 OFF-SITE AGENCIES/ORGANIZATIONS

Limited participation of the following agencies/organizations is expected:

A. Federal

1. Nuclear Regulatory Commission (NRC)
2. United States Coast Guard (USCG)

B. State

1. New York State Emergency Management Offices
2. New York State Radiological Emergency Preparedness Group

C. Local

1. Wayne County
2. 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:

- A. A Lead Controller is assigned to each emergency response facility. The Lead Controller is responsible for all Controller, Evaluator and Observer activities for that facility and, if appropriate, its associated teams. Controllers for teams or sub areas of a facility report to the Lead Controller of that facility.
- B. The Controllers will deliver "Exercise Messages" to the designated Players at various times and places during the Exercise, inject or deliver additional messages as may be required to initiate the appropriate Player response and keep the Exercise action moving according to the scenario and Exercise objectives, observe the Exercise participants at their assigned locations, and prepare evaluation forms. Controllers/Observers submit written recommendations on corrective actions to the Lead Controller, who in turn summarizes all comments for submittal to the Exercise Coordinator prior to the scheduled critique. The Controllers will be provided with a list of instructions in the Exercise scenario.
- C. Persons designated as Controllers/Observers for a given function will also be assigned as Evaluators of that function when feasible. Evaluators will record their observations using an evaluation form and provide recommendations on corrective actions to the Lead Controller in whose facility they evaluate exercise performance on the basis of standards or requirements contained in the appropriate Emergency Plan, Implementing Procedures, and Exercise messages as described herein. They will take steps, whenever possible, to collect data on the time and motion aspects of the activity observed for post-Exercise use for implementing improvements.

Controllers will be identified by wearing green 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. They will be provided with orientation information and appropriate Exercise publications.

Visitors will be identified by wearing white arm bands with black lettering stating "Visitor".

2.2.5 Requests to participate as a Visitor should be made in writing and contain the Visitor's full name, home address and phone number, and organization affiliation. Requests to participate as Visitors must be submitted to the RG&E Corporation 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:

#### A. 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.

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

When emergency conditions escalate to an Alert status or higher, coordination of the emergency response will shift from the Control Room to the TSC, located off the Mezzanine Level of the Turbine Building (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.

**C. Operations Support Center**

The OSC, which is located in the TSC, provides a location where emergency response teams can be assembled and coordinated during an emergency. The OSC will be activated for emergency conditions classified as an Alert or higher, and may be activated for an Unusual Event at the discretion of the Emergency Coordinator.

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

The EOF, which is located in the basement of 49 East Avenue in Rochester, will be activated for emergency conditions classified as a Site Area Emergency or General Emergency (optional for the Alert status). The EOF/Recovery Manager directs the activities of the EOF/Recovery Organization from the EOF. The 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.

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

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

## 2.4 Exercise Conduct

### 2.4.1 Overview

The Exercise will simulate an abnormal radiological incident at Ginna Station which will start with an Alert 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 County 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 Simulator Control Room, OSC, TSC, EOF, JENC and County EOCs. Only Lead Controllers can modify Exercise messages or initiate free play messages.

- A. The Simulator Control Room will be the central point for organization of Exercise messages and is the key to ensuring that the Exercise progresses on schedule. Simulated Plant parameters will be provided to the Simulator Control Room operators using 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.
- B. 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 Controller.

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

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



#### 2.4.5 Players

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

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

#### 2.5 Precautions and Limitations

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

- A. Should at any time during the course of the conduct of this Exercise, an actual emergency situation arise, all activities and communications related to the Exercise will be suspended. It will be the responsibility of any Exercise Controller or Observer that becomes aware of an actual emergency to suspend exercise response in his/her immediate area and to inform the Lead Exercise Controller of the situation. Upon notification of an actual emergency, the Lead Exercise Controller may notify all other Controllers/Observers to suspend all Exercise activities. The Lead Exercise Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the Exercise.

- B. Should, at any time during the course of the conduct of this Exercise, an Exercise Controller or Observer witness an Exercise participant undertake any action which would, in the opinion of the Controller/Observer, place either an individual or component in an unsafe condition, the Controller/Observer is responsible for intervening in the individual's actions and terminating the unsafe activity immediately. Upon termination of the activity, the Controller/Observer is responsible for contacting the Lead Exercise Controller and informing him of the situation. The Lead Exercise Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the Exercise.
- C. No pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems will be required for the Exercise.
- D. Manipulation of any Plant operating systems (except for the PASS system), valves, breakers, or controls in response to this Exercise are only to be simulated. There is to be no alteration of any Plant operating equipment, systems or circuits during the response to this Exercise.
- E. All repair activities associated with the scenario will be simulated with extreme caution emphasized around operating equipment.
- F. All telephone communications, radio transmissions and public address announcements related to the exercise must begin and end with the statement, "This is an exercise". Should a Controller or Observer witness an Exercise participant not observing this practice, it is the Controller's/Observer's responsibility to remind the individual of the need to follow this procedure.
- G. Any motor vehicle response to this Exercise, whether it be ambulance, fire fighting equipment, police/security vehicles or field monitoring teams, should observe all normal motor vehicle operating laws included posted speed limits, stop lights/signs, one way streets, etc.
- H. Should any 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 qualifications to evaluate the activity in their assigned location. Controllers/Observers will evaluate Exercise performance on the basis of requirements contained in the Emergency Plan Implementing Procedures and Exercise messages. Controllers/Observers will prepare evaluation forms and provide recommendations on corrective actions to the Exercise Coordinator.

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

Controller and Observer information is contained in Section 5.0.

The schedule for the critiques is shown in Section 6.0.

SECTION 3.0

TRAVEL INFORMATION

3.0 TRAVEL INFORMATION

This section of the 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: **Corporate Emergency Planner**  
**Rochester Gas and Electric Corporation**  
**89 East Avenue**  
**Rochester, NY 14649-0001.**

3.1 Directions to Ginna Nuclear Station

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

3.1.1 Air

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

3.1.2 Car

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

B. Persons traveling from the Rochester-Monroe County International Airport via auto should take 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 Ginna Station. Total distance is approximately 40 miles.

3.2 Directions to the EOF, RSC and KNJC

3.2.1 Air

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

3.2.2 Car

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

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

3.3 Accommodations

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

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

**SECTION 4.0**

**REFERENCES/ABBREVIATIONS - ACRONYMS**





#### 4.1 References

- 4.1.1 10 CFR 50.47, 50.54, Appendix E
- 4.1.2 44 CFR 350.9
- 4.1.3 NUREG-0654/FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- 4.1.4 RG&E Nuclear Emergency Response Plan 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)



**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 Simulator Control Room Exercise Controller as part of the communications testing.
- 5.1.3 All Controllers will comply with instructions from the Lead Controller.
- 5.1.4 Each Controller will have copies of the messages controlling the progress of the Exercise scenario. No message shall be delivered out of sequence or other than as written unless specifically authorized by the Lead Controller.
- 5.1.5 Messages controlling the progress of the scenario are noted with a number. Contingency messages are noted with a number followed by the letter "X" (e.g., 10X).
- 5.1.6 Each 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 not provide information to the Players regarding scenario development or resolution of problem areas encountered in the course of the simulated emergency.

The Exercise participants are expected to obtain information through their own organizations and exercise their own judgement in determining response actions and resolving problems.

- 5.1.8 Some Players may insist that certain parts of the scenario are unrealistic. The Lead Controllers have the sole authority to clarify any questions regarding scenario content.
- 5.1.9 Each Controller will take detailed notes regarding the progress of the Exercise and the responses of the Exercise participants at their respective assigned locations. Each Controller will carefully note the arrival and departure time for participants, the times at which major activities or milestones occur and problem areas encountered. The Controllers will retain their notes for the purposes of reconstructing the Exercise chronology and preparing a written evaluation of the Exercise.

5.2 Evaluation Instructions

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

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

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

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

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

NA - Not applicable to the situation or not observed.

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

### 5.2.1 Facility

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

### 5.2.2 Team

- o Timely notification and activation.
- o Adequacy of staffing.
- o Familiarity with appropriate emergency procedures, duties and responsibilities.
- o Availability and utilization of proper equipment.

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

### 5.3 Personnel Assignments

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

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:

- Simulator 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



\*\*\*TO BE REVISED\*\*\*

TABLE 5.1

1988 GINNA EXERCISE

CONTROLLER ORGANIZATION

Simulator Control Room

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

Technical Support Center

Dick Marchionda	(Lead)
Bob Hynes	Operations Assessment
Bob Elias	Technical Assessment
Bob Wood	Security
Al Salemi	Dose Assessment (NiMo)
MaryAnn Chaubard (O)	Health Physics (NYPA)
Art Zarembo (O)	Communications/General (NYPA)
Mark Prairie (O)	General (NYPA)

Operations Support Center

Dave Hamelink	(Lead)
Dick Biedenbach	Mechanical/Fire
Gregg Joss	Operation/Testing
Mike Leach	I&C
Jim Bement	Health Physics 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

Emergency Operations Facility

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

Emergency Joint News Center

Dick Sullivan (Lead)  
Ed Kaish (O) (NiMo)  
Todd Forte (O)

Engineering Support Center

Charles Anderson (Lead)

(O) Indicates Observer Only

\*\*\*TO BE REVISED\*\*\*  
TABLE 5.2

1988 - R.E. GINNA UNANNOUNCED/OFFHOURS EXERCISE  
OBSERVER/EVALUATOR ASSIGNMENTS

	<u>Monroe County</u>	<u>Wayne County</u>
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 (9:00 AM - 12)	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)

## 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 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 adjustments 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.

-16 BE REVISSED

## GINNA STATION

## 1988 EVALUATED EXERCISE

PUBLIC INFORMATION QUESTIONSTIME

- o This is \_\_\_\_\_ from Radio Station WSMR. We understand that there is an emergency at the Ginna Nuclear Plant. What is happening?
- o 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?
- o 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?
- o 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?
- o 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 significance of an ALERT?

TIME

- o 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?
- o 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?
- o 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?
- o 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 homeowner's insurance states that I am not covered for nuclear accidents!

**NOTE** Note to Controllers: The Exercise is terminated.



TIME

- 0000 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?
- 0000 (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 her 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.)
- 0000 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?
- 0000 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? Who do I call to get a check for my expenses?
- 0000 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

- o 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 Richter 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.
- o I hear there's an earthquake emergency at the nuclear power plant.
- o How will I know when to evacuate?
- o 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?
- o Has any radiation been released yet?
- o How can you be sure?
- o How can I find out when there is a release?
- o 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 her up once the kids are evacuated?
- o We've lost our emergency information handbook and need one right away. Will one of the emergency people you have deliver one to us?
- o 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?
- o 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

- 0000o 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?
- 0000o 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

SCHEDULE OF EVENTS

SECTION 6.0

1988 GINNA STATION EXERCISE

SCHEDULE OF EVENTS

(LATER)

SECTION 7.0

EXERCISE SCENARIO



Time: 0645  
Message: I.C.

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheet

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

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FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Review initial conditions and Plant status sheets with the Exercise operating crew.
- 2) Review Exercise precautions/limitations and any Exercise activities that are 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 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

1988 EMERGENCY PREPAREDNESS EXERCISE  
INITIAL CONDITIONS

1. The R.E. Ginna Nuclear Power Plant is operating at 100% rated thermal power. The Plant has just returned to 100% power at 0300 hours this morning after reducing power to approximately 45% to retrieve dropped control rod G-7. Prior to the power reduction the unit had been operating at 100% power continuously for 150 days. RCS boron concentration is approximately 495 ppm.
2. The reactor coolant system activity is approximately 20% of Technical Specifications and increasing.
3. The 1A emergency diesel generator is held to repair a fuel oil leak on the engine fuel oil filter. The 1B emergency diesel generator is running on 480 volt Bus 17 per Procedure T-27.4 (Diesel Generator Operation). The 1A emergency diesel generator was held at 0600 hours this morning.
4. The 34.5 kV circuit 751 is held for breaker testing. If needed, the circuit could be placed back in service within 30 minutes.
5. The 1A charging pump is held for plunger replacement since 0400 this morning.
6. The turbine driven auxiliary feedwater pump is held for pump thrust bearing replacement. All parts are available and the pump thrust bearing is completely disassembled awaiting assembly.



## 1988 EVALUATED EXERCISE

Time: 0645MAJOR PARAMETERS

	YES/NO	
Reactor Shutdown	<u>0</u>	CPS
N-31	<u>0</u>	CPS
N-32	<u>92/10<sup>-4</sup></u>	AMPS
N-35	<u>72/10<sup>-4</sup></u>	AMPS
N-36	<u>100</u>	%
Avg. Nuclear Power	<u>2240</u>	PSIG
RCS Pressure	<u>30</u>	%
PRZR Level	<u>RUNNING</u>	STOPPED
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>52</u>	%
1A S/G Level	<u>52</u>	%
1B S/G Level	<u>760</u>	PSIG
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>ONLINE</u>	OFFLINE
Turbine/Generator	<u>ENERGIZED</u>	DEENERGIZED
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>-0.1</u>	PSIG
Cmnt Pressure	<u>7.8</u>	FEET
Cmnt Sump A Level	<u>8</u>	INCHES
Cmnt Sump B Level	<u>600</u>	°F
Loop Hot Leg	<u>547</u>	°F
Loop Cold Leg	<u>600</u>	°F
Loop Hot Leg	<u>542</u>	°F
Loop Cold Leg	<u>100</u>	%
RVLIS	<u>604</u>	°F
*CET	<u>0</u>	GPM
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 70 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19, 88  
06:45:10

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.56213-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.24217-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.38124-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.16896-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.63	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.4	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.1	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	51.9	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	1.10	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

7-8

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.3	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.8	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.2	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	573.2	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.1	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	- 1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	70.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	70.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1570.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	268	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	70.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	72.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	2.3	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	8.78E+00	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.06E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	6.2E+02	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	5.9E+02	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	7.7E+01	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	stand by	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	stand by	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	stand by	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

Time: 06:45

## '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.	MNR	AVRN	CNT	I
WD 33A	0268	03000	0250	0285	0072	0020	0064	00
WD 33B	0265	03010	0252	0285	0071	0021	0063	00
WD150A	0271	03100	0251	0292	0045	0022	0062	00
WD150B	0272	03000	0252	0285	0035	0023	0060	02
WD 250	0275	03000	0260	0290	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0702	00	TER33B	0702	00	TEL50A	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	0056							





8-8  
Time: 0700  
Message: 1

GINNA STATION

1988 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 1988 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:

MAJOR PARAMETERS

	YES	NO	
Reactor Shutdown			
N-31	<u>0</u>		CPS
N-32	<u>0</u>		CPS
N-35	<u>9X10<sup>-4</sup></u>		AMPS
N-36	<u>7X10<sup>-4</sup></u>		AMPS
Avg. Nuclear Power	<u>100</u>		%
RCS Pressure	<u>2240</u>		PSIG
PRZR Level	<u>49</u>		%
A RCP	<u>RUNNING</u>	<u>STOPPED</u>	
B RCP	<u>RUNNING</u>	<u>STOPPED</u>	
1A S/G Level	<u>53</u>		%
1B S/G Level	<u>52</u>		%
1A S/G Pressure	<u>760</u>		PSIG
1B S/G Pressure	<u>760</u>		PSIG
Turbine/Generator	<u>ONLINE</u>	<u>OFFLINE</u>	
4 KV Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
480V Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
Cmnt Pressure	<u>-0.1</u>		PSIG
Cmnt Sump A Level	<u>1.8</u>		FEET
Cmnt Sump B Level	<u>4.8</u>		INCHES
Loop Hot Leg	<u>600</u>		°F
Loop Cold Leg	<u>547</u>		°F
Loop Hot Leg	<u>600</u>		°F
Loop Cold Leg	<u>542</u>		°F
RVLIS	<u>100</u>		%
*CET	<u>6.04</u>		°F
S/G A Total Aux FW Flow	<u>0</u>		GPM
S/G B Total Aux FW Flow	<u>0</u>		GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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

Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 71 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OC. 19, 88  
07:00:05

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.45921-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.27632-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.49652-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.20051-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.44	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.3	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.8	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.8	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	56.8	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.10	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

01-8



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19 8  
07:00

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.9	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.9	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.3	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.3	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	71.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	71.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	



TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1567.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	265	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	70.5	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	73.6	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.1	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	8.78E+00	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.06E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.2E+03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	5.9E+02	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.5E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR



Time: 07:00

'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	0265	03000	0250	0285	0072	0020	0064	00	
WD 33B	0265	03010	0241	0285	0071	0021	0063	00	
WD150A	0275	03100	0250	0290	0045	0022	0062	00	
WD150B	0273	03000	0250	0285	0035	0023	0060	02	
WD 250	0276	03000	0255	0290	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	0056								



Time: 0715  
Message: 2

GINNA STATION

1988 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:

## 1988 EVALUATED EXERCISE

Time: 0715

MAJOR PARAMETERS

Reactor Shutdown	YES <u>NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9410</u>	AMPS
N-36	<u>7410</u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2245</u>	PSIG
PRZR Level	<u>49</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cmnt Pressure	<u>-0.12</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>4.8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
A Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>600</u>	°F
B Loop Cold Leg	<u>545</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>604</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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

Post Accident Dampers OPEN/CLOSEDService Water Pumps

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

A&B Header Pressure 71 PSIGComponent 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19,88  
07:15:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.54712-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.30063-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.39056-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.17968-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.51	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2245.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.1	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.6	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.0	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	759.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	12.	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

9-18

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19 -  
07:15:23

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.9	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.8	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.3	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	573.1	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	71.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	71.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

PROG NNA :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 88  
07:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1565.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	4.2	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	262	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	71.5	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	74.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	8.78E+00	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.06E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.9E+03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	5.7E+02	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	2.3E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	8.6E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standb	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standb	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standb	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	6.0E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	6.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-0-J

8-18



Time: 07:15

'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	0262	03000	0230	0275	0072	0020	0064	00
WD 33B	0261	03010	0231	0275	0071	0021	0063	00
WD150A	0270	03100	0255	0280	0045	0022	0062	00
WD150B	0271	03000	0250	0275	0035	0023	0060	02
WD 250	0275	03000	0255	0280	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	0056							

Time: 0730  
Message: 3

GINNA STATION

1988 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 Fire Zone S-12 (Diesel Room 1A Pre-Action System) Alarm and Flow Alarms.

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) This is the beginning of a fire on the north end of the 1A diesel engine. The fire originated around the leaking fuel oil filter from an extension cord that shorted out on the engine.

Actions Expected:

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

## 1988 EVALUATED EXERCISE

Time: 0730

MAJOR PARAMETERS

Reactor Shutdown	YES <u>NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9x10<sup>-4</sup></u>	AMPS
N-36	<u>7x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2245</u>	PSIG
PRZR Level	<u>50</u>	%
A RCP	<u>RUNNING</u> /STOPPED	
B RCP	<u>RUNNING</u> /STOPPED	
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>ONLINE</u> /OFFLINE	
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED	
480V Buses	<u>ENERGIZED</u> /DEENERGIZED	
Cmnt Pressure	<u>-0.13</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>4.8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
A Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>600</u>	°F
B Loop Cold Leg	<u>543</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>604</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 73 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19, 88  
07:30:12

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.54262-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.28713-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.41629-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.13426-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.63	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	22.45	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.8	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.8	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	1.13	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.0	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.9	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.9	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.5	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.0	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	73.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	73.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

PROGRAM NAME : LRGTSZ.E  
F.E. GINNA NUCLEAR POWER PLANT

OCT 19 07:30

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1571.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.0	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	264	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	71.6	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	74.7	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.1	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	9.07E+00	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.09E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.5E+03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	6.1E+02	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	3.1E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standb	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standb	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standb	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-O-J

8-24

**Time: 07:30**

## 'SILENT 700' COMPUTER

### METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WB 33A	0050	00900	0011	0060	00			
WB 33B	0050	00910	0012	0052	00			
WB150A	0040	01000	0022	0060	00			
WB150B	0042	01100	0023	0061	02			
WB 250	0063	01000	0010	0070	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0264	03000	0252	0285	0072	0020	0064	00
WD 33B	0265	03010	0251	0275	0071	0021	0063	00
WD150A	0270	03100	0255	0280	0045	0022	0062	00
WD150B	0272	03000	0256	0285	0035	0023	0060	02
WD 250	0275	03000	0255	0280	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	0056							

Time: 0740  
Message: 4X

GINNA STATION  
1988 EVALUATED EXERCISE  
MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

The north end of the 1A Diesel Generator engine is engulfed in smoke with some flames visible. Water flow from the fire nozzles just above the fire actuates as you enter the room.

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) If offsite fire fighting assistance is requested, Controllers will intercede to prevent off-site fire department response.
- 2) See attached map for location 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 the 1A diesel engine fire.
- 2) Fire Brigade Captain should keep Control Room advised of fire fighting activities.



Time: 0740  
Message: 4X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

The north end of the 1A Diesel Generator engine is engulfed in smoke with some flames visible. Water flow from the fire nozzles just above the fire actuates as you enter the room.

---

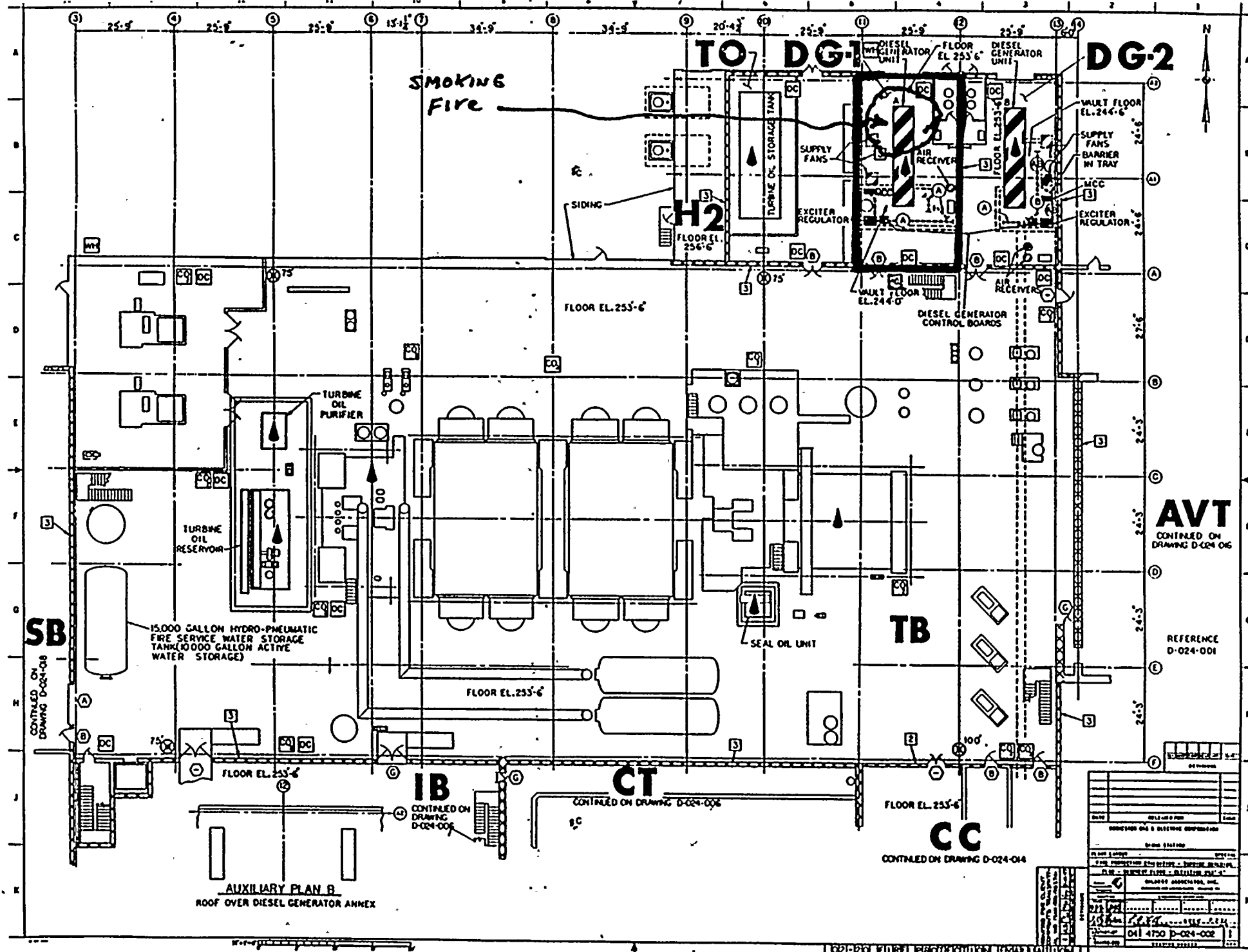
FOR CONTROLLER USE ONLY

Controller Notes:

- 1) If offsite fire fighting assistance is requested, Controllers will intercede to prevent off-site fire department response.
- 2) See attached map for location 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 the 1A diesel engine fire.
- 2) Fire Brigade Captain should keep Control Room advised of fire fighting activities.



Time: 0745  
Message: 5

GINNA STATION  
1988 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) Fire Brigade fighting 1A diesel engine fire.

Actions Expected:

- 1). 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.
- 2) 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: 0745  
Message: 5

GINNA STATION  
1988 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) Fire Brigade fighting 1A diesel engine fire.

Actions Expected:

- 1) 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.
- 2) 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.

## 1988 EVALUATED EXERCISE

Time: 0745

MAJOR PARAMETERS

Reactor Shutdown	YES (NO)	
N-31	0	CPS
N-32	0	CPS
N-35	9x10 <sup>4</sup>	AMPS
N-36	7x10 <sup>4</sup>	AMPS
Avg. Nuclear Power	100	%
RCS Pressure	2240	PSIG
PRZR Level	48	%
A RCP	(RUNNING) STOPPED	
B RCP	(RUNNING) STOPPED	
1A S/G Level	53	%
1B S/G Level	52	%
1A S/G Pressure	760	PSIG
1B S/G Pressure	760	PSIG
Turbine/Generator	(ONLINE) OFFLINE	
4 KV Buses	(ENERGIZED) DEENERGIZED	
480V Buses	(ENERGIZED) DEENERGIZED	
Cmnt Pressure	-0.13	PSIG
Cmnt Sump A Level	1.8	FEET
Cmnt Sump B Level	4.8	INCHES
Loop Hot Leg	600	°F
A Loop Cold Leg	547	°F
B Loop Hot Leg	600	°F
B Loop Cold Leg	542	°F
RVLIS	100	%
*CET	604	°F
S/G A Total Aux FW Flow	0	GPM
S/G B Total Aux FW Flow	0	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. (INSERV) (STBY) OOS  
 1B. (INSERV) (STBY) OOS  
 Turb. Driven (INSERV) (STBY) OOS  
 CST Level 19.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. (INSERV) (STBY) OOS  
 1B. (INSERV) (STBY) OOS  
 1C. (INSERV) (STBY) OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. (INSERV) (STBY) OOS/RECIRC  
 1B. (INSERV) (STBY) OOS/RECIRC  
 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  
 Post Accident Dampers OPEN (CLOSED)

Service Water Pumps

1A. (INSERV) (STBY) OOS  
 1B. (INSERV) (STBY) OOS  
 1C. (INSERV) (STBY) OOS  
 1D. (INSERV) (STBY) OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

↑ 19,88  
07:45:09

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.62716-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.27315-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.38216-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.21751-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.71	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	48.7	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	48.5	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	48.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.3	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	1.13	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

5-32

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 1977  
07:45:19

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.9	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.0	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.5	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.8	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.6	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.7	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

5  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 1977  
07:45

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1680.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	7.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	268	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	72.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	78	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.5	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	1.32E+01	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.58E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.4E+03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	8.8E+02	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	4.4E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	3.8E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.1E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+2	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-0-J

8-34



Time: 07:45

## '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	0268	03000	0253	0275	0072	0020	0064	00
WD 33B	0265	03010	0251	0275	0071	0021	0063	00
WD150A	0270	03100	0255	0290	0045	0022	0062	00
WD150B	0271	03000	0256	0295	0035	0023	0060	02
WD 250	0275	03000	0255	0297	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	0025	
DT250B	0030							
DEW 33	0485		TEG 33	0602	00			
RAIN	0056							

Time: 0800  
Message: 6X

GINNA STATION

1988 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 0815 at the latest.

Actions Expected:

- 1) Fire Brigade Captain notify the Control Room/TSC.
- 2) Re-stow all gear.

Time: 0800  
Message: 7X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room Shift Supervisor

Simulated Plant Conditions:

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

Declare an ALERT in accordance with SC-100, "Ginna Station Event Evaluation and Classification", EAL: Fire; Fire Potentially Affecting Safety Systems as Determining 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: 0800  
Message: 8

GINNA STATION  
1988 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:

## 1988 EVALUATED EXERCISE

Time: 0800MAJOR PARAMETERS

Reactor Shutdown	YES <u>NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9x10<sup>-4</sup></u>	AMPS
N-36	<u>7x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2240</u>	PSIG
PRZR Level	<u>49</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cmnt Pressure	<u>-0.14</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>598</u>	°F
B Loop Cold Leg	<u>542</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>604</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
08:00:11

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.52763-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.31589-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.35923-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.19265-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.65	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.6	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.1	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.2	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .14	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

04-8

OCT 1 1978  
08:00PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	600.0	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.2	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.9	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.4	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.5	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	



PRG 1 NAI :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1577.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	264	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	1.1	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE		GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP		GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.0E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	1.1E-01	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	2.1E-03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	5.0E-03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.5E-03	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	7.3E-02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	4.6E-02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	2.1E-01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.7E-01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.6E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E-02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	Standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	Standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	Standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-05	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-05	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.1E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.1E-02	GOOD	MR/HR

Time: 08:00

'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	0264	03000	0250	0275	0072	0020	0064	00
WD 33B	0265	03010	0251	0275	0071	0021	0063	00
WD150A	0270	03100	0255	0280	0045	0022	0062	00
WD150B	0272	03000	0250	0295	0035	0023	0060	02
WD 250	0275	03000	0255	0300	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	0056							



8-44

Time: 0815  
Message: 9

GINNA STATION

1988 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 fire on the 1A diesel engine is extinguished.

Actions Expected:

- 1) Efforts may commence to determine the damage, if any, to the 1A emergency diesel generator.

1988 EVALUATED EXERCISE

Time: 0815

MAJOR PARAMETERS

Reactor Shutdown	YES <u>NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9415</u>	AMPS
N-36	<u>7410</u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2245</u>	PSIG
PRZR Level	<u>49.5</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cmnt Pressure	<u>-0.14</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
A Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>599</u>	°F
B Loop Cold Leg	<u>542</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>604</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 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 = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
08:15:13

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.54916-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.28729-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.39721-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.17540-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	49.72	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2245.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.4	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	48.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	48.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.3	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .14	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-46

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	600.0	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.4	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.0	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	573.1	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.6	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

24-8



# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 2

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1567.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.7	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	269	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	71	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	11	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	31	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	2.75E+01	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	3.52E+02	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	7.1E+03	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	2.0E+03	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	7.5E+02	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	5.4E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	7.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.7E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.70E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.67E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.0E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

8-49

Time: 08:15

'SILENT 700' COMPUTER

METEOROLOGICAL DATA

AV77									
NAME	AVGE	ST. DEV	MIN.	MAX.	I				
WS 33A	0060	00700	0061	0070	00				
WS 33B	0052	00910	0012	0072	00				
WS150A	0050	01000	0022	0060	00				
WS150B	0062	01100	0023	0071	02				
WS 250	0070	01000	0010	0085	00				
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I	
WD 33A	0269	03000	0250	0285	0072	0020	0064	00	
WD 33B	0270	03010	0251	0285	0071	0021	0063	00	
WD150A	0275	03100	0255	0280	0045	0022	0062	00	
WD150B	0276	03000	0250	0285	0035	0023	0060	02	
WD 250	0278	03000	0255	0290	0055	0025	0061	00	
NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I	
TER33A	0725	00	TER33B	0725	00	TE150A	0745		
TE150B	0745	00	TE250A	0756	00	TE250B	0756		
DT150A	0020	00	DT150B	0020	00	DT250A	0031		
DT250B	0031								
DEW 33	0485		TEG 33	0602	00				
RAIN	0056								

Time: 0830  
Message: 10

GINNA STATION

1988 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 TSC should be nearing response organization operational status.

Actions Expected:

- 1) The TSC should be sending a repair team out when available to assess the damage to the 1A diesel generator.
- 2) The TSC may be assessing having the testing on the 34.5 KV circuit 751 terminated and having the circuit returned to operational readiness.
- 3) The TSC should start sending out SC-701 30 minute updates.



## 1988 EVALUATED EXERCISE

Time: 0830MAJOR PARAMETERS

	YES	NO	
Reactor Shutdown	<u>0</u>	<u>1</u>	
N-31	<u>0</u>		CPS
N-32	<u>0</u>		CPS
N-35	<u>9x10<sup>-4</sup></u>		AMPS
N-36	<u>7x10<sup>-4</sup></u>		AMPS
Avg. Nuclear Power	<u>100</u>		%
RCS Pressure	<u>2245</u>		PSIG
PRZR Level	<u>50</u>		%
A RCP	<u>RUNNING</u>	<u>STOPPED</u>	
B RCP	<u>RUNNING</u>	<u>STOPPED</u>	
1A S/G Level	<u>53</u>		%
1B S/G Level	<u>52</u>		%
1A S/G Pressure	<u>760</u>		PSIG
1B S/G Pressure	<u>760</u>		PSIG
Turbine/Generator	<u>ONLINE</u>	<u>OFFLINE</u>	
4 KV Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
480V Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
Cnmt Pressure	<u>-0.15</u>		PSIG
Cnmt Sump A Level	<u>1.8</u>		FEET
Cnmt. Sump B Level	<u>48</u>		INCHES
Loop Hot Leg	<u>600</u>		°F
A Loop Cold Leg	<u>547</u>		°F
B Loop Hot Leg	<u>599</u>		°F
B Loop Cold Leg	<u>542</u>		°F
RVLIS	<u>100</u>		%
*CET	<u>604</u>		°F
S/G A Total Aux FW Flow	<u>0</u>		GPM
S/G B Total Aux FW Flow	<u>0</u>		GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 PSIG

Component Cooling Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Surge Tank Level = 32 %

Standby Aux. Feedwater Pumps

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

\*CET = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

Oct 19, 88  
08:30:07

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.56792-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.51005-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.39215-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.16428-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.67	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2245.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.9	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.6	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.1	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.2	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	.15	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-52





OCT 1971  
08:30:11PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE.	600.0	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.8	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.9	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.4	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	603.9	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON.	GOOD	

10  
PROGRAM NAME :LRGTSZ.E  
F.E. GINNA NUCLEAR POWER PLANT

OCT 19  
08:30:2

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1580.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	44.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	3.9	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	269	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	72.5	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.5	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	4.31E+01	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	5.28E+02	<del>GOOD</del> HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.0E+04	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	2.7E+03	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.5E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	6.1E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-0-J

8-54



Time: 08:30

## 'SILENT 700' COMPUTER

## METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0039	00900	0011	0050	00
WS 33B	0039	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.	MNR	AVRN	CNT	I
WD 33A	0269	03000	0250	0285	0072	0020	0064	00
WD 33B	0268	03010	0252	0285	0071	0021	0063	00
WD150A	0270	03100	0255	0280	0045	0022	0062	00
WD150B	0271	03000	0250	0275	0035	0023	0060	02
WD 250	0280	03000	0255	0280	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0725	00	TER33B	0725	00	TE150A	0756	
TE150B	0756	00	TE250A	0760	00	TE250B	0760	
DT150A	0031	00	DT150B	0031	00	DT250A	0035	
DT250B	0035							
DEW 33	0486		TEG 33	0602	00			
RAIN	0056							

8-56  
Time: 0840  
Message: 11X

GINNA STATION  
1988 EVALUATED EXERCISE  
MESSAGE FORM

Message for: 1A Diesel Generator Repair Team

Simulated Plant Conditions: See Attached Mini-Scenario

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

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when the appropriate investigations are made by the 1A diesel generator repair team.

Actions Expected:

- 1) The 1A diesel generator repair team should assess the damage to the 1A diesel generator caused by the fire and report this to the TSC.

GINNA STATION  
1988 EVALUATED EXERCISE  
MINI-SCENARIO

Activity: 1A Diesel Generator Fire Damage and Expected Repairs

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Fire was on north end of D/G engine.
- 2) Inspection after fire indicates fire was caused by shorted out extension cord that ignited fuel oil that had leaked from a cracked fuel oil filter canister.
- 3) Fuel oil canister can be temporarily repaired in approximately 2 hours if no problems are encountered.

Actions Expected:

- 1) Repair team will procure parts and/or equipment needed to repair cracked fuel oil filter canister.
- 2) Firewatch should be established prior to D/G startup until replacement fuel oil canister is received.

8-58

Time: 0845  
Message: 12

GINNA STATION

1988 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:

MAJOR PARAMETERS

Reactor Shutdown	YES <u>(NO)</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9x10<sup>4</sup></u>	AMPS
N-36	<u>7x10<sup>4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2235</u>	PSIG
PRZR Level	<u>49</u>	%
A RCP	<u>(RUNNING)</u> /STOPPED	
B RCP	<u>(RUNNING)</u> /STOPPED	
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>(ONLINE)</u> /OFFLINE	
4 KV Buses	<u>(ENERGIZED)</u> /DEENERGIZED	
480V Buses	<u>(ENERGIZED)</u> /DEENERGIZED	
Cmnt Pressure	<u>-0.15</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
A Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>599</u>	°F
B Loop Cold Leg	<u>542</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>604</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps  
 1A. (INSERV)/STBY (OOS)  
 1B. (INSERV)/STBY (OOS)  
 Turb. Driven (INSERV)/STBY (OOS)  
 CST Level 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 = 56 %

Low Head S.I. Pumps  
 FI-626 0 GPM  
 1A. (INSERV)/STBY (OOS)/RECIRC  
 1B. (INSERV)/STBY (OOS)/RECIRC  
 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)  
 Post Accident Dampers OPEN/(CLOSED)

Service Water Pumps  
 1A. (INSERV)/STBY (OOS)  
 1B. (INSERV)/STBY (OOS)  
 1C. (INSERV)/STBY (OOS)  
 1D. (INSERV)/STBY (OOS)  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
08:45:10

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55212-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29716-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.37612-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.16923-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.71	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2235.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.3	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN		GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.0	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.4	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.15	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-60

12

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 28  
08:45

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.9	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.0	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	544.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	573.0	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.6	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	604.0	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 11 1978  
08:45

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1565.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.7	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	4.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	269	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	11.0	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	3.85E+01	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	7.04E+02	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.4E+04	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.9E+03	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.0E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	6.9E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	2.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standb	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standb	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standb	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

8:63

Time: 08:45

## '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	0269	03000	0254	0285	0072	0020	0064	00
WD 33B	0270	03010	0251	0286	0071	0021	0063	00
WD150A	0270	03100	0245	0280	0045	0022	0062	00
WD150B	0271	03000	0250	0295	0035	0023	0060	02
WD 250	0273	03000	0255	0290	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0730	00	TER33B	0730	00	TE150A	0750	00
TE150B	0750	00	TE250A	0760	00	TE250B	0760	00
DT150A	0020	00	DT150B	0020	00	DT250A	0030	00
DT250B	0030							
DEW 33	0486		TEG 33,	0602	00			
RAIN	0056							

8-64

Time: 0900  
Message: 13

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions:

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

Alarms received in the Control Room:

- o Fire Zone S-13 (Diesel Room 1B Pre-Action System) Alarm and Flow Alarms.

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) This is the beginning of a fire on the 1B emergency diesel generator engine and generator from a lube oil leak that has sprayed the engine and generator and then flashed.

Actions Expected:

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

8-65

Time: 0900  
Message: 14

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

## 1988 EVALUATED EXERCISE

Time: 0900MAJOR PARAMETERS

Reactor Shutdown	YES/NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9410<sup>-4</sup></u>	AMPS
N-36	<u>7x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2240</u>	PSIG
PRZR Level	<u>49</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>760</u>	PSIG
1B S/G Pressure	<u>760</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cmnt Pressure	<u>-0.15</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
Loop Hot Leg	<u>600</u>	°F
Loop Cold Leg	<u>547</u>	°F
B Loop Hot Leg	<u>599</u>	°F
B Loop Cold Leg	<u>542</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>603</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
09:00:07

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.56179-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29812-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.39322-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.17231-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.81	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.1	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.8	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	43.1	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.8	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.2	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	1.15	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

228

OCT 11  
09:00:11

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	600.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	599.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	573.1	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.6	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.7	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	603.7	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	



14  
PROGRAM NAI :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 82  
09:00: -7

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1572	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	309	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.1	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.2	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.1	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.001E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	1.02E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.23E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.2E+04	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	6.9E+03	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.4E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	7.7E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.70E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-0-J

67.8



Time: 09:00

'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	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	0309	03000	0280	0335	0072	0020	0064	00
WD 33B	0310	03010	0281	0325	0071	0021	0063	00
WD150A	0315	03100	0285	0330	0045	0022	0062	00
WD150B	0311	03000	0286	0330	0035	0023	0060	02
WD 250	0315	03000	0285	0335	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0731	00	TER33B	0731	00	TE150A	0741	
TE150B	0741	00	TE250A	0762	00	TE250B	0762	
DT150A	0010	00	DT150B	0010	00	DT250A	0031	
DT250B	0031							
DEW 33	0486		TEG 33	0602	00			
RAIN	0056							



8-71

Time: 0905  
Message: 15X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for:

Simulated Plant Conditions:

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

Alarms received in the Control Room:

- o J-9 (safeguard breaker trip)
- o J-32 (emergency diesel generator 1B panel)
- o L-15 (bus 17 undervoltage - safeguards)

Indications in the Control Room:

- o 1B emergency diesel generator bus tie to 17 shows a green light.
- o No voltage or KWs on 1B emergency diesel generator. Equipment off of 480 Volt bus 17 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 17 - motor driven fire pump, service water pump 1B & 1D.

Actions Expected:

- 1) Operations should close in normal feed to bus 17 and restore equipment lost when bus 17 tripped off of the 1B emergency diesel generator.





8-72

Time: 0910  
Message: 16X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Fire Brigade Captain

Simulated Plant Conditions:

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

The 1B emergency diesel generator engine and generator are engulfed in smoke with some flames visible. Water flow from the fire nozzles above the fire activate as you enter the room.

---

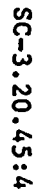
FOR CONTROLLER USE ONLY

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 location 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 the 1B diesel generator fire.
- 2) Fire Brigade Captain should keep Control Room/TSC advised of fire fighting activities.



84

Time: 0915  
Message: 17

GINNA STATION

1988 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) Fire Brigade fighting 1B emergency diesel engine and generator fire.

Actions Expected:

- 1) 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.
- 2) Implement SC-203, "Site 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".

## 1988 EVALUATED EXERCISE

Time: 0915

MAJOR PARAMETERS

Reactor Shutdown	YES/NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9x10<sup>-4</sup></u>	AMPS
N-36	<u>7x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2240</u>	PSIG
PRZR Level	<u>50</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>755</u>	PSIG
1B S/G Pressure	<u>755</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cmnt Pressure	<u>-0.16</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>&lt;8</u>	INCHES
Loop Hot Leg	<u>599</u>	°F
A Loop Cold Leg	<u>546</u>	°F
B Loop Hot Leg	<u>598</u>	°F
B Loop Cold Leg	<u>541</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>603</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

JCT 19, 88  
09:15:11

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.53176-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29417-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.38912-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.17289-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.75	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.6	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.6	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	43.2	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	757.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	756.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .16	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-76

17  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19  
09:15:21

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	599.6	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	598.4	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.7	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.6	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.1	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	602.9	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

E-O-J

8-77





PROGRAM NAM :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

007028  
09:15

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1565.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	330	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	72.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	75.7	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.4	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	1.61E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	1.94E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.3E+04	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.1E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	5.4E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	8.4E+02	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.64E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-O-J

8-78



8-79

Time: 09:15

## 'SILENT 700' COMPUTER

## METEOROLOGICAL DATA

AV77

NAME	AVGE	ST. DEV	MIN.	MAX.	I
WS 33A	0059	00900	0011	0070	00
WS 33B	0059	00910	0012	0072	00
WS150A	0049	01000	0022	0060	00
WS150B	0048	01100	0023	0061	02
WS 250	0059	01000	0010	0055	00

NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0330	03000	0310	0355	0072	0020	0064	00
WD 33B	0329	03010	0311	0360	0071	0021	0063	00
WD150A	0335	03100	0315	0005	0045	0022	0062	00
WD150B	0336	03000	0316	0005	0035	0023	0060	02
WD 250	0340	03000	0320	0008	0055	0025	0061	00

NAME	AVGE	I	NAME	AVGE	I	NAME	AVGE	I
TER33A	0723	00	TER33B	0723	00	TE150A	0743	
TE150B	0743	00	TE250A	0757	00	TE250B	0757	
DT150A	0020	00	DT150B	0020	00	DT250A	0034	
DT250B	0034							
DEW 33	0486		TEG 33	0602	00			
RAIN	0056							

8-80

Time: 0930  
Message: 18X

GINNA STATION

1988 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 0945 at the latest.

Actions Expected:

- 1) Fire Brigade Captain notify the Control Room/TSC.
- 2) Re-stow all gear.

8-81

Time: 0930  
Message: 19X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Emergency Coordinator

Simulated Plant Conditions:

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

Declare a SITE EMERGENCY 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.

---

FOR CONTROLLER USE ONLY

Controller Notes:

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

Actions Expected:

- 1)

Time: 0930  
Message: 20

GINNA STATION  
1988 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 fire in the 1B Emergency Diesel Generator Room is extinguished.

Actions Expected:

- 1) The TSC or Shift Supervisor should order the unit shut down per Technical Specifications 3.7.1 and 3.7.2(b).

MAJOR PARAMETERS

Reactor Shutdown	YES/NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>9410<sup>-4</sup></u>	AMPS
N-36	<u>7X10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>100</u>	%
RCS Pressure	<u>2240</u>	PSIG
PRZR Level	<u>49</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>755</u>	PSIG
1B S/G Pressure	<u>755</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.16</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>&lt;8</u>	INCHES
Loop Hot Leg	<u>599</u>	°F
A Loop Cold Leg	<u>546</u>	°F
B Loop Hot Leg	<u>598</u>	°F
B Loop Cold Leg	<u>541</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>603</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 56 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
09:30:12

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55126-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29616-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.34276-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.16929-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	99.82	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	49.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.6	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	48.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	43.2	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.1	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	51.9	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	755.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	756.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .16	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

48.8



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 1 1979  
09:30.22

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	598.7	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	598.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.2	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	542.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.4	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.0	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.6	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	602.7	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

E-O-J

8-85



# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	F0619	1571.	LALM	GPM
2	LRWST	94.4	GOOD	%
3	WS033	5.9	GOOD	MPH
4	WD033	350	GOOD	DEG.
5	WT033	73.0	GOOD	DEGF
6	WT250	75.0	GOOD	DEGF
7	WDT2	2.0	GOOD	DEGF
8	R01	1.00E-01	GOOD	MR/H
9	R02	1.76E+02	GOOD HALM	MR/H
10	R09	2.11E+03	GOOD HALM	MR/H
11	R10A	4.5E+04	GOOD HALM	CPM
12	R11	1.2E+04	GOOD	CPM
13	R12	5.9E+03	GOOD	CPM
14	R10B	9.2E+02	GOOD	CPM
15	R13	4.1E+01	GOOD	CPM
16	R14	7.9E+01	GOOD	CPM
17	R29	7.90E-01	GOOD	R/HR
18	R30	8.69E-01	GOOD	R/HR
19	R15	1.1E+02	GOOD	CPM
20	R12A5	standby	GOOD	UCI/CC
21	R12A7	standby	GOOD	UCI/CC
22	R12A9	standby	GOOD	UCI/CC
23	R14A5	5.5E-06	GOOD	UCI/CC
24	R14A7	1.0E-05	GOOD	UCI/CC
25	R14A9	1.0E-03	GOOD	UCI/CC
26	R15A5	5.5E-06	GOOD	UCI/CC
27	R15A7	1.0E-05	GOOD	UCI/CC
28	R15A9	1.0E-03	GOOD	UCI/CC
29	R31	1.00E-02	GOOD	MR/HR
30	R32	1.00E-02	GOOD	MR/HR



Time: 0945  
Message: 21

GINNA STATION

1988 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) Unit shutdown in progress.

Actions Expected:

- 1) TSC should send a repair team out to return the turbine driven auxiliary feedwater pump to operable status.
- 2) TSC should send a repair team out to assess the damage to the 1B emergency diesel generator.



MAJOR PARAMETERS

Reactor Shutdown  
 N-31  
 N-32  
 N-35  
 N-36  
 Avg. Nuclear Power  
 RCS Pressure  
 PRZR Level  
 A RCP  
 B RCP  
 1A S/G Level  
 1B S/G Level  
 1A S/G Pressure  
 1B S/G Pressure  
 Turbine/Generator  
 4 KV Buses  
 480V Buses.  
 Cnmt Pressure  
 Cnmt Sump A Level  
 Cnmt Sump B Level  
 Loop Hot Leg  
 A Loop Cold Leg  
 B Loop Hot Leg  
 Loop Cold Leg  
 RVLIS  
 \*CET  
 S/G A Total Aux FW Flow  
 S/G B Total Aux FW Flow

YES NO  
 0 CPS  
 0 CPS  
 9.8/10.4 AMPS  
 7.8/10.4 AMPS  
 98 %  
 2240 PSIG  
 49 %

RUNNING/STOPPED  
 RUNNING/STOPPED

53 %  
 52 %  
 760 PSIG  
 760 PSIG

ONLINE/OFFLINE  
 ENERGIZED/DEENERGIZED  
 ENERGIZED/DEENERGIZED

-0.16 PSIG  
 1.8 FEET  
 8 INCHES  
 596 °F  
 547 °F  
 595 °F  
 541 °F  
 100 %  
 601 °F  
 0 GPM  
 0 GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 Turb. Driven INSERT/STBY/OOS  
 CST Level 20 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 1C. INSERT/STBY/OOS  
 BAST Level = 55 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERT/STBY/OOS/RECIRC  
 1B. INSERT/STBY/OOS/RECIRC  
 RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

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

Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 1C. INSERT/STBY/OOS  
 1D. INSERT/STBY/OOS  
 A&B Header Pressure 72 PSIG

Component Cooling Water Pumps

1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 Surge Tank Level = 32 %

Standby Aux. Feedwater Pumps

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

\*CET = Average of Selected Core Exit Thermocouples





PROGRAM NAME : LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19, 88  
09:45:08

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.54321-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.28645-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	7.18961-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	6.00131-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	97.88	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	48.9	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.4	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.9	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	44.8	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.3	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .16	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-8

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	596.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	595.6	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	572.4	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	572.0	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.2	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	601.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	-1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

21  
PROGRAM NAM :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 1968  
09:45:26

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1567	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	010	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.2	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	2.19E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	2.64E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	10.1E+04	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.5E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	7.3E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.0E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

E-O-J

8-28

Time: 09:45

## '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.	MNR	AVRN	CNT	I
WD 33A	0010	03000	0290	0030	0072	0020	0064	00
WD 33B	0009	03010	0289	0029	0071	0021	0063	00
WD150A	0011	03100	0292	0031	0045	0022	0062	00
WD150B	0012	03000	0293	0032	0035	0023	0060	02
WD 250	0015	03000	0295	0035	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	0056							



8-94

Time: 0945  
Message: 22X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Turbine Driven Auxiliary Feedwater Pump Repair Team

Simulated Plant Conditions: See Attached Mini-Scenario

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

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when the appropriate investigations are made by the turbine driven auxiliary feedwater pump repair team.

Actions Expected:

- 1) The turbine driven auxiliary feedwater pump repair team should assess the time required to restore the turbine driven auxiliary feedwater pump to operable status and report this to the TSC.



GINNA STATION1988 EVALUATED EXERCISEMINI-SCENARIO

Activity: Turbine Driven Auxiliary Feedwater Pump Required  
Maintenance Repair

---

FOR CONTROLLER USE ONLYController Notes:

- 1) Pump status: Pump disassembled for thrust bearing replacement.
- 2) All parts available.

Actions Expected:

- 1) Repair team will use Procedure M-11.5B
- 2) Approximate time to reassemble pump is 24 hours (2-12 hour shifts with 2 men per shift plus stockroom support).



Time: 0945  
Message: 23X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: 1B Diesel Generator Repair Team

Simulated Plant Conditions: See Attached Mini-Scenario

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

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when appropriate investigations are made by the 1B diesel generator repair team.

Actions Expected:

- 1) The 1B diesel generator repair team should assess the damage to the 1B diesel generator caused by the fire and report this to the TSC.

GINNA STATION1988 EVALUATED EXERCISEMINI-SCENARIO

Activity: 1B Diesel Generator Fire Damage and Expected Repair

---

FOR CONTROLLER USE ONLYController Notes:

- 1) Fire was on both engine and generator.
- 2) Inspection after fire indicates fire was caused by a cracked external lube oil line which discharged hot lube oil over the engine and generator and a majority of the D/G room. The lube oil may have been ignited by either the engine exhaust manifold or electrical spark in generator.
- 3) There is minor electrical and control wiring damage to engine components, however, it appears there may be internal damage to windings inside the generator.

Actions Expected:

- 1) The generator must be disassembled, inspected and possibly refurbished. Estimated time to do this is one month.
- 2) Additionally, the D/G cable vault and local control cabinets will require a complete inspection for cleaning and operability.

8-98

Time: 1000  
Message: 24

GINNA STATION

1988 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) Unit shutdown in progress.
- 2) The EOF, JENC, and Engineering Support Center should be nearing operational status.

Actions Expected:

MAJOR PARAMETERS

	YES	NO	
Reactor Shutdown			
N-31	<u>0</u>		CPS
N-32	<u>0</u>		CPS
N-35	<u>8410</u>		AMPS
N-36	<u>6440</u>		AMPS
Avg. Nuclear Power	<u>95</u>		%
RCS Pressure	<u>2235</u>		PSIG
PRZR Level	<u>47</u>		%
A RCP	<u>RUNNING</u>	<u>STOPPED</u>	
B RCP	<u>RUNNING</u>	<u>STOPPED</u>	
1A S/G Level	<u>53</u>		%
1B S/G Level	<u>52</u>		%
1A S/G Pressure	<u>740</u>		PSIG
1B S/G Pressure	<u>760</u>		PSIG
Turbine/Generator	<u>ONLINE</u>	<u>OFFLINE</u>	
4 KV Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
480V Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
Cmnt Pressure	<u>-0.17</u>		PSIG
Cmnt Sump A Level	<u>1.8</u>		FEET
Cmnt Sump B Level	<u>4.8</u>		INCHES
Loop Hot Leg	<u>595</u>		°F
Loop Cold Leg	<u>547</u>		°F
Loop Hot Leg	<u>594</u>		°F
Loop Cold Leg	<u>542</u>		°F
RVLIS	<u>100</u>		%
*CET	<u>599</u>		°F
S/G A Total Aux FW Flow	<u>0</u>		GPM
S/G B Total Aux FW Flow	<u>0</u>		GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps

1A. INSERV/STBY/OOS  
1B. INSERV/STBY/OOS  
Turb. Driven INSERV/STBY/OOS  
CST Level 20 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/RECIRC  
1B. INSERV/STBY/OOS/RECIRC  
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

Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
1B. INSERV/STBY/OOS  
1C. INSERV/STBY/OOS  
1D. INSERV/STBY/OOS  
A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

24

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19, 88  
10:00:11

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55080-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29672-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	6.54231-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	5.79673-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	94.81	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2235.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	47.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.3	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	47.8	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	47.1	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.2	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	760.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	760.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-100

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 88  
10:00:21

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	594.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	593.8	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	546.8	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.2	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	571.2	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	570.9	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	598.8	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

24  
PROC M NAM :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 10 1978  
10:00

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1571.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	029	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.4	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.1	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	2.93E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	3.52E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	8.2E+04	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	2.0E+04	GOOD HALM	CPM
13	R12	CONTAINMENT GAS MONITOR	9.8E+03	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.1E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.1E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING).	1.00E-02	GOOD	MR/HR

E-0-J

8-102

Time: 10:00

## '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.	MNR	AVRN	CNT	I	
WD 33A	0029	03000	0009	0050	0072	0020	0064	00	
WD 33B	0028	03010	0011	0051	0071	0021	0063	00	
WD150A	0032	03100	0015	0060	0045	0022	0062	00	
WD150B	0031	03000	0014	0055	0035	0023	0060	02	
WD 250	0035	03000	0015	0060	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	0056								



Time: 1015  
Message: 25

GINNA STATION  
1988 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-16 (RMS Process Monitor High Activity)
- o R-15 (Air Ejector Radiation Monitor)

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When operators check the RMS chart for R-15, inform them that it shows a steady increase.
- 2) Unit shutdown in progress.

Actions Expected:

- 1) Control Room operators should refer to AR-E-16 and AR-RMS-15 and perform the actions of these procedures.

## 1988 EVALUATED EXERCISE

Time: 1015MAJOR PARAMETERS

Reactor Shutdown	YES/NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>8x10<sup>-4</sup></u>	AMPS
N-36	<u>6x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>74</u>	%
RCS Pressure	<u>2240</u>	PSIG
PRZR Level	<u>47</u>	%
A RCP	<u>RUNNING</u>	STOPPED
B RCP	<u>RUNNING</u>	STOPPED
1A S/G Level	<u>53</u>	%
1B S/G Level	<u>52</u>	%
1A S/G Pressure	<u>765</u>	PSIG
1B S/G Pressure	<u>765</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	OFFLINE
4 KV Buses	<u>ENERGIZED</u>	DEENERGIZED
480V Buses	<u>ENERGIZED</u>	DEENERGIZED
Cnmt Pressure	<u>-0.17</u>	PSIG
Cnmt Sump A Level	<u>1.8</u>	FEET
Cnmt Sump B Level	<u>2.8</u>	INCHES
Loop Hot Leg	<u>590</u>	°F
Loop Cold Leg	<u>547</u>	°F
Loop Hot Leg	<u>584</u>	°F
Loop Cold Leg	<u>541</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>578</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 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/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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

Post Accident Dampers OPEN/CLOSEDService Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

J 19, 88  
10:15:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55213-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29612-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	6.31967-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	5.65213-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	44.12	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2240.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	46.9	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.4	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	97.9	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	47.9	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	53.1	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.0	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	765.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	765.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-.17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

201-8

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 17  
10:15:25

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	590.3	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	589.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.0	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	571.0	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	570.7	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.2	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	598.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	1.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

OCT 10 10:15:31

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 2

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1560.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	058	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.3	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.3	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	3.66E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.40E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.1E+05	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	2.4E+04	GOOD HALM	CPM
13	R12	CONTAINMENT GAS MONITOR	1.2E+04	GOOD HALM	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.2E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	9.1E+01	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	7.9E+01	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+06	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	5.0E-02	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.0E-02	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E-02	GOOD	MR/HR

Time: 10:15

## '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.	MNR	AVRN	CNT	I
WD 33A	0058	03000	0030	0075	0072	0020	0064	00
WD 33B	0059	03010	0031	0075	0071	0021	0063	00
WD150A	0061	03100	0035	0080	0045	0022	0062	00
WD150B	0061	03000	0030	0075	0035	0023	0060	02
WD 250	0060	03000	0025	0080	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	0056							

Time: 1018  
Message: 26

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions:

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

Alarms received in the Control Room:

- o R-19 (S/G Blowdown Radiation Monitor)

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) When Control Room operators check to see if blowdown isolates, inform them that all four blowdown valves are closed.

Actions Expected:

- 1) Control Room operators should refer to AR-RMS-19 and perform the actions of this procedure if time permits.
- 2) The rate of unit shutdown would probably be increased to 1%/minute because of the indicated S/G tube leak with loss of both diesel generators.

8-111

Time: 1030  
Message: 27

GINNA STATION

1988 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) Unit shutdown in progress.

Actions Expected:



8-112

## 1988 EVALUATED EXERCISE

Time: 1030MAJOR PARAMETERS

	YES	NO	
Reactor Shutdown	<u>0</u>	<u>0</u>	
N-31	<u>0</u>	<u>0</u>	CPS
N-32	<u>0</u>	<u>0</u>	CPS
N-35	<u>8x10<sup>-4</sup></u>	<u>0</u>	AMPS
N-36	<u>6x10<sup>-4</sup></u>	<u>0</u>	AMPS
Avg. Nuclear Power	<u>82</u>	<u>0</u>	%
RCS Pressure	<u>2230</u>	<u>0</u>	PSIG
PRZR Level	<u>45</u>	<u>0</u>	%
A RCP	<u>RUNNING</u>	<u>STOPPED</u>	
B RCP	<u>RUNNING</u>	<u>STOPPED</u>	
1A S/G Level	<u>53</u>	<u>0</u>	%
1B S/G Level	<u>52</u>	<u>0</u>	%
1A S/G Pressure	<u>795</u>	<u>0</u>	PSIG
1B S/G Pressure	<u>795</u>	<u>0</u>	PSIG
Turbine/Generator	<u>ONLINE</u>	<u>OFFLINE</u>	
4 KV Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
480V Buses	<u>ENERGIZED</u>	<u>DEENERGIZED</u>	
Cmnt Pressure	<u>-0.17</u>	<u>0</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	<u>0</u>	FEET
Cmnt Sump B Level	<u>1.8</u>	<u>0</u>	INCHES
A Loop Hot Leg	<u>585</u>	<u>0</u>	°F
A Loop Cold Leg	<u>547</u>	<u>0</u>	°F
B Loop Hot Leg	<u>584</u>	<u>0</u>	°F
B Loop Cold Leg	<u>542</u>	<u>0</u>	°F
RVLIS	<u>100</u>	<u>0</u>	%
*CET	<u>593</u>	<u>0</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 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/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19,88  
10:30:07

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	NOT TRIP	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.56142-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29263-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	6.12135-04	INHB	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	5.56231-04	INHB	AMP
7	NP	AVERAGE NUCLEAR POWER	82.22	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	2230.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	45.1	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.5	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.1	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	53.1	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	52.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	52.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	795.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	795.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-113



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	585.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	583.9	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.2	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.3	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	567.9	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	567.4	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.5	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	593.6	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

8-114

27

PROC NAME: LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

607  
10:30:17

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1567.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	44.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	4.9	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	077	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.2	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	3.66E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.40E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.9E+05	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.1E+05	GOOD HALM	CPM
13	R12	CONTAINMENT GAS MONITOR	1.8E+04	GOOD HALM	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.4E+03	GOOD HALM	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	2.7E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	1.2E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+07	GOOD HALM	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	5.5E-06	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-02	GOOD HALM	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-01	GOOD HALM	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-01	GOOD HALM	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-01	GOOD HALM	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	1.00E+01	GOOD HALM	MR/HR

E-O-J

511-8

Time: 10:30

8-116

'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.	MNR	AVRN	CNT	I
WD 33A	0077	03000	0050	0095	0072	0020	0064	00
WD 33B	0078	03010	0051	0095	0071	0021	0063	00
WD150A	0080	03100	0055	0090	0045	0022	0062	00
WD150B	0081	03000	0050	0095	0035	0023	0060	02
WD 250	0085	03000	0055	0100	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	0056							

8-117

Time: 1033  
Message: 28

GINNA STATION

1988 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 F-4 (Pressurizer Level Deviation - 5 Normal +5)
- o F-10 (Pressurizer Low Pressure 2185 psi)
- o F-14 (Charging Pump Speed)
- o D-20 (Pressurizer Low Pressure Trip 1873 psi)
- o D-19 (Pressurizer Low Pressure SI 1750 psig)

Indications in the Control Room Include:

- o Containment Isolation is Normal
- o "A" SI Pump Fails to Start

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) If Control Room operators try to start the "A" SI pump manually, it will not start. All other safeguards equipment operates as designed.
- 2) The "B" S/G water level is increasing more than normal.
- 3) The loss of coolant is approximately 900 gpm tube rupture in the "B" S/G.

Actions Expected:

- 1) Control Room operators take immediate actions in accordance with E-0 (Reactor Trip or Safety Injection).

8-118

## 1988 EVALUATED EXERCISE

Time: 1033

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>1.8 x 10<sup>-5</sup></u>	AMPS
N-36	<u>1.5 x 10<sup>-5</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>1700</u>	PSIG
PRZR Level	<u>0</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>36</u>	%
1B S/G Level	<u>44</u>	%
1A S/G Pressure	<u>920</u>	PSIG
1B S/G Pressure	<u>920</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.17</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>&lt; 8</u>	INCHES
A Loop Hot Leg	<u>557</u>	°F
A Loop Cold Leg	<u>543</u>	°F
B Loop Hot Leg	<u>559</u>	°F
B Loop Cold Leg	<u>544</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>557</u>	°F
S/G A Total Aux FW Flow	<u>0</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 1C. INSERT/STBY/OOS  
 BAST Level = 55 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERT/STBY/OOS/RECIRC  
 1B. INSERT/STBY/OOS/RECIRC  
 RWST Level = 95 %

Containment Spray Pumps

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

Containment Recirc Fans

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

Service Water Pumps

1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 1C. INSERT/STBY/OOS  
 1D. INSERT/STBY/OOS  
 A&B Header Pressure 72 PSIG

Component Cooling Water Pumps

1A. INSERT/STBY/OOS  
 1B. INSERT/STBY/OOS  
 Surge Tank Level = 52 %

Standby Aux. Feedwater Pumps

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

\*CET = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

JUN 19, 88  
10:33:20

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55181-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29217-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.81723-05	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.52916-05	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.12	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1700.	LALM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	-06.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.7	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.3	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	50.3	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	36.2	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	44.1	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	920.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	920.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	NOT TRIP	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	NOT TRIP	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	NOT TRIP	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	NOT TRIP	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	TRIPPED	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	TRIPPED	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

611-8



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19  
10:33:30

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	539.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	558.9	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	543.2	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	550.8	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	550.7	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	557.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	OFF	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

28  
PROC ( ) NAM :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 88  
10:33:40

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1540.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.5	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.7	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	079	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.7	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.01 E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	4.0 E+02	GOOD HALM	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.7 E+03	GOOD HALM	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	8.2 E+01	GOOD HALM	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.8 E+01	GOOD HALM	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0 E+01	GOOD HALM	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.8 E+02	GOOD HALM	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.3 E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.1 E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90 E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.40 E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2 E+09	GOOD HALM	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	STANDBY	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	STANDBY	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	STANDBY	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.0 E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0 E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0 E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0 E-02	GOOD HALM	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0 E+01	GOOD HALM	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.8 E+01	GOOD HALM	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00 E+00	GOOD HALM	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00 E+01	GOOD HALM	MR/HR

E-O-J

8-121

8-122

Time: 1034  
Message: 29

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

- 1) Control Room operators taking immediate actions in accordance with E-0 (Reactor Trip or Safety Injection).

## 1988 EVALUATED EXERCISE

Time: 1034

MAJOR PARAMETERS

	<u>YES/NO</u>	
Reactor Shutdown	<u>0</u>	CPS
N-31	<u>0</u>	CPS
N-32	<u>2.8x10<sup>6</sup></u>	AMPS
N-35	<u>2.0x10<sup>6</sup></u>	AMPS
N-36	<u>0</u>	%
Avg. Nuclear Power	<u>1200</u>	PSIG
RCS Pressure	<u>0</u>	%
PRZR Level	<u>RUNNING/STOPPED</u>	
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>10</u>	%
1A S/G Level	<u>16</u>	%
1B S/G Level	<u>980</u>	PSIG
1A S/G Pressure	<u>980</u>	PSIG
1B S/G Pressure	<u>ONLINE/OFFLINE</u>	
Turbine/Generator	<u>ENERGIZED/DEENERGIZED</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>-0.17</u>	PSIG
Cmnt Pressure	<u>1.8</u>	FEET
Cmnt Sump A Level	<u>28</u>	INCHES
Cmnt Sump B Level	<u>549</u>	°F
A-Loop Hot Leg	<u>547</u>	°F
A Loop Cold Leg	<u>549</u>	°F
B Loop Hot Leg	<u>547</u>	°F
B Loop Cold Leg	<u>100</u>	%
RVLIS	<u>548</u>	°F
*CET	<u>210</u>	GPM
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow		

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 20 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 120 GPM  
 FI-925 190 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 53 %

Low Head S.I. Pumps

FI-626 200 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
10:34:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.56121-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.28761-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	2.81692-06	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	2.05971-06	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1200.	ALARM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	-07.3	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	98.9	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	98.5	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	15.2	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	10.6	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	16.7	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	980.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	980.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-124

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 1975  
10:34:25

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	549.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	549.0	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	547.0	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	546.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	547.3	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	547.2	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.1	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	548.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	211.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	209.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	ON	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	192.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	120.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

8-25



OCT 17 1978  
10:34:35

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1270.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	74.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	078	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.3	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.0 E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	6.0 E-02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.7 E-03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.2 E-05	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.8 E-05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0 E-04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.8 E-03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5 E-02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.1 E-02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90 E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69 E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2 E-09	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	STANDBY	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	STANDBY	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	STANDBY	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.0 E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0 E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0 E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0 E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0 E-01	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.8 E-01	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00 E-00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00 E-02	GOOD	MR/HR

E-O-J

8-126

8-127

Time: 1036  
Message: 30

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

- 1) Control Room operators taking action in accordance with E-0 (Reactor Trip or Safety Injection) and E-3 (Steam Generator Tube Rupture).

8-128

## 1988 EVALUATED EXERCISE

Time: 1036

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>2.8x10<sup>-7</sup></u>	AMPS
N-36	<u>2.0x10<sup>-7</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>1135</u>	PSIG
PRZR Level	<u>0</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>16</u>	%
1B S/G Level	<u>18</u>	%
1A S/G Pressure	<u>1000</u>	PSIG
1B S/G Pressure	<u>1000</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.17</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>48</u>	INCHES
A Loop Hot Leg	<u>567</u>	°F
A Loop Cold Leg	<u>543</u>	°F
B Loop Hot Leg	<u>567</u>	°F
B Loop Cold Leg	<u>543</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>563</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>210</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

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

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 130 GPM  
 FI-925 200 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 45 %

Low Head S.I. Pumps

FI-626 200 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OUT 19, 88  
10:36:21

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55712-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.24521-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	2.80179-07	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	2.01492-07	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1135.	ALM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	-7.6	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	21.3	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	20.9	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	00.0	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	16.3	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	18.6	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	1000.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	1000.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.17	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

5218

30  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 8  
10:36:31

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	567.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	567.5	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	543.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	543.0	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	555.1	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	554.9	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.2	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	563.1	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	210.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	211.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	ON	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	201.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	130.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

OCT 19 1978  
10:36:41

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1265.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.4	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.8	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	079	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.3	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.01 E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	6.0 E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.7 E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	8.2 E+05	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.8 E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0 E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.8 E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5 E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.1 E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.69 E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69 E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2 E+09	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	STANDBY	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	STANDBY	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	STANDBY	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.0 E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0 E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0 E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0 E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0 E+01	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.8 E+01	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00 E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00 E+02	GOOD	MR/HR

HALM

HALM

HALM

8-132  
Time: 1038  
Message: 31

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

- 1) Control Room operators taking action in accordance with E-3 (Steam Generator Tube Rupture).

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> /NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>546</u>	AMPS
N-36	<u>446</u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>1060</u>	PSIG
PRZR Level	<u>0</u>	%
A RCP	RUNNING/ <u>STOPPED</u>	
B RCP	RUNNING/ <u>STOPPED</u>	
1A S/G Level	<u>0</u>	%
1B S/G Level	<u>28</u>	%
1A S/G Pressure	<u>750</u>	PSIG
1B S/G Pressure	<u>1040</u>	PSIG
Turbine/Generator	ONLINE/ <u>OFFLINE</u>	
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED	
480V Buses	<u>ENERGIZED</u> /DEENERGIZED	
Cmnt Pressure	<u>-0.20</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>&lt;8</u>	INCHES
A Loop Hot Leg	<u>553</u>	°F
A Loop Cold Leg	<u>514</u>	°F
B Loop Hot Leg	<u>553</u>	°F
B Loop Cold Leg	<u>546</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>547</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 20.2 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 150 GPM  
 FI-925 220 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 37 %

Low Head S.I. Pumps

FI-626 200 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

Oct 19, 88  
10:38:15

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.54972-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.28241-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	5.17246-08	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	4.26959-08	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1060.	LALA	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	-6.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	9.6	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	07.1	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	-1.6	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	28.3	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	750.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	1040.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	1.20	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-134

31  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 18  
10:38:25

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	552.9	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	553.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	514.2	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	546.4	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	533.5	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	549.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	114.8	GOOD	%
46	TCORE	E1.1 INCORE TC AVERAGE TEMP	647.6	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	215.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	221.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	152.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

PROC NAME RGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 1978  
10:38:33

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1267.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	94.6	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.9	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	078	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.2	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.2	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	2.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.0E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	6.0E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.7E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.2E+05	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.8E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.8E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.1E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.70E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.68E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2E+09	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	STANDBY	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	STANDBY	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	STANDBY	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E+01	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.8E+01	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

E-O-J

8-136

Time: 1045  
Message: 32

GINNA STATION1988 EVALUATED EXERCISEMESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

Indications in the Control Room:

- o "B" ARV Opening Intermittently to Control S/G Pressure.

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FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

- 1) TSC and/or EOF should have protection action recommendations under consideration in accordance with SC-240 (Protective Action Recommendations).
- 2) TSC may send a repair team out to assess why the "A" safety injection pump did not start.
- 3) A GENERAL EMERGENCY may be declared in accordance with SC-100, "Ginna Station Event Evaluation and Classification", EAL: Containment System; Steam Generator Tube Rupture Identified (E-3) and Failed Fuel Identified.

MAJOR PARAMETERS

Reactor Shutdown	<u>(YES)</u> NO	
N-31	<u>0</u>	CPS
N-32	<u>0</u>	CPS
N-35	<u>6x10<sup>-11</sup></u>	AMPS
N-36	<u>5x10<sup>-11</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>1100</u>	PSIG
PRZR Level	<u>0</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>0</u>	%
1B S/G Level	<u>43</u>	%
1A S/G Pressure	<u>450</u>	PSIG
1B S/G Pressure	<u>1050</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.25</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
A Loop Hot Leg	<u>520</u>	°F
A Loop Cold Leg	<u>470</u>	°F
B Loop Hot Leg	<u>520</u>	°F
B Loop Cold Leg	<u>541</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>519</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 18.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 150 GPM  
 FI-925 230 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
10:45:10

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	3.55621-01	INHB	CPS
4	N32	SOURCE RANGE DETECTOR N-32	3.29176-01	INHB	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	6.32514-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	5.41627-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1101.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	-5.6	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	9.2	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.1	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	38.3	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	-2.2	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	43.4	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	450.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	1050.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .25	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-139



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 17 1978  
10:45:20

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	520.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	521.3	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	470.2	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	541.4	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	494.8	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	530.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	114.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	519.5	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	212.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	229.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	151.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	





TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1271.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	93.8	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.8	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	078	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.5	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	2.3	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	6.01E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.70E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	8.2E+05	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.8E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	3.0E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	1.8E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.1E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.2E+09	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	1.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E+01	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	5.8E+01	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

E-O-J

8-142

### MICROBIOLOGICAL DATA

NAME	AVGE	ST. DEV	MIN.	MAX.	I			
WB 33A	0059	00900	0022	0070	00			
WB 33B	0059	00910	0032	0052	00			
WB150A	0056	01000	0022	0060	00			
WB150B	0052	01100	0023	0061	02			
WB 250	0050	01000	0010	0055	00			
NAME	AVGE	ST. DEV	MIN.	MAX.	MNDR	AVRN	CNT	I
WD 33A	0078	03000	0050	0105	0072	0020	0064	00
WD 33B	0079	03010	0051	0105	0071	0021	0063	00
WD150A	0080	03100	0055	0107	0045	0022	0062	00
WD150B	0081	03000	0060	0110	0035	0023	0060	02
WD 250	0085	03000	0065	0110	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	2.3
DT250B	0033	2.3						
DEW 33	0506		TEG 33	0602	00			
RAIN	0056							

8-143

Time: 1045  
Message: 33X

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: 1A Safety Injection Pump Repair Team

Simulated Plant Conditions: See Attached Mini-Scenario

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

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FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide information verbally when the appropriate investigations are made by the 1A safety injection pump repair team.

Actions Expected:

- 1) The 1A safety injection pump repair team should assess the problem with the pump failure to start and report status to the TSC.

GINNA STATION1988 EVALUATED EXERCISEMINI-SCENARIO

Activity: 1A Safety Injection Pump Failure to Start.  
Assessment and Anticipated Repairs.

---

FOR CONTROLLER USE ONLYController Notes:

- 1) 1A SI pump failed to start automatically and manually.
- 2) Inspection indicates that failure to operate was caused by a broken weld in the closing mechanism, preventing closing of breaker contacts.

Actions Expected:

- 1) A spare breaker should be used to replace the faulty breaker.
- 2) Time for breaker changeout and restoration of 1A SI pump is approximately 2 hours after repair team arrives at 480 volt bus.

8-145

Time: 1100  
Message: 34

GINNA STATION

1988 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:

- o "B" S/G ARV Indicates Partially Open
- o "B" S/G Pressure Decreasing

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) A release from the "B" S/G to the environment begins.

Actions Expected:

- 1) Control Room operators try to close the ARV manually from the Control Room without success.
- 2) Control Room operators inform TSC that "B" S/G ARV has failed partially open.
- 3) The TSC should send a repair team out to close the 1B S/G ARV local isolation valve.
- 4) Efforts are underway to track the plume, terminate the release and implement/coordinate PARs.

8-146

1988 EVALUATED EXERCISE

Time: 1100

MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>	
N-31	<u>200</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1810</u>	AMPS
N-36	<u>1810</u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>1020</u>	PSIG
PRZR Level	<u>35</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>0</u>	%
1B S/G Level	<u>70</u>	%
1A S/G Pressure	<u>500</u>	PSIG
1B S/G Pressure	<u>1020</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.29</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
A Loop Hot Leg	<u>516</u>	°F
A Loop Cold Leg	<u>476</u>	°F
B Loop Hot Leg	<u>516</u>	°F
B Loop Cold Leg	<u>531</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>512</u>	°F
S/G A Total Aux FW Flow	<u>200</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDS

Aux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 14 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 = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 88  
11:00:09

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	2.01263+02	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	2.02391+02	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.06541-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00232-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	1020.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	34.8	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	9.4	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	0.9	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	38.1	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	-1.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	69.9	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	500.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	1020.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-0.29	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

241-8



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 11:00:19

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	516.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	516.4	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	476.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	530.3	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	496.2	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	523.5	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	512.4	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	205.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	



PROGRAM NAME LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 11:00:25

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1268.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	92.7	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	6.0	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	077	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	77.3	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	3.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.50E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	1.4E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.7E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	2.8E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	1.1E+03	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.6E+08	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	2.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-02	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	8.1E+00	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	8.1E+00	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	5.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

HALM

HALM

HALM

E-O-J

8-14-8



8-50

**METEOROLOGICAL DATA**

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	0077	03000	0050	0095	0072	0020	0064	00
WD 33B	0077	03010	0055	0098	0071	0021	0063	00
WD150A	0084	03100	0055	0096	0045	0022	0062	00
WD150B	0081	03000	0056	0095	0035	0023	0060	02
WD 250	0086	03000	0058	0099	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	0056							

8-757  
Time: 1100  
Message: 35X

GINNA STATION  
1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: 1B S/G ARV Repair Team

Simulated Plant Conditions: See Attached Mini-Scenario

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

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Provide any information needed verbally when 1B S/G ARV repair team reaches the 1B S/G ARV isolation valve area.
- 2) 1B S/G ARV should be isolated by 1130 hours.

Actions Expected:

- 1) The 1B S/G ARV repair team will close the ARV manual isolation valve and report this to the TSC.

GINNA STATION  
1988 EVALUATED EXERCISE  
MINI-SCENARIO

Activity: 1B S/G ARV Isolation and Problem Assessment

---

FOR CONTROLLER USE ONLY

Controller Notes:

- 1) The B S/G atmospheric relief valve (ARV) sticks partially open and cannot be closed from the Control Room.

Actions Expected:

- 1) Repair team will simulate closing local manual isolation valve (3506) to terminate release. This should be done at approximately 1130 hours.
- 2) If a repair team is sent out to assess the problem with the ARV, the ARV packing gland has cocked against the valve stem and is holding the ARV approximately 25% open.
- 3) Repair team should discuss method and time for repairs of ARV.

8-153

Time: 1115  
Message: 36

GINNA STATION

1988 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 1130 hours.

Actions Expected:

- 1). 1B S/G ARV repair team should be progressing toward isolating the 1B S/G ARV manually.
- 2) Plume tracking, implementing and coordinating PARS and release termination efforts continue.



MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> NO	
N-31	<u>200</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1x15"</u>	AMPS
N-36	<u>1x10"</u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>950</u>	PSIG
PRZR Level	<u>33</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>5</u>	%
1B S/G Level	<u>73</u>	%
1A S/G Pressure	<u>500</u>	PSIG
1B S/G Pressure	<u>950</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.3</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
A Loop Hot Leg	<u>514</u>	°F
A Loop Cold Leg	<u>474</u>	°F
B Loop Hot Leg	<u>514</u>	°F
B Loop Cold Leg	<u>529</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>510</u>	°F
S/G A Total Aux FW Flow	<u>200</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 15 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 88  
11:15:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	1.99871+2	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.99962+2	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00016-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00124-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	450.	ALARM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	33.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	9.2	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.1	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	28.6	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	4.9	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	73.3	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	500.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	950.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .30	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-155

PROGRAM NAME :LRGTSZ.E  
 1. N.E. GINNA NUCLEAR POWER PLANT

OCT 19, 1978  
 11:15:25

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 1

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	514.1	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	514.3	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	473.9	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	528.3	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	493.8	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	521.3	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.6	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	510.7	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	204.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

251-8

36  
PROGRAM NAME RGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 1977  
11:15:35

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1265.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	92.9	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	079	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	73.6	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	77.4	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.8	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	3.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.40E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.0E+01	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.7E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	3.7E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	1.1E+03	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	4.3E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.0E+04	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	2.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	5.0E-04	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	5.0E-04	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	5.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

E-0-J

6-157

Time: 11:15

8-158

'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	0079	03000	0059	0095	0072	0020	0064	00
WD 33B	0078	03010	0057	0095	0071	0021	0063	00
WD150A	0080	03100	0058	0099	0045	0022	0062	00
WD150B	0082	03000	0059	0111	0035	0023	0060	02
WD 250	0083	03000	0060	0110	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	0056							



8-119

Time: 1130  
Message: 37

GINNA STATION

1988 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 is terminated by the closing of the manual isolation valve to the 1B S/G ARV.

Actions Expected:

- 1) Plume tracking continues.

8-160

## 1988 EVALUATED EXERCISE

Time: 1130MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> /NO
N-31	<u>200</u> CPS
N-32	<u>200</u> CPS
N-35	<u>1X10<sup>-11</sup></u> AMPS
N-36	<u>1X10<sup>-11</sup></u> AMPS
Avg. Nuclear Power	<u>0</u> %
RCS Pressure	<u>930</u> PSIG
PRZR Level	<u>40</u> %
A RCP	RUNNING/ <u>STOPPED</u>
B RCP	RUNNING/ <u>STOPPED</u>
1A S/G Level	<u>7</u> %
1B S/G Level	<u>69</u> %
1A S/G Pressure	<u>490</u> PSIG
1B S/G Pressure	<u>940</u> PSIG
Turbine/Generator	ONLINE/OFFLINE
4 KV Buses	<u>ENERGIZED</u> /DEENERGIZED
480V Buses	<u>ENERGIZED</u> /DEENERGIZED
Cmnt Pressure	<u>-0.30</u> PSIG
Cmnt Sump A Level	<u>1.8</u> FEET
Cmnt Sump B Level	<u>4.8</u> INCHES
A Loop Hot Leg	<u>512</u> °F
A Loop Cold Leg	<u>472</u> °F
B Loop Hot Leg	<u>512</u> °F
B Loop Cold Leg	<u>527</u> °F
RVLIS	<u>100</u> %
*CET	<u>508</u> °F
S/G A Total Aux FW Flow	<u>200</u> GPM
S/G B Total Aux FW Flow	<u>0</u> GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 15.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
11:30:05

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	1.98654+2	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.99001+2	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00263-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00192-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	930.	LALM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	39.8	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	8.9	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	1.4	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	25.2	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	7.6	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	69.9	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	490.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	940.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	- .30	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

191.8

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19  
1130:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	511.8	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	512.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	472.3	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	527.1	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	492.3	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	519.4	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	508.5	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	202.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

## TREND GROUP ASSIGNMENT SUMMARY

 GROUP NAME  
 EVENT 2

 GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1271	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	93.0	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	078	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	74.9	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.9	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	3.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	3.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.30E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.6E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	1.7E+05	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	2.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	5.5E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	2.2E+03	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	8.6E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	2.0E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	4.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	1.0E-05	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	5.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

} HALM (for R10A, R11, R12, R10B)  
 } HALM (for R15A5, R15A7, R15A9)  
 } HALM (for R31, R32)

8-164

Time: 11:30

## '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	0078	03000	0050	0095	0072	0020	0064	00
WD 33B	0075	03010	0051	0095	0071	0021	0063	00
WD150A	0080	03100	0055	0100	0045	0022	0062	00
WD150B	0081	03000	0050	0105	0035	0023	0060	02
WD 250	0083	03000	0055	0108	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	0056							



8-165

Time: 1145  
Message: 38

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

1) Plume tracking continues.

Actions Expected:

## 1988 EVALUATED EXERCISE

Time: 1145

MAJOR PARAMETERS

	YES/NO	
Reactor Shutdown		
N-31	<u>100</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1x10<sup>-11</sup></u>	AMPS
N-36	<u>1x10<sup>-11</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>920</u>	PSIG
PRZR Level	<u>44</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>10</u>	%
1B S/G Level	<u>65</u>	%
1A S/G Pressure	<u>490</u>	PSIG
1B S/G Pressure	<u>930</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cnmt Pressure	<u>-0.31</u>	PSIG
Cnmt Sump A Level	<u>1.8</u>	FEET
Cnmt Sump B Level	<u>2.8</u>	INCHES
A Loop Hot Leg	<u>507</u>	°F
A Loop Cold Leg	<u>500</u>	°F
B Loop Hot Leg	<u>507</u>	°F
B Loop Cold Leg	<u>507</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>506</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 16.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 13 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

11:45:16

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	1.98523+2	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.98862+2	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00625-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00163-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	920.	GOOD	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	44.1	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	99.2	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	0.6	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	28.6	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	10.5	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	64.8	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	491.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	928.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	31	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-167



PROGRAM NAME :LRGTSZ.E  
K.E. GINNA NUCLEAR POWER PLANT

OCT 26  
11:45

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	507.3	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	507.5	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	500.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	507.4	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	503.5	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	507.2	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	506.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	211.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

PRO NAM .LRGTSZ.E  
F.E. INNA NUCLEAR POWER PLANT

OCT 19 89 -  
11:45

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EXTENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1272.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	92.8	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	5.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	080	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	75.3	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	77.4	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	2.1	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.20E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	2.8E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.8E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	6.1E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	7.3E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	5.7E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.8E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	4.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	9.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	5.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

HALM

HALM

E-O-J

671-8

8-170

Time: 11:45

## '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	0080	03000	0054	0105	0072	0020	0064	00
WD 33B	0079	03010	0055	0105	0071	0021	0063	00
WD150A	0079	03100	0055	0107	0045	0022	0062	00
WD150B	0081	03000	0060	0105	0035	0023	0060	02
WD 250	0085	03000	0065	0110	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	0056							

8-171

Time: 1200  
Message: 39

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

- 1) Off-site radiation levels have significantly decreased due to plume passage.

Actions Expected:

8-172

## 1988 EVALUATED EXERCISE

Time: 1200MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> NO	
N-31	<u>200</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1x10<sup>-11</sup></u>	AMPS
N-36	<u>1x10<sup>-11</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>930</u>	PSIG
PRZR Level	<u>43</u>	%
A RCP	<u>RUNNING</u> STOPPED	
B RCP	<u>RUNNING</u> STOPPED	
1A S/G Level	<u>12</u>	%
1B S/G Level	<u>64</u>	%
1A S/G Pressure	<u>490</u>	PSIG
1B S/G Pressure	<u>930</u>	PSIG
Turbine/Generator	<u>ONLINE</u> OFFLINE	
4 KV Buses	<u>ENERGIZED</u> DEENERGIZED	
480V Buses	<u>ENERGIZED</u> DEENERGIZED	
Cmnt Pressure	<u>-0.3</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>58</u>	INCHES
A Loop Hot Leg	<u>501</u>	°F
A Loop Cold Leg	<u>494</u>	°F
B Loop Hot Leg	<u>501</u>	°F
B Loop Cold Leg	<u>501</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>500</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 16.0 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

J 19, 88  
12:00:05

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	1.99723+2	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.98658+2	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00729-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00001-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	929.	LALA	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	43.2	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	99.4	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	0.7	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	32.7	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	11.8	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	63.9	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	489.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	927.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-31	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

8-173

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19, 8  
12:00:15

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	501.3	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	501.6	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	493.8	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	502.2	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	497.2	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	501.3	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	499.9	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	212.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1268.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	92.9	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	3.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	080	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	15.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.67E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.10E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.0E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.8E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	6.7E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	7.3E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	5.7E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	2.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.6E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	4.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	8.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	5.00E+00	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	9.00E+02	GOOD	MR/HR

} HALM

} HALM



8-176

## METEOROLOGICAL DATA.

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	0080	03000	0052	0100	0072	0020	0064	00	
WD 33B	0080	03010	0051	0100	0071	0021	0063	00	
WD150A	0081	03100	0055	0102	0045	0022	0062	00	
WD150B	0081	03000	0060	0105	0035	0023	0060	02	
WD 250	0083	03000	0065	0106	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	0506		TEG 33	0602	00				
RAIN	0056								

8-177  
Time: 1200  
Message: 40X

GINNA STATION  
1988 EVALUATED EXERCISE  
MESSAGE FORM

Message for: Recovery Manager

Simulated Plant Conditions:

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

Off-site radiation levels have significantly decreased due to plume passage, recovery/re-entry and downgrade discussions can commence.

---

FOR CONTROLLER USE ONLY

Controller Notes:

Actions Expected:

- 1) Recovery/re-entry and downgrade discussions should commence.
- 2) TSC should decide on appropriate post-SGTR cooldown method.

8-178

Time: 1215  
Message: 41

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

1) Recovery/re-entry and downgrade discussions continue.

8-179

## 1988 EVALUATED EXERCISE

Time: 1215MAJOR PARAMETERS

## Reactor Shutdown

N-31 YES/NO 200 CPS  
 N-32 200 CPS  
 N-35 1x10<sup>-11</sup> AMPS  
 N-36 1x10<sup>-11</sup> AMPS

Avg. Nuclear Power

RCS Pressure 0 %PRZR Level 930 PSIGA RCP 44 %B RCP RUNNING/STOPPED1A S/G Level RUNNING/STOPPED 15 %1B S/G Level 65 %1A S/G Pressure 480 PSIG1B S/G Pressure 935 PSIG

Turbine/Generator

4 KV Buses ONLINE/OFFLINE ENERGIZED/DEENERGIZED480V Buses ENERGIZED/DEENERGIZEDCmnt Pressure -0.3 PSIGCmnt Sump A Level 1.8 FEETCmnt Sump B Level 2.8 INCHESA-Loop Hot Leg 500 °FA Loop Cold Leg 493 °FB Loop Hot Leg 500 °FB Loop Cold Leg 500 °FWLIS 100 %\*CET 499 °FS/G A Total Aux FW Flow 210 GPMS/G B Total Aux FW Flow 0 GPMDIESEL GENERATORSA. RUNNING/UNLOADED/STBY/OOSB. RUNNING/UNLOADED/STBY/OOSTSC RUNNING/UNLOADED/STBY/OOSSecurity RUNNING/UNLOADED/STBY/OOSENGINEERED SAFEGUARDSAux. Feedwater Pumps1A. INSERV/STBY/OOS1B. INSERV/STBY/OOSTurb. Driven INSERV/STBY/OOSCST Level 116.5 FEETENGINEERED SAFEGUARDSHigh Head S.I. PumpsFI-924 0 GPMFI-925 0 GPM1A. INSERV/STBY/OOS1B. INSERV/STBY/OOS1C. INSERV/STBY/OOSBAST Level = 15 %Low Head S.I. PumpsFI-626 0 GPM1A. INSERV/STBY/OOS/RECIRC1B. INSERV/STBY/OOS/RECIRCRWST Level = 93 %Containment Spray PumpsFI-931A 0 GPMFI-931B 0 GPM1A. INSERV/STBY/OOS1B. INSERV/STBY/OOSNaOH Tank Level = 93 %Containment Recirc Fans1A. INSERV/STBY/OOS1B. INSERV/STBY/OOS1C. INSERV/STBY/OOS1D. INSERV/STBY/OOSPost Accident Dampers OPEN/CLOSEDService Water Pumps1A. INSERV/STBY/OOS1B. INSERV/STBY/OOS1C. INSERV/STBY/OOS1D. INSERV/STBY/OOSA&B Header Pressure 72 PSIGComponent Cooling Water Pumps1A. INSERV/STBY/OOS1B. INSERV/STBY/OOSSurge Tank Level = 52 %Standby Aux. Feedwater Pumps1C. INSERV/STBY/OOS1D. INSERV/STBY/OOS

CET = Average of Selected Core Exit Thermocouples



PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

19, 88  
12:15:11

## TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	ATWS	NO ATWS	GOOD	
2	RXT	TRIPPED	GOOD	
3	N31	2.00123+2	GOOD	CPS
4	N32	1.99026+2	GOOD	CPS
5	N35	0.99926-11	GOOD	AMP
6	N36	0.99871-11	GOOD	AMP
7	NP	00.00	GOOD	%
8	PRCS	931.	ALARM	PSIG
9	LPZR	44.1	GOOD	%
10	FRCLA	99.5	GOOD	%
11	FRCLB	0.4	GOOD	%
12	RXT16	NOT TRIP	GOOD	
13	RXT17	TRIPPED	GOOD	
14	TSUBTC	36.3	GOOD	DEGF
15	LSGA	15.6	GOOD	%
16	LSGB	64.9	GOOD	%
17	PSGA	482.	GOOD	PSIG
18	PSGB	934.	GOOD	PSIG
19	GENBKR1	TRIPPED	GOOD	
20	GENBKR2	TRIPPED	GOOD	
21	BUS11A	TRIPPED	GOOD	
22	BUS11B	TRIPPED	GOOD	
23	BUS12A	TRIPPED	GOOD	
24	BUS12B	NOT TRIP	GOOD	
25	B11A12A	NOT TRIP	GOOD	
26	B11B12B	NOT TRIP	GOOD	
27	PCV	NOT TRIP	GOOD	
28	LSUMPA	1.8	GOOD	PSIG
29	L0942E	LOWER	GOOD	FEET
30	L0943E	LOWER	GOOD	

8-180

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 19  
12:15:21

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	500.4	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	500.3	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	493.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	500.5	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	496.5	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	500.3	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.6	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	499.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	211.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

OCT 19.  
 12:15:37

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 2

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1272.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	93.1	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	7.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	081	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	75.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.05E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.2E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.8E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	7.4E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	7.3E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	5.7E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.6E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	4.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	4.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	8.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	3.20E+00	GOOD	MR/HR

HALM

HALM



8-183

Time: 12:15 - 14:00

## '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	0081	03000	0055	0105	0072	0020	0064	00
WD 33B	0080	03010	0056	0105	0071	0021	0063	00
WD150A	0082	03100	0057	0104	0045	0022	0062	00
WD150B	0083	03000	0060	0105	0035	0023	0060	02
WD 250	0085	03000	0065	0109	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
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RAIN	0056
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8-784  
Time: 1230  
Message: 42

GINNA STATION  
1988 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)

Actions Expected:

1) Recovery/re-entry and downgrade discussions continue.

## 1988 EVALUATED EXERCISE

Time: 1230MAJOR PARAMETERS

Reactor Shutdown	<u>YES/NO</u>	
N-31	<u>200</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1x10<sup>-11</sup></u>	AMPS
N-36	<u>1x10<sup>-11</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>930</u>	PSIG
PRZR Level	<u>45</u>	%
A RCP	<u>RUNNING/STOPPED</u>	
B RCP	<u>RUNNING/STOPPED</u>	
1A S/G Level	<u>20</u>	%
1B S/G Level	<u>64</u>	%
1A S/G Pressure	<u>480</u>	PSIG
1B S/G Pressure	<u>930</u>	PSIG
Turbine/Generator	<u>ONLINE/OFFLINE</u>	
4 KV Buses	<u>ENERGIZED/DEENERGIZED</u>	
480V Buses	<u>ENERGIZED/DEENERGIZED</u>	
Cmnt Pressure	<u>-0.31</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>2.8</u>	INCHES
A-Loop Hot Leg	<u>500</u>	°F
A Loop Cold Leg	<u>493</u>	°F
B Loop Hot Leg	<u>500</u>	°F
B Loop Cold Leg	<u>500</u>	°F
RVLIS	<u>100</u>	%
*CET	<u>499</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

DIESEL GENERATORS

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

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 Turb. Driven INSERV/STBY/OOS  
 CST Level 16.5 FEET

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924 0 GPM  
 FI-925 0 GPM  
 1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 BAST Level = 15 %

Low Head S.I. Pumps

FI-626 0 GPM  
 1A. INSERV/STBY/OOS/RECIRC  
 1B. INSERV/STBY/OOS/RECIRC  
 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  
 Post Accident Dampers OPEN/CLOSED

Service Water Pumps

1A. INSERV/STBY/OOS  
 1B. INSERV/STBY/OOS  
 1C. INSERV/STBY/OOS  
 1D. INSERV/STBY/OOS  
 A&B Header Pressure 72 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 = Average of Selected Core Exit Thermocouples



42  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

CT 19, 88  
12:30:15

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	ATWS	ANTICIPATED TRANSIENT W/O SCRAM	NO ATWS	GOOD	
2	RXT	REACTOR TRIP BREAKER STATUS	TRIPPED	GOOD	
3	N31	SOURCE RANGE DETECTOR N-31	1.98761+2	GOOD	CPS
4	N32	SOURCE RANGE DETECTOR N-32	1.99623+2	GOOD	CPS
5	N35	INTERMEDIATE RANGE DETECTOR N-35	1.00051-11	GOOD	AMP
6	N36	INTERMEDIATE RANGE DETECTOR N-36	1.00212-11	GOOD	AMP
7	NP	AVERAGE NUCLEAR POWER	00.00	GOOD	%
8	PRCS	REACTOR COOLANT SYSTEM AVG PRESS	929.	ALARM	PSIG
9	LPZR	PRESSURIZER AVERAGE LEVEL	44.7	GOOD	%
10	FRCLA	REACTOR COOLANT LOOP A AVG FLOW	99.4	GOOD	%
11	FRCLB	REACTOR COOLANT LOOP B AVG FLOW	0.2	GOOD	%
12	RXT16	RCPA BREAKER CAUSE RX TRIP	NOT TRIP	GOOD	
13	RXT17	RCPB BREAKER CAUSE RX TRIP	TRIPPED	GOOD	
14	TSUBTC	INCORE TC SUBCOOLED MARGIN	36.2	GOOD	DEGF
15	LSGA	STM GEN A NARROW RANGE AVG LEVEL	20.8	GOOD	%
16	LSGB	STM GEN B NARROW RANGE AVG LEVEL	63.7	GOOD	%
17	PSGA	STM GEN A AVERAGE PRESSURE	479.	GOOD	PSIG
18	PSGB	STM GEN B AVERAGE PRESSURE	932.	GOOD	PSIG
19	GENBKR1	GENERATOR ON LINE BREAKER 1G1372	TRIPPED	GOOD	
20	GENBKR2	GENERATOR ON LINE BREAKER 9X1372	TRIPPED	GOOD	
21	BUS11A	BUS 11A SUPPLY BREAKER	TRIPPED	GOOD	
22	BUS11B	BUS 11B SUPPLY BREAKER	TRIPPED	GOOD	
23	BUS12A	BUS 12A SUPPLY BREAKER	NOT TRIP	GOOD	
24	BUS12B	BUS 12B SUPPLY BREAKER	NOT TRIP	GOOD	
25	B11A12A	BUS 11A TO 12A TIE BREAKER	NOT TRIP	GOOD	
26	B11B12B	BUS 11B TO 12B TIE BREAKER	NOT TRIP	GOOD	
27	PCV	CONTAINMENT AVERAGE PRESSURE	-.31	GOOD	PSIG
28	LSUMPA	CONTAINMENT SUMP A AVERAGE LEVEL	1.8	GOOD	FEET
29	L0942E	SUMP B LEVEL 8 INCHES (TRAIN A)	LOWER	GOOD	
30	L0943E	SUMP B LEVEL 8 INCHES (TRAIN B)	LOWER	GOOD	

781-8

42  
PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT 12:30 25

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	500.2	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	500.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	492.9	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	499.9	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	496.4	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	500.0	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.4	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	499.3	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	213.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 2

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1265	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	93.0	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	7.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	081	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	75.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	1.0	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.69E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	4.00E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.4E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.8E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	7.8E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	5.5E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.9E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.6E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	2.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	8.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	3.20E+00	GOOD HALM	MR/HR

HALM



8-189

Time: 1245  
Message: 43

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Control Room

Simulated Plant Conditions: See Attached Sheets

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

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FOR CONTROLLER USE ONLY

Controller Notes:

1)

Actions Expected:

1) Recovery/re-entry and downgrade discussions continue.

8-190

## 1988 EVALUATED EXERCISE

Time: 1245

MAJOR PARAMETERS

Reactor Shutdown	<u>YES</u> / NO	
N-31	<u>200</u>	CPS
N-32	<u>200</u>	CPS
N-35	<u>1x10<sup>-4</sup></u>	AMPS
N-36	<u>1x10<sup>-4</sup></u>	AMPS
Avg. Nuclear Power	<u>0</u>	%
RCS Pressure	<u>930</u>	PSIG
PRZR Level	<u>46</u>	%
A RCP	<u>RUNNING</u> / STOPPED	
B RCP	<u>RUNNING</u> / STOPPED	
1A S/G Level	<u>22</u>	%
1B S/G Level	<u>65</u>	%
1A S/G Pressure	<u>480</u>	PSIG
1B S/G Pressure	<u>930</u>	PSIG
Turbine/Generator	<u>ONLINE</u> / OFFLINE	
4 KV Buses	<u>ENERGIZED</u> / DEENERGIZED	
480V Buses	<u>ENERGIZED</u> / DEENERGIZED	
Cmnt Pressure	<u>-0.31</u>	PSIG
Cmnt Sump A Level	<u>1.8</u>	FEET
Cmnt Sump B Level	<u>8</u>	INCHES
A Loop Hot Leg	<u>500</u>	°F
A Loop Cold Leg	<u>493</u>	°F
Loop Hot Leg	<u>500</u>	°F
Loop Cold Leg	<u>500</u>	°F
KVLIS	<u>100</u>	%
*CET	<u>499</u>	°F
S/G A Total Aux FW Flow	<u>210</u>	GPM
S/G B Total Aux FW Flow	<u>0</u>	GPM

ENGINEERED SAFEGUARDSHigh Head S.I. Pumps

FI-924	<u>0</u>	GPM
FI-925	<u>0</u>	GPM
1A.	<u>INSERV</u> / STBY / OOS	
1B.	<u>INSERV</u> / STBY / OOS	
1C.	<u>INSERV</u> / STBY / OOS	
BAST Level =	<u>15</u>	%

Low Head S.I. Pumps

FI-626	<u>0</u>	GPM
1A.	<u>INSERV</u> / STBY / OOS / RECIRC	
1B.	<u>INSERV</u> / STBY / OOS / RECIRC	
RWST Level =	<u>93</u>	%

Containment Spray Pumps

FI-931A	<u>0</u>	GPM
FI-931B	<u>0</u>	GPM
1A.	<u>INSERV</u> / STBY / OOS	
1B.	<u>INSERV</u> / STBY / OOS	
NaOH Tank Level =	<u>93</u>	%

Containment Recirc Fans

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

Service Water Pumps

1A.	<u>INSERV</u> / STBY / OOS
1B.	<u>INSERV</u> / STBY / OOS
1C.	<u>INSERV</u> / STBY / OOS
1D.	<u>INSERV</u> / STBY / OOS
A&B Header Pressure	<u>72</u> PSIG

Component Cooling Water Pumps

1A.	<u>INSERV</u> / STBY / OOS
1B.	<u>INSERV</u> / STBY / OOS
Surge Tank Level =	<u>52</u> %

Standby Aux. Feedwater Pumps

1C.	<u>INSERV</u> / STBY / OOS
1D.	<u>INSERV</u> / STBY / OOS

ENGINEERED SAFEGUARDSAux. Feedwater Pumps

1A.	<u>INSERV</u> / STBY / OOS
1B.	<u>INSERV</u> / STBY / OOS
Turb. Driven	<u>INSERV</u> / STBY / OOS
CST Level	<u>17.0</u> FEET

CET = Average of Selected Core Exit Thermocouples

43  
 PROGRAM NAME :LRGTSZ.E  
 R.E. GINNA NUCLEAR POWER PLANT

19,88  
 12:45:09

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
 EVENT 1

GROUP DESCRIPTION  
 SC-703 PLANT STATUS\*DON'T MODIFY

POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	ATWS	NO ATWS	GOOD	
2	RXT	TRIPPED	GOOD	
3	N31	1.99762+2	GOOD	CPS
4	N32	1.99918+2	GOOD	CPS
5	N35	1.00052-11	GOOD	AMP
6	N36	1.000161-11	GOOD	AMP
7	NP	00.00	GOOD	%
8	PRCS	430.	ALARM	PSIG
9	LPZR	46.1	GOOD	%
10	FRCLA	99.3	GOOD	%
11	FRCLB	0.7	GOOD	%
12	RXT16	NOT TRIP	GOOD	
13	RXT17	TRIPPED	GOOD	
14	TSUBTC	36.4	GOOD	DEGF
15	LSGA	22.3	GOOD	%
16	LSGB	64.9	GOOD	%
17	PSGA	480.	GOOD	PSIG
18	PSGB	930.	GOOD	PSIG
19	GENBKR1	TRIPPED	GOOD	
20	GENBKR2	TRIPPED	GOOD	
21	BUS11A	TRIPPED	GOOD	
22	BUS11B	TRIPPED	GOOD	
23	BUS12A	NOT TRIP	GOOD	
24	BUS12B	NOT TRIP	GOOD	
25	B11A12A	NOT TRIP	GOOD	
26	B11B12B	NOT TRIP	GOOD	
27	PCV	-0.31	GOOD	PSIG
28	LSUMPA	1.8	GOOD	FEET
29	L0942E	LOWER	GOOD	
30	L0943E	LOWER	GOOD	

8-151

PROGRAM NAME :LRGTSZ.E  
R.E. GINNA NUCLEAR POWER PLANT

OCT. 1978  
12:45:19

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 1

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	<u>POINT ID</u>	<u>DESCRIPTION</u>	<u>CURRENT VALUE</u>	<u>QUALITY CODE</u>	<u>ENGR UNITS</u>
31	L0942D	SUMP B LEVEL 78 INCHES (TRAIN A)	LOWER	GOOD	
32	L0943D	SUMP B LEVEL 78 INCHES (TRAIN B)	LOWER	GOOD	
33	L0942C	SUMP B LEVEL 113 INCHES (TRAIN A)	LOWER	GOOD	
34	L0943C	SUMP B LEVEL 113 INCHES (TRAIN B)	LOWER	GOOD	
35	L0942B	SUMP B LEVEL 180 INCHES (TRAIN A)	LOWER	GOOD	
36	L0943B	SUMP B LEVEL 180 INCHES (TRAIN B)	LOWER	GOOD	
37	L0942A	SUMP B LEVEL 214 INCHES (TRAIN A)	LOWER	GOOD	
38	L0943A	SUMP B LEVEL 214 INCHES (TRAIN B)	LOWER	GOOD	
39	T0409A	RCLA HOT LEG TEMPERATURE	499.8	GOOD	DEGF
40	T0410A	RCLB HOT LEG TEMPERATURE	500.1	GOOD	DEGF
41	T0450	RCLA COLD LEG TEMPERATURE	493.1	GOOD	DEGF
42	T0451	RCLB COLD LEG TEMPERATURE	500.2	GOOD	DEGF
43	TAVGAWID	RCLA TAVG (THOT/TCOLD WIDE RNG)	496.1	GOOD	DEGF
44	TAVGBWID	RCLB TAVG (THOT/TCOLD WIDE RNG)	500.3	GOOD	DEGF
45	LRV	REACTOR VESSEL AVERAGE LEVEL	115.3	GOOD	%
46	TCCORE	E1.1 INCORE TC AVERAGE TEMP	499.2	GOOD	DEGF
47	FAUXFWA	S/G A TOTAL AUX FEEDWATER FLOW	211.	GOOD	GPM
48	FAUXFWB	S/G B TOTAL AUX FEEDWATER FLOW	0.	GOOD	GPM
49	BKR081	MTR AUXILIARY FEEDWATER PUMP A	ON	GOOD	
50	BKR082	MTR AUXILIARY FEEDWATER PUMP B	OFF	GOOD	
51	V3505	AUX FEED PUMP STEAM SUPPLY VALVE A	CLOSED	GOOD	
52	V3504	AUX FEED PUMP STEAM SUPPLY VALVE B	CLOSED	GOOD	
53	FSIA	SAFETY INJECTION LOOP A AVG FLOW	0.	GOOD	GPM
54	FSIB	SAFETY INJECTION LOOP B AVG FLOW	00.	GOOD	GPM
55	P2160	SERVICE WATER PUMPS A & B HEADER	72.	GOOD	PSIG
56	P2161	SERVICE WATER PUMPS C & D HEADER	72.	GOOD	PSIG
57	BKR041	SERVICE WATER PUMP A	ON	GOOD	
58	BKR042	SERVICE WATER PUMP B	ON	GOOD	
59	BKR043	SERVICE WATER PUMP C	ON	GOOD	
60	BKR044	SERVICE WATER PUMP D	ON	GOOD	

OCT 15 1979  
12:45:29

# TREND GROUP ASSIGNMENT SUMMARY

GROUP NAME  
EVENT 2

GROUP DESCRIPTION  
SC-703 PLANT STATUS\*DON'T MODIFY

	POINT ID	DESCRIPTION	CURRENT VALUE	QUALITY CODE	ENGR UNITS
1	F0619	COMPONENT COOLING LOOP TOTAL FLW	1273.	LALM	GPM
2	LRWST	REFUELING WATER STORAGE TANK LVL	92.9	GOOD	%
3	WS033	33 FOOT LEVEL WIND SPEED	7.1	GOOD	MPH
4	WD033	33 FOOT LEVEL WIND DIRECTION	081	GOOD	DEG.
5	WT033	33 FOOT LEVEL TEMPERATURE	75.0	GOOD	DEGF
6	WT250	250 FOOT LEVEL TEMPERATURE	76.0	GOOD	DEGF
7	WDT2	250 TO 33 FOOT LEVEL DELTA TEMP	10	GOOD	DEGF
8	R01	AREA 1-CONTROL ROOM	1.00E-01	GOOD	MR/H
9	R02	AREA 2-CONTAINMENT	5.64E+02	GOOD	MR/H
10	R09	AREA 9-LETDOWN LINE MONITOR	3.95E+03	GOOD	MR/H
11	R10A	CONTAINMENT IODINE MONITOR R10A	3.6E+06	GOOD	CPM
12	R11	CONTAINMENT AIR PARTICULATE	3.8E+04	GOOD	CPM
13	R12	CONTAINMENT GAS MONITOR	1.9E+04	GOOD	CPM
14	R10B	PLANT VENT IODINE MONITOR R10B	8.1E+03	GOOD	CPM
15	R13	AUX BLDG EXHAUST AIR PARTICULATE	3.6E+02	GOOD	CPM
16	R14	AUX BLDG EXHAUST GAS MONITOR	2.9E+02	GOOD	CPM
17	R29	AREA 29-CONTAINMENT HIGH RANGE	7.90E-01	GOOD	R/HR
18	R30	AREA 30-CONTAINMENT HIGH RANGE	8.69E-01	GOOD	R/HR
19	R15	CONDENSER AIR EJECTOR EXHAUST	1.6E+02	GOOD	CPM
20	R12A5	CV VENT CHAN 5-LOW RANGE GAS	standby	GOOD	UCI/CC
21	R12A7	CV VENT CHAN 7-MID RANGE GAS	standby	GOOD	UCI/CC
22	R12A9	CV VENT CHAN 9-HIGH RANGE GAS	standby	GOOD	UCI/CC
23	R14A5	PLANT VENT CHAN 5-LOW RANGE GAS	2.0E-05	GOOD	UCI/CC
24	R14A7	PLANT VENT CHAN 7-MID RANGE GAS	2.0E-05	GOOD	UCI/CC
25	R14A9	PLANT VENT CHAN 9-HIGH RANGE GAS	1.0E-03	GOOD	UCI/CC
26	R15A5	AIR EJECTOR CHAN 5-LOW RANGE GAS	8.0E-06	GOOD	UCI/CC
27	R15A7	AIR EJECTOR CHAN 7-MID RANGE GAS.	1.0E-05	GOOD	UCI/CC
28	R15A9	AIR EJECTOR CHAN 9-HI RANGE GAS	1.0E-03	GOOD	UCI/CC
29	R31	AREA 31 STEAM LINE A (SPING)	1.00E-02	GOOD	MR/HR
30	R32	AREA 32 STEAM LINE B (SPING)	3.20E+00	GOOD	MR/HR

} Halm

} Halm

8793

8-194  
Time: 1300  
Message: 44

GINNA STATION

1988 EVALUATED EXERCISE

MESSAGE FORM

Message for: Emergency Coordinator and Recovery Manager

Simulated Plant Conditions:

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 Exercise is terminated.

SECTION 9.0

ONSITE RADIOLOGICAL AND CHEMISTRY DATA

SECTION 9.1  
RADIOLOGICAL SUMMARY





## 9.1 Radiological Summary

### A. Source Term

The radiological source term assumed for this scenario was selected to include appropriate quantities of noble gas and radioiodine consistent with the predicted behavior of these materials under the postulated steam generator tube rupture scenario.

Immediate protective action recommendations (e.g., sheltering, evacuation) will not be necessary based upon the projected child thyroid and whole body doses, which will be well below EPA Protective Action Guides. The assumed noble gas and radioiodine release quantities are shown in FIGURE 9.1 as a function of time. The noble gas-to-radioiodine ratio assumed in this scenario is approximately 2800:1, during the period of release through the "B" atmospheric relief valve (ARV). An isotopic breakdown of assumed noble gas, radioiodine and particulate release quantities is provided in TABLE 9.1-1.

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

The downwind integrated doses from the 0.5-hour scenario release are as follows:

Whole Body Dose (at 5 miles) = 0.045 REM

Child Thyroid Dose (at 5 miles) = 0.013 REM

TABLE 9.1-1

The assumed release quantities for the Ginna Exercise Scenario (ARV Release Phase) are summarized as follows:

NUCLIDE	CURIE/SEC	TOTAL CURIES RELEASED
Kr-85	<del>2.26 E-01</del>	<del>1.02 E+03</del>
Kr-85m	<del>2.40 E+01</del>	<del>1.08 E+05</del>
Kr-87	<del>4.00 E+01</del>	<del>1.80 E+05</del>
Kr-88	<del>6.00 E+01</del>	<del>2.70 E+05</del>
Xe-131m	<del>6.55 E-01</del>	<del>2.95 E+03</del>
Xe-133	<del>2.04 E+02</del>	<del>9.18 E+05</del>
Xe-133m	<del>3.20 E+01</del>	<del>1.44 E+05</del>
Xe-135	<del>9.00 E+01</del>	<del>1.80 E+05</del>
Total Noble Gas	3.3 E+01	5.9 E+04
I-131	<del>1.80 E-02</del>	<del>8.10 E+01</del>
I-132	<del>2.59 E-02</del>	<del>1.17 E+02</del>
I-133	<del>3.60 E-02</del>	<del>1.62 E+02</del>
I-134	<del>8.10 E-03</del>	<del>3.65 E+01</del>
I-135	<del>3.26 E-02</del>	<del>1.47 E+02</del>
Total Iodines	1.2 E-02	2.2 E+01
Cs-134	<del>4.32 E-05</del>	<del>1.94 E-01</del>
Cs-137	<del>1.98 E-05</del>	<del>8.91 E-02</del>
Sr-89	<del>4.68 E-08</del>	<del>2.11 E-04</del>
Sr-90	<del>4.32 E-08</del>	<del>1.94 E-04</del>
Ba-140	<del>1.01 E-06</del>	<del>4.54 E-03</del>
La-140	<del>1.01 E-06</del>	<del>4.54 E-03</del>
Total Particulates	1.3 E-08	2.3 E-05

## SECTION 9.2

IN-PLANT RADIOLOGICAL DATA MAPS

(LATER)



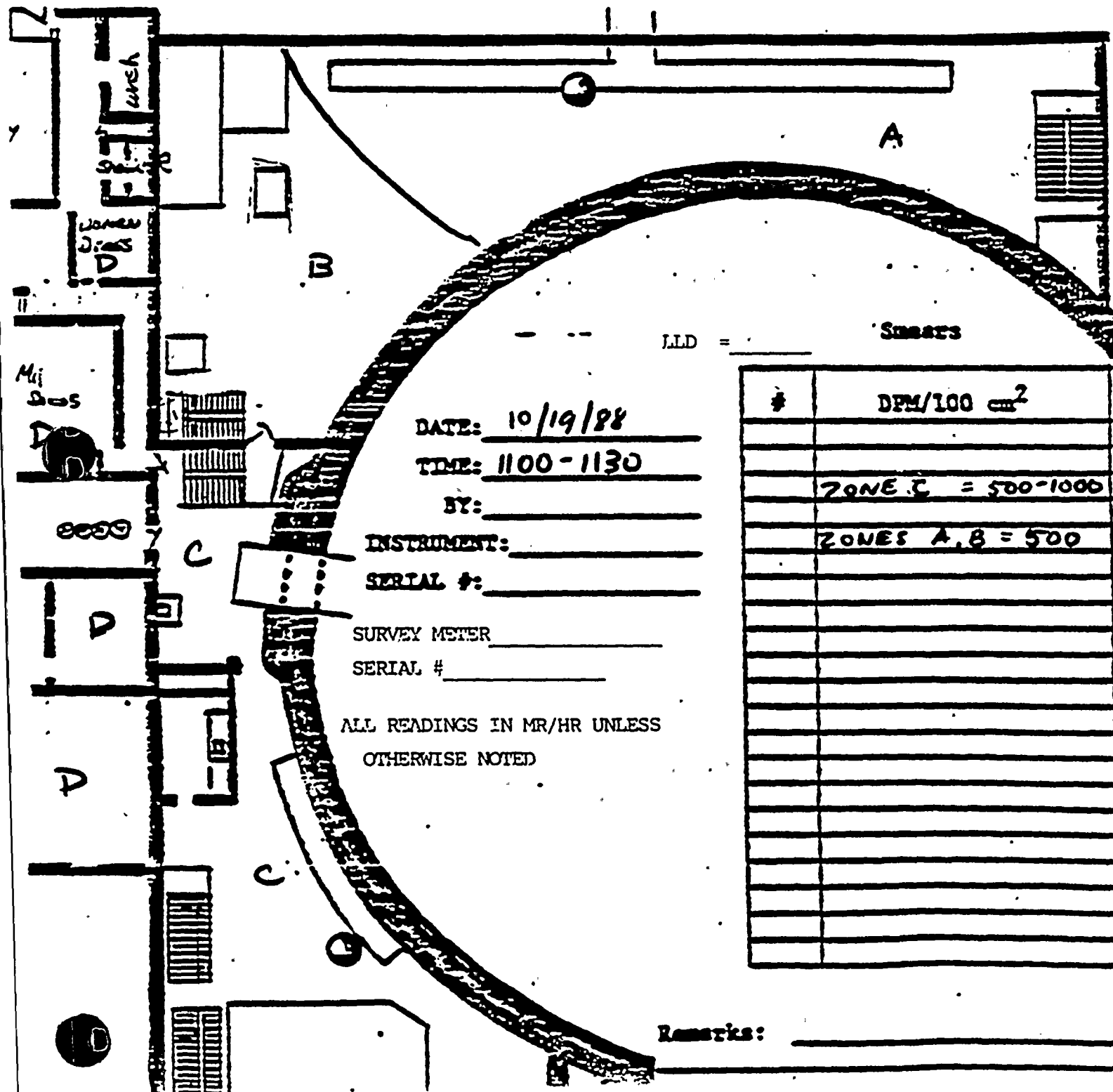
REMARKS:







SURVEY MAP

$$\begin{aligned} A &= 1000 \text{ mR/hr} \\ B &= 25 \text{ mR/hr} \\ C &= 1 \text{ mR/hr} \\ D &= 0.1 \text{ mR/hr} \end{aligned}$$


SURVEY MAP

$$\begin{aligned} A &= 500 \text{ MR/hr} \\ B &= 5 \text{ MR/hr} \\ C &= 0.5 \text{ MR/hr} \\ \text{TSC} &= 0.2 \text{ MR/hr} \\ \text{CR} &= 0.1 \text{ MR/hr} \end{aligned}$$

DATE: 10/19/88 TIME: 1033-  
1045

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

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

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

## SMEARS

[illegible]

REMARKS:

CR = 0.1 mA/HR

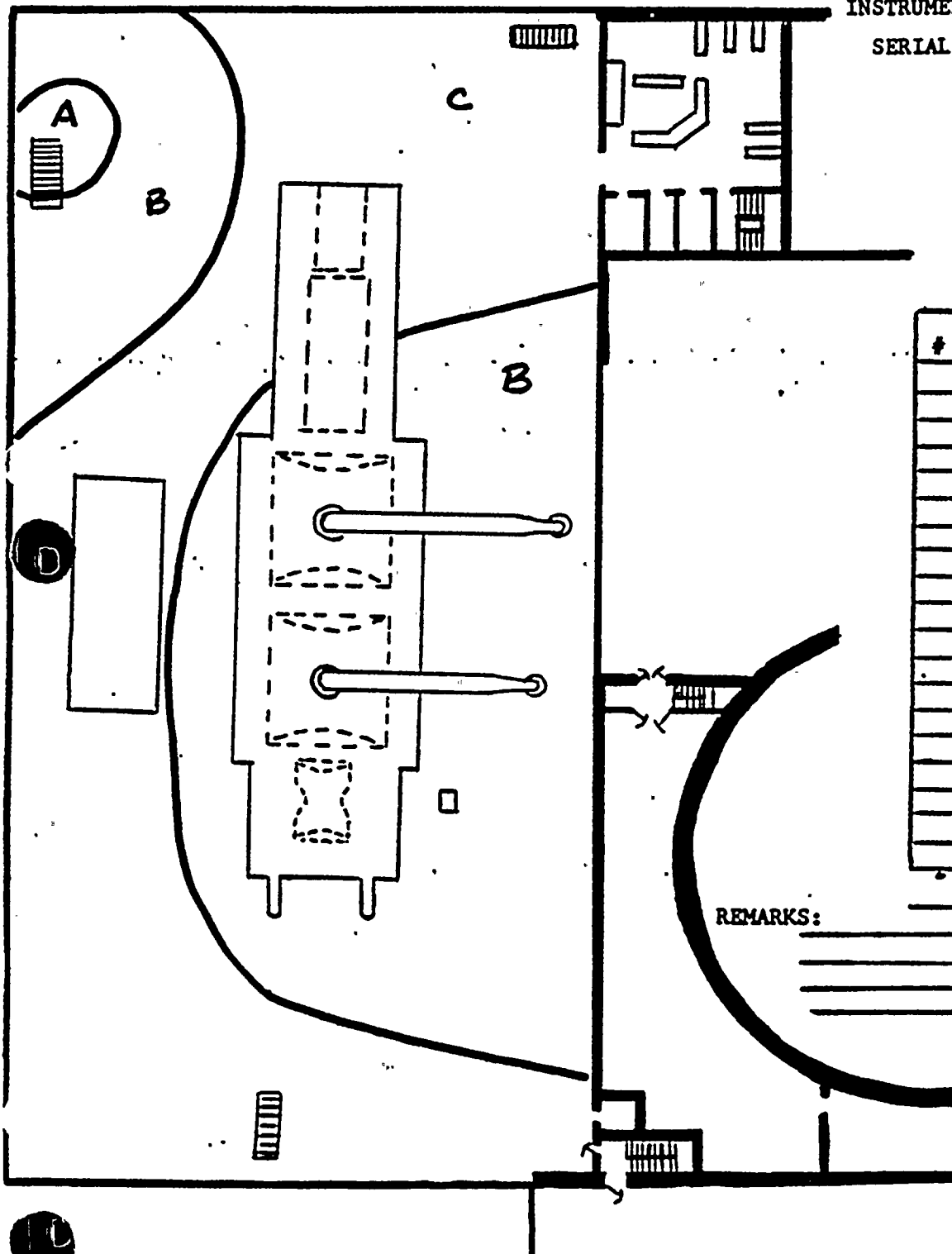
POWER: \_\_\_\_\_ BY: \_\_\_\_\_

SERIAL #:

TURBINE BUILDING OPERATING FLOOR

SURVEY MAP

**NORTH**



## SMEARS

[illegible]

REMARKS:



## SURVEY MAP

$A = 0.5 \text{ mR/hr}$  9-12

$$B = 0.1 \text{ mm/hr}$$
$$TSC = 0.1 \text{ nA/Hz}$$
$$CR = 0.3 \text{ MR/HR}$$

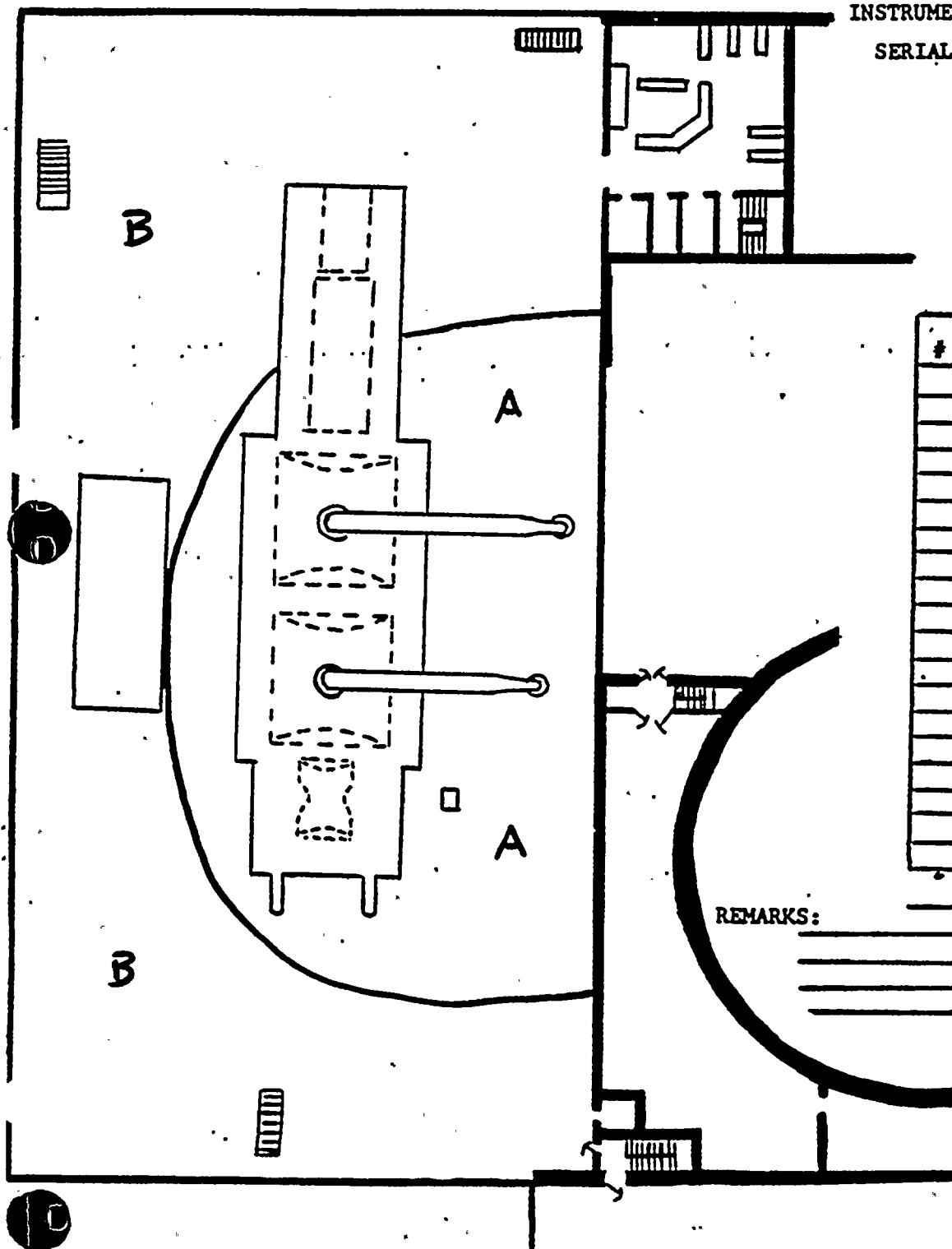
DATE: 10/19/68 TIME: 1100-113

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

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

SERIAL #:

**NORTH**



## SMEARS

[illegible]

REMARKS:

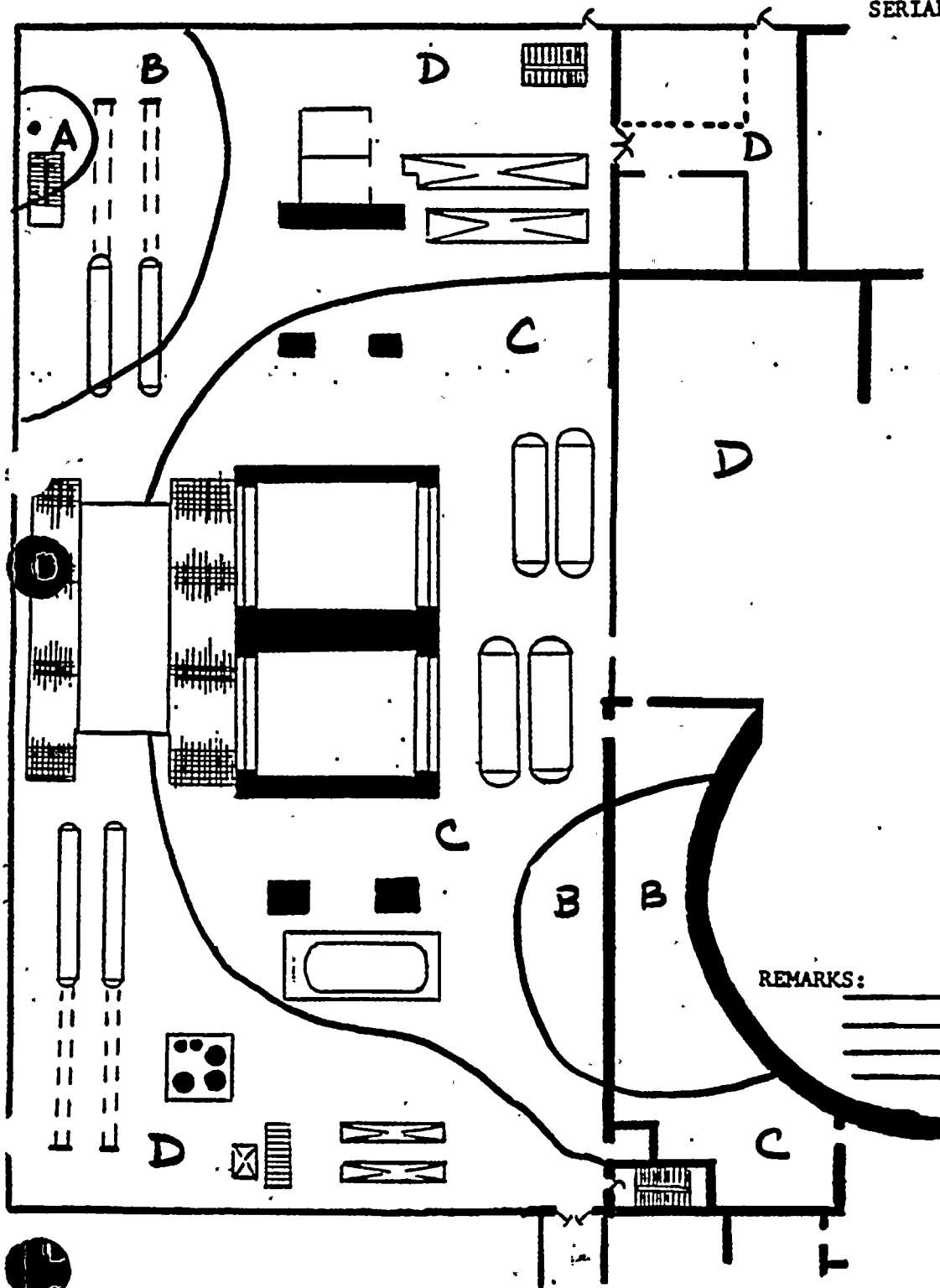


SURVEY MAP

A = 500 mm/hr  
B = 5 mm/hr  
C = 0.5 mm/hr  
D = 0.1 mm/hr

DATE: 10/14/88 TIME: 1033 - 1045  
POWER: \_\_\_\_\_ BY: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_  
SERIAL #: \_\_\_\_\_

**NORTH**



**SMEARS'**

[illegible]

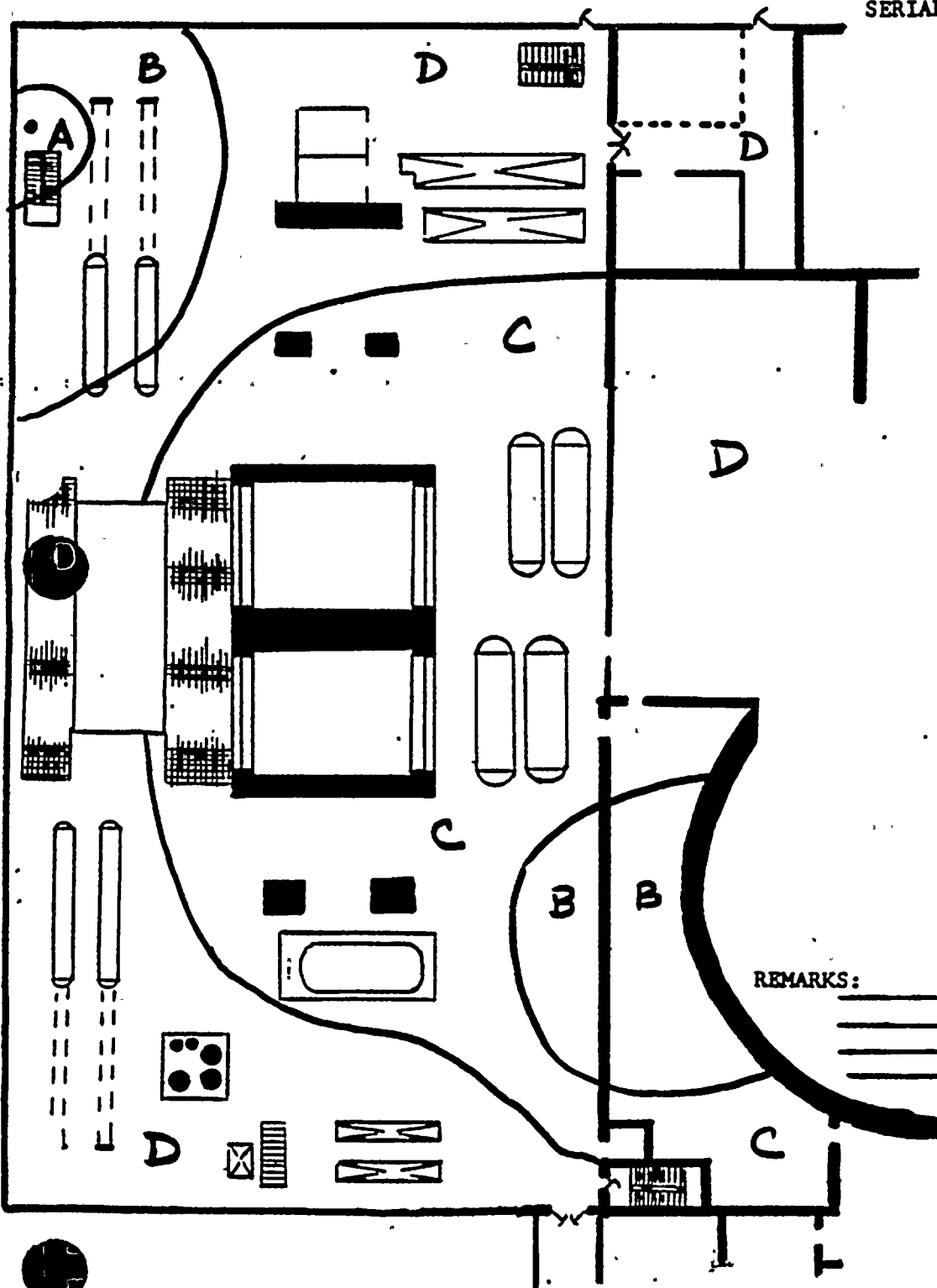
REMARKS:

## 1

SURVEY MAP

DATE: 10/19/88 TIME: 1045-1100  
POWER: \_\_\_\_\_ BY: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_  
SERIAL #: \_\_\_\_\_

**NORTH**

[illegible]

REMARKS:

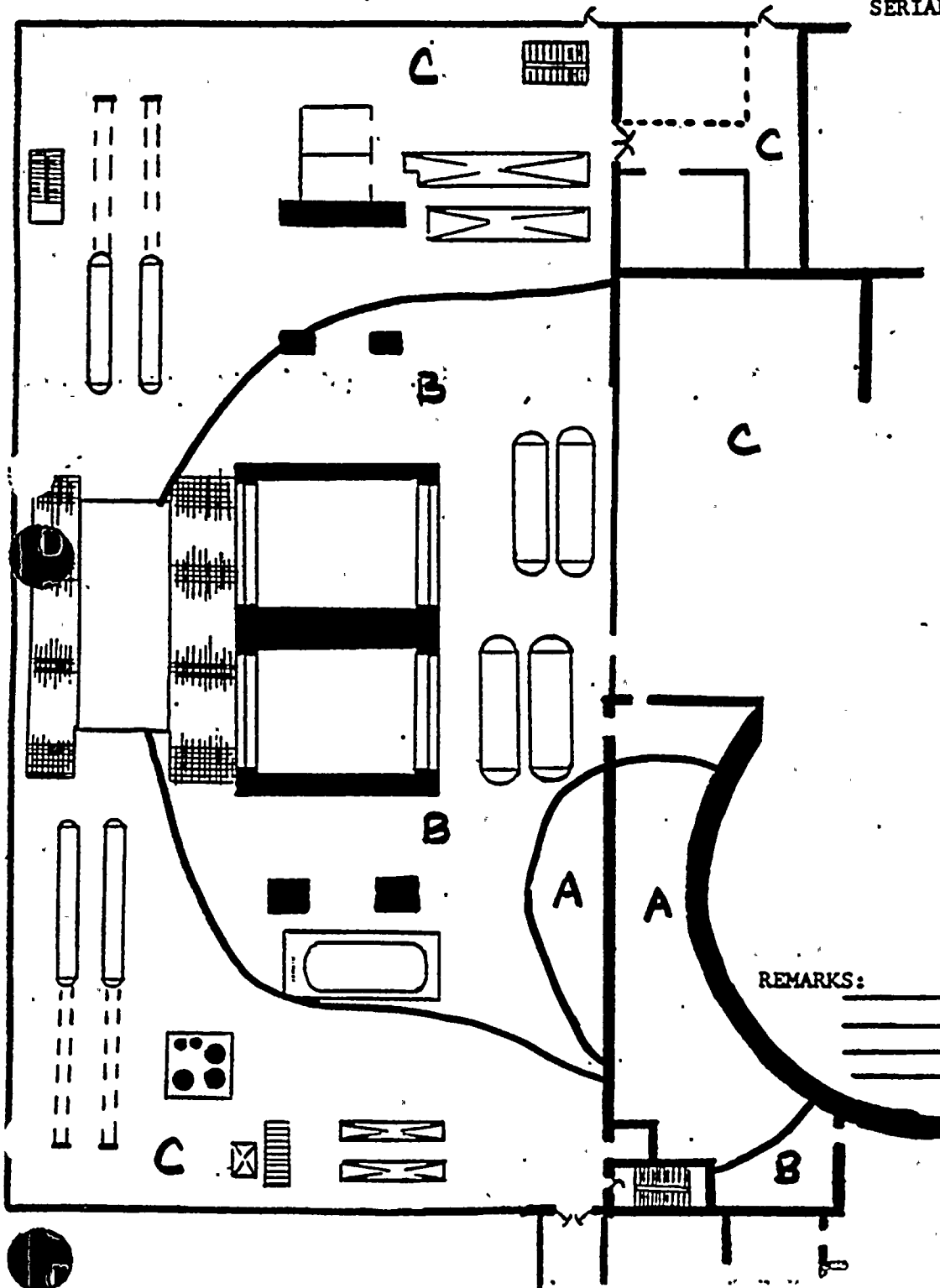


$$\begin{aligned} A &= 10 \text{ mR/hr} \\ B &= 1 \text{ mR/hr} \\ C &= 0.1 \text{ mR/hr} \end{aligned}$$

SURVEY MAP

DATE: 10/19/68 TIME: 1100-1130  
POWER: \_\_\_\_\_ BY: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_  
SERIAL #: \_\_\_\_\_

**NORTH**

[illegible]

REMARKS:

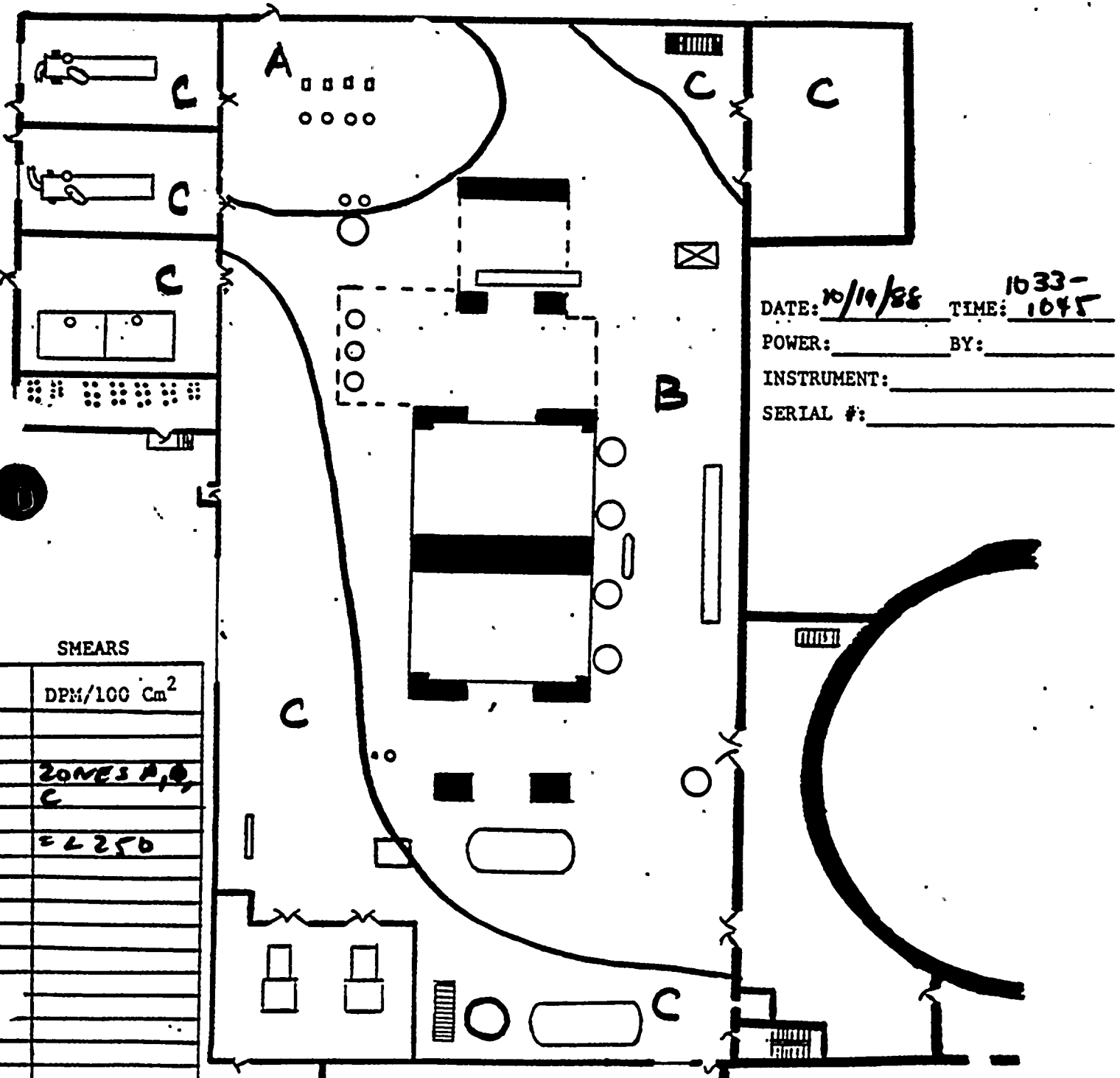
RG&E  
GINNA STATION

TURBINE BUILDING BASEMENT FLOOR

**SURVEY MAP**

$$A = 500 \text{ mR/hr}$$
$$B = 5 \text{ mL/hr}$$
$$C = 0.5 \text{ m}^2/\text{h}$$

**NORTH**



DATE: 10/19/88 TIME: 1033-1045

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

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

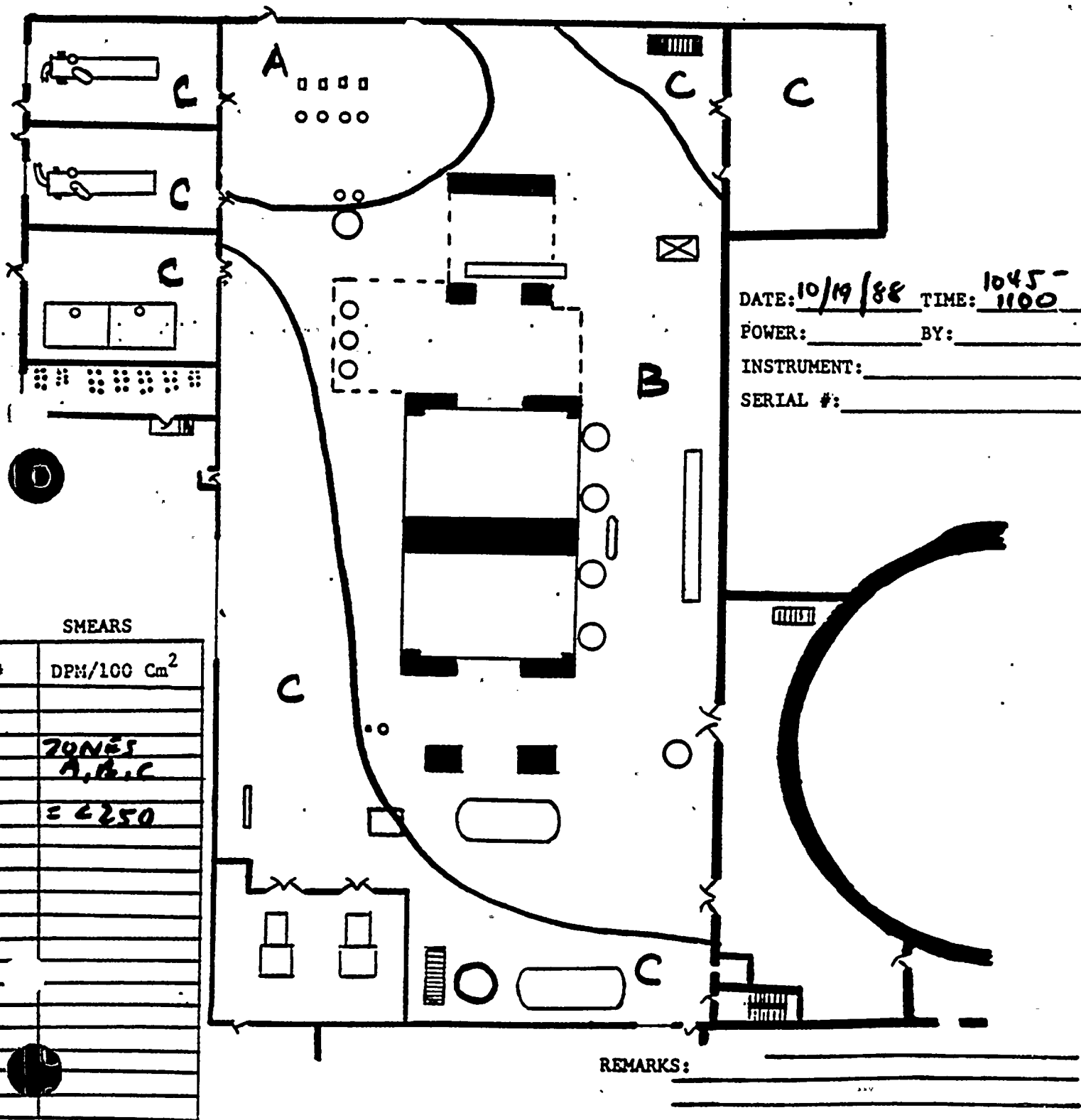
SERIAL #: \_\_\_\_\_

## SMEARS

[illegible]REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

$$\begin{aligned} A &= 75 \text{ mR/hr} \\ B &= 8 \text{ mR/hr} \\ C &= 0.1 \text{ mR/hr} \end{aligned}$$
$$C = 0.1 \text{ mR/hr}$$

NORTH

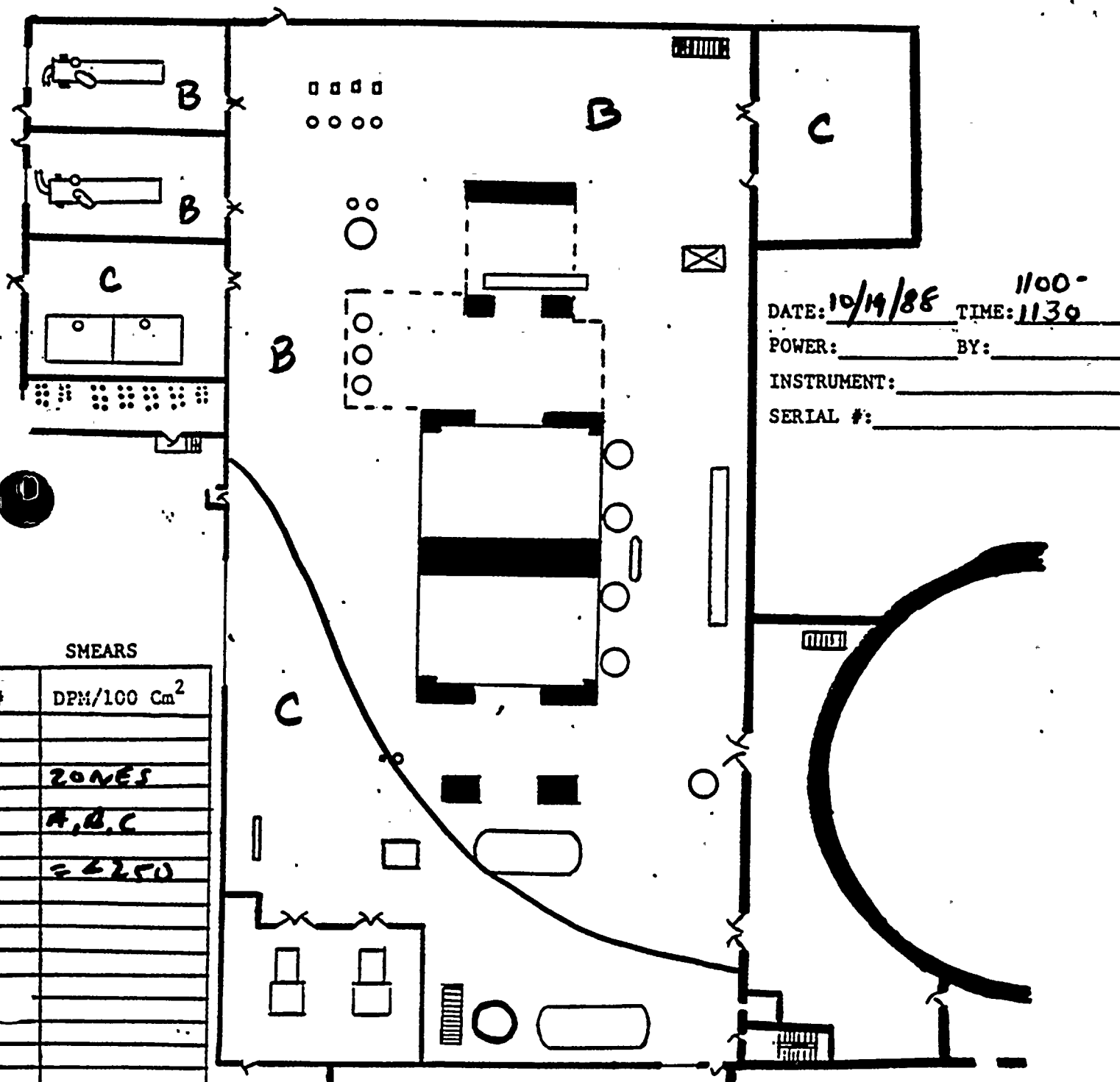




**SURVEY MAP**

$$C = 0.1 \text{ mR/hr.}$$

**NORTH**



DATE: 10/14/88 TIME: 1100-  
POWER: \_\_\_\_\_ BY: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_  
SERIAL #: \_\_\_\_\_

## SMEARS

[illegible]

REMARKS:



## SECTION 9.3

IN-PLANT AND POST-ACCIDENT SAMPLING RESULTS

## REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

## EQUILIBRIUM ACTIVITY

(AS OF 0100 HR)



NUCLIDE	CORRECTED CONCENTRATION (UCI/GM)
I-131	1.2E-01
I-132	1.8E-01
I-133	2.4E-01
I-134	2.2E-01
I-135	5.7E-02
TOTAL IODINE	8.2E-01
I-131 DOSE EQUIV.	1.7E-01
Kr-85	2.5E-03
Kr-85m	2.5E-01
Kr-87	4.5E-01
Kr-88	6.6E-01
Xe-131m	7.1E-03
Xe-133	2.2E+00
Xe-133m	3.3E-01
Xe-135	4.3E-01
Xe-135m	4.3E-03
TOTAL GAS	4.4E+00



TABLE 9.4-A

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

GAS COLLECTION BOMB

(COLLECTION BETWEEN 0730-0830)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
Kr-85	6.9E-03
Kr-85m	6.9E-01
Kr-87	1.2E-01
Kr-88	8.8E-01
Xe-131m	2.0E-02
Xe-133	6.3E+00
Xe-133m	9.2E-01
Xe-135	1.1E+00
Xe-135m	1.1E+00
TOTAL GAS	1.1E+01

UNDILUTED SAMPLE DOSE RATE @ 1 METER =	0.07	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	0.66	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	0.12	MR/HR

TABLE 9.4-B

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

GAS COLLECTION BOMB

(COLLECTION BETWEEN 0830-0930)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
Kr-85	3.2E-02
Kr-85m	3.2E+00
Kr-87	5.7E-01
Kr-88	4.1E+00
Xe-131m	9.4E-02
Xe-133	2.9E+01
Xe-133m	4.3E+00
Xe-135	5.1E+00
Xe-135m	5.1E+00
TOTAL GAS	5.1E+01

UNDILUTED SAMPLE DOSE RATE @ 1 METER =	0.31	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	3.09	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	0.56	MR/HR

TABLE 9.4-C

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

GAS COLLECTION BOMB

(COLLECTION BETWEEN 0930-1030)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
Kr-85	9.2E-02
Kr-85m	9.2E+00
Kr-87	1.6E+00
Kr-88	1.2E+01
Xe-131m	2.7E-01
Xe-133	8.4E+01
Xe-133m	1.2E+01
Xe-135	1.5E+01
Xe-135m	1.5E+01
TOTAL GAS	1.5E+02

UNDILUTED SAMPLE DOSE RATE @ 1 METER =	0.88	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	8.82	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	1.59	MR/HR

TABLE 9.4-D

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

GAS COLLECTION BOMB

(COLLECTION BETWEEN 1030-1200)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
Kr-85	2.0E-01
Kr-85m	2.0E+01
Kr-87	3.6E+00
Kr-88	2.6E+01
Xe-131m	5.9E-01
Xe-133	1.9E+02
Xe-133m	2.7E+01
Xe-135	3.3E+01
Xe-135m	3.3E+01
TOTAL GAS	3.3E+02

UNDILUTED SAMPLE DOSE RATE @ 1 METER =	1.96	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	19.61	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	3.53	MR/HR

TABLE 9.5-A

## REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

-----  
DEGASSED ACTIVITY

(COLLECTION BETWEEN 0730-0830)

NUCLIDE -----	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN -----
I-131	6.5E-01
I-132	1.1E-01
I-133	4.6E-01
I-134	7.2E-01
I-135	2.5E-01
 TOTAL IODINE	 2.2E+00
 I-131 DOSE EQUIV.	 7.6E-01

TIME OF REACTOR SHUTDOWN =

N/A

TIME SINCE SHUTDOWN =

0.00E+00

HRS.

UNDILUTED SAMPLE DOSE RATE @ 1 METER =

0.01

MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT =

0.13

R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER =

0.00

MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT =

0.02

MR/HR

TABLE 9.5-B

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

DEGASSED ACTIVITY

(COLLECTION BETWEEN 0830-0930)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
I-131	3.0E+00
I-132	5.2E-01
I-133	2.2E+00
I-134	3.3E+00
I-135	1.2E+00
TOTAL IODINE	1.0E+01
I-131 DOSE EQUIV.	3.6E+00

TIME OF REACTOR SHUTDOWN =	N/A	
TIME SINCE SHUTDOWN =	0.00E+00	HRS.
UNDILUTED SAMPLE DOSE RATE @ 1 METER =	0.06	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	0.61	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	0.11	MR/HR

TABLE 9.5-C

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

DEGASSED ACTIVITY

(COLLECTION BETWEEN 0930-1030)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
I-131	8.7E+00
I-132	1.5E+00
I-133	6.2E+00
I-134	9.6E+00
I-135	3.4E+00
TOTAL IODINE	2.9E+01
I-131 DOSE EQUIV.	1.0E+01

TIME OF REACTOR SHUTDOWN =

N/A

TIME SINCE SHUTDOWN =

0.00E+00

HRS.

UNDILUTED SAMPLE DOSE RATE @ 1 METER =

0.17

MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT =

1.74

R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER =

0.00

MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT =

0.31

MR/HR

TABLE 9.5-D

REACTOR COOLANT SYSTEM SAMPLE ACTIVITY:

DEGASSED ACTIVITY

(COLLECTION BETWEEN 1030-1200)

NUCLIDE	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN
I-131	9.7E+01
I-132	1.6E+01
I-133	6.9E+01
I-134	1.1E+02
I-135	3.8E+01
TOTAL IODINE	3.2E+02
I-131 DOSE EQUIV.	1.1E+02

TIME OF REACTOR SHUTDOWN =

TIME SINCE SHUTDOWN =

HRS.

UNDILUTED SAMPLE DOSE RATE @ 1 METER =

1.93

MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT =

19.32

R/HR

DILUTED SAMPLE DOSE RATE @ 1 METER =

0.00

MR/HR

DILUTED SAMPLE DOSE RATE @ CONTACT =

3.48

MR/HR





TABLE 9.6-A

## "B" STEAM GENERATOR LIQUID SAMPLE ACTIVITY:

-----  
DEGASSED ACTIVITY

(COLLECTION BETWEEN 1030-1200)

NUCLIDE -----	CONCENTRATION (UCI/GM), CORRECTED TO TIME OF SHUTDOWN -----
I-131	3.0E+01
I-132	5.1E+00
I-133	2.1E+01
I-134	3.3E+01
I-135	1.2E+01
TOTAL IODINE	1.0E+02
I-131 DOSE EQUIV.	3.5E+01

TIME OF REACTOR SHUTDOWN =	10:33	
TIME SINCE SHUTDOWN =	7.50E-01	HRS.
UNDILUTED SAMPLE DOSE RATE @ 1 METER =	0.60	MR/HR
UNDILUTED SAMPLE DOSE RATE @ CONTACT =	6.00	R/HR
DILUTED SAMPLE DOSE RATE @ 1 METER =	0.00	MR/HR
DILUTED SAMPLE DOSE RATE @ CONTACT =	1.08	MR/HR

TABLE 9.7-A

## AIR EJECTOR ACTIVITY

GRAB SAMPLE

(COLLECTION BETWEEN 1033-1045)

NUCLIDE	CONCENTRATION (UCI/CC)
Kr-85	1.2E+01
Kr-85m	1.2E+02
Kr-87	2.1E+01
Kr-88	1.5E+02
Xe-131m	3.5E+00
Xe-133	1.1E+03
Xe-133m	1.6E+02
Xe-135	1.9E+02
Xe-135m	1.9E+02
TOTAL GAS	1.9E+03

UNDILUTED SAMPLE DOSE RATE @ 1 METER =

MR/HR

UNDILUTED SAMPLE DOSE RATE @ CONTACT =

R/HR

TABLE 9.7-B  
AIR EJECTOR ACTIVITY  
-----  
GRAB SAMPLE  
(COLLECTION BETWEEN 1045-1100)

NUCLIDE -----	CONCENTRATION (UCI/CC) -----
Kr-85	1.7E+00
Kr-85m	1.7E+01
Kr-87	3.0E+00
Kr-88	2.2E+01
Xe-131m	4.9E-01
Xe-133	1.5E+02
Xe-133m	2.2E+01
Xe-135	2.7E+01
Xe-135m	2.7E+01
 TOTAL GAS	 2.7E+02

UNDILUTED SAMPLE DOSE RATE @ 1 METER =

MR/HR

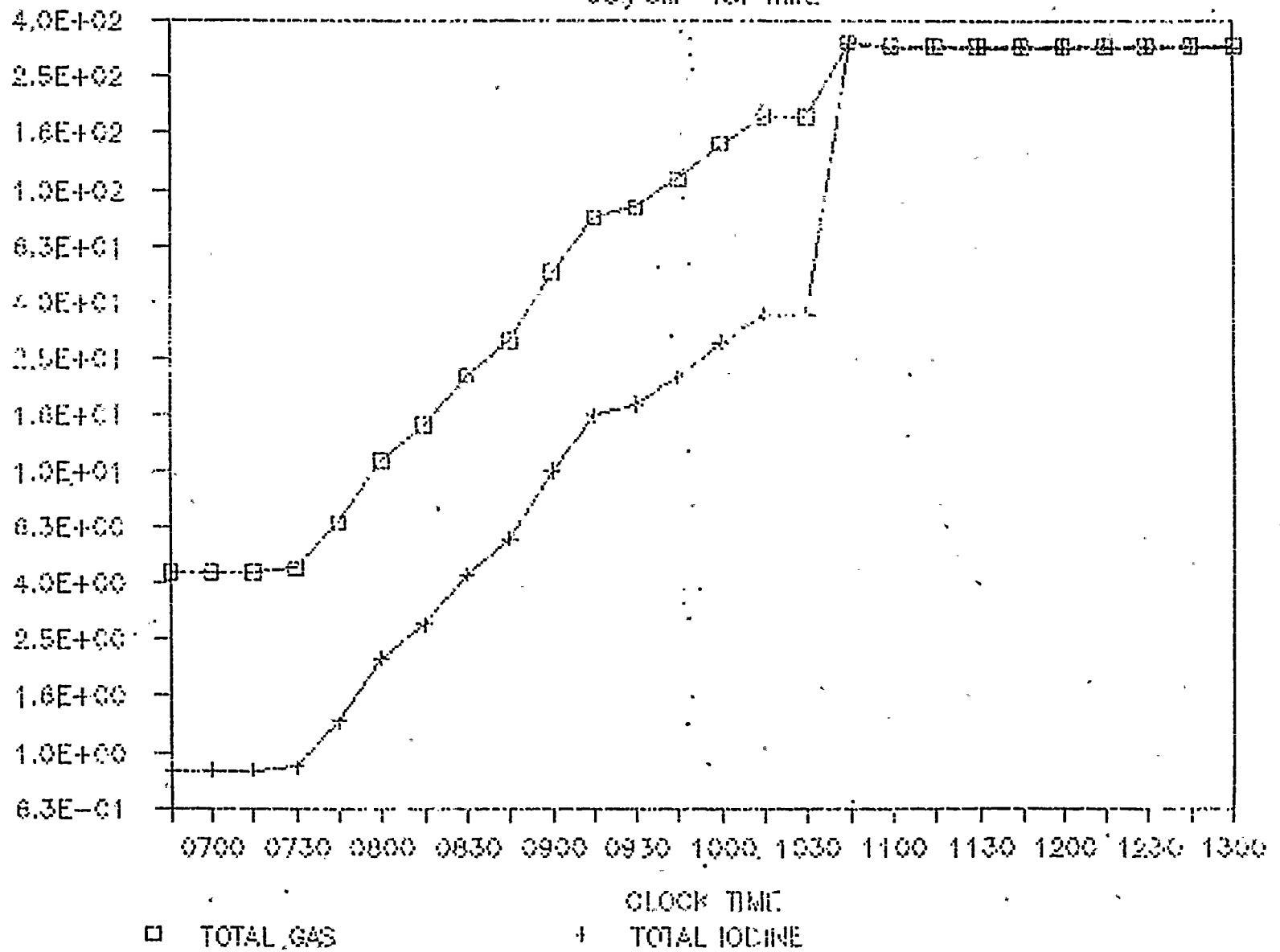
UNDILUTED SAMPLE DOSE RATE @ CONTACT =

R/HR

# RCS ACTIVITY

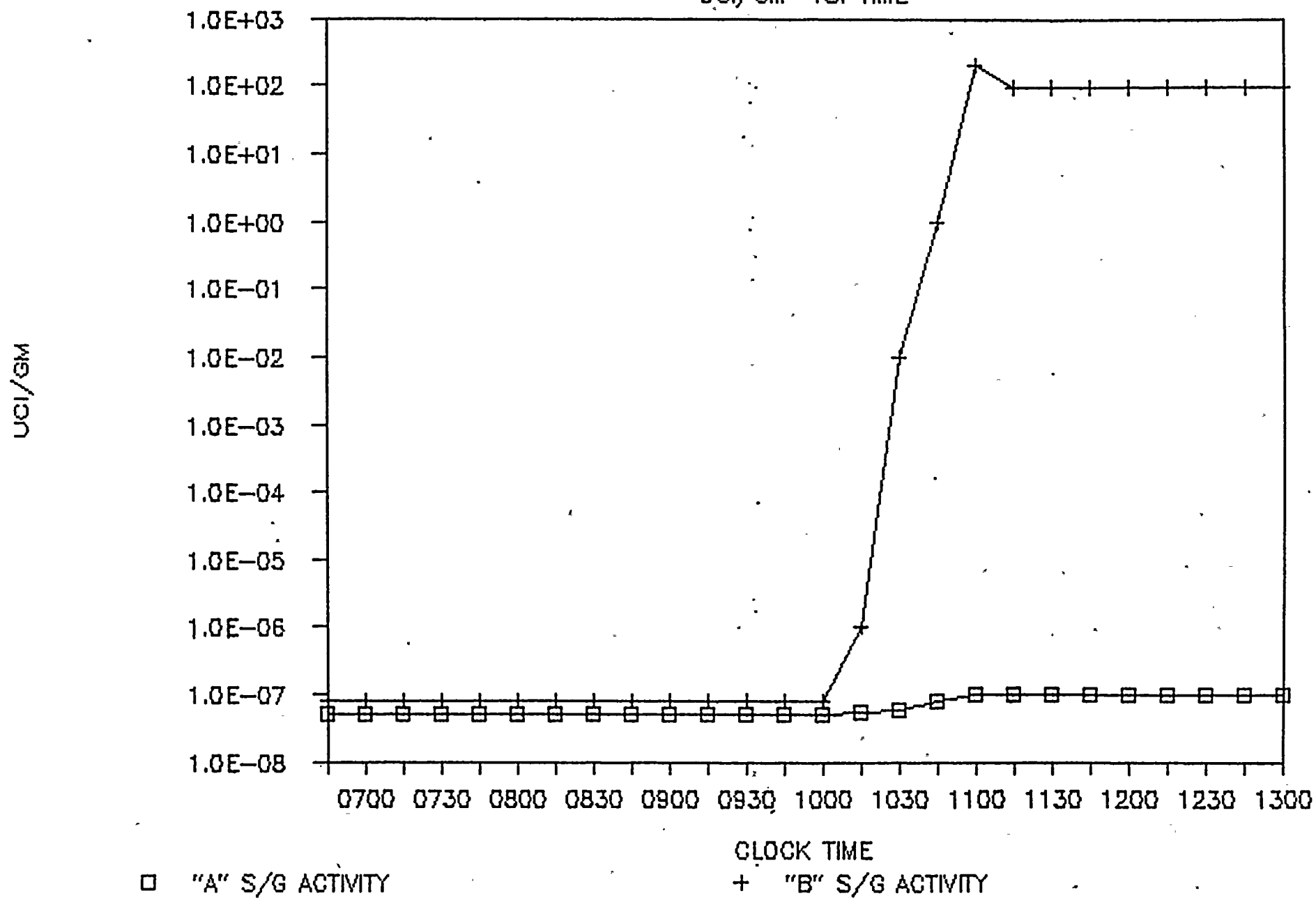
UCI/GM VS. TIME

UCI/GM



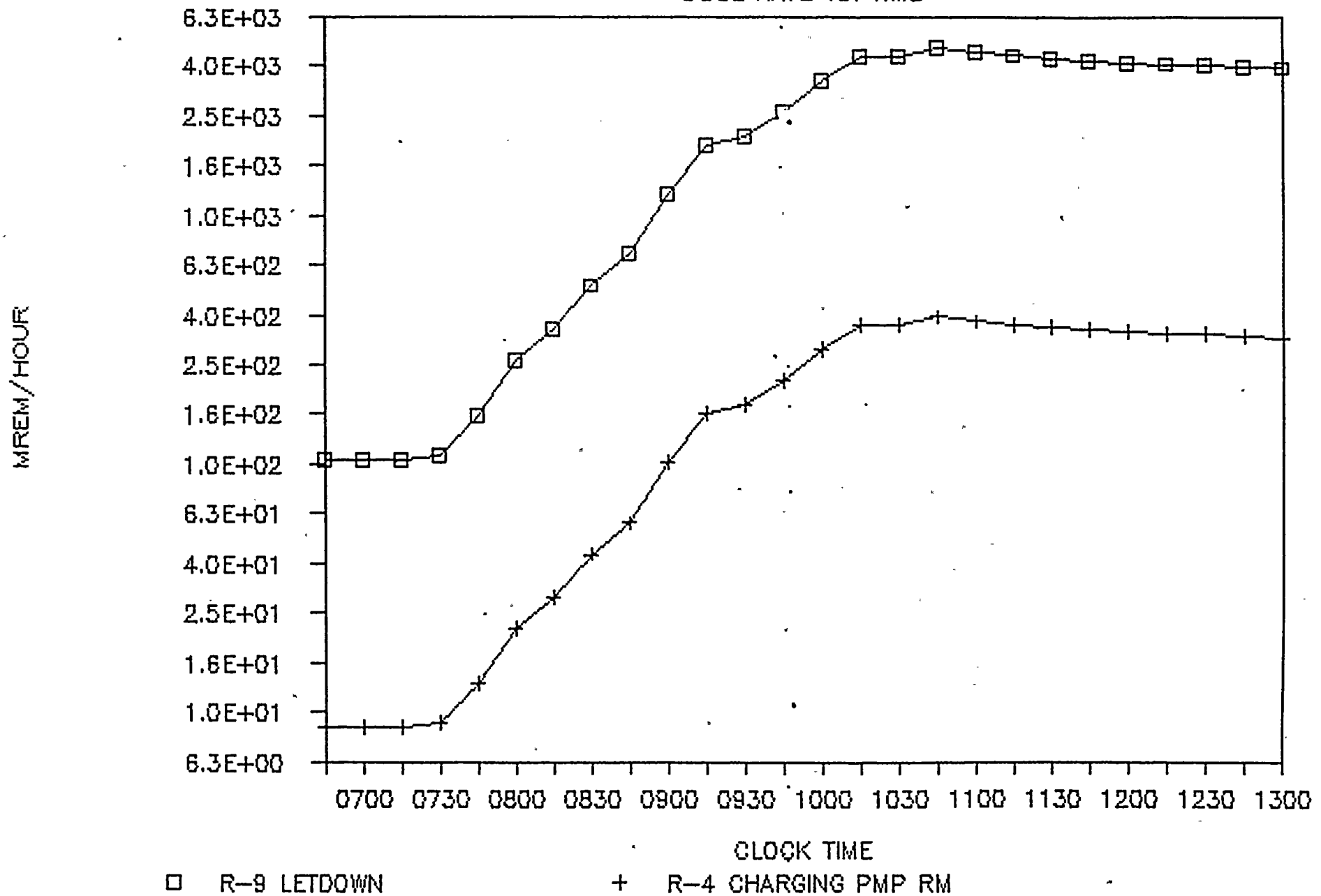
# STEAM GENERATOR ACTIVITY

UCI/GM VS. TIME



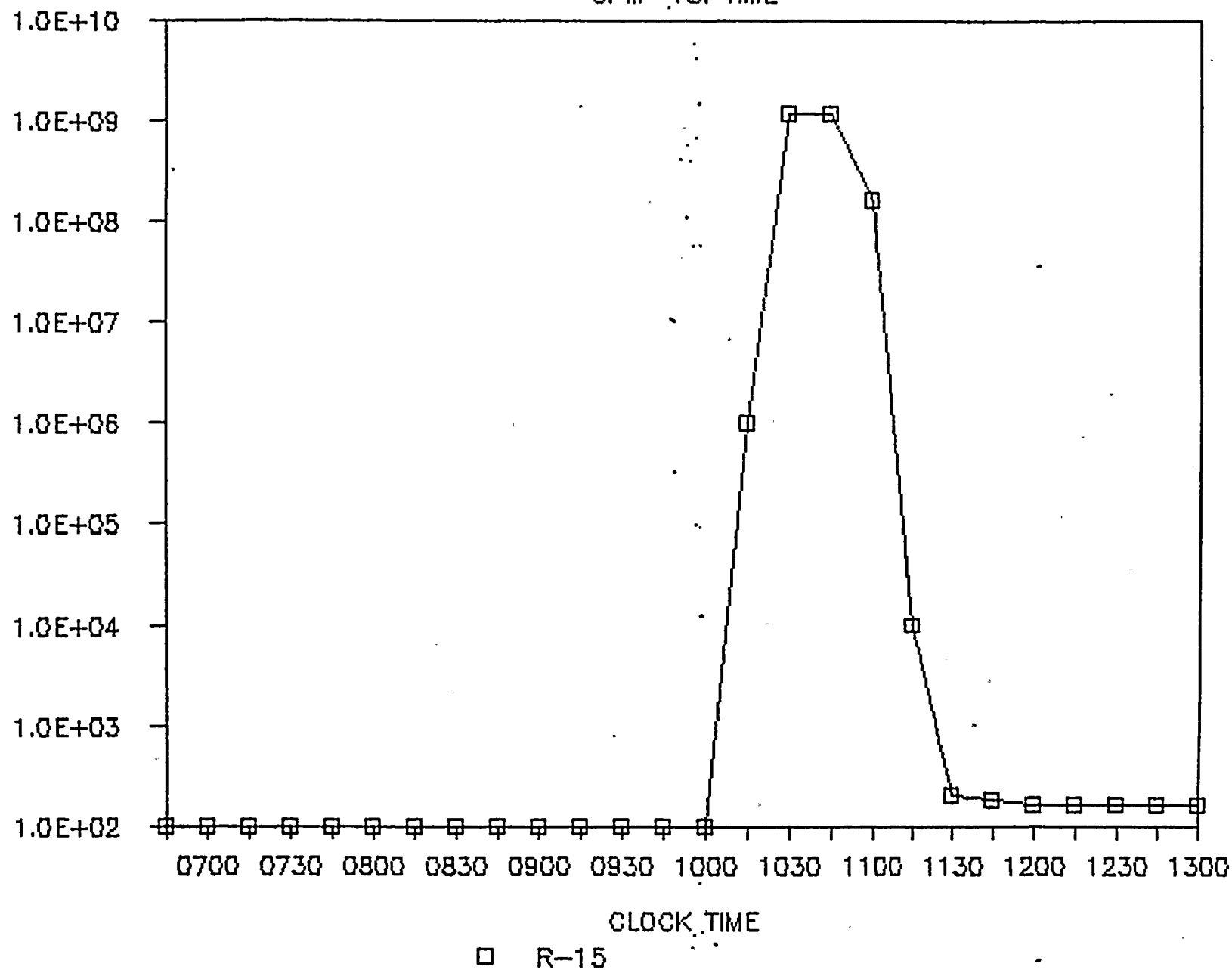
# AREA MONITORS R-4 & R-9

DOSE RATE VS. TIME



# AIR EJECTOR MONITOR R-15

CPM VS: TIME

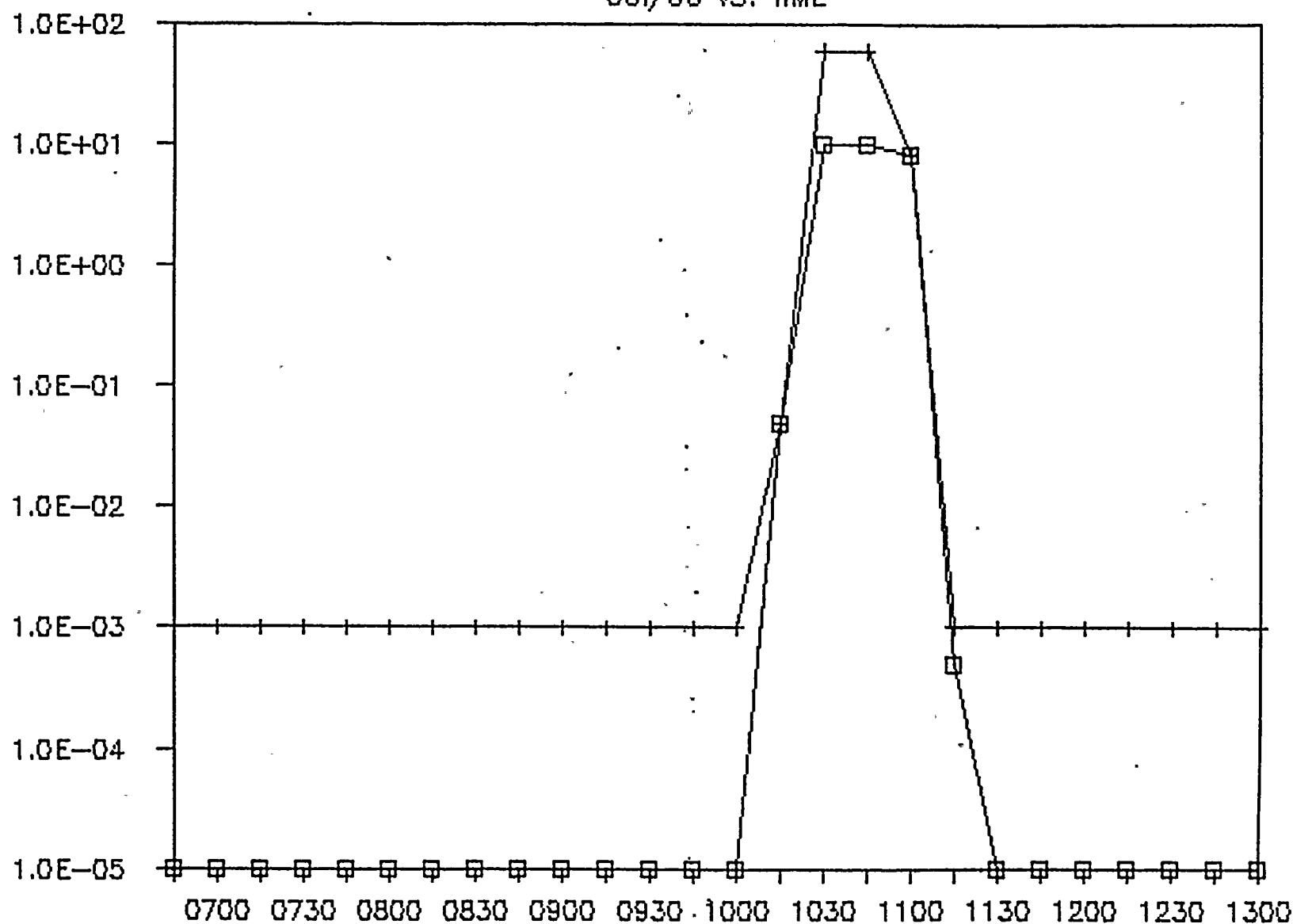




# AIR EJECTOR MONITOR R-15A

UCI/CC VS. TIME

UCI/CC



□ R-15A MID RANGE

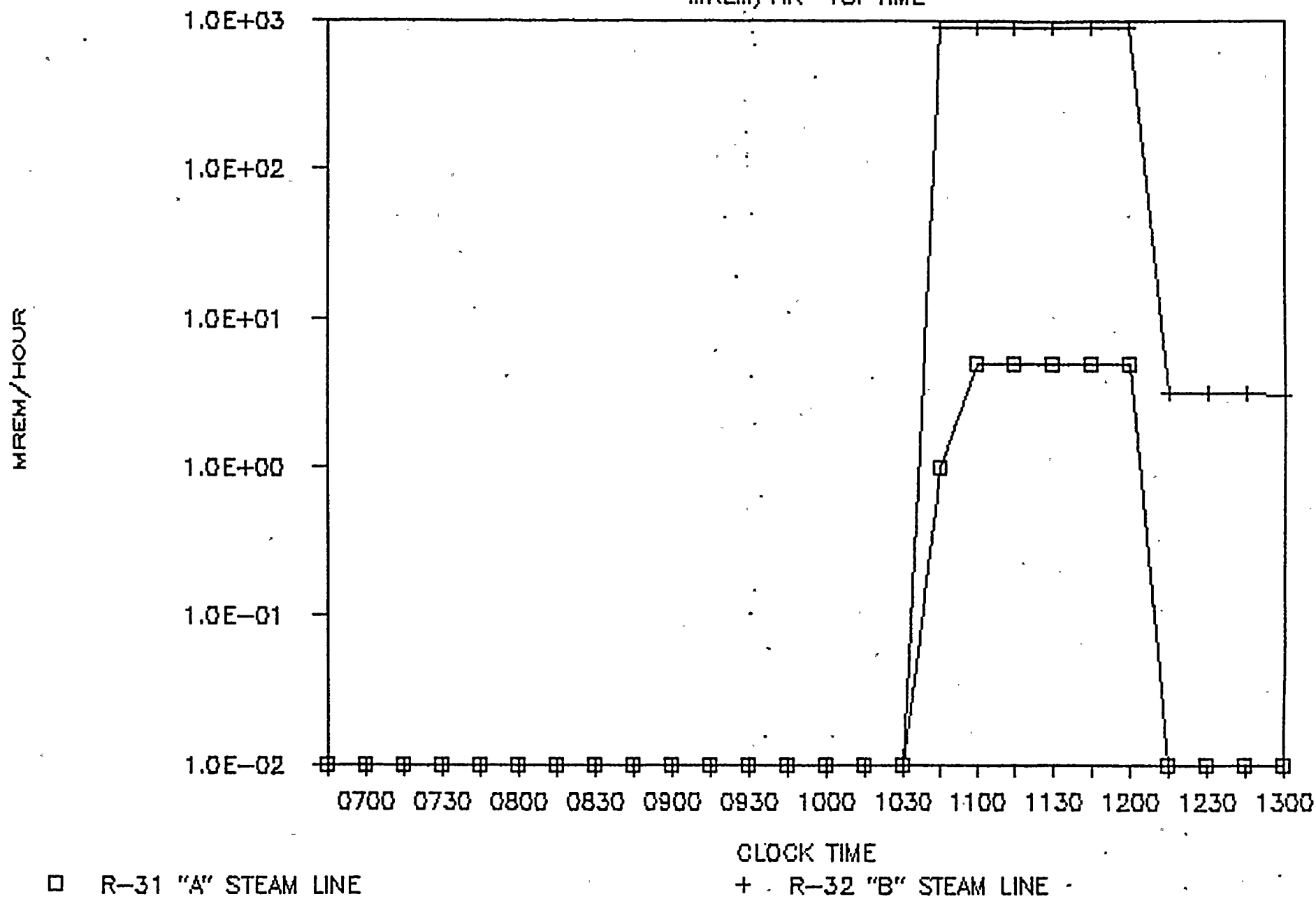
CLOCK TIME

+ R-15A HI RANGE



# STEAM LINE MONITORS R-31 & R-32

MREM/HR VS. TIME



Monitor Data	0645	0700	0715	0730	0745	0800	0815	0830	0845
R-10A CV Iodine (cpm)	6.2E+02	1.2E+03	1.9E+03	2.5E+03	3.4E+03	5.0E+03	7.1E+03	1.0E+04	1.4E+04
R-10B PV Iodine (cpm)	7.7E+01	1.5E+02	2.3E+02	3.1E+02	3.8E+02	4.6E+02	5.4E+02	6.1E+02	6.9E+02
R-11 CV Partic. (cpm)	5.9E+02	5.9E+02	5.9E+02	6.1E+02	8.8E+02	1.5E+03	2.0E+03	2.9E+03	3.9E+03
R-12 CV Gas (cpm)	2.9E+02	2.9E+02	2.9E+02	3.0E+02	4.4E+02	7.3E+02	9.8E+02	1.5E+03	2.0E+03
R-13 PV Part (cpm)	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01
R-14 PV Gas (cpm)	7.1E+01	7.1E+01	8.6E+01	7.1E+01	7.1E+01	7.9E+01	7.9E+01	7.9E+01	7.9E+01
R-15 Air Ejector (cpm)	1.0E+02	1.0E+02	1.2E+02	1.0E+02	1.0E+02	1.1E+02	1.1E+02	1.1E+02	1.1E+02
R-16 Fan Coolrs (cpm)	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01
R-17 Comp Cooling (cpm)	7.0E+01	8.0E+01	9.0E+01	1.0E+02	1.2E+02	1.3E+02	1.3E+02	1.3E+02	1.4E+02
R-18 Radwaste (cpm)	5.0E+03	6.0E+03	7.0E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03
R-19 Blwdrn (cpm)	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03
R-36 Control Rm Gas (cpm)	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00
R-37 Cntrl Rm Part (cpm)	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01
R-38 Cntrl Rm Iodn (cpm)	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00
R-14A PLNT VNT SPING									
Gas Low Rng. (uci/cc)	5.0E-06	5.0E-06	6.0E-06	5.0E-06	5.0E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06
Gas Mid Rng. (uci/cc)	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05
Gas Hi Rng. (uci/cc)	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03
Particulate (uci/cc)	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10
Iodine (uci/cc)	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10
R-15A AIR EJTR SPING									
Gas Low Rng. (uci/cc)	5.0E-06	5.0E-06	6.0E-06	5.0E-06	5.0E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06
Gas Mid Rng. (uci/cc)	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05
Gas Hi Rng. (uci/cc)	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03
Particulate (uci/cc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iodine (uci/cc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Monitor Data		0900	0915	0930	0945	1000	1015	1030	1045	1100
R-10A	CV Iodine (cpm)	2.2E+04	3.3E+04	4.5E+04	6.1E+04	8.2E+04	1.1E+05	1.9E+05	8.2E+05	1.4E+06
R-10B	PV Iodine (cpm)	7.7E+02	8.4E+02	9.2E+02	1.0E+03	1.1E+03	1.2E+03	1.4E+03	1.8E+03	2.8E+03
R-11	CV Partic. (cpm)	6.9E+03	1.1E+04	1.2E+04	1.5E+04	2.0E+04	2.4E+04	1.1E+05	1.8E+05	1.7E+05
R-12	CV Gas (cpm)	3.4E+03	5.4E+03	5.9E+03	7.3E+03	9.8E+03	1.2E+04	1.8E+04	3.0E+04	2.9E+04
R-13	PV Part (cpm)	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	9.1E+01	2.7E+02	5.5E+02	1.1E+03
R-14	PV Gas (cpm)	7.9E+01	7.9E+01	7.9E+01	7.9E+01	7.9E+01	7.9E+01	1.2E+02	2.1E+02	4.3E+02
R-15	Air Ejector (cpm)	1.1E+02	1.1E+02	1.1E+02	1.1E+02	1.1E+02	1.0E+06	1.2E+09	1.2E+09	1.6E+08
R-16	Fan Coolrs (cpm)	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	5.0E+01	1.5E+02	1.5E+02	1.5E+02
R-17	Comp Cooling (cpm)	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03
R-18	Radwaste (cpm)	6.5E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03	6.5E+03	1.0E+04	1.0E+04
R-19	Blwdown (cpm)	4.0E+03	4.0E+03	4.0E+03	4.0E+03	4.0E+03	1.0E+04	2.0E+04	2.0E+04	2.0E+04
R-36	Control Rm Ga (cpm)	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00
R-37	Cntrl Rm Part (cpm)	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01
R-38	Cntrl Rm Iodn (cpm)	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00
R-14A	PLNT VNT SPIN									
	Gas Low Rng. (uci/cc)	5.5E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06	1.0E-05	2.0E-05
	Gas Mid Rng. (uci/cc)	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	2.0E-05
	Gas Hi Rng. (uci/cc)	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03
	Particulate (uci/cc)	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	2.0E-10	4.0E-10
	Iodine (uci/cc)	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	5.0E-10	1.0E-09	2.0E-09
R-15A	AIR EJTR SPIN									
	Gas Low Rng. (uci/cc)	5.5E-06	5.5E-06	5.5E-06	5.5E-06	5.5E-06	1.0E-02	1.0E-02	1.0E-02	1.0E-02
	Gas Mid Rng. (uci/cc)	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	5.0E-02	1.0E+01	1.0E+01	8.1E+00
	Gas Hi Rng. (uci/cc)	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	5.0E-02	5.8E+01	5.8E+01	8.1E+00
	Particulate (uci/cc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iodine (uci/cc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Monitor Data			1115	1130	1145	1200	1215	1230	1245	1300
R-10A	CV Iodine	(cpa)	2.0E+06	2.6E+06	2.8E+06	3.0E+06	3.2E+06	3.4E+06	3.6E+06	3.8E+06
R-10B	PV Iodine	(cpa)	3.7E+03	5.5E+03	6.1E+03	6.7E+03	7.4E+03	7.8E+03	8.1E+03	8.3E+03
R-11	CV Partic.	(cpa)	1.7E+05	1.7E+05	3.8E+04	3.8E+04	3.8E+04	3.8E+04	3.8E+04	3.8E+04
R-12	CV Gas	(cpa)	2.9E+04	2.9E+04	1.9E+04	1.9E+04	1.9E+04	1.9E+04	1.9E+04	1.9E+04
R-13	PV Part	(cpa)	1.1E+03	2.2E+03	7.3E+02	7.3E+02	7.3E+02	5.5E+02	3.6E+02	2.7E+02
R-14	PV Gas	(cpa)	4.3E+02	8.6E+02	5.7E+02	5.7E+02	5.7E+02	2.9E+02	2.9E+02	2.9E+02
R-15	Air Ejector	(cpa)	1.0E+04	2.0E+02	1.8E+02	1.6E+02	1.6E+02	1.6E+02	1.6E+02	1.6E+02
R-16	Fan Coolrs	(cpa)	1.5E+02	1.5E+02	6.0E+01	6.0E+01	6.0E+01	6.0E+01	6.0E+01	6.0E+01
R-17	Coap Cooling	(cpa)	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03	1.3E+03
R-18	Radwaste	(cpa)	1.0E+04	1.0E+04	1.0E+04	8.0E+03	8.0E+03	8.0E+03	8.0E+03	8.0E+03
R-19	Blndwn	(cpa)	2.0E+04	2.0E+04	2.0E+04	2.0E+04	1.6E+03	1.6E+03	1.6E+03	1.6E+03
R-36	Control Rm Ga	(cpa)	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00	2.0E+00
R-37	Cntrl Rm Part	(cpa)	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01	1.5E+01
R-38	Cntrl Rm Iodn	(cpa)	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00	1.5E+00
R-14A	PLNT VNT SPIN									
	Gas Low Rng. (uci/cc)		2.0E-05	4.0E-05	4.0E-05	4.0E-05	4.0E-05	2.0E-05	2.0E-05	2.0E-05
	Gas Mid Rng. (uci/cc)		2.0E-05	4.0E-05	4.0E-05	4.0E-05	4.0E-05	2.0E-05	2.0E-05	2.0E-05
	Gas Hi Rng. (uci/cc)		1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03
	Particulate (uci/cc)		4.0E-10	8.0E-10	8.0E-10	8.0E-10	8.0E-10	6.0E-10	4.0E-10	3.0E-10
	Iodine (uci/cc)		2.0E-09	4.0E-09	4.0E-09	4.0E-09	4.0E-09	3.0E-09	2.0E-09	1.0E-09
R-15A	ATR EJTR SPIN									
	Gas Low Rng. (uci/cc)		5.0E-04	1.0E-05	9.0E-06	8.0E-06	8.0E-06	8.0E-06	8.0E-06	8.0E-06
	Gas Mid Rng. (uci/cc)		5.0E-04	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05
	Gas Hi Rng. (uci/cc)		1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03	1.0E-03
	Particulate (uci/cc)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Iodine (uci/cc)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9-4C

AREA MONITOR READINGS VS. TIME

Monitor Data	0645	0700	0715	0730	0745	0800	0815	0830	0845
R-1 Control Room (ar/hr)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
R-2 Containment (ar/hr)	8.78E+00	8.78E+00	8.78E+00	9.07E+00	1.32E+01	2.19E+01	2.93E+01	4.39E+01	5.85E+01
R-3 Chem Lab. (ar/hr)	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02
R-4 Chrging Pap Rm (ar/hr)	8.80E+00	8.80E+00	8.80E+00	9.09E+00	1.32E+01	2.20E+01	2.93E+01	4.40E+01	5.87E+01
R-5 Spent Fuel Pit (ar/hr)	5.00E+00	5.00E+00	6.00E+00	5.00E+00	5.00E+00	5.50E+00	5.50E+00	5.50E+00	5.50E+00
R-6 Hcl Sapl Room (ar/hr)	4.00E+00	4.00E+00	4.80E+00	4.00E+00	4.00E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00
R-7 Containment (ar/hr)	1.05E+01	1.05E+01	1.05E+01	1.09E+01	1.58E+01	2.63E+01	3.51E+01	5.27E+01	7.02E+01
R-8 Drumming Sta. (ar/hr)	2.50E+00	2.50E+00	3.00E+00	2.50E+00	2.50E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
R-9 Letdown (ar/hr)	1.06E+02	1.06E+02	1.06E+02	1.09E+02	1.58E+02	2.64E+02	3.52E+02	5.28E+02	7.04E+02
R-29 CCV Hi Range (R/hr)	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01
R-30 CCV Hi Range (R/hr)	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01
R-31 "A" Steam (ar/hr)	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02
R-32 "B" Steam (ar/hr)	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02
R-33 Sapl Rm Hi Rng (ar/hr)	4.00E+00	4.00E+00	4.80E+00	4.00E+00	4.00E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00
R-34 CV Spry Pap (ar/hr)	5.28E+00	5.28E+00	5.28E+00	5.46E+00	7.92E+00	1.32E+01	1.76E+01	2.64E+01	3.52E+01
R-35 PASS Panel (ar/hr)	2.50E+00	2.50E+00	3.00E+00	2.50E+00	2.50E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00

9-41

AREA MONITOR READINGS VS. TIME

Monitor Data	0900	0915	0930	0945	1000	1015	1030	1045	1100
R-1 Control Room (ar/hr)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	3.00E-01
R-2 Containment (ar/hr)	1.02E+02	1.61E+02	1.76E+02	2.19E+02	2.93E+02	3.66E+02	3.66E+02	6.01E+02	5.69E+02
R-3 Chem Lab. (ar/hr)	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	9.20E-02	2.00E-01	2.00E-01
R-4 Chrging Pap R (ar/hr)	1.03E+02	1.61E+02	1.76E+02	2.20E+02	2.93E+02	3.67E+02	3.67E+02	3.92E+02	3.75E+02
R-5 Spent Fuel Pi (ar/hr)	5.50E+00	5.50E+00	5.50E+00	5.50E+00	5.50E+00	5.50E+00	5.50E+00	1.00E+01	2.00E+01
R-6 Ncl Sapl Room (ar/hr)	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	8.00E+00	1.60E+01
R-7 Containment (ar/hr)	1.23E+02	1.93E+02	2.11E+02	2.63E+02	3.51E+02	4.39E+02	4.39E+02	7.22E+02	6.83E+02
R-8 Draining Sta. (ar/hr)	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	5.00E+00	1.00E+01
R-9 Letdown (ar/hr)	1.23E+03	1.94E+03	2.11E+03	2.64E+03	3.52E+03	4.40E+03	4.40E+03	4.70E+03	4.50E+03
R-29 CV CV Hi Range (R/hr)	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01
R-30 CV CV Hi Range (R/hr)	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01
R-31 "A" Steam (ar/hr)	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E+00	5.00E+00
R-32 "B" Steam (ar/hr)	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	9.00E+02	9.00E+02
R-33 Sapl Rm Hi Rn (ar/hr)	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	4.40E+00	8.00E+00	1.60E+01
R-34 CV Spry Pap (ar/hr)	6.16E+01	9.68E+01	1.06E+02	1.32E+02	1.76E+02	2.20E+02	2.20E+02	2.35E+02	2.25E+02
R-35 PASS Panel (ar/hr)	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	5.00E+00	1.00E+01

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AREA MONITOR READINGS VS. TIME

Monitor Data	1115	1130	1145	1200	1215	1230	1245	1300
R-1 Control Room (ar/hr)	3.00E-01	3.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
R-2 Containment (ar/hr)	5.69E+02	5.69E+02	5.69E+02	5.69E+02	5.69E+02	5.69E+02	5.69E+02	5.69E+02
R-3 Chem Lab. (ar/hr)	2.00E-01	2.00E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01
R-4 Chrging Pap R (ar/hr)	3.67E+02	3.58E+02	3.50E+02	3.42E+02	3.38E+02	3.33E+02	3.29E+02	3.25E+02
R-5 Spent Fuel Pi (ar/hr)	2.00E+01	4.00E+01	4.00E+01	4.00E+01	4.00E+01	2.00E+01	2.00E+01	2.00E+01
R-6 Ncl Sapl Room (ar/hr)	1.60E+01	3.20E+01	3.20E+01	3.20E+01	3.20E+01	1.60E+01	1.60E+01	1.60E+01
R-7 Containment (ar/hr)	6.83E+02	6.83E+02	6.83E+02	6.83E+02	6.83E+02	6.83E+02	6.83E+02	6.83E+02
R-8 Drunning Sta. (ar/hr)	1.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.00E+01	1.00E+01	1.00E+01
R-9 Letdown (ar/hr)	4.40E+03	4.30E+03	4.20E+03	4.10E+03	4.05E+03	4.00E+03	3.95E+03	3.90E+03
R-29 CV CV Hi Range (R/hr)	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01	7.90E-01
R-30 CV CV Hi Range (R/hr)	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01	8.69E-01
R-31 "A" Steam (ar/hr)	5.00E+00	5.00E+00	5.00E+00	5.00E+00	1.00E-02	1.00E-02	1.00E-02	1.00E-02
R-32 "B" Steam (ar/hr)	9.00E+02	9.00E+02	9.00E+02	9.00E+02	3.20E+00	3.20E+00	3.20E+00	3.10E+00
R-33 Sapl Rn Hi Rn (ar/hr)	1.60E+01	3.20E+01	3.20E+01	3.20E+01	3.20E+01	1.60E+01	1.60E+01	1.60E+01
R-34 CV Spry Pap (ar/hr)	2.20E+02	2.15E+02	2.10E+02	2.05E+02	2.03E+02	2.00E+02	1.98E+02	1.95E+02
R-35 PASS Panel (ar/hr)	1.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.00E+01	1.00E+01	1.00E+01

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SECTION 10.0

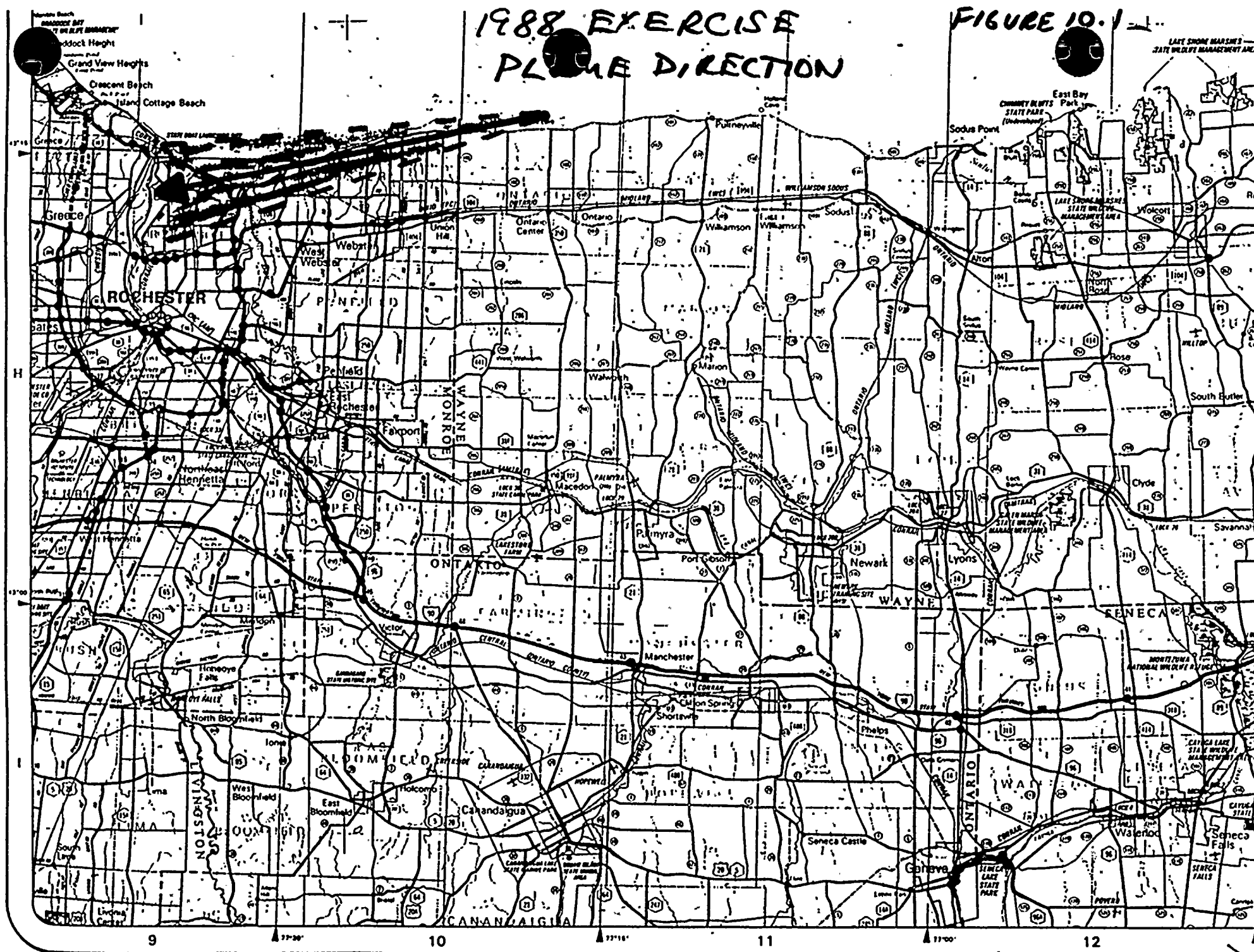
METEOROLOGICAL AND OFFSITE RADIOLOGICAL DATA

SECTION 10.1

METEOROLOGICAL CONDITIONS AND FORECASTS

# 1988 EXERCISE PLANE DIRECTION

FIGURE 10.1



THE MAP FOR SALE BY THE MAP INFORMATION UNIT, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STATE CAMPUS, ALBANY, NEW YORK 12242  
 ADAPTED FROM THE FOUR SHEET, 1:250,000 SCALE NEW YORK STATE MAP © 1963 BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SCALE 1:250,000

0 5 MILES

NORTH

10-4

WEATHER FORECAST INFORMATION

OCTOBER 19, 1988

08:00 AM

<u>STATION_NAME</u>	<u>TEMP</u>	<u>WIND</u>	<u>GST</u>	<u>VIS</u>	<u>WEATHER</u>
KINGSTON, ONT	68	3		5	PLT CL
ROCHESTER, NY	75	4		5	PLT CL
SYRACUSE, NY	72	5		10	PLT CL
BUFFALO, NY	73	6		10	PLT CL

LAKE\_ONTARIO\_FORECAST:

TODAY: WESTERLY WINDS BECOMING EAST TO NORTHEASTERLY BY MID-MORNING, WITH A 90 PERCENT PROBABILITY OF THUNDERSHOWERS. TEMPERATURES EXPECTED IN THE MID-70'S. WINDS REMAIN FROM THE EAST THROUGHOUT THE REMAINDER OF THE AFTERNOON AND EVENING. SHOWERS WILL TAPER OFF BY EARLY AFTERNOON FOLLOWED BY PARTLY CLOUDY SKIES.

TONIGHT: EASTERLY WINDS, BECOMING COOLER. LOW'S IN THE UPPER 50'S TONIGHT WITH CLEAR SKIES.



WEATHER FORECAST INFORMATION

OCTOBER 19, 1988

10:00 AM

<u>STATION_NAME</u>	<u>TEMP</u>	<u>WIND</u>	<u>GST</u>	<u>VIS</u>	<u>WEATHER</u>
KINGSTON, ONT	70	7		5	CLOUDY
ROCHESTER, NY	75	6		5	CLOUDY
SYRACUSE, NY	72	5		10	PLT CL
BUFFALO, NY	73	5		5	CLOUDY

LAKE\_ONTARIO\_FORECAST:

TODAY: WINDS WILL SHIFTING EASTERLY BY MID-MORNING, WITH A 100 PERCENT PROBABILITY OF THUNDERSHOWERS THIS MORNING. TEMPERATURES EXPECTED IN THE MID-70'S. WINDS WILL REMAIN FROM THE EAST THROUGHOUT THE REMAINDER OF THE AFTERNOON AND EVENING. SHOWERS WILL END BY EARLY AFTERNOON FOLLOWED BY PARTLY CLOUDY SKIES.

TONIGHT: EASTERLY WINDS, BECOMING COOLER. LOW'S IN THE UPPER 50'S TONIGHT WITH CLEAR SKIES.

TOMORROW: SUNNY SKIES, WINDS BECOMING SOUTHERLY. TEMPERATURES IN THE LOW 60'S.





WEATHER FORECAST INFORMATION

OCTOBER 19, 1988

12:00 AM

<u>STATION NAME</u>	<u>TEMP</u>	<u>WIND</u>	<u>GSI</u>	<u>VIS</u>	<u>WEATHER</u>
KINGSTON, ONT	75	8		5	PLT CL
ROCHESTER, NY	75	8		5	PLT CL
SYRACUSE, NY	77	5		10	PLT CL
BUFFALO, NY	74	5		5	CLOUDY

LAKE ONTARIO FORECAST:

TODAY: WINDS WILL SHIFTING EASTERLY BY MID-MORNING, WITH A 100 PERCENT PROBABILITY OF THUNDERSHOWERS THIS MORNING. TEMPERATURES EXPECTED IN THE MID-70'S. WINDS WILL REMAIN FROM THE EAST THROUGHOUT THE REMAINDER OF THE AFTERNOON AND EVENING. SHOWERS WILL END BY EARLY AFTERNOON FOLLOWED BY PARTLY CLOUDY SKIES.

TONIGHT: EASTERLY WINDS, BECOMING COOLER. LOW'S IN THE UPPER 50'S TONIGHT WITH CLEAR SKIES.

TOMORROW: SUNNY SKIES, WINDS BECOMING SOUTHERLY. TEMPERATURES IN THE LOW 60'S.

SECTION 10.2

ONSITE AND OFFSITE RADIOLOGICAL READINGS



PLUME MAP (0-1 MILE)

FIGURE 10

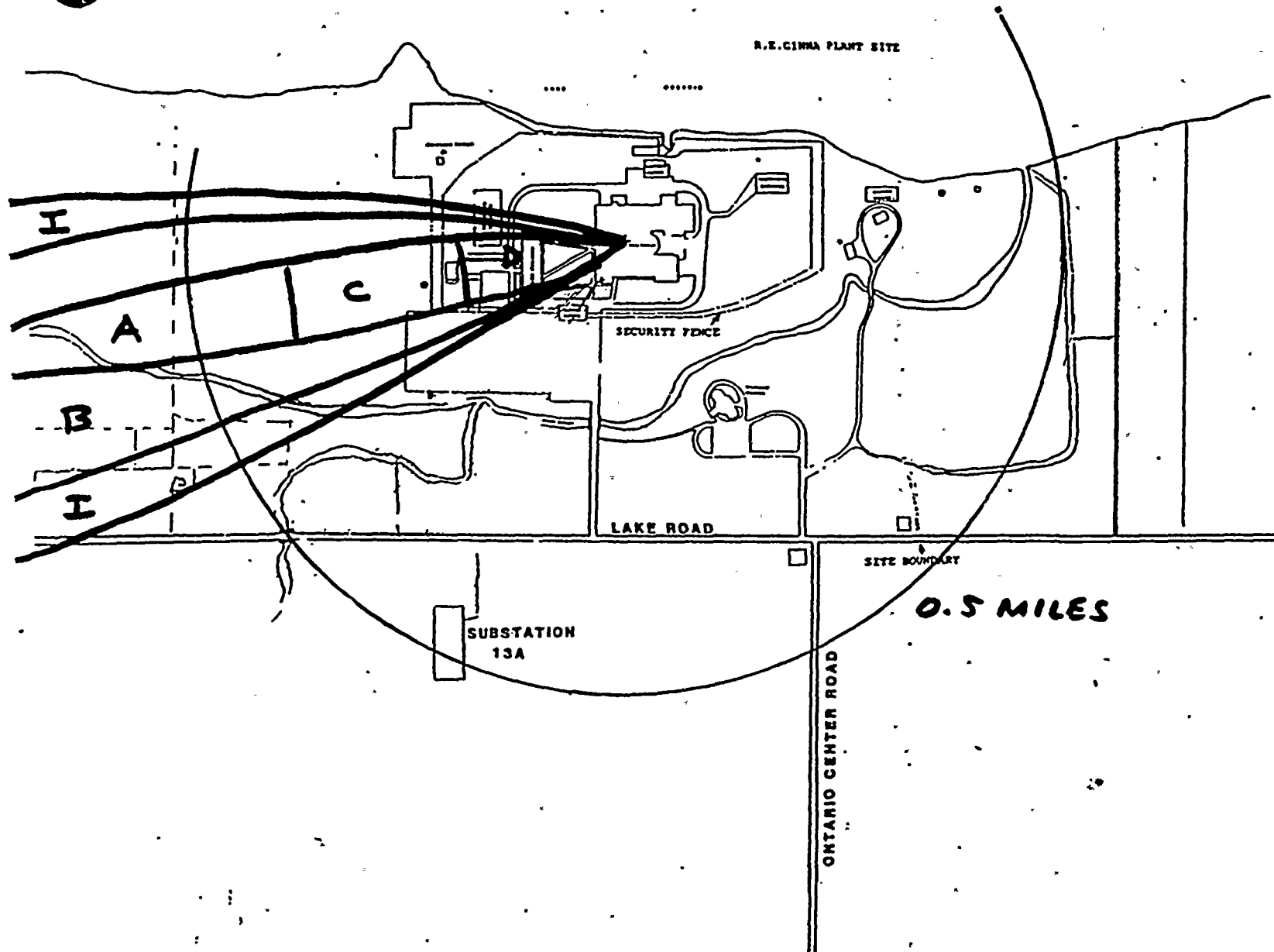


TABLE 10.1

## DRILL CONTROLLER DATA

REGARDING PLUME ARRIVAL AND DEPARTURE TIMES

DISTANCE (MI)	TABLE 10.2	TABLE 10.3	TABLE 10.4	TABLE 10.5
0.5	10:38	10:50	11:05	11:35
1.0	10:43	10:55	11:10	11:40
2.0	10:53	11:05	11:20	11:50
3.0	11:03	11:15	11:30	12:00
4.0	11:13	11:25	11:40	12:10
5.0	11:23	11:35	11:50	12:20
6.0	11:33	11:45	12:00	12:30
7.0	11:43	11:55	12:10	12:40
8.0	11:53	12:05	12:20	12:50
9.0	12:03	12:15	12:30	13:00
10.0	12:13	12:25	12:40	13:10

## NOTE:

Arrival times are to be used along with Tables 10.2, 10.3, 10.4 or 10.5 as appropriate. Background readings should be given for field surveys performed before plume arrival.



TABLE 10.2

RADIOLOGICAL SURVEY/SAMPLING DATA

ZONE	CLOSE WINDOW (mR/hr)		OPEN WINDOW (mR/hr)		DOSIMETRY INCRMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
	3 FEET	CONTACT	3 FEET	CONTACT			
A	67	67	88	88	17	20	20
B	36	36	48	48	9	20	20
C	18	18	24	24	5	20	20
D	8	8	11	11	2	20	20
E	5	5	7	7	1	20	20
F	4	4	5	5	1	20	20
G	2	2	3	3	1	20	20
H	2	2	2	2	0	20	20
I	1	1	2	2	0	20	20



TABLE 10.3

## RADIOLOGICAL SURVEY/SAMPLING DATA

ZONE.	CLOSE WINDOW (mR/hr)		OPEN WINDOW (mR/hr)		DOSIMETRY		
	3 FEET	CONTACT	3 FEET	CONTACT	INCRMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
A	9	9	12	12	2	20	20
B	5	5	7	7	1	20	20
C	2	2	3	3	1	20	20
D	1	1	1	1	0	20	20
E	1	1	1	1	0	20	20
F	0	0	1	1	0	20	20
G	0	0	0	0	0	20	20
H	0	0	0	0	0	20	20
I	0	0	0	0	0	20	20

TABLE 10.4

## RADIOLOGICAL SURVEY/SAMPLING DATA

ZONE	CLOSE WINDOW (mR/hr)		OPEN WINDOW (mR/hr)		DOSIMETRY INCRMENT EXPOSURE (mREM)	IODINE CARTRIDGE (CPM)	PARTICULATE FILTER (CPM)
	3 FEET	CONTACT	3 FEET	CONTACT			
A	758	758	998	998	189	1831	20
B	412	412	542	542	103	901	20
C	206	206	271	271	51	444	20
D	91	91	120	120	23	199	20
E	58	58	76	76	14	129	20
F	40	40	53	53	10	91	20
G	26	26	35	35	7	53	20
H	18	18	24	24	4	27	20
I	16	16	20	20	4	24	20

TABLE 10.5

POST-PLUME RADIOLOGICAL SURVEY/SAMPLING DATA  
( FOR END WINDOW AND PANCAKE PROBES)

POST-PLUME DECAY TIME =

1.0 HOURS

ZONE	TOTAL GROUND ACTIVITY UCI/M2	END WINDOW PROBE (CPM)		PANCAKE PROBE (CPM)	
		1 METER	1 CM	1 METER	1 CM
A	1.69E+01	2.7E+02	2.1E+04	4.4E+02	3.4E+04
B	9.17E+00	1.5E+02	1.2E+04	2.4E+02	1.9E+04
C	4.58E+00	7.3E+01	5.8E+03	1.2E+02	9.4E+03
D	2.03E+00	3.2E+01	2.6E+03	5.3E+01	4.2E+03
E	1.29E+00	2.0E+01	1.6E+03	3.0E+01	2.6E+03
F	8.98E-01	2.0E+01	1.1E+03	3.0E+01	1.8E+03
G	5.88E-01	2.0E+01	7.6E+02	3.0E+01	1.2E+03
H	4.00E-01	2.0E+01	5.3E+02	3.0E+01	8.4E+02
I	3.46E-01	2.0E+01	4.6E+02	3.0E+01	7.3E+02
J	9.39E-02	2.0E+01	1.5E+02	3.0E+01	2.2E+02
K	2.01E-02	2.0E+01	5.9E+01	3.0E+01	7.4E+01
L	1.68E-02	2.0E+01	5.5E+01	3.0E+01	6.8E+01
M	L.T. LLO	2.0E+01	2.0E+01	3.0E+01	3.0E+01

TABLE 10 •A

GAMMA MICRO-R/HR READINGS  
DUE TO GROUND DEPOSITION

POST-PLUME DECAY TIME =

1.0 HOURS

ZONE	TOTAL GROUND ACTIVITY UCI/M2	Q1 METER	Q1 CM
		MICRO-R/HOUR	MICRO-R/HOUR
A	1.69E+01	1.2E+02	2.1E+02
B	9.17E+00	6.7E+01	1.1E+02
C	4.58E+00	3.3E+01	5.7E+01
D	2.03E+00	1.5E+01	2.5E+01
E	1.29E+00	1.0E+01	1.0E+01
F	8.98E-01	1.0E+01	1.0E+01
G	5.88E-01	1.0E+01	1.0E+01
H	4.00E-01	1.0E+01	1.0E+01
I	3.46E-01	1.0E+01	1.0E+01
J	9.39E-02	1.0E+01	1.0E+01
K	2.01E-02	1.0E+01	1.0E+01
L	1.68E-02	1.0E+01	1.0E+01
M	L.T. LLD	1.0E+01	1.0E+01

