

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

PLAN FOR 1988 ANNUAL EMERGENCY EXERCISE

AUGUST 2, 1988

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CAROLINA POWER AND LIGHT COMPANY
PLAN FOR RNPD ANNUAL EMERGENCY EXERCISE - AUGUST 2, 1988

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CAROLINA POWER AND LIGHT COMPANY
PLAN FOR RNPD ANNUAL EMERGENCY EXERCISE - AUGUST 2, 1988

MISSION AND PURPOSE OF EXERCISE

To activate and evaluate portions of Carolina Power & Light (CP&L) emergency response capabilities and other elements of the CP&L Robinson Nuclear Project Department (RNPd) Radiological Emergency Plan, associated implementing procedures and the CP&L Corporate Emergency Plans in accordance with Nuclear Regulatory Compliance (NRC) Regulation 10CFR50.47(b).

SCOPE AND OBJECTIVES

I. SCOPE

A simulated accident at the RNPd Plant, which will escalate to a Site Emergency, will involve emergency response actions to include: emergency classification; notification of offsite organizations and Plant personnel; actions to correct the emergency conditions; and initiation of accident assessment and protective actions as necessary to cope with the accident. The exercise will simulate an emergency that does not result in an offsite radiological release.

II. OBJECTIVES

Objectives for the H. B. Robinson Annual Exercise were submitted to the Nuclear Regulatory Commission on May 18, 1988, and are contained in Section 2.0.

SITUATION AND ASSUMPTIONS

I. Exercise Dates

- A. Submit exercise scope and objectives to NRC:
Exercise - 77 days (May 18, 1988)
- B. Submit exercise scenario to NRC:
Exercise - 48 days (June 15, 1988)
- C. Final Evaluator Meeting: August 1, 1988 2:00 p.m. (1400)
Room #122 TSC/EOF Training Bldg.
- D. Exercise: August 2, 1988 7:30 a.m. (0730) to
12:30 p.m. (1230)
- E. Evaluator Group Meeting: August 2, 1988 1:00 p.m. (1300) to
3:00 p.m. (1500)

F. Lead Evaluator Meeting:
August 2, 1988, 3:00 p.m. (1500) to 6:00 p.m.
(1800)

G. Post Exercise Critique Report to Players:
August 3, 1988 8:00 a.m. (0800)
Room #122, TSC/EOF Training Building

II. Exercise Locations/Facilities

A. H. B. Robinson Steam Electric Plant, Hartsville, South Carolina

1. Control Room (see Figure 1). The function of the Control Room is to provide plant control and initial direction of all plant related emergency operations.
2. Operations Support Center (OSC) (see Figure 1). The OSC will be located in the Maintenance Shop. The function of the OSC is to provide an area for assembly and briefing of support personnel and "off shift" personnel called to the site.
3. Technical Support Center (TSC) (see Figure 1). The location of the TSC is in the TSC/EOF/Training Building. The function of the TSC is to provide an assembly location for personnel who provide engineering and management support of plant activities following an accident; direction and coordination of field and mobile radiological monitoring teams prior to Emergency Operations Facility (EOF) activation; onsite dose projections; offsite dose projections prior to the EOF activation; display of status of plant parameters; and provide an emergency reference collection of selected engineering and plant documents. The TSC is activated and emergency functions are performed in accordance with the provisions of the Plant Radiological Emergency Response Plan and Implementing Procedures.

The TSC will perform the EOF functions until the EOF is operational. In addition to the normal plant communications system, redundant emergency communications facilities in the TSC provide telephone contact with required agencies and other response centers, by use of the Corporate Emergency Communications System.

4. Plant Media Center (PMC) The Plant Media Center is located at the Information/Visitor Center at the Robinson site. The Center is normally staffed by a CP&L Site Public Information Coordinator and other Corporate Public Information personnel. Work stations and a briefing room are available at the Center for CP&L personnel to assist the media representatives by providing immediate access to accurate emergency related information and providing equipment for document reproduction and for communications. During this exercise, the PMC will not be staffed but the Corporate Media Center in the Raleigh General Offices will perform their functions in accordance with procedures.
 5. Emergency Operations Facility (EOF) (see Figure 1). The EOF is located in the plant TSC/EOF Training Building. When activated, the EOF is managed by the Emergency Response Manager. He will have a staff to provide support in: Technical Analysis, Administrative and Logistics, Radiological Control, and Emergency Communications.
 6. Meteorology Tower Located north of the TSC on the plant site. Measures wind at 10.0 meters (33 feet) and 62.8 meters (206 feet) above the ground.
 1. Start of Exercise: Listed Initial Conditions
 2. Subsequent: Actual Meteorological Conditions
- B. Corporate Emergency Operations Center (CEOC), Raleigh. The Corporate Emergency Operations Center is located on the 11th floor in the Center Plaza Building, Raleigh, NC. This center will not participate during this exercise.
- C. Miscellaneous Facilities
1. Hartsville Airport, 365 foot elevation, 3300 foot runway is located approximately 4 miles east of the RNPD Plant.
 2. Motels
 - Landmark Motel, U.S. 15 Bypass and S.C. 151
Hartsville, South Carolina (803/332-2611)
 - Lakeshore Motel, Business Route 15 North,
North 5th Street,
Hartsville, South Carolina (803/332-7539)
 - Lakeview Motel
942 North 5th Street
Hartsville, South Carolina (803/332-8145)

CONCEPTS AND CONDUCT OF THE EXERCISE

I. Exercise Scenario

The exercise will simulate an off-normal incident at the RNPDP Plant that will escalate to a Site Emergency and require: accident recognition and classification; assessment of onsite and offsite radiological consequences; alerting, notification, and mobilization of various organizations and personnel; in-plant corrective actions; activation and use of emergency facilities and equipment; effective use of communications; preparation of reports, messages, and records; implementing protective actions for site personnel; making protective action recommendations to offsite agencies; and maintaining public relations. The scenario and time schedule of simulated plant conditions are provided in Section 3.0 of this plan. Only the NRC, and Controllers and Evaluators listed in Section 4.0 will receive the sub-sections with Exercise Scenario Information.

II. Robinson Exercise Organization Activities

The exercise organization will consist of players, the Corporate Exercise Director, the Chief Planner/Controller, Controllers, a Chief Evaluator, Evaluators, and Observers as follows:

1. The CP&L Players include all plant and other CP&L personnel assigned to perform functions the emergency positions as described in Section 5.3 of the Plant Radiological Emergency Response Plan. The success of the exercise is largely dependent upon player reaction, player knowledge of the Radiological Emergency Response Plan and Implementing Procedures, and an understanding of the Exercise Plan and Exercise Objectives. Some situations affecting player action or reaction may exist at the time the exercise play begins. However, most situations will be introduced through the vehicle of Controller Exercise Message/Drill Cards and messages generated by players. Therefore, players are responsible for initiating actions and/or messages during the exercise according to their procedures, responsibilities, and tasks outlined for their particular function in the Plant Radiological Emergency Response Plan and Procedures. Players will be identified by wearing WHITE player badges.
2. The Corporate Exercise Director will be responsible for overall exercise preparation; to oversee conduct of the exercise; to arrange preparation at the conclusion of the exercise of a consolidated evaluation and critique report; and to prepare and follow-up on an itemized list of corrective actions recommended as a result of evaluation and critique.

3. The Chief Planner/Controller will be responsible for the development of the exercise plan, scenario, and the controller input messages. During the exercise the Chief Planner/Controller will coordinate controller input as necessary to initiate player response and keep the exercise action moving according to the scenario and exercise objectives.
4. The Controllers will deliver "Exercise Message/Drill Cards" to designated exercise players at various times and places during the exercise; inject or deliver additional messages, as may be required to keep the exercise action moving according to the scenario and exercise objectives; observe the exercise at their assigned locations; maintain controller log sheet notes (see Section 6.0); and submit recorded observations to the Chief Exercise Evaluator prior to the scheduled critique. Controllers will be identified by wearing a badge marked in RED LETTERS, "Controller/Evaluator" or arm band. Only the assigned Controllers are authorized to make Exercise Message/Drill Card inputs to the exercise and ALL Contingency Messages must be given specific clearance by the Chief Planner/Controller BEFORE being issued to the players.
5. Chief Evaluator and Evaluators are CP&L or other qualified personnel who are assigned to observe and judge the effectiveness of selected organizations, personnel, functions and/or activities of the Plant Radiological Emergency Response Plan and Implementing Procedures. Selection of evaluators is based on their expertise in, or their qualifications to evaluate the activity or area assigned. For example, health physics activities will be evaluated by qualified Health Physics personnel. When feasible, persons designated as Controllers for a given function will also be assigned as evaluators of that function. Evaluators will record their observations using the Controller Log Sheet (see Section 6.0), and if possible, provide recommendations on corrective actions to the Chief Exercise Evaluator prior to the scheduled critique. They will take steps whenever possible to collect data on the time and motion aspects of the activity observed for post exercise use in designing system improvements. Evaluators will be identified by wearing a badge marked in RED LETTERS, "Controller/Evaluator" or arm band.
6. Observers from various CP&L components and from other organizations may be authorized on a limited basis to participate in the exercise solely for the purpose of observing exercise activity. Observers will be identified with a blue badge.

III. Evaluation and Critique

The exercise will be evaluated by Evaluators who will be assigned to key locations and response activities where they will record their observations using checklists provided in Section 5.0 as guidelines. Following the exercise, Evaluators will present their findings at the critiques as scheduled in Section 1.0, Paragraph I of this plan.

A. Evaluation of the exercise will include activities:

The following facilities will be evaluated:

1. Control Room (C.R.)
2. Operational Support Center (OSC)
3. Technical Support Center (TSC)
4. Emergency Operations Facility (EOF)
5. Corporate Media Center (CMC) - Located in Raleigh, NC

The following activities will be evaluated:

1. Accident recognition, classification, and assessment
2. Assessment of onsite and offsite radiological consequences
3. Alerting, notification, and mobilization activities
4. In plant corrective actions
5. Activation and use of emergency facilities and equipment
6. Use of communications equipment and procedures
7. Preparation of reports, messages, and records
8. Protective actions for site personnel
9. Protective action considerations for offsite agencies
10. Public information and public relations
11. Onsite radiological Monitoring
12. Fire brigade response and actions
13. Security control

B. Exercise performance will be evaluated on the basis of standards or requirements contained in the Plant Radiological Emergency Response Plan and Implementing Procedures.

C. Any deficiency in the Plant Radiological Emergency Response Plan and implementing procedures, training, etc., that is identified through the critique process shall be documented by the Chief Evaluator and corrected by the organizations and individuals who have responsibility for the areas identified. Management controls shall be established to ensure that corrective actions are taken as necessary.

IV. Exercise Exempt Personnel

Some plant personnel must be exempt from exercise participation in order to maintain vital plant functions such as security, normal operations, chemistry, etc.

V. General Guidance for the Conduct of the Exercise

A. Simulating Emergency Actions

Since exercises are intended to demonstrate actual capabilities as realistically as possible, participants should act as they would during a real emergency. Wherever possible, actions should be carried out. Only when it is not feasible to perform an action should it be simulated. Any orders given by controllers, which for any reason cannot or should not actually be performed, should begin with the word "Simulate." For example, the order to put out a fire that is being hypothesized would state: "Simulate discharging the fire extinguisher." Where such actions are being taken, it is suggested that participants inform any observers in the area of what action really would be taken had the emergency been real.

B. Avoiding Violation of Law

Intentional violation of laws is not justifiable during any exercise. To implement this guideline, the following actions must be taken:

1. All evaluators and potential exercise participants must be specifically informed of the need to avoid intentional violation of all federal, state and local laws, regulations, ordinances, statutes, and other legal restrictions.
2. Exercise participants will not direct illegal actions being taken by other exercise participants or members of the general public.
3. Exercise participants will not intentionally take illegal actions when being called out to participate in an exercise. Specifically, local traffic laws such as speed laws will be observed.

C. Actions to Minimize Public Inconvenience

It is not the intent, nor is it desirable or feasible, to effectively train or test the public response during the conduct of radiological emergency exercises. Public inconvenience is to be minimized. The actions of federal, state, and county agencies and nuclear power plant operators receive continuous public notice and scrutiny; therefore, the conduct of an exercise could arouse public concern that an actual emergency is occurring. It is important that conversations that can be monitored by the public (radio, loudspeakers, etc.) be prefaced and conclude with the words. "THIS IS AN EXERCISE MESSAGE; THIS IS AN EXERCISE MESSAGE."

D. Maintaining Emergency Readiness

During the performance of an exercise the ability to recognize a real emergency, terminate the exercise, and respond to the new situation must be maintained. Therefore, the exercise scenario and actions of participants will not include any actions which seriously degrade the condition of systems, equipment or supplies, or affect the detection, assessment, or response capability to radiological or other emergencies.

Actions taken by the participants will also avoid actually reducing plant or public safety. The potential for creating real radiological or other emergencies will be specifically avoided.

If a real emergency occurs during the exercise, requiring the actions of Company personnel, then the exercise will be terminated by the Lead Exercise Controller or the Emergency Exercise Director in consultation with appropriate plant management. All messages about the real events will be clearly identified as such. For example, precede a real message with: "THIS IS NOT, REPEAT NOT AN EXERCISE MESSAGE."

COMMAND, CONTROL, AND COMMUNICATIONS

I. Site Emergency Coordinator (SEC)

The SEC has immediate and unilateral authority to act on behalf of the Company to manage and direct all onsite emergency operations involving the facility. During the exercise, he will have responsibility also for the simulated emergency exercise operations.

II. Communications

Communication equipment and procedures are described in Plant Emergency Procedure and others. The plant public address (P.A) system will be the primary means of communication.

III. Records

Robinson Plant Emergency Procedure, requires that plant personnel responsible for maintaining records during an emergency shall provide a copy of those records to the RNPD Specialist - Emergency Preparedness following an emergency or emergency exercise.

IV. Exercise Message/Drill Card

The Exercise Message/Drill Cards" are prepared by the exercise drill planners/controllers prior to the exercise to satisfy the requirements of the exercise/drill scenario. The purpose of the message is to initiate a player response and to keep the exercise moving according to the scenario and exercise objectives. The messages that are delivered to players during the play of the exercise will allow "free play".

V. Time

- A. All CP&L in-plant exercise participants will report time of incidents, messages, etc., in accordance with time based on the Control Room clocks.
- B. Local 24-hour clock time will be used to reference time in all reports and communications. Eastern Daylight Time (EDT) will be specified as appropriate.

VI. Message Preamble and Close

The words "THIS IS AN EXERCISE MESSAGE" should be used at the beginning and end of each message where public announcements are made.

EXERCISE BASICS

The following is a definition of terms found in the attachments and tables used throughout the plan and scenario:

I. Participants

1. Extent of Participation:

Not Involved - These groups will not play. They may or may not be simulated by controllers as necessary.

Limited - Play is limited to less than full participation. Evaluations by controllers will not penalize players on items caused by the limited participation.

Full Play - A full staff is expected to play in the facilities involved. In areas such as the CEOC and EOF, activation of optional groups is as determined by the managers in response to the scenario.

Controllers - (where checked) Controllers will be used to simulate organizations not participating.

Evaluators - Evaluators will evaluate the exercise.

Observers - Outside Organizations have requested to send observers to the areas checked.

Simulated - Where controllers are not used to simulate an organization that is not participating, the entire interface with the non-participating organization is simulated.

2. Notification:

Actual - Actual notification methods and procedures are used to notify the participating organization.

Simulated - The organization is not actually notified by procedure. The notification may be made to an artificial number with a controller staged to receive the information, or it may be simulated.

Start/Finish - Some organizations want notifications only at the start and finish of a drill and not continual updates.

3. Activation:

Actual - Actual activation may involve notifying the emergency organization members at their work place and home, and set up of the facility is performed by the participants.

Prestaged - The affected personnel may be in place or in a nearby place on standby when the initial notification to begin activation is received.

II. Facilities

1. Manning:

Not Activated - No one reports to the facility.

Single Shift - Each position is expected to be manned by a primary or alternate designee. No shift turnover is expected or required, but individual turnovers are acceptable if unavoidable schedule conflicts occur.

Multiple Shift - A shift turnover is required to meet exercise objectives.

Augmentation - An augmentation drill progressing from a minimum daily shift complement to a fully activated emergency facility is performed.

2. Setup:

Simulated - Setup of the facility is simulated.

Actual - Participants are expected to set up their facilities from everyday use to emergency use.

Prestaged - Setup of the facility is already prestaged in the emergency mode.

III. CP&L and Non-CP&L Activities

1. Extent:

Not Tested - This activity is not within the drill scope and objectives.

Simulated - This activity is not within the drill scope and objectives, but it must be simulated by the players and/or controllers to assure a complete and logical drill.

Partial - This activity is expected to be performed to the extent that plant completion can permit. Evaluators will not penalize players for non-performance of activities where they must be simulated due to circumstances beyond their control; for example, lab analyses may involve players in the lab using props instead of actual equipment.

Full - This activity is expected to be performed in full without simulation. For example, full use of SCBAs and protective clothing means donning the clothing and equipment and using the breathing air. Evaluators will look for any problems when evaluating a fully played activity.

2. Frequency:

One Time - This activity can be demonstrated one time to the evaluators in order to fulfill drill objectives.

Every Time - This activity must be performed every time as required by the players in response to the scenario. The evaluators, when available, will observe each time the activity is performed.

Specific Time - Where an activity is prestaged or constrained by the scenario, such as for offsite fire participation, a specific time will be built into the scenario for the activity.

3. Time:

Real Time - The activity is performed as given by the players and the scenario for as long as it takes.

Compressed Time - Some activities take so long, such as analysis of filed collected samples in the mobile laboratory, that time must be compressed to complete that activity within the drill schedule.

4. Source:

Players - The driving force behind the activity will be player response to the scenario. No messages will be handed out to players to initiate the action.

Scenario - Driving force for initiating the activity will be a message handed to the player from the controller.



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CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

1.0 INTRODUCTION

To assure that the public health and safety in the vicinity of the Robinson Nuclear Project Department (RNPd) is protected in the event of a radiological emergency, Carolina Power and Light Company (CP&L) is required to conduct an annual emergency preparedness exercise which tests CP&L's Robinson Plant and Corporate emergency response capabilities. Federal agencies will evaluate and critique the annual exercise to assure proper response in the event of an actual emergency at RNPd.

The 1988 CP&L Emergency Preparedness Annual Exercise will include the mobilization of personnel and resources, such that the capability to respond adequately to a simulated accident at RNPd can be verified. Exercise participants will not have prior knowledge of information regarding times, content, size, and weather pattern used. The exercise should demonstrate that those individuals and agencies who are assigned responsibilities in a radiological emergency are adequately trained to perform according to current plans and procedures. Furthermore, this exercise will provide training to and test emergency response personnel, and identify any potential problem areas in the overall emergency response system.

The Annual Exercise, which is scheduled to be conducted on August 2, 1988, will be observed and critiqued by the Nuclear Regulatory Commission (NRC).

This manual has been prepared to assist the exercise controllers, evaluators, and observers in the conduct and evaluation of the exercise. It contains all of the information and data necessary to properly conduct the Exercise in an efficient and coordinated manner and is organized as follows:

Section 2.0 Objectives and Guidelines - this section defines the exercise objectives and sets forth guidelines for the conduct of the exercise to meet those objectives.

Section 3.0 Scenario - this section describes the RNPd postulated sequence of events occurring at RNPd which will require the RNPd Emergency Response Organization, CP&L Corporate Support Organization, and various onsite organizations to respond. Included in this section is a descriptive narrative of the scenario.

Subsection 3.1 Messages - this subsection contains copies of the exercise messages which will be utilized to control the development of the exercise scenario.

Subsection 3.2 Plant Parameters - this subsection contains time-related information concerning the postulated Plant conditions, which corresponds to the development of the exercise scenario.

Section 3.3 Meteorological Information - this subsection contains information and data concerning the postulated meteorological conditions to the site area which will be utilized in the development of the exercise scenario.

Subsection 3.4 Radiological Information - this subsection contains time-related information concerning radiological conditions at the various onsite and offsite monitoring locations, which corresponds to the development of the exercise scenario. Also included in this subsection is information concerning primary and secondary systems radiochemistry, containment atmosphere radiochemistry, radiological release rates, in-plant radiation levels, and onsite emergency worker exposure and contamination levels.

Subsection 4.0 Controller's Instructions - this section provides general instructions to the exercise controllers in the conduct of the exercise, as well as any required special maintenance instructions.

Subsection 5.0 Evaluator's Instructions - this section provides general instructions and evaluation criteria to the exercise controllers for evaluating the responses of the exercise participants and the progress of the exercise.

Section 6.0 Supplementary Material - this section contains supplementary material for use by the exercise controllers during the course of the exercise, including log sheets.

Copies of this manual will be provided to exercise controllers, evaluators, and selected observers prior to the exercise. Following the exercise, copies of this manual will be distributed to key exercise participants.

ROBINSON NUCLEAR PROJECT DEPARTMENT
CAROLINA POWER AND LIGHT COMPANY

1988 EMERGENCY PREPAREDNESS
88-03 ANNUAL EXERCISE

OBJECTIVES/GUIDELINES

1988 EMERGENCY PREPAREDNESS EXERCISE OBJECTIVES

A. OPERATIONAL ASSESSMENT

1. Demonstrate the Control Room staff's ability to recognize operational symptoms and parameters indicative of degrading plant conditions.
2. Demonstrate the ability to properly classify emergency conditions in accordance with the emergency plan.
3. Demonstrate the ability to properly escalate the emergency response based upon event classification.
4. Demonstrate the adequacy of the RNP Emergency Plan Implementing Procedures applicable to the scenario.

B. COMMUNICATIONS

1. Demonstrate that appropriate communication systems exist to accomplish notification of offsite agencies in accordance with emergency plans and procedures.
2. Demonstrate the ability to adequately notify and activate emergency response organization personnel.
3. Demonstrate the ability to effectively communicate with plant emergency teams and company environmental monitoring teams located offsite.
4. Demonstrate proper record keeping at emergency response facilities.
5. Demonstrate that accurate messages concerning the emergency are transmitted in accordance with established procedures.
6. Demonstrate that status boards are accurately maintained and updated in accordance with emergency response plans and procedures.
7. Demonstrate that appropriate briefings are held and incoming personnel are briefed and updated.
8. Demonstrate the capability to make timely and accurate notifications to the Nuclear Regulatory Commission. Actual participation of the NRC Operations Center may be simulated.

C. RADIOLOGICAL AND ENVIRONMENTAL ASSESSMENT

1. Demonstrate the ability to evaluate plant conditions and offsite radiological dose projections, to arrive at appropriate protective action recommendations.
2. Demonstrate the activation, operation, and reporting of the field monitoring teams within and beyond the site boundary.
3. Demonstrate the capability to perform radiological monitoring activities and assessments.
4. Demonstrate the ability to support the radiological assessment process while maintaining personnel radiation exposure ALARA.

D. EMERGENCY RESPONSE FACILITIES

1. Demonstrate that sufficient and adequate emergency equipment exists to effectively perform necessary emergency actions.
2. Demonstrate that adequate security of facilities can be maintained.
3. Demonstrate that emergency response facilities (TSC, OSC, and EOF) can be activated in accordance with the emergency plan and procedures.

E. PUBLIC INFORMATION

1. Demonstrate the ability to appropriately develop and disseminate news releases in accordance with established emergency procedures.
2. Demonstrate that briefings concerning plant events are provided to the media during the emergency.

F. EMERGENCY RESPONSE ORGANIZATION

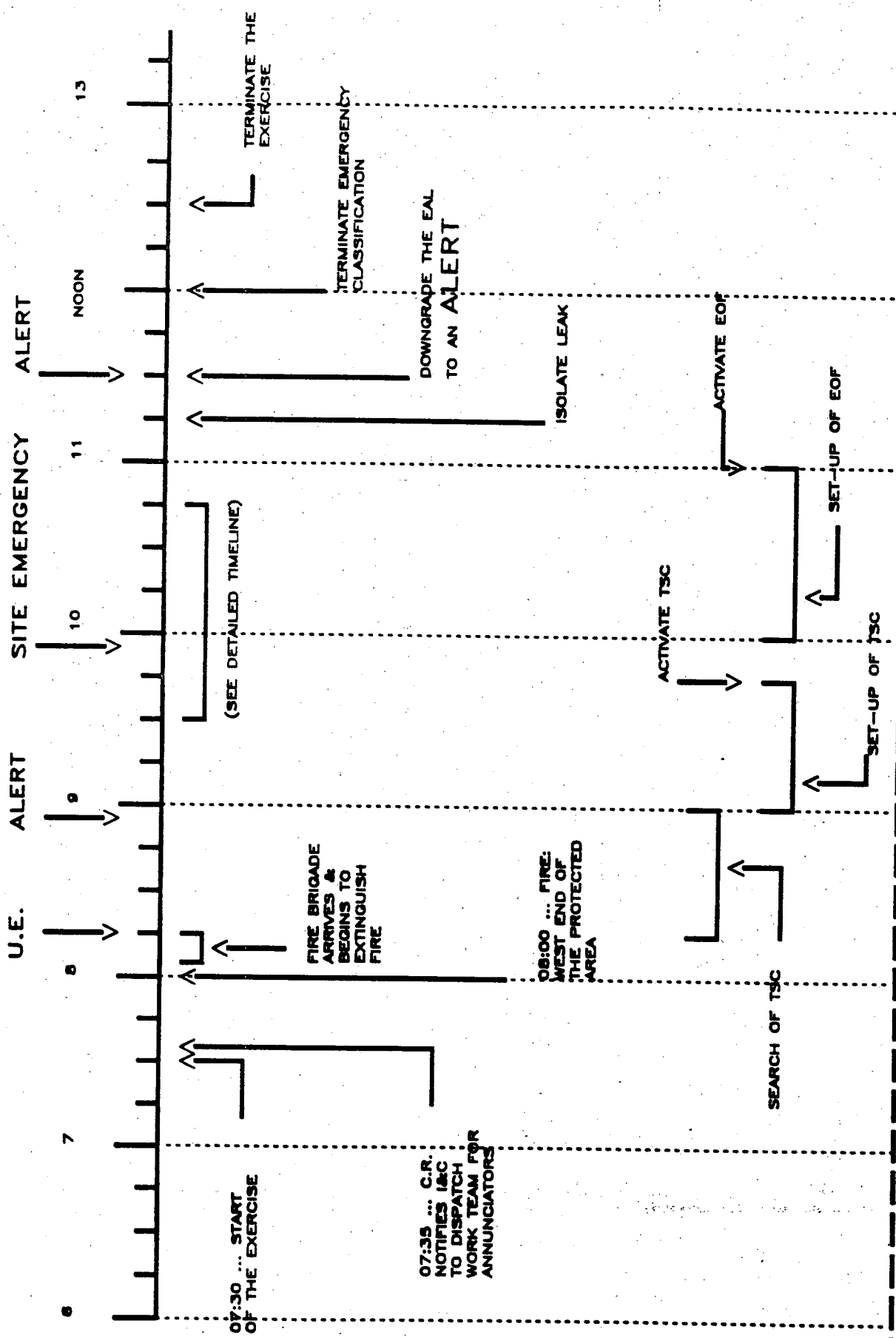
1. Demonstrate that sufficient emergency response organization personnel are available to support the emergency response on a round-the-clock coverage schedule.
2. Exhibit proper response of emergency personnel to activate emergency response facilities and carry out assigned roles and responsibilities in accordance with emergency response procedures.
3. Demonstrate the ability to transfer command and control responsibilities between the Control Room, Technical Support Center and Emergency Operations Facility.

G. PERSONNEL PROTECTION

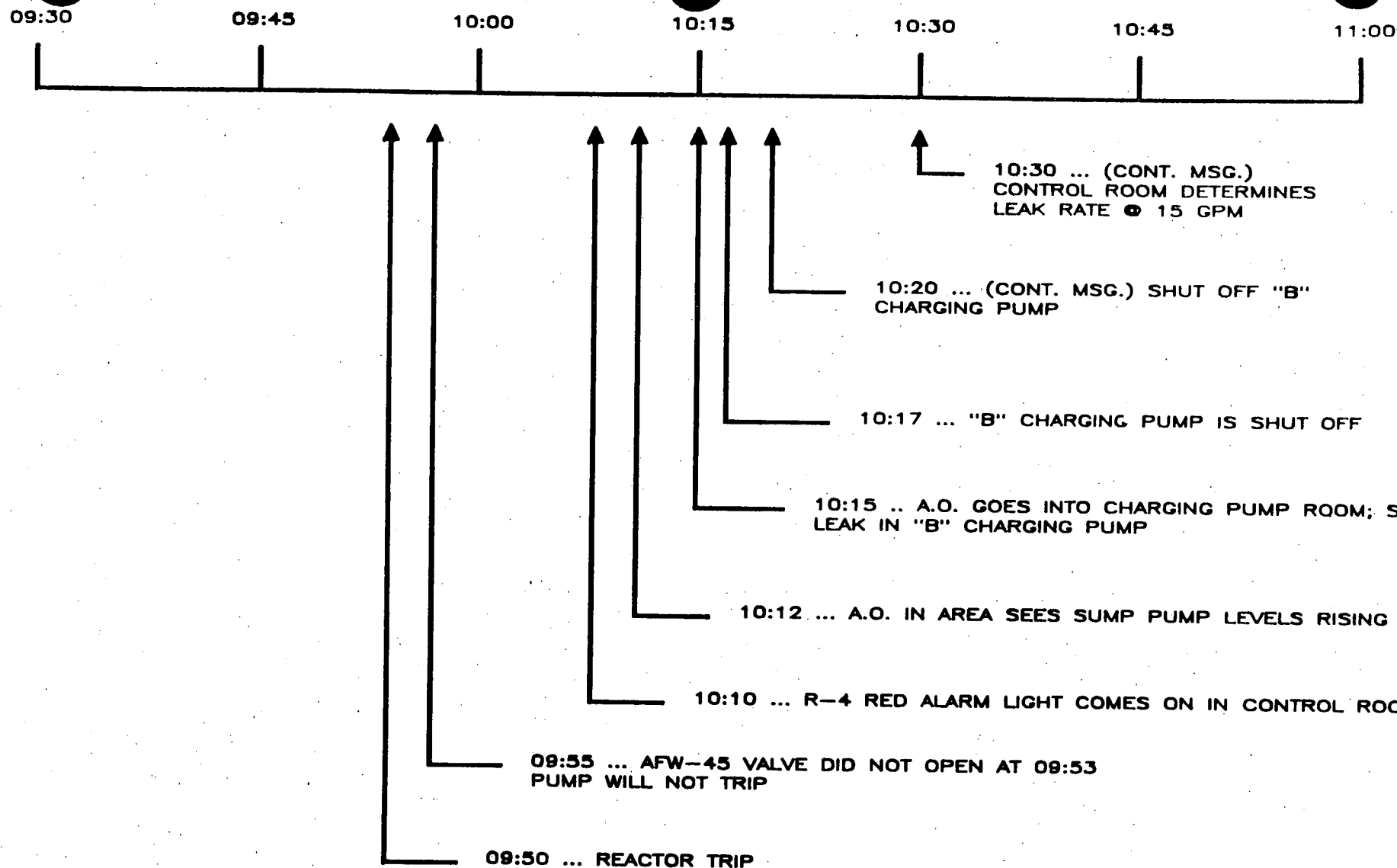
1. Demonstrate that the accountability process within the Protected Area can be accomplished in accordance with emergency response procedures.
2. Demonstrate the ability to conduct area surveys under emergency conditions.
3. Demonstrate the ability to provide adequate radiation protection services such as dosimetry and personnel monitoring.
4. Demonstrate the ability to adequately control the spread of contamination and the radiological exposure of onsite emergency workers.
5. Demonstrate proper radiation exposure record keeping for emergency personnel.

H. GENERAL

1. Demonstrate the ability to conduct a controller/evaluator meeting the day before the exercise which addresses final concerns about the conduct of the exercise.
2. Demonstrate the ability to self-critique and to identify areas needing improvement.
3. Demonstrate that previously identified NRC deficiencies, exercise weaknesses or inspector follow-up items (IFI's) from the 1987 annual Emergency Preparedness exercise have been resolved (where the scenario will permit).



1988 RNPd E.P. EXERCISE TIME LINE



1988 RNP-88 E.P. DETAILED EXERCISE TIME LINE

(Part 2)

C. Meteorological Conditions

- All meteorological data will be actual information.

D. Extent of Participant Actions

- The RNPDC TSC, OSC, EOF, and CMC Emergency response facilities will be activated. The Technical Support Center (TSC) will be incorporated into the Protection Area of the Plant.
- Plant personnel from the TSC and OSC will not be prepositioned at their emergency response facilities. Personnel responding to the EOF and the PMC from the Harris Energy and Environmental Center (HE&EC) near New Hill, NC or the Corporate Office in Raleigh, NC will be simulated as if they are in transit, but will not arrive before the end of the exercise.
- RNPDC control room personnel who will "play" during the exercise will be positioned in the control room before the beginning of the exercise and will play from an area behind the main control room. Play for the exercise will not be in the main control room so as to potentially affect the routine operation of the operating plant.
- Exercise will commence with simulated Plant condition requiring declaration on an "UNUSUAL EVENT," escalating to a "Site Emergency."
- Accident conditions will not result in a simulated radiological release, however considerations of protective actions recommendations for the plume Emergency Planning Zone (EPZ) should be observed during the exercise.
- Radiological monitoring teams should be dispatched onsite and offsite to perform monitoring and sampling procedures. Plant offsite environmental monitorings teams will be dispatched in accordance with Plant procedures.
- RNPDC Emergency Alarms and announcements will be demonstrated.
- Initial and continuous RNPDC Accountability procedures will be implemented.
- Emergency Assembly of non-essential personnel will be conducted in accordance with Plant procedures. Evacuation of non-essential personnel of offsite locations will be simulated.
- RNPDC Emergency Call-Out procedures, beepers, and/or manual system will be utilized as appropriate.
- Activities initiated or performed by offsite governmental emergency response agencies with the state and counties will be simulated.

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.0 SCENARIO

NARRATIVE SUMMARY

This exercise scenario involves two separate unrelated events, a fire in the protected area lasting more than ten minutes and loss of all annunciators for more than five minutes coincident with a plant transient.

The exercise commences with annunciator system DC ground alarm together with an annunciator inverter failure alarm requiring maintenance to be performed. An unrelated fire in the Janitorial Supplies Storage Building lasting approximately 40 minutes initiates the emergency response. The annunciator inverter problem escalates when an arcing problem results in loss of all plant annunciators. Later in the scenario a reactor trip/turbine trip occurs due to "C" Steam Generator Low Water Level coincident with steam flow greater than feed flow caused by "C" feedwater regulating valve going closed.

Initial conditions establish that the plant has returned to 100% power from a valve test the night before at 65% power. The plant has been on line for the last 88 days at middle of core life. Peak power demands are expected in the late afternoon and system generation is tight. The steam driven auxiliary feedwater pump has been declared inoperable due to failing OST-202 but the pump is still aligned for service. "A" Charging Pump is inoperable due to high vibration and is under clearance for maintenance. Additionally, as a precursor to the initiating events an annunciator system DC ground alarm and annunciator inverter failure alarm are present at turnover.

The fire in the Janitorial Supplies Storage Building is caused by spontaneous combustion of chemicals in the building. The fire duration is approximately forty minutes which should result in an Unusual Event declaration and initiation of the search of the TSC by security.

Upon notification of the fire being extinguished the scenario shifts to the annunciator DC ground and inverter problems. All the RTGB annunciators come in flashing. An arc in the annunciator inverter is observed by I&C personnel troubleshooting the original problems and almost immediately all annunciators go "black." I&C personnel observed damaged wiring in both annunciator inverters. Troubleshooting and repair work continue. After 5 minutes the loss of annunciators should result in an Alert condition being declared and the ERO should be activated.

Approximately an hour after the annunciators are lost, feed flow to "C" Steam Generator is lost due to closure of "C" Feedwater Regulating Valve. All three level channels indicate rapid level decrease and feed flow on both channels is zero. This results in reactor trip due to "C" steam generator low water level coincident with feedwater flow versus steam flow mismatch. No "first-out" or any other annunciators are received due to annunciator problems. "A" and "B" Motor Driven Auxiliary Feedwater (MDAFW) Pumps receive a start signal; however, "A" MDAFW pump discharge valve fails to open. These conditions should result in declaration of a Site Emergency due to loss of annunciators for greater than five minutes, coincident with a plant transient.

Shortly after the reactor trip, RMS-4 alarm light (no RTGB annunciator) is received. This is caused by an approximate 15 gpm leak in the relief valve inlet flange off "B" Charging Pump. This should result in stopping of "B" Charging Pump and require entry into the room to isolate the leak.

Repair teams should be assembled to: 1) continue troubleshooting and repairs on the annunciator inverters, and 2) repair the leak on "B" Charging Pump. As options, repairs to the steam driven AFW pumps and "A" MDAFW pump discharge may be performed. Once the plant is stabilized, from the reactor trip transient and the "B" Charging Pump leak is isolated, downgrade of the emergency to an Alert condition is acceptable. Completion of repairs to the annunciators allows termination of emergency classifications. Completion of charging pump relief valve repairs will terminate the exercise.

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.1 MESSAGES

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 0 Date: August 2, 1988

Time: 07:30

MESSAGE FOR: ALL PLAYERS IN 1988 E.P. EXERCISE

FROM: E.P. EXERCISE CONTROLLERS

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE".

INITIAL CONDITIONS FOR EXERCISE:

- * Reactor is at 100% power, on-line for 88 days, near middle of core life. Returned to 100% power from 65% valve test last night.
- * The steam driven auxiliary feedwater pump is inoperable due to failing OST-202. The steam driven auxiliary feedwater pump is not isolated.
- * Annunciator system D.C. ground alarm has been received.
- * Annunciator inverter failure alarm has been received.
WR/JO 88-EXER1 was initiated.
- * Two charging pumps "B" & "C" running with orifice isolation valves CVC-200A and CVC-200B open.
- * Heat wave over the Carolinas continues for the 21st day. All generation is required to meet system demand. Peak demand expected between 17:00 and 18:00 this afternoon.
- * "A" Charging Pump is inoperable and cleared due to excessive vibration caused by worn coupling. Part to be delivered August 3.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 0
(continued)

Date: August 2, 1988

Time: 07:30

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* Review information with players and answer any questions which they may have on the content of the information. Be sure that the players are very clear on the status of each piece of equipment which is inoperable. Provide a briefing of the background for the information presented and "set the stage" for the exercise.

SCN:88-2708
RNPD-88-03-R0

CP&I. WORK REQUEST

UNIT 2

SYSTEM 6010-ANNUNCIATOR SYSTEMS

EQUIPMENT 886-PANELS

TAG#

WR/JO 88-~~EXER1~~
ROBINSON NUCLEA

WORKING COPY

RUN DATE 06/03/88

REPORT PMMR3

TIME 10:08

PAGE 1

ID

CHARGE# H12 -53034-KDAAAA

E INITIATED: 8-02-88 01:00

PRIORITY 3 TYPE 20 WORK CODE C

REQUESTOR: OPERATIONS

STATUS: INITIATED AND APPROVED

NATURE OF TROUBLE, HOW FOUND, LOCATION:

EDB-LOC: COMPUTER ROOM

COMPONENT-LUNDELL ANNUNCIATOR CABINETS

RECIEVED ANNUNCIATOR DC GROUND ALARM AND ALSO THE ANNUNCIATOR INVERTER FAILURE
ALARM. PLEASE INVESTIGATE AND REPAIR.

ISI	FIRE	Q-C	EQ	SEC

SUPV: JOHN HENRY, SUPV.

8-02-88

PLANNER: WATTS, WILLIAM

PARTS REQ'D NO | EST MHRS

.01 |

CREW-ID

PARTS AVAIL NO | EST CLOCK

.01 |

CREW SIZE

CLR REQ'D NO | RWP

NO |

SKILL

EL |

PAIR INSTRUCTIONS:

MF APP'R BY: _____

OPS APP'R BY: _____

LEAD PERSON: _____

CAUSE OF TROUBLE, CONDITION FOUND:

CP&L WORK REQUEST

WR/JO 88-EXER1
ROBINSON NUCLEA

WORKING COPY

REPORT PMMR3

UNIT 2

RUN DATE 06/03/88

TIME 10:00

SYSTEM 6010-ANNUNCIATOR SYSTEMS

PAGE 2

EQUIPMENT 886-PANELS

ID

TAG#

CHARGE# H12 -53034-KDAAAA

DATE INITIATED: 06/03/88 01:00

CORRECTIVE ACTION:

KEYWORDS

CLEARANCES ASSIGNED

CANCELLED DATE

MF APPROVAL BY:

1. This revision is the latest revision available and has been verified against the Revision Status List.

LA STEEL (Print) [Signature] 8-2-88
Name Signature Date

2. System: CVC Work Request No: _____
3. Component: Charging Pump "A"
4. Scope of Work: Repair of pump, motor, or breaker.
5. Testing required on redundant equipment prior to rendering component inoperable: N/A
6. Precaution: Redundant Equipment Operability Req. (Tech Specs 3.2):
1) Two Charging Pumps required for Startup. One Charging Pump required for Power Operations (24 Hr. Limit). 2) Charging Pump "A" must be operable when RCS >200°F (14 day limit, DS proposed Tech Specs). 3) Do not operate Suction Stabilizer Heater with Charging Pump suction valve closed.
7. Valve/Breaker/Switch lineup has been completed. [Signature] 18-2-88
Signature Date
8. LCTR Issued (If applicable) LCTR No: 88-EXEC1
9. Testing required on redundant equipment while component is inoperable. N/A
10. I&C Maintenance lineup completed. N/A /
Signature Date
11. LCTR removed and Valve/Breaker/Switch lineup restored to normal. /
Signature Date
12. Post Maintenance Testing.
- a. Recirc. Charging Pump "A" per OP-301 for pump repair. /
Signature Date
- b. Test operate Charging Pump "A" per applicable sections of OST-101 for pump or motor repair. /
Signature Date
- c. Test breaker or component by starting Charging Pump "A" motor for electrical repair. /
Signature Date
- d. Start Charging Pump "A" and check for proper oil pressure for oil change. /
Signature Date
- e. If the pump or the pinion and/or crankshaft bearing(s) is replaced, perform the applicable section of EST-011. This testing must be performed within 96 hours after return of the pump to normal service. /
Signature Date

VALVE, BREAKER, SWITCH LINEUP

COMPONENT DESCRIPTION	POSITION FOR MAINTENANCE	RESTORED POSITION
<u>FOR WORK ON CHARGING PUMP "A" PUMP AND/OR MOTOR</u>		
	INITIALS	VERIFIED BY
Charging Pump "A" Breaker (480V Bus DS) RTGB Indication	OPEN, RACKED OUT <u>NS</u> LOST <u>NS</u>	RACKED IN RESTORED _____
Charging Pump "A" Suction Stabilizer Heater Breaker (PP-37)	OFF <u>NS</u>	ON _____
CVC-270 - Charging Pump "A" Suction	CLOSED <u>NS</u> <u>BN</u>	OPEN _____
CVC-275F* - Charging Pump "A" Suction Line Vent	LOCKED CLOSED <u>NS</u>	LOCKED CLOSED _____
CVC-277C - Charging Pump "A" Recirc. Root Isol.	LOCKED CLOSED <u>NS</u>	LOCKED CLOSED _____
CVC-275C - Charging Pump "A" Recirc. Valve	CLOSED <u>NS</u> <u>BN</u>	LOCKED OPEN _____
CVC-291 - Charging Pump "A" to Seal Injection	CLOSED <u>NS</u> <u>BN</u>	OPEN _____

*Pressure relieve and drain Charging Pump "A" by OPENING valve CVC-275F and then RECLOSE it.

VALVE, BREAKER, SWITCH LINEUP

COMPONENT DESCRIPTION	POSITION FOR MAINTENANCE	RESTORED POSITION
<p align="center"><u>FOR WORK ON CHARGING PUMP "A" PUMP AND/OR MOTOR</u> (Continued)</p>		
	<p align="center">INITIALS VERIFIED BY</p>	<p align="center">INITIALS VERIFIED BY</p>
CVC-290 - Charging Pump "A" to Charging Line	<p>CLOSED <u> 18 </u> <u> BW </u></p>	<p>OPEN _____</p>
<p align="center"><u>FOR WORK ON OR CHANGING OIL IN CHARGING PUMP "A" MOTOR AND/OR BREAKER</u></p>		
	<p align="center">INITIALS VERIFIED BY</p>	<p align="center">INITIALS VERIFIED BY</p>
Charging Pump "A" Breaker (480V Bus DS) RTGB Indication	<p>OPEN, FUSES PULLED & RACKED OUT _____ LOST _____</p>	<p>RACKED IN & FUSES INSTALLED _____ RESTORED _____</p>

H. B. ROBINSON UNIT 2
LOCAL CLEARANCE & TEST REQUESTLCTR NO. EXECI

This revision is the latest revision available and has been verified against the Revision Status List.

RA STEELE (Print) *RA Steele* 8-2-88
Name Signature Date

EQUIPMENT: A CHARGING PUMPSCOPE OF WORK: INVESTIGATE AND REPAIR EXCESSIVE VIBRATION PROBLEM

CLEARANCE

IS THIS AN LCO ITEM: (YES) NOIS AN OWP REQUIRED PER OMM-004: YES NO OWP # CVC-1SF PERMISSION RECEIVED: CO/SCO/RWO/ SE *RA Steele* TIME: 0700 DATE: 8-2-88

COMPONENT LINEUP FOR MAINTENANCE:

PREPARED BY: *RA Steele* TIME: 0700 DATE: 8-2-88CHECKED BY: *Ray Haer* TIME: 0710 DATE: 8-2-88

COMPONENTS IN POSITION FOR MAINTENANCE AND RED TAGS OR CAPS PROPERLY ATTACHED.

CO/SCO/RWO: *RA Steele* TIME: 0720 DATE: 8-2-88

THE CLEARANCE TAGS/CAPS HAVE BEEN REMOVED AND COMPONENT LINEUP RESTORED.

CO/SCO/RWO: TIME: DATE:

TEST REQUEST

TIME: DATE: ISSUED WORK REQUEST#

ENSURE PROPER TESTING OR ANY MISSED ISI/T.S. SURVEILLANCE IS DONE PRIOR TO DECLARING

OPERABLE: SPECIFY:

CO/SCO/RWO:

TEST RESULTS: ACCEPTED REJECTED REF. TO WR: LCTR:

CO/SCO/RWO: TIME: DATE:

ATTACHMENTS: OST: SCHEDULED: YES NO OWP: OTHER:

	INITIALS	NAME (PRINT)	DATE
PERFORMED BY:	<u><i>mf</i></u>	<u>MIKE JONES</u>	<u>8-2-88</u>

SHIFT FOREMAN REVIEW: TIME: DATE:

H. B. ROBINSON UNIT 2
LOCAL CLEARANCE & TEST REQUEST
COMPONENT IDENTIFICATION SHEET

LCIR - No. 88-EX-11

COMPONENT IDENTIFICATION OR NUMBER	POSITION FOR MAINTENANCE	POSITIONED BY	RESTORED POSITION	RESTORED BY
1 A CHARGING PUMP BREAKER	OPEN / RACKED OUT	MP		
2 A CHARGING PUMP SWITCH (RTGS)	CAPPED	MP		
3 A CHARGING PUMP STABILIZER AIR BAR	OFF	MP		
4 CVC-270 SUCTION	CLOSED	MP		
5 CVC-275F SUCTION VENT	LOCKED CLOSED	MP		
6 CVC-277C RECIRC ISOL	LOCKED CLOSED	MP		
7 CVC-275C RECIRC VLV	CLOSED	MP		
8 CVC-291 TV SEAL INJECTION	CLOSED	MP		

[illegible]

_____ Initial if Clearance Holder Continuation Sheet is used. _____ Initial if Component Identification Continuation Sheet is used.

(11) Contact Performance Engineering to determine if Local Leak Rate Testing is required (CV Isolation Valves Only). _____

1988 ANNUAL EMERGENCY
EXERCISE USE ONLY
EQUIPMENT INOPERABLE RECORD

File No. 07-15505/2

ATTACHMENT 6.1

This revision is the latest revision available and has been verified against the
Revision Status List.

Page 1 of 1

R. A. STEELE (Print) [Signature] 8-2-88
Name Signature Date

A. Equipment Inoperable: SDAFW Pump Time 0700 Date 8-2-88

B. REDUNDANT EQUIPMENT TESTING REQUIRED

Equipment Inoperable	Redundant Equipment (Circle as Applicable)	Redundant Equip. Operable	Tech. Spec.
**1. SI Pump	* SI Pump A / B / C		3.3.1.2b
2. RHR Pump	* RHR Pump A / B		3.3.1.2c
3. CV Spray Pump	* CV Spray Pump A / B and		3.3.2.2b
	* HVH Units 1, 2, 3 and 4		3.3.2.2b
4. HVH Unit	HVH Unit 1 / 2 / 3 / 4		3.3.2.2a
	* CV Spray Pumps A and B		3.3.2.2a
5. Diesel Gen.	Diesel Gen. A / B and		3.7.2d
o If >24 hrs., test	Associated Equip.		3.7.2d
other DG Daily.			
6. SI Flow Path	* Redundant Flow Path Verified		3.3.1.2e
7. RHR Flow Path	* Redundant Flow Path Verified		3.3.1.2e
8. CV Spray Flow Path	* Redundant Flow Path Verified		3.3.2.2c
9. IVSW Actuation Valve	* PCV-1922A / PCV-1922B		3.3.6.2
10. Charging Pump	Chg. Pump A / B / C		3.2.3a
11. CCW Pump	CCW Pump A / B / C		3.3.3.2a
12. SW Pump	SW Pump A / B / C / D		3.3.4.2b
13. SWB Pump	SWB Pump A / B		3.3.4.2c
14. AFW Pump <u>SDAFW</u>	AFW Pump <u>A</u> <u>B</u> SDAFW Pump	<u>AB</u>	3.4.4
15. BA Xfer Pump	BATP A / B		3.2.3b
16. CV Purge Valve	Restored _____ Isolated _____		3.6.3
***17. Other			

* Redundant equipment required to be demonstrated operable prior to initiating repairs on Inoperable Equipment.

** Only two SI pumps ("A" and "C") are required to be operable when reactor power is 60% or less.

*** Notify E&C prior to removing both RWST level indicators. Time NH Date NH

C. OPERATING LIMITATIONS

1. Equipment Declared Inoperable Time: 0700 Date: 8-2-88 Initials NH

2. Time Equipment Allowed Inoperable Before:

Hot Shutdown 7 days Cold Shutdown _____ Special Report 72 hrs

3. Time Since Equipment Inoperable: 0

4. Time Remaining for Action Item #2:

3 Days 0 Hours HOT S/D / COLD S/D / SPECIAL REPORT

5. Equipment Operable : No Longer Required Due to Plant Conditions :
Time _____ Date _____

6. Description of Work Performed (or to be performed) on Inoperable Equipment:

REPLACE Pump due to low flow

Completed By: [Signature] 8-2-88
Unit 2 Shift Foreman Date

+Ensure that the Load Dispatcher has been notified when an LCO condition is entered which has the potential, if not corrected, for a Plant shutdown and/or load reduction.

+When a Technical Specification Section 3.0 LCO condition exists and cannot be corrected, and a Plant shutdown is anticipated, contact Planning and Scheduling to begin development of a Forced Outage Schedule.

1988 ANNUAL EMERGENCY
EXERCISE USE ONLY
EQUIPMENT INOPERABLE RECORD

File No. 07-15505/2

ATTACHMENT 6.1

This revision is the latest revision available and has been verified against the
Revision Status List.

Page 1 of 1

Name RA STEEL (Print) M. Stahl Signature 8-2-88 Date
A. Equipment Inoperable: A CHARGING PUMP Time 0700 Date 8-2-88
B. REDUNDANT EQUIPMENT TESTING REQUIRED

Equipment Inoperable	Redundant Equipment (Circle as Applicable)	Redundant Equip. Operable	Tech. Spec.
*1. SI Pump	* SI Pump A / B / C		3.3.1.2b
2. RHR Pump	* RHR Pump A / B		3.3.1.2c
3. CV Spray Pump	* CV Spray Pump A / B and		3.3.2.2b
4. HVH Unit	* HVH Units 1, 2, 3 and 4		3.3.2.2b
	HVH Unit 1 / 2 / 3 / 4		3.3.2.2a
5. Diesel Gen.	* CV Spray Pumps A and B		3.3.2.2a
o If >24 hrs., test	Diesel Gen. A / B and		3.7.2d
other DG Daily.	Associated Equip.		3.7.2d
6. SI Flow Path	* Redundant Flow Path Verified		3.3.1.2e
7. RHR Flow Path	* Redundant Flow Path Verified		3.3.1.2e
8. CV Spray Flow Path	* Redundant Flow Path Verified		3.3.2.2c
9. IVSW Actuation Valve			
10. Charging Pump <u>A</u>	* PCV-1922A / PCV-1922B		3.3.6.2
11. CCW Pump	Chg. Pump A / <u>B</u> / <u>C</u>		3.2.3a
12. SW Pump	CCW Pump A / B / C		3.3.3.2a
13. SWB Pump	SW Pump A / B / C / D		3.3.4.2b
14. AFW Pump	SWB Pump A / B		3.3.4.2c
15. BA Xfer Pump	AFW Pump A / B / SDAFW Pump		3.4.4
16. CV Purge Valve	BATP A / B		3.2.3b
***17. Other	Restored _____ Isolated _____		3.6.3

* Redundant equipment required to be demonstrated operable prior to initiating repairs on Inoperable Equipment.

** Only two SI pumps ("A" and "C") are required to be operable when reactor power is 60% or less.

*** Notify E&C prior to removing both RWST level indicators. Time NA Date NA

C. OPERATING LIMITATIONS

1. Equipment Declared Inoperable Time: 0700 Date: 8-2-88 Initials NA
2. Time Equipment Allowed Inoperable Before:
Hot Shutdown _____ Cold Shutdown _____ Special Report 14 days
3. Time Since Equipment Inoperable: 0
4. Time Remaining for Action Item #2:
14 Days _____ Hours _____ HOT S/D / COLD S/D / (SPECIAL REPORT)
5. Equipment Operable : No Longer Required Due to Plant Conditions :
Time _____ Date _____

6. Description of Work Performed (or to be performed) on Inoperable Equipment:

INVESTIGATE AND REPAIR HIGH VIBRATION CONDITION

Completed By: M. Stahl 8-2-88
Unit 2 Shift Foreman Date

+Ensure that the Load Dispatcher has been notified when an LCO condition is entered which has the potential, if not corrected, for a Plant shutdown and/or load reduction.

+When a Technical Specification Section 3.0 LCO condition exists and cannot be corrected, and a Plant shutdown is anticipated, contact Planning and Scheduling to begin development of a Forced Outage Schedule.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. A

Date: August 2, 1988

Time: 07:35

MESSAGE FOR: SHIFT FOREMAN

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

NOTIFY I&C FOREMAN: ANNUNCIATOR SYSTEM D.C. GROUND AND ANNUNCIATOR
INVERTER FAILURE ALARM HAS BEEN RECEIVED.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * CALL FROM THE SHIFT FOREMAN SHOULD RESULT IN I&C FOREMAN
DISPATCHING I&C TECHNICIANS TO CONTROL ROOM.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 1 Date: August 2, 1988 Time: 07:45

MESSAGE FOR: I&C TECHNICIANS AT LUNDELL ANNUNCIATOR ROOM

FROM: ^{I+C}
~~CONTROL ROOM~~ CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

UPON OPENING ANNUNCIATOR CABINET, IT IS NOTICED THAT THE RED LIGHT ON
INVERTER #4 IS NOT LIGHTED.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * I&C TECHNICIANS SHOULD RETURN TO THE SHOP FOR SPARE INVERTER.
- * I&C TECHNICIANS SHOULD GET W.R. PLANNED.
- * OBTAIN INVERTER AND BEGIN EFFORTS TO REPLACE.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 2 Date: August 2, 1988 Time: 08:00

MESSAGE FOR: FIRST PERSON PASSING AREA or
FIRE CONTROLLER AT 08:03

FROM: FIRE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

You are passing near the Janitorial Supplies Storage Building and observe flames and black smoke coming from this building.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * Person discovering the fire should call the Control Room to report fire and fire location.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 2a Date: August 2, 1988 Time: Upon Arrival on Scene

MESSAGE FOR: FIRE BRIGADE TEAM LEADER

FROM: FIRE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

This building is fully engulfed in flames and the wind is blowing towards the Construction Shack (Southwest). You hear some small explosions and see bursts of flames at same time.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * Fire Brigade Team Leader will notify Shift Foreman of situation.
- * Fire Brigade will establish water flow and attack fire.
- * Unusual Event might be declared based on explosion.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 2b Date: August 2, 1988 Time: 08:10 or
5 minutes after water
is flowing

MESSAGE FOR: FIRE BRIGADE TEAM LEADER

FROM: FIRE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

Your fire fighting efforts are partially successful but are being hampered by subsequent small explosions, evidently caused by some solvents or cleaners in the building.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * Fire fighting efforts will continue on the fire.
- * Protection of surrounding buildings will be done.
- * Followup information given to Shift Foreman.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

FLOAT

Message No. B

Date: August 2, 1988

Time: 08:20

MESSAGE FOR: Senior Reactor Operator / Shift Foreman

FROM: Control Room Controller

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

UNUSUAL EVENT should have been declared based on fire within Protected Area lasting more than 10 minutes after manual fire fighting efforts have begun.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * Implement PEP-102 actions based on Module #2.

SCN: 88-2708
RNPD-88-03-R0

3.1-16

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. C

Date: August 2, 1988

Time: 08:25

MESSAGE FOR: SEC IN CONTROL ROOM

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

CALL SECURITY AND HAVE THEM INITIATE A SEARCH OF THE TSC,
SO THAT IT WILL BE INCORPORATED WITHIN THE PROTECTED AREA
IF THE TSC IS NEEDED FOR ACTIVATION.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * SOMEONE IN THE CONTROL ROOM SHOULD CALL THE SHIFT SECURITY SUPERVISOR AND HAVE THEM BEGIN SEARCH OF TSC.

SCN: 88-2708
RNPD-88-03-R0

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 2c

Date: August 2, 1988

FLOAT
Time: 08:30

MESSAGE FOR: FIRE BRIGADE MEMBER ON HOSE PROTECTING CONSTRUCTION SHACK

FROM: FIRE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

The water flow on your hose has decreased rapidly. Investigation shows that a section of hose near the hydrant has split and burst.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * Inform Fire Brigade Team Leader of situation.
- * Isolate line at hydrant and replace hose.
- * Reestablish water flow.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 3

Date: August 2, 1988

Time: 08:40

MESSAGE FOR: FIRE BRIGADE SCENE LEADER

FROM: FIRE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

THE FIRE FIGHTING EFFORTS HAVE BEEN SUCCESSFUL. THE FIRE
IS COMPLETELY OUT.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

FIRE BRIGADE LEADER SHOULD CALL CONTROL ROOM AND INFORM
THAT FIRE IS OUT.

SCN: 88-2708
RNPD-88-03-R0

3.1-18

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. D

Date: August 2, 1988

Time: 08:40

MESSAGE FOR: SHIFT FOREMAN

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

DO NOT DOWNGRADE FROM THE UNUSUAL EVENT CLASSIFICATION AT THIS TIME.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. E Date: August 2, 1988 Time: 08:50

MESSAGE FOR: SENIOR REACTOR OPERATOR/CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

FIRE HAS BEEN REPORTED OUT BY THE FIRE BRIGADE LEADER.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

SOUND ALL CLEAR OVER P.A. ANNOUNCE THAT THE FIRE IS OUT.

SCN: 88-2708
RNPD-88-03-R0

3.1-20

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 4

Date: August 2, 1988

Time: 08:55

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

ALL RTGB ANNUNCIATORS COME IN FLASHING

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * TEST ALARMS WITH TOGGLE SWITCH
- * MONITOR INSTRUMENTATION CLOSELY
- * RELAY INFORMATION TO APPROPRIATE PERSONNEL
- * DECLARE ALERT CONDITION BASED ON LOSS OF PLANT ALARMS FOR 5 MINUTES.

SCN: 88-2708
RNPD-88-03-R0

3.1-21

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 5 Date: August 2, 1988 Time: 08:55

MESSAGE FOR: I&C PERSONS WORKING ON ANNUNCIATOR PROBLEM

FROM: I&C CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOU JUST SAW AN ARC IN INVERTER NUMBER 4.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* TO BE HANDED OUT IF I&C PERSONNEL ARE IN THE AREA.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 6

Date: August 2, 1988

Time: 08:56

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

ALL RTGB ANNUNCIATORS HAVE JUST GONE BLACK.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * TEST ALARMS WITH TOGGLE SWITCH
- * MONITOR INSTRUMENTATION CLOSELY
- * RELAY INFORMATION TO APPROPRIATE PERSONNEL
- * DECLARE ALERT CONDITION BASED ON LOSS OF PLANT ALARMS
FOR 5 MINUTES

SCN: 88-2708
RNPD-88-03-R0

3.1-23

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 7

Date: August 2, 1988

Time: 08:56

MESSAGE FOR: I&C PERSONS WORKING ON ANNUNCIATOR PROBLEM

FROM: I&C CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOU HAVE OBSERVED THAT THE ARCING HAS STOPPED. THERE IS NO FIRE PRESENT. THE WIRING ON JUMPER TO INVERTER NO. 4 IS BURNT OFF. RED LIGHT ON INVERTER NO. 5 IS OUT AND WIRE ON TERMINAL 2 OF INVERTER NO. 5 IS BURNT OFF.

FOR CONTROLLER USE ONLY:

* TO BE HANDED OUT IF I&C ARE IN THE AREA.

ACTIONS EXPECTED:

* NOTIFY CONTROL ROOM OF AN ARC DOWN AT THE LUNDELL CABINETS.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. F Date: August 2, 1988 Time: 09:10

MESSAGE FOR: SITE EMERGENCY COORDINATOR

FROM: CONTROL ROOM CONTROLLER / TSC CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

AN ALERT SHOULD HAVE BEEN DECLARED BASED ON LOSS OF ALL
ANNUNCIATORS FOR 5 MINUTES.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* IMPLEMENT PEP-103 BASED ON MODULE #10.

SCN: 88-2708
RNPD-88-03-R0

3.1-25

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. G

Date: August 2, 1988

Time: 09:30

MESSAGE FOR: SITE EMERGENCY COORDINATOR

FROM: CONTROL ROOM CONTROLLER / TSC CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

MAKE P.A. ANNOUNCEMENT (IN ACCORDANCE WITH APPROPRIATE PROCEDURES) THAT THE TSC/OSC ARE TO BE ACTIVATED AT THIS TIME.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

SCN: 88-2708
RNPD-88-03-R0

3.1-26

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 8 Date: August 2, 1988 Time: 09:49:30

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

- * FEED FLOW ON "C" NR STEAM GENERATOR RECORDER INDICATES ZERO.
- * "C" NR STEAM GENERATOR LEVEL DECREASING RAPIDLY.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * ATTEMPT TO OPEN "C" FW REG. VALVE IN MANUAL CONTROL ON CONTROLLER.
- * ATTEMPT TO REDUCE TURBINE LOAD
- * OPERATOR MAY ATTEMPT TO OPEN "C" FW REG. VALVE BY-PASS AND/OR START ANY OF THE AFW PUMPS.
- * REACTOR TRIPS AFTER "C" FW REG. VALVE GOES SHUT.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 9 Date: August 2, 1988

Time: 09:50

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

- * ALL ROD BOTTOM LIGHTS ARE LIGHTED.
- * ALL TURBINE STOP, GOVERNOR, INTERCEPT VALVES INDICATE CLOSED.
- * ALL THREE AUXILIARY FEEDWATER PUMPS START.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * BREAK OUT AND FOLLOW FLOW PATH 1 AND EPP-4

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 10

Date: August 2, 1988

FLOAT
Time: 09:55

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

"A" AUXILIARY FEEDWATER PUMP FCV-AFW-45 INDICATOR LIGHT SHOWS VALVE CLOSED
NO FLOW ON METER FOR "A" AFW PUMP DISCHARGE CONTROLLER FIC-1424.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * IF CONTROL OPERATOR TRIES TO OPEN AFW-45 IN MANUAL FROM THE CONTROL BOARD, VALVE WILL NOT OPEN IN EITHER AUTOMATIC OR MANUAL POSITIONS.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. H

Date: August 2, 1988

Time: FLOAT
after 09:55

MESSAGE FOR: MESSAGE TO CONTROLLERS

FROM: LEAD EXERCISE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR PLAYERS)

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * IF OPERATIONS PERSONNEL ARE DISPATCHED TO OPEN AFW-45 VALVE, VALVE WILL OPEN WHEN PERSONNEL MANUALLY TRY VALVE. DISCUSS WITH PERSONNEL DISPATCHED WHAT THEY WOULD DO TO MANUALLY OPEN AFW-45 VALVE.
- * EXPECT OPERATIONS PERSONNEL WHO OPENED AFW-45 VALVE TO CALL BACK TO CONTROL ROOM AND REPORT SUCCESS.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. I Date: August 2, 1988 Time: 10:05

MESSAGE FOR: SITE EMERGENCY COORDINATOR

FROM: CONTROL ROOM/TSC CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

A SITE EMERGENCY SHOULD HAVE BEEN DECLARED BASED ON LOSS
OF ALL ANNUNCIATORS AND OCCURRENCE OF A PLANT TRANSIENT.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* IMPLEMENT PEP-104 BASED ON MODULE #10

SCN: 88-2708
RNPD-88-03-R0

3.1-31

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 11 Date: August 2, 1988 Time: 10:10

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

* RMS-4 HAS A RED LIGHT ON DRAWER

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * BREAK OUT AOP-004, RADIATION MONITOR ALARMS
- * DISPATCH HP AND/OR A.O. TO INVESTIGATE PROBLEM
- * SOUND LOCAL EVACUATION ALARM

SCN: 88-2708
RNPD-88-03-R0

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 12

Date: August 2, 1988

Time: ^{FLOAT} 10:15

MESSAGE FOR: AUXILIARY OPERATOR

FROM: CONTROLLER IN AUXILIARY BUILDING

OSC HP Cart

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

* #1 SUMP LEVEL IS INCREASING RAPIDLY.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

*** CONTROLLER NOTE *** A.O. BEING SENT TO CHARGING PUMP ROOM, RESPONDING TO RMS-4 MAY LOOK AT WASTE DISPOSAL PANEL AND NOTICE SUMP PUMP LEVEL. IF HE DOES, PROVIDE THIS MESSAGE AS TO WHAT HE WOULD OBSERVE.

SCN: 88-2708
RNPD-88-03-R0

3.1-33

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 13 Date: August 2, 1988 Time: ~10:15 FLOAT

MESSAGE FOR: EITHER A.O. AND/OR H.P. TO ARRIVE AT CHARGING PUMP ROOM

FROM: AUXILIARY BUILDING OPERATOR *OSC HP Controller*

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

- * AS YOU BEING TO OPEN DOOR, YOU CAN HEAR WATER "SPLASHING" INSIDE THE ROOM AND AN ALARM SOUNDING.
- * FROM DOORWAY TO CHARGING PUMP ROOM, YOU CAN SEE LEAK ON "B" CHARGING PUMP "BLOWING" AROUND INLET FLANGE OF RELIEF VALVE.
- * YOUR OBSERVATION OF THE LEAK ALLOWS YOU TO VERY ROUGHLY ESTIMATE THE LEAK AT 20 GPM.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * CALL CONTROL ROOM AND REPORT OBSERVATION.
- * SHOULD HAVE AN EXPOSURE RATE METER WITH THEM, AND IF IT IS A ~~FAC~~ *FAG* DETECTOR, IT WILL ALARM.
- * HP MAY PULL AN AIR SAMPLER IN HALLWAY.
- * EXPOSURE RATE AT DOOR IS 20-30 mR/hr.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. J Date: August 2, 1988 Time: FLOAT 10:16

MESSAGE FOR: A.O. OR H.P. AT CHARGING PUMP ROOM

FROM: AUXILIARY BUILDING CONTROLLER OSC

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

CALL THE CONTROL ROOM AND REPORT THE OBSERVATION IN THE
CHARGING PUMP ROOM.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

SCN: 88-2708
RNPD-88-03-R0

3.1-35

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. K Date: August 2, 1988 Time: 10:20

MESSAGE FOR: SHIFT FOREMAN

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOU ARE TO STOP "B" CHARGING PUMP AT THIS TIME.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

SCN: 88-2708
RNPD-88-03-R0

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. L

Date: August 2, 1988

Time: 10:30

MESSAGE FOR: SHIFT FOREMAN IN CONTROL ROOM

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

NOTIFY THE TSC THAT A LEAK IN "B" CHARGING PUMP HAS BEEN FOUND ON THE
INLET FLANGE OF THE RELIEF VALVE AND FROM OBSERVATION HAS BEEN
ESTIMATED TO BE 20 GPM.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. M Date: August 2, 1988 Time: 10:35

MESSAGE FOR: OSC LEADER

FROM: OSC LEAD CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

GENERATE THE NECESSARY RWP AND BEGIN TO DRESS-OUT FOR REPAIR
OF THE LEAK ON "B" CHARGING PUMP.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * IF APPROPRIATE AND IF RWP IS NOT GENERATED, THEN GENERATE RWP.
- * DRESS SHOULD BE FULL ANTI-C's WITH RAINUIT AND SCBA.

NOTE

- ~~AFTER FULL DRESS AND SCBA DOWNING ARE DEMONSTRATED THEY MAY BE REMOVED AND SIMULATED.~~
- IF FACIAL HAIR IS PRESENT; SHAVING WILL BE SIMULATED.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 13a

Date: August 2, 1988

FLOAT
Time: 10:55

MESSAGE FOR: H.P. TECHNICIAN

FROM: OSC MT CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR PLAYERS)

FOR CONTROLLER USE ONLY:

GIVE PLAYERS REQUESTED INFORMATION FROM SURVEY MAP #1.

ACTIONS EXPECTED:

H.P. AND OPERATOR ARRIVE AT DOOR TO CHARGING PUMP
H.P. PERFORMS RADIATION SURVEY
H.P. BRIEFS OPERATOR ON RADIOLOGICAL CONDITIONS.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. 0

Date: August 2, 1988

Time: 11:15

MESSAGE FOR: SHIFT FOREMAN AND TEAM AT SCENE

FROM: CONTROL ROOM CONTROLLER AND TEAM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

"B" CHARGING PUMP LEAK IS ISOLATED AT THIS TIME.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 13b

Date: August 2, 1988

FLOAT
Time: 11:15

MESSAGE FOR: RADIATION CONTROL TECHNICIAN

FROM: OSC-HP CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR PLAYERS)

FOR CONTROLLER USE ONLY:

SMEAR RESULTS ARE: PEG FRISKER OFFSCALE HIGH
(IF TAKEN) AIR SAMPLE FILTER 200 CPM ABOVE BKG
IODINE CART 100 CPM ABOVE BKG

ACTIONS EXPECTED:

UPON THE RADIATION CONTROL TECHNICIAN EXITING THE CHARGING PUMP ROOM,
HE SHOULD SIMULATE REMOVING ANTI-C'S IN HALLWAY. AFTER ANTI-C'S ARE
REMOVED THE H.P. AND ANYONE ELSE WITH THE H.P. TECH. SHOULD PERFORM
WHOLE BODY FRISK.

H.P. SHOULD PERFORM THE FOLLOWING:

1. SET UP AREA TO LIMIT SPREAD OF CONTAMINATION BY
 - A. SETTING DOWN A STEP OFF PAD
 - B. BARRICADING AREA
 - C. POSTING AREA

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY

Message No. P

Date: August 2, 1988

Time: 11:25

MESSAGE FOR: EMERGENCY REPAIR DIRECTOR

FROM: TSC LEAD CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

ASSEMBLE A DAMAGE REPAIR TEAM TO MAKE REPAIRS TO THE "B" CHARGING PUMP
RELIEF VALVE.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * WOULD EXPECT THAT MECHANICAL MAINTENANCE PERSONNEL AND AN H.P. PERSON
WOULD DRESS-OUT AND BE READY TO REPAIR THE "B" CHARGING PUMP RELIEF
VALVE.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 13c

Date: August 2, 1988

FLOAT
Time: 11:30

MESSAGE FOR: RADIATION CONTROL TECHNICIAN

FROM: ISC HF CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR PLAYERS)

FOR CONTROLLER USE ONLY:

SEE SURVEY MAP #2.

ACTIONS EXPECTED:

WHEN RAD. CONTROL TECHNICIAN AND DAMAGE REPAIR TEAM ARRIVE AT CHARGING PUMP ROOM:

H.P. SHOULD REASSESS RADIOLOGICAL CONDITIONS.

H.P. SHOULD BRIEF MAINTENANCE WORKERS ON RADIOLOGICAL CONDITIONS.

H.P. PERFORM THE FOLLOWING:

1. PULL AIR SAMPLE
2. RADIATION SURVEY
3. CONTAMINATION SURVEY

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 14 Date: August 2, 1988 Time: FLOAT
11:50

MESSAGE FOR: I&C TECHNICIANS AT LUNDELL ANNUNCIATOR ROOM

FROM: I&C CONTROLLER (***) SEE CONTROLLER NOTE (***)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOU HAVE COMPLETED ALL REPAIRS TO INVERTER #5.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

*** CONTROLLERS NOTE *** BEFORE THIS MESSAGE IS ISSUED, CHECK WITH THE LEAD EXERCISE CONTROLLER. IF IT IS DECIDED TO KEEP THE EMERGENCY CLASSIFICATION AT THE CURRENT LEVEL, ISSUE THIS CARD AND CALL THE LEAD CONTROL ROOM CONTROLLER TO ISSUE MESSAGE CARD 15. INVERTER #5 WILL HAVE BEEN FIXED, THE CONTROL ROOM ANNUNCIATORS WILL ALL BE FLASHING, REQUIRING CARD 3503F TO BE REPLACED TO STOP THE FLASHING.

* I&C TECHNICIANS SHOULD CALL SHIFT FOREMAN IN CONTROL ROOM AND REPORT REPAIRS COMPLETE.

* I&C TECHNICIANS SHOULD BEGIN TO LOOK FOR CAUSE OF FLASHING PROBLEM.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 15

Date: August 2, 1988

Time: ^{FLOAT} 11:50

MESSAGE FOR: CONTROL OPERATOR

FROM: LEAD CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

ALL RTGB ANNUNCIATORS ARE NOW FLASHING.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

SCN: 88-2708
RNPD-88-03-R0

3.1-43

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 16

Date: August 2, 1988

FLOAT
Time: 11:50

MESSAGE FOR: I&C TECHNICIANS AT THE LUNDELL ANNUNCIATOR ROOM

FROM: I&C CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOUR TESTING HAS DETERMINED THAT CARD 3503F IS BAD.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* OBTAIN CARD FROM STORES

* REPLACE CARD IN LUNDELL RACK

*** CONTROLLER NOTE *** CHECK WITH LEAD EXERCISE CONTROLLER AS TO LENGTH OF TIME REQUIRED TO PERFORM ALL THESE TASKS. THIS LENGTH OF TIME WILL CORRESPOND TO LENGTH OF TIME REQUIRED TO REMAIN IN EMERGENCY CLASSIFICATION AND WILL DETERMINE THE TIME TO ISSUE MESSAGE CARD 17.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 17 Date: August 2, 1988 Time: FLOAT

MESSAGE FOR: I&C TECHNICIANS AT LUNDELL ANNUNCIATOR ROOM

FROM: I&C CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

ALL LUNDELL ANNUNCIATOR REPAIRS ARE COMPLETED.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

*** CONTROLLERS NOTE *** WHEN THIS MESSAGE IS ISSUED, CALL LEAD CONTROL ROOM CONTROLLER AND INFORM HIM OF PROVIDING I&C TECHNICIANS WITH THIS MESSAGE CARD.

- * CLOSE-UP LUNDELL CABINET
- * RETURN KEY TO CONTROL ROOM
- * RETURN TO THE OSC

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 18

Date: August 2, 1988

Time: FLOAT

MESSAGE FOR: CONTROL OPERATOR

FROM: CONTROL ROOM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

RTGB ANNUNCIATORS ARE NO LONGER FLASHING.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* TEST ANNUNCIATORS

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. Q Date: August 2, 1988 Time: ~12:00 FLOAT

MESSAGE FOR: ALL EXERCISE CONTROLLERS

FROM: LEAD EXERCISE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR EXERCISE PLAYERS)

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

* WITH THE FIX OF THE CONTROL ROOM ANNUNCIATORS, ALL EMERGENCY CLASSIFICATIONS MAY BE TERMINATED AT THIS TIME. THE SEC/ERM HAVE THE DECISION TO DOWNGRADE AND TERMINATE OR CONTINUE AT THIS CLASSIFICATION LEVEL.

SCN: 88-2708
RNPD-88-03-R0

3.1-47

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

CONTINGENCY
Message No. R Date: August 2, 1988 Time: FLOAT 12:20

MESSAGE FOR: DAMAGE REPAIR TEAM FIXING "B" CHARGING PUMP

FROM: DAMAGE REPAIR TEAM CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

YOUR EFFORTS TO FIX THE "B" CHARGING PUMP RELIEF VALVE HAVE BEEN
SUCCESSFUL.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

- * REPORT THE FIX OF "B" CHARGING PUMP RELIEF VALVE TO THE OSC LEADER.

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

FLOAT

Message No. 18a

Date: August 2, 1988

Time: 12:20

MESSAGE FOR: RADIATION CONTROL TECHNICIAN

FROM: ~~69~~ 11F CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGE FOR PLAYERS)

FOR CONTROLLER USE ONLY:

SMEAR RESULTS	PEG FRISKER OFFSCALE HIGH
AIR SAMPLE FILTER	100 CPM ABOVE BKG
IODINE CART	50 CPM ABOVE BKG

ACTIONS EXPECTED:

WHEN RAD. CONTROL TECHNICIAN AND DAMAGE REPAIR TEAM EXIT THE CHARGING PUMP ROOM:

SIMULATE ANTI-C'S REMOVAL
ALL PERSONS PERFORM WHOLE BODY FRISK
H.P. CHECK AIR SAMPLE AND SMEARS ON FRISKER

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 19

Date: August 2, 1988

Time: ~12:30

MESSAGE FOR: LEAD CONTROL ROOM CONTROLLER

FROM: LEAD EXERCISE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

(NO MESSAGES FOR EXERCISE PLAYERS)

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

*** CONTROLLER NOTE *** AT THE CONCLUSION OF THE
EXERCISE, BE SURE THAT THE NRC IS NOTIFIED VIA RED PHONE
THAT THE EXERCISE HAS BEEN TERMINATED.

SCN: 88-2708
RNPD-88-03-R0

3.1-49

CP&L
EXERCISE MESSAGE/DRILL CARD

RNPD
PLANT

Message No. 20 Date: August 2, 1988

Time: 12:30

MESSAGE FOR: ALL EXERCISE PLAYERS

FROM: LEAD EXERCISE CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

THE 1988 RNPD EMERGENCY PREPAREDNESS EXERCISE IS TERMINATED AS OF THIS TIME.

FOR CONTROLLER USE ONLY:

ACTIONS EXPECTED:

*** CONTROLLERS NOTE *** WHEN THE EXERCISE IS TO BE TERMINATED, THE LEAD EXERCISE CONTROLLER WILL CHECK WITH ALL FACILITY LEAD EXERCISE CONTROLLERS TO DETERMINE IF THE EXERCISE IS TO BE TERMINATED. WHEN THE DECISION IS MADE BY THE LEAD EXERCISE CONTROLLER TO TERMINATE THE EXERCISE, INSTRUCTIONS TO PROVIDE A MESSAGE TO THE CONTROL ROOM, TSC AND EOF WILL BE GIVEN AS TO WHEN THE EXERCISE IS SUSPENDED. PLAYERS SHOULD MAKE ALL PROPER NOTIFICATIONS AND A PLAYER FACILITY CRITIQUE SHOULD BE CONDUCTED FOLLOWING A SHORT BREAK.

CP&L

EXERCISE MESSAGE/DRILL INFORMATION

The data sheets which follow are ERFIS printouts which are to be used in the Control Room. The originals which will be used on the day of the exercise are color coded; however, the appropriate information will be displayed to players at the appropriate times during the exercise.

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
07:45

S

UPDATE RATE = 60

GROUP DISPLAY

SPS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-488 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0480A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0481A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORU RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0485A	LT-478 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPUI319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP5602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT5601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INWC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INWC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0189A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0187A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0185A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	PSIG		GOOD

F1= PREV CRNC + +

F2=

F3=

F4=

F5=NEW RATE PUR OPER F6=

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
08:00

S

UPDATE RATE = 60

GROUP DISPLAY

APS

RC8 LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-400 RC LOOPS HI AVG TEMP	575.5	DEGF		GOOD
RCL0480A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0481A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0483A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AVG FLOW RATE OUT OF RC8	5.201	GPM		GOOD
WDP5602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT5601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INWC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INWC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
SIL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
SIL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
SIL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-153A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RC8 CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RC8 LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
SIL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CU PRESSURE	.2	PSIG		GOOD

F1= PREV CONC + +

F2=

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F5=NEW RATE
PWR OPER

F6=

SELECT FUNC. KEY OR TURN-ON CODE GD :

aug 2, 88
08:15

S

UPDATE RATE = 60

GROUP DISPLAY

3P5

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-408 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0400A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0481A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.00	DEGF		GOOD
RCL0485A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP5602A	PT-1004 RCDT PRESSURE	2.0	P8IG		GOOD
WDT5601A	TE-1058 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INWC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INWC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHF0139A	PT-117 UCT PRESSURE	39.	P8IG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	P8IG		GOOD

F1= PREV CONC + +

F2=

F3=

F4=

F5=NEW RATE F6= PWR OPER

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
08:30

S

UPDATE RATE = 60

GROUP DISPLAY

3PS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-408 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0400A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0401A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORU RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.00	DEGF		GOOD
RCL0405A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0405A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP3602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT3601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INMC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INMC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-153A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RVST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	PSIG		GOOD

F1= PREV CONC + +

F2=

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F5=NEW RATE F6= PUR OPER

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
08:45

S

UPDATE RATE = 60

GROUP DISPLAY

3PS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-400 RC LOOPS HI AVG TEMP	575.5	DEGF		GOOD
RCL0480A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0481A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0496A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0485A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AVG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP3602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT3601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INMC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INMC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0189A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0187A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0185A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0128A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CU PRESSURE	.2	PSIG		GOOD

F1= PREV CONC +

F2=

F3=

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F5=NEW RATE
PUR OPER

F6=

SELECT FUNC. KEY OR TURN-ON CODE GD :

aug 2, 88
09:00

S

UPDATE RATE = 60

GROUP DISPLAY

RPS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TM-400 RC LOOPS HI AVG TEMP	575.5	DEGF		GOOD
RCL0400A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0401A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0496A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0485A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AVG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP3602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT3601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INWC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INWC		GOOD
CHT0140A	TM-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0189A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0187A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0185A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TM-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TM-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWSST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	PSIG		GOOD

F1= PREV CONC + +

F2=

F3=

F4=

F5=NEW RATE
PUR OPER

F6=

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
09:15

S

JDATE RATE = 60

GROUP DISPLAY

SPS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-488 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0480A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0481A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0485A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0485A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPUI319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP5602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT5601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INWC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INWC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-920 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	PSIG		GOOD

F1= PREV CRNC + +

F2=

F3=

F4=

F5=NEW RATE F6= PUR OPER

SELECT FUNC. KEY OR TURN-ON CODE GD :

aug 2, 88
09:30

S

UPDATE RATE = 60

GROUP DISPLAY

SPS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-400 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0400A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0401A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.80	DEGF		GOOD
RCL0405A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0405A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP3602A	PT-1004 RCDT PRESSURE	2.0	P8IG		GOOD
WDT3601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INMC		GOOD
CHL0113A	LT-115 UCT LEVEL	24.9	INMC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	P8IG		GOOD
SIL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
SIL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
SIL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-153A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
SIL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	P8IG		GOOD

F1= PREV CONC + +

F2=

F3=

F4=

F5=NEW RATE
PUR OPER

F6=

SELECT FUNC. KEY OR TURN-ON CODE GD :

AUG 2, 88
09:45

S

UPDATE RATE = 60

GROUP DISPLAY

SPS

RCS LEAKAGE PATHS

POINT ID	DESCRIPTION	CURRENT VALUE	ENGR UNIT	ALARM LIMIT	QUAL CODE
NIN0001	AUG POWER RANGE PERCENT POWER	100.425	PCNT		GOOD
RCT0499A	TH-408 RC LOOPS HI AUG TEMP	575.5	DEGF		GOOD
RCL0400A	LT-459 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCL0401A	LT-460 PRESSURIZER LEVEL	53.	PCNT		GOOD
RCT0493A	TE-463 PZR PORV RELIEF LINE TEMP	171.	DEGF		GOOD
RCT0494A	TE-465 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0495A	TE-467 PZR SAFETY RLF LINE TEMP	171.	DEGF		GOOD
RCT0498A	PRZ SAFETY RLF LINE 3 TEMP	170.00	DEGF		GOOD
RCL0405A	LT-470 PRT LEVEL	70.	PCNT		GOOD
RCT0405A	TE-471 PRT TEMP	117.	DEGF		GOOD
NPU1319	CALC AUG FLOW RATE OUT OF RCS	5.201	GPM		GOOD
WDP5602A	PT-1004 RCDT PRESSURE	2.0	PSIG		GOOD
WDT5601A	TE-1050 RCDT TEMPERATURE	148.09	DEGF		GOOD
CHL0112A	LT-112 UCT LEVEL	24.91	INMC		GOOD
CHL0115A	LT-115 UCT LEVEL	24.9	INMC		GOOD
CHT0140A	TH-116 UCT TEMPERATURE	114.	DEGF		GOOD
CHP0139A	PT-117 UCT PRESSURE	39.	PSIG		GOOD
8IL5307A	LT-920 ACCUMULATOR A LEVEL	77.	PCNT		GOOD
8IL5309A	LT-924 ACCUMULATOR B LEVEL	77.	PCNT		GOOD
8IL5311A	LT-928 ACCUMULATOR C LEVEL	77.	PCNT		GOOD
CHF0109A	FT-156A RCP A SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0107A	FT-155A RCP B SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0105A	FT-154A RCP C SEAL LEAKOFF FLOW	2.42	GPM		GOOD
CHF0120A	FT-122 RCS CHARGING FLOW	71.	GPM		GOOD
CHF0134A	FT-150 RCS LETDOWN FLOW	83.	GPM		GOOD
CHT0194A	TE-141 LETDOWN LINE RELIEF TEMP	121.	DEGF		GOOD
CHT0126A	TH-123 CHARGING LINE TEMP	445.	DEGF		GOOD
CHT0145A	TH-144 LETDOWN LINE TEMPERATURE	116.	DEGF		GOOD
8IL5313A	LT-940 RWST LEVEL	91.	PCNT		GOOD
CUP1010A	PT-950 CV PRESSURE	.2	PSIG		GOOD

F1=

PREV CRNC +

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F3=

F4=

F5=NEW RATE

F6=

PUR OPER

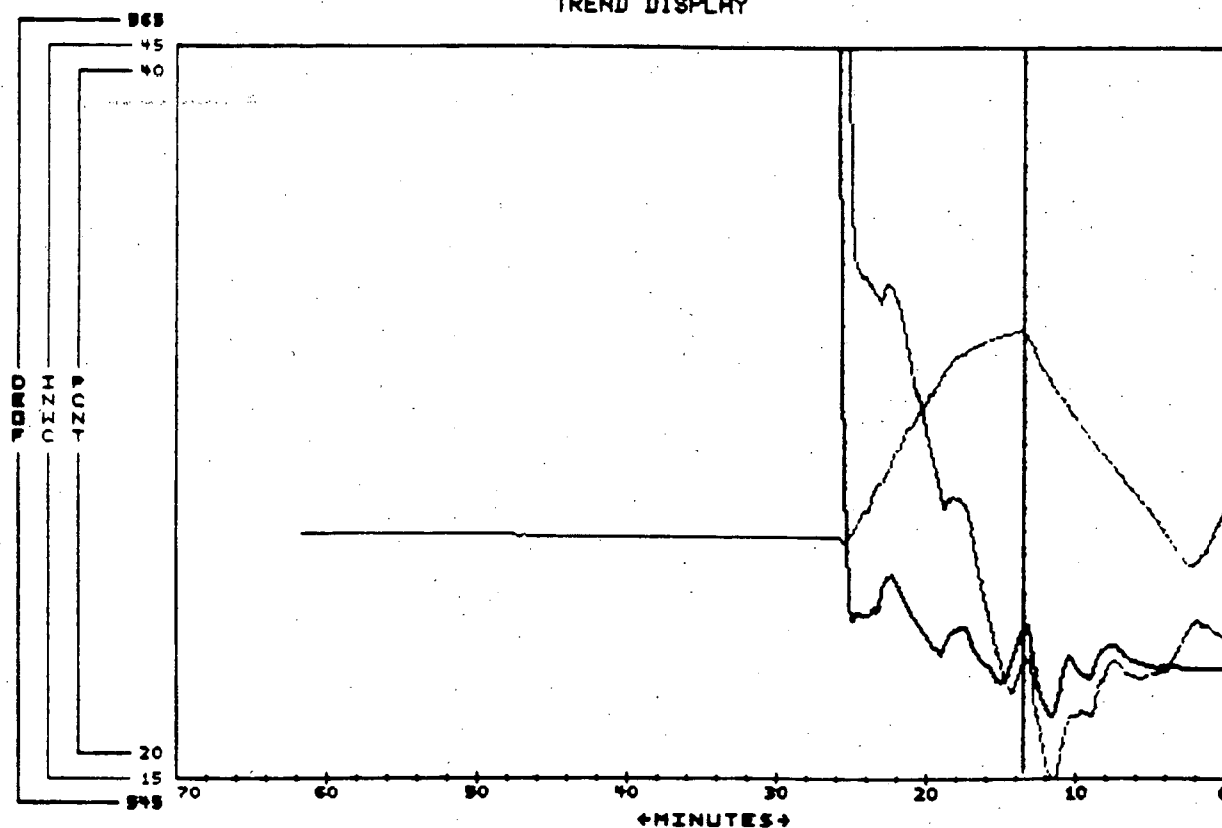
DEPRESS FUNCTION KEY

P : ■

AUG 2, 88
10:15

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 UCT LEVEL	33.2	25.9	GOOD	12.4	51.60001
RCL0480A LT-459 PRESSURIZER LEVEL	23.2	23.8	GOOD	0	0
RCT0499A TH-408 RC LOOPS HI AVG TEMP	549.1	548.0	GOOD	0	0

F1=CENTER
PREV CANC

F2=LEFT

F3=RIGHT
EVENT DECLARED

F4=TEMPLATE
CONSOLE=NORMAL

F5=FAST LEFT
MODE=STARTUP

F6=FAST RIGHT

DEPRESS FUNCTION KEY

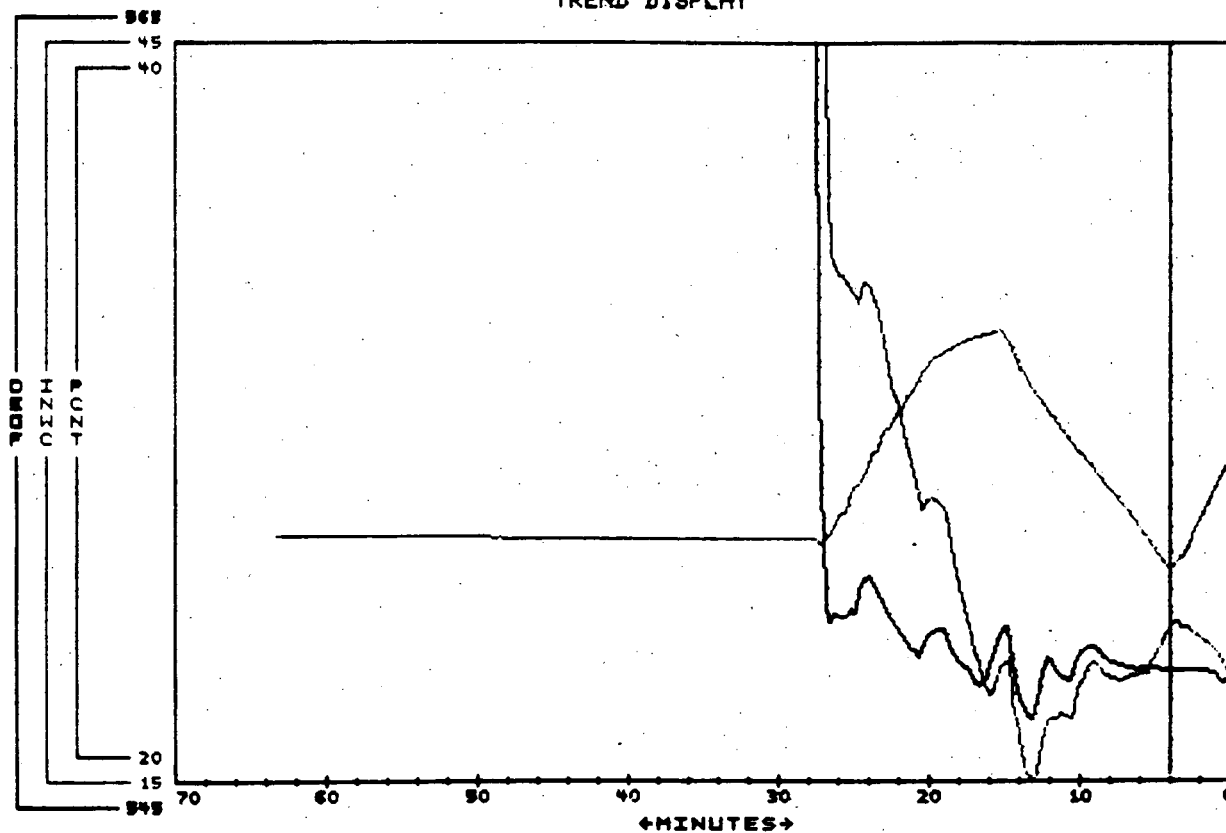
P

: ■

AUG 2, 88
10:19

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 UCT LEVEL	23.7	28.8	GOOD	12.4	51.60001
RCL0480A LT-459 PRESSURIZER LEVEL	24.1	23.8	GOOD	0	0
RCT0499A TM-408 RC LOOPS HI AVG TEMP	548.8	547.7	GOOD	0	0

F1=CENTER
PREV CANC

F2=LEFT

F3=RIGHT
EVENT DECLARED

F4=TEMPLATE
CONSOLE=NORMAL

F5=FAST LEFT
MODE=STARTUP

F6=FAST RIGHT

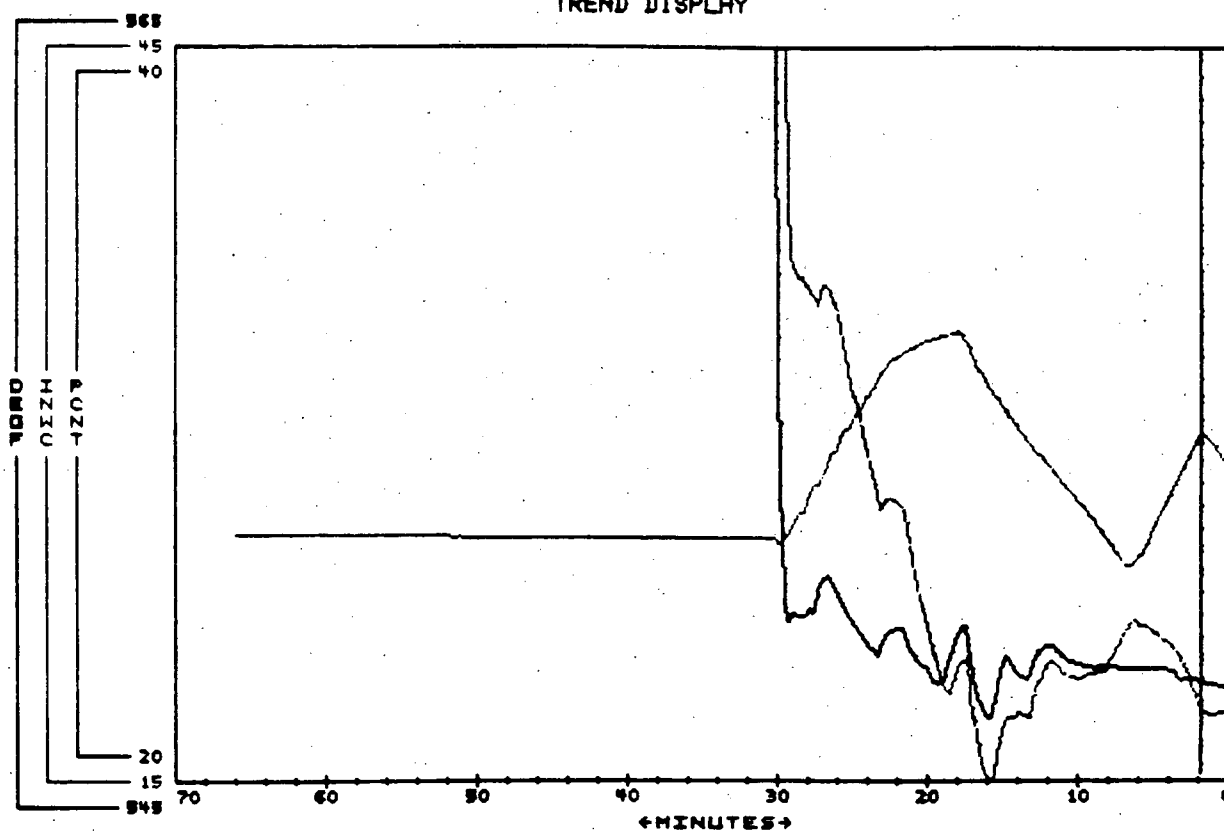
DEPRESS FUNCTION KEY

P

: AUG 2, 83
10:22

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
DHL0115A LT-115 VCT LEVEL	29.2	27.9	GOOD	12.4	51.60001
RCL0480A LT-459 PRESSURIZER LEVEL	21.9	21.9	GOOD	0	0
RCT0499A TM-408 RC LOOPS HI AVG TEMP	547.7	547.5	GOOD	0	0

F1=CENTER
PREV CANC

F2=LEFT

F3=RIGHT
EVENT DECLAREDF4=TEMPLATE
CONSOLE=NORMALF5=FAST LEFT
MODE=STARTUP

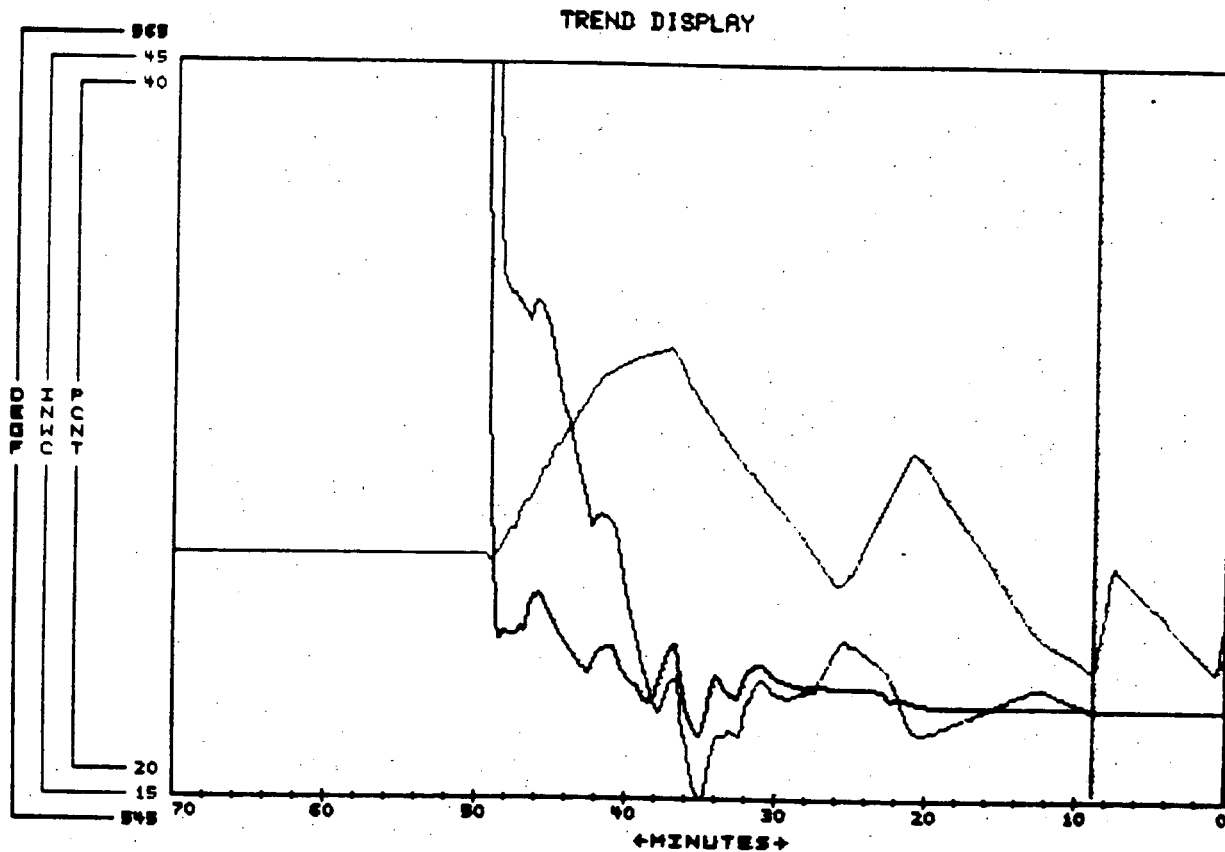
F6=FAST RIGHT

DEPRESS FUNCTION KEY

P : 

AUG 2, 88
10:40

S



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 UCT LEVEL	20.3	21.9	GOOD	12.4	51.60001
RCL0480A LT-459 PRESSURIZER LEVEL	22.5	22.4	GOOD	0	0
RCT0499A TH-400 RC LOOPS HI AVG TEMP	547.5	547.4	GOOD	0	0

F1-CENTER
PREV CONC

F2=LEFT

F3=RIGHT
EVENT DECLARED

F4=TEMPLATE
CONSOLE=NORMAL

F5=FAST LEFT
MODE=STARTUP

F6=FAST RIGHT

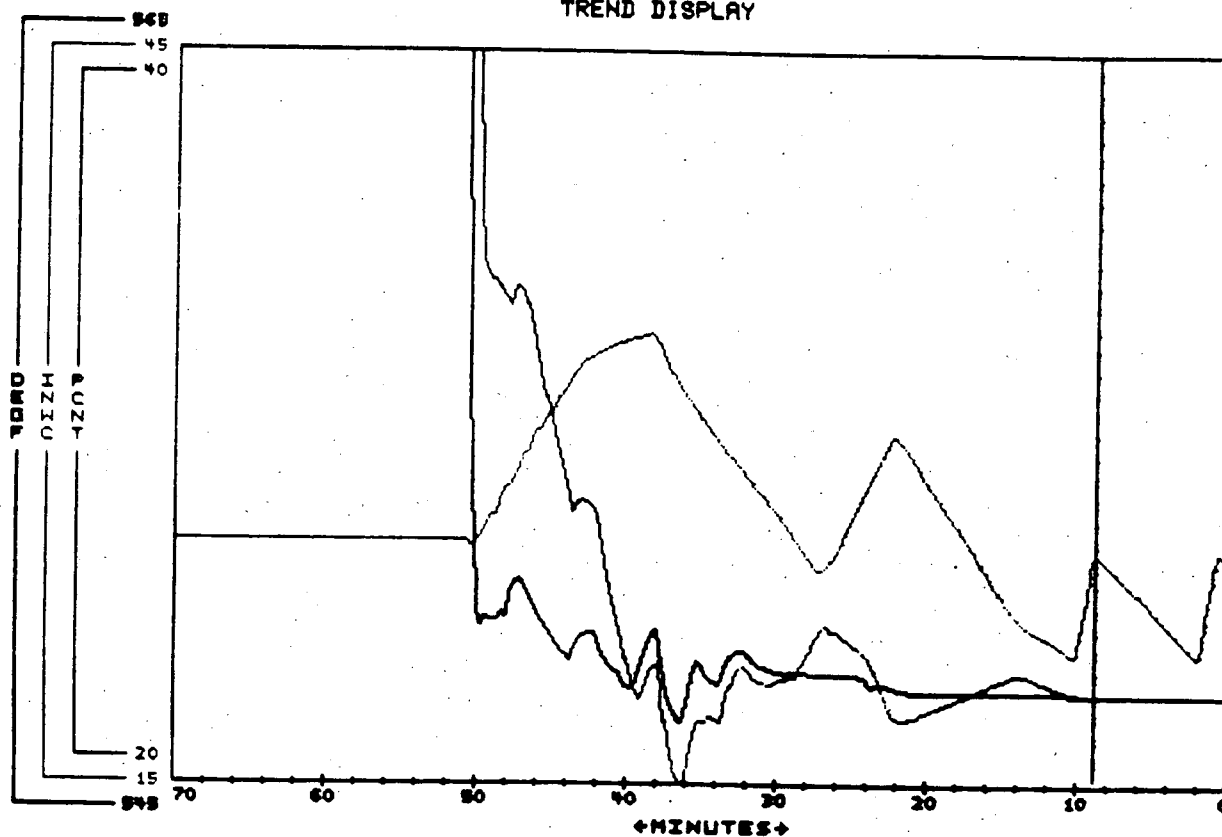
DEPRESS FUNCTION KEY

P : ■

AUG 2, 88
10:41

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 VCT LEVEL	24.3	24.3	GOOD	12.4	51.60001
RCL0400A LT-459 PRESSURIZER LEVEL	22.4	22.4	GOOD	0	0
RCT0499A TH-408 RC LOOPS HI AVG TEMP	547.5	547.4	GOOD	0	0

F1=CENTER
PREV CANC

F2=LEFT

F3=RIGHT
EVENT DECLARED

F4=TEMPLATE
CONSOLE-NORMAL

F5=FAST LEFT
MODE-STARTUP

F6=FAST RIGHT

DEPRESS FUNCTION KEY

P

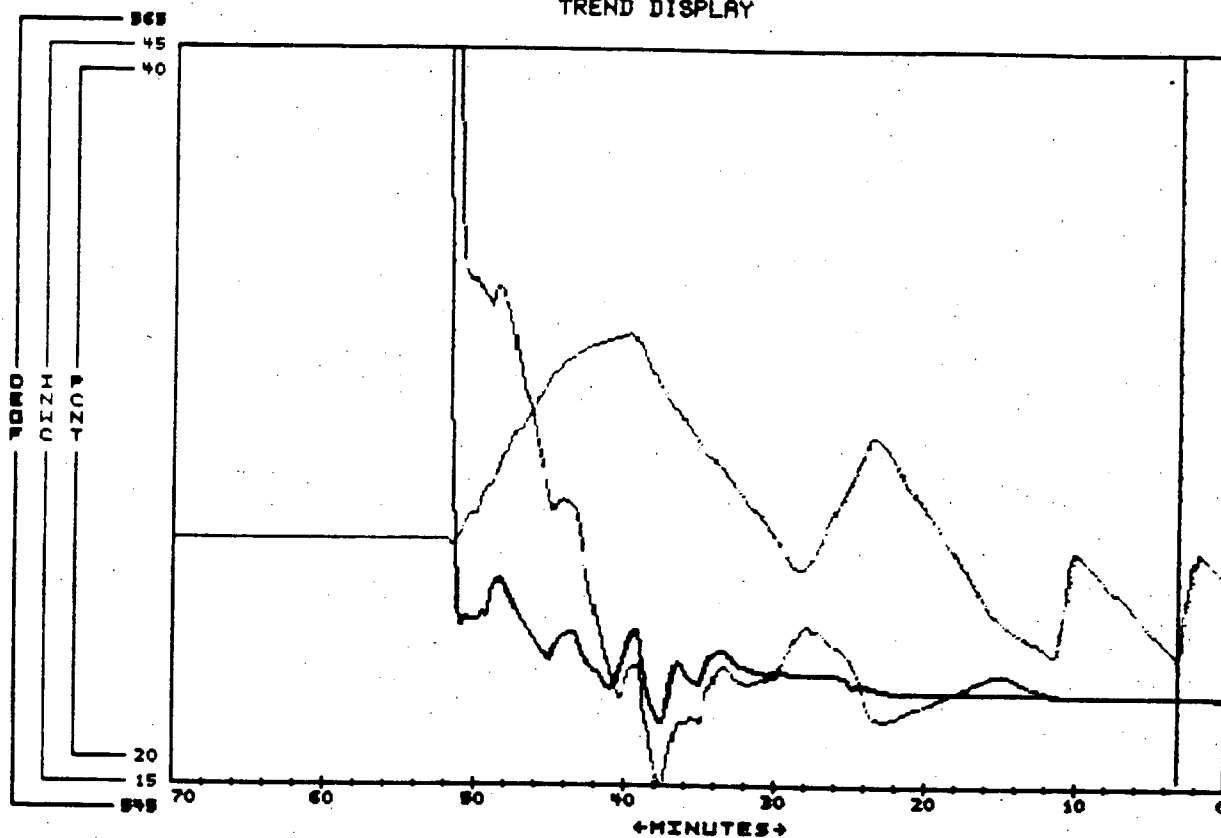
: 

AUG 2, 88

10:42

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 UCT LEVEL	20.2	23.5	GOOD	12.4	51.60001
RCL0488A LT-459 PRESSURIZER LEVEL	22.4	22.4	GOOD	0	0
RCT0499A TM-408 RC LOOPS HI AVG TEMP	547.4	547.4	GOOD	0	0

F1=CENTER
PREV CONC

F2=LEFT

F3=RIGHT
EVENT DECLAREDF4=TEMPLATE
CONSOLE=NORMALF5=FAST LEFT
MODE=STARTUP

F6=FAST RIGHT

DEPRESS FUNCTION KEY

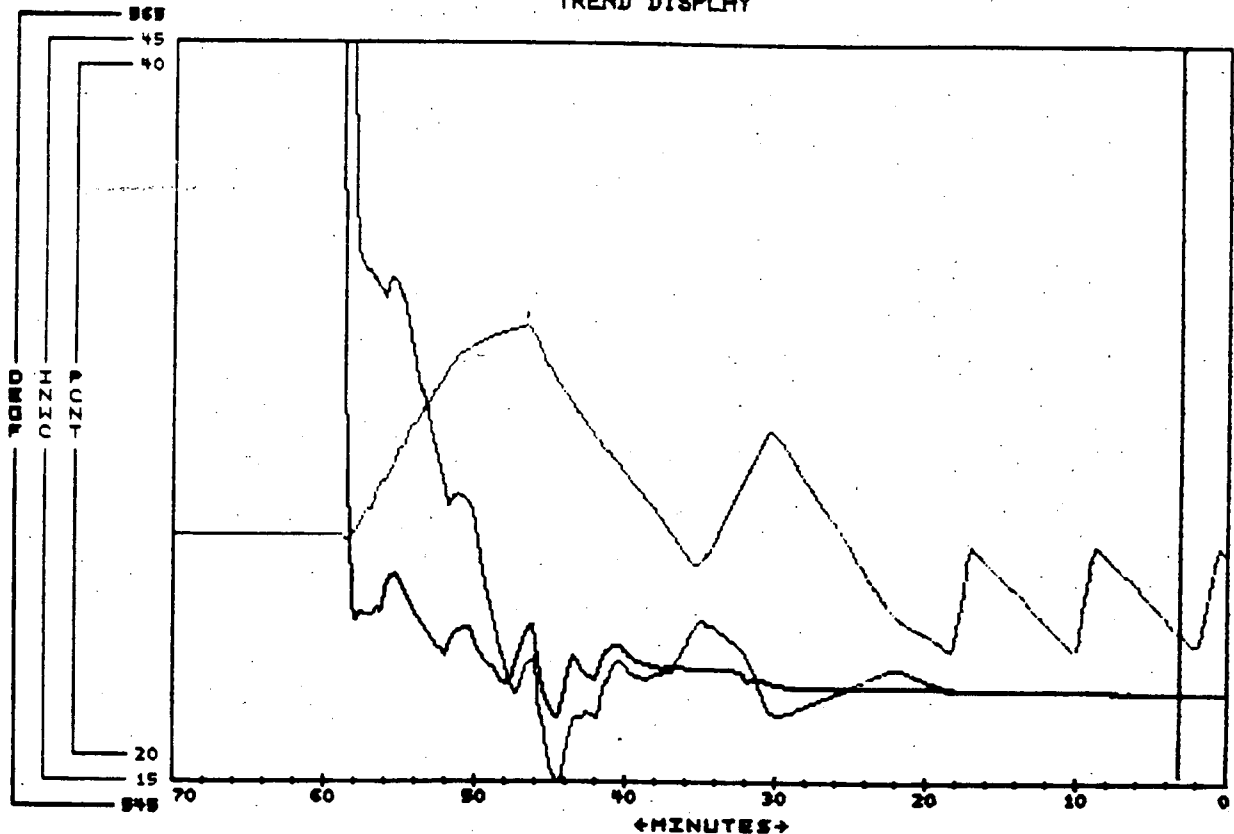
P

: ■

AUG 2, 88
10:50

S

TREND DISPLAY



POINT ID DESCRIPTION	TREND LINE	CURRENT VALUE	QUAL	LOW ALARM	HIGH ALARM
CHL0115A LT-115 VCT LEVEL	21.1	24.3	GOOD	12.4	51.68001
RCL0480A LT-459 PRESSURIZER LEVEL	22.4	22.4	GOOD	0	0
RCT0499A TH-400 RC LOOPS HI AVG TEMP	547.4	547.4	GOOD	0	0

F1=CENTER
PREV CONC

F2=LEFT

F3=RIGHT
EVENT DECLAREDF4=TEMPLATE
CONSOLE=NORMALF5=FAST LEFT
MODE=STARTUP

F6=FAST RIGHT

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.2 PLANT PARAMETERS

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)
NOTIFICATION OF UNUSUAL EVENT
ALERT
SITE AREA EMERGENCY
GENERAL EMERGENCY

Date: August 2, 1988

Time: 07:30

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
LOWER (MPH) _____
WIND DIR. UPPER (° FROM) _____
LOWER (° FROM) _____
AIR TEMPERATURE (°F) _____
PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
R-2 CONT. AREA (MR/HR) 10
R-3 HP WORK AREA .3
R-4 CHG. PUMP RM (MR/HR) 6
R-5 SPENT FUEL PIT (MR/HR) .4
R-6 SAMPLING ROOM (MR/HR) .5
R-7 IN-CORE INST (MR/HR) 5
R-8 DRUM. RM. (MR/HR) 5
R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
R-12 CV VENT GAS (CPM) 1.5K
R-14 PLT VNT GAS (CPM) 1K
R-15 COND. AIR EJEC. (CPM) 35
R-16 CV FAN CW (CPM) 1.5K
R-17 COMP. CW (CPM) 700
R-18 WASTE DISPOSAL (CPM) 100K
R-19A S/G A BLOWDOWN (CPM) 1K
R-19B S/G B BLOWDOWN (CPM) 1K
R-19C S/G C BLOWDOWN (CPM) 1K
R-20 FUEL HDLG BASE (CPM) 30
R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
R-31A "A" MN STM (MR/HR) 30
R-31B "B" MN STM (MR/HR) 30
R-31C "C" MN STM (MR/HR) 30
R-32A CV HI RG (R/HR) <1
R-32B CV HI RG (R/HR) <1
R-33 MON BLDG (MR/HR) <1
R-34 "P" PLT VNT (cpm) 200
R-34 "I" PLT VNT (cpm) 10
R-34 "NG" PLT VNT (cpm) 300
R-35 PLT VNT GAS (MID) (MR/HR) 1
R-36 PLT VNT GAS (HI) (MR/HR) 30
R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
TEMPERATURE (°F) 100
HYDROGEN CONC. (%) 0
SUMP LEVEL (INCHES) 0
RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
PZR LEVEL (%) 53
TAVE (°F) 575
LOOP A TH (°F) 604
TC (°F) 546
ΔT 58
LOOP B TH (°F) 604
TC (°F) 546
ΔT 58
LOOP C TH (°F) 604
TC (°F) 546
ΔT 58

SUBCOOLING (°F) 51°
CHRGNG FLOW (GPM) 86
LETDOWN FLOW (GPM) 101
REACTOR POWER 100%
ACTIVITY:
GROSS (uCi/ml) 4.85E-1
I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G B LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G C LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME NA
RESET: TIME NA
CS ACTUATED: TIME NA
RESET: TIME NA
CONT. ISO. A ACTUATED: TIME NA
RESET: TIME NA
CONT. ISO. B ACTUATED: TIME NA
RESET: TIME NA
SPRAY ADD TANK LEVEL (%) 67
SI COLD-LEG FLOW (GPM) 0
SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE
A = AVAILABLE (NOT OPERATING)
O = OPERATING
E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	O	2	O	3	O	4 O

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O
AFW MOTOR	A <td>A</td> <td>B</td> <td>A</td>	A	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O C O</td> </td></td>	O <td>B <td>O C O</td> </td>	B <td>O C O</td>	O C O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E	E2	E	
FANS				
HVE 1A	A	1B	A	
HVE 2A	O	2B	A	
HVE 5A	A	5B	A	
HVE 15	A	15A	A	

LEGEND:

OSH = OFF SCALE HIGH
OSL = OFF SCALE LOW
OOS = OUT OF SERVICE
ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 07:45

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) .5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51°
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

	A	O	B	O	C	O
RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP A	O	B	O
COND PUMP A	O	B	O
AFW MOTOR A	A	B	A
AFW STEAM	INOPER		
MSIV A	O	B	O
C	O		

ELECTRICAL

EDG A	A	B	A
DS/DG	A		

OFFSITE

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT:

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 08:00

Completed By:

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
LOWER (MPH) _____
WIND DIR. UPPER (° FROM) _____
LOWER (° FROM) _____
AIR TEMPERATURE (°F) _____
PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
R-2 CONT. AREA (MR/HR) 10
R-3 HP WORK AREA .3
R-4 CHG. PUMP RM (MR/HR) 6
R-5 SPENT FUEL PIT (MR/HR) .4
R-6 SAMPLING ROOM (MR/HR) .5
R-7 IN-CORE INST (MR/HR) 5
R-8 DRUM. RM. (MR/HR) 5
R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
R-12 CV VENT GAS (CPM) 1.5K
R-14 PLT VNT GAS (CPM) 1K
R-15 COND. AIR EJEC. (CPM) 35
R-16 CV FAN CW (CPM) 1.5K
R-17 COMP. CW (CPM) 700
R-18 WASTE DISPOSAL (CPM) 100K
R-19A S/G A BLOWDOWN (CPM) 1K
R-19B S/G B BLOWDOWN (CPM) 1K
R-19C S/G C BLOWDOWN (CPM) 1K
R-20 FUEL HDLG BASE (CPM) 30
R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
R-31A "A" MN STM (MR/HR) 30
R-31B "B" MN STM (MR/HR) 30
R-31C "C" MN STM (MR/HR) 30
R-32A CV HI RG (R/HR) <1
R-32B CV HI RG (R/HR) <1
R-33 MON BLDG (MR/HR) <1
R-34 "P" PLT VNT (cpm) 200
R-34 "I" PLT VNT (cpm) 10
R-34 "NG" PLT VNT (cpm) 300
R-35 PLT VNT GAS (MID) (MR/HR) 1
R-36 PLT VNT GAS (HI) (MR/HR) 30
R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) 14
TEMPERATURE (°F) 100
HYDROGEN CONC. (%) 0
SUMP LEVEL (INCHES) 0
RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
PZR LEVEL (%) 53
TAVE (°F) 575
LOOP A TH (°F) 604
TC (°F) 546
ΔT 58
LOOP B TH (°F) 604
TC (°F) 546
ΔT 58
LOOP C TH (°F) 604
TC (°F) 546
ΔT 58

SUBCOOLING (°F) 51°
CHRGNG FLOW (GPM) 86
LETDOWN FLOW (GPM) 101
REACTOR POWER 100%
ACTIVITY:
GROSS (uCi/ml) 4.85E-1
I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G B LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G C LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N/A
RESET: TIME _____ N/A
CS ACTUATED: TIME _____ N/A
RESET: TIME _____ N/A
CONT. ISO. A ACTUATED: TIME _____ N/A
RESET: TIME _____ N/A
CONT. ISO. B ACTUATED: TIME _____ N/A
RESET: TIME _____ N/A
SPRAY ADD TANK LEVEL (%) 67
SI COLD-LEG FLOW (GPM) _____ C
SI HOT-LEG INJECT START _____ N/A

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A <td>O<td>B</td><td>O</td></td>	O <td>B</td> <td>O</td>	B	O
AFW MOTOR	A <td>A</td> <td>B</td> <td>A</td>	A	B	A
AFW STEAM	INOPER			
MSIV	A <td>O<td>B</td><td>O</td></td>	O <td>B</td> <td>O</td>	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			

EMER. BUS E1	E	E2	E

FANS

HVE 1A	A	1B	A
HVE 2A <td>O</td> <td>2B</td> <td>A</td>	O	2B	A
HVE 5A <td>A</td> <td>5B</td> <td>A</td>	A	5B	A
HVE 15 <td>A</td> <td>15A</td> <td>A</td>	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 08:15

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) .5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) 14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CS ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CONT. ISO. A ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CONT. ISO. B ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N:

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP A	O	B	O
COND PUMP A	O	B	O
AFW MOTOR A	A	B	A
AFW STEAM	INOPER		
MSIV A	O	B	O
MSIV B	O	B	O

ELECTRICAL

EDG A	A	B	A
DS/DG	A		
OFFSITE	E		
EMER. BUS E1	E	E2	E

FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 08:30

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51°
 CHRNGG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CS ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. A ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. B ACTUATED: TIME _____ N
 RESET: TIME _____ N
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N

EQUIPMENT STATUS

N = NOT AVAILABLE
 A = AVAILABLE (NOT OPERATING)
 O = OPERATING
 E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O
AFW MOTOR	A <td>A</td> <td>B</td> <td>A</td>	A	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			

EMER. BUS E1	E	E2	E
FANS			

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH
 OSL = OFF SCALE LOW
 OOS = OUT OF SERVICE
 ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 08:45

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51°
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CS ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. A ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. B ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ N/

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

	A	O	B	O	C	O
RCP						
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP A	O	B	O
COND PUMP A	O	B	O
AFW MOTOR A	A	B	A
AFW STEAM	INOPER		
MSIV A	O	B	O
C	O		

ELECTRICAL

EDG A	A	B	A
DS/DG	A		
OFFSITE	E		
EMER. BUS E1	E	E2	E

FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:00

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O
AFW MOTOR	A <td>A <td>B <td>A</td> </td></td>	A <td>B <td>A</td> </td>	B <td>A</td>	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			

OFFSITE	E
EMER. BUS E1	E
E2	E

FANS

HVE 1A	A	1B	A
HVE 2A <td>O</td> <td>2B</td> <td>A</td>	O	2B	A
HVE 5A <td>A</td> <td>5B</td> <td>A</td>	A	5B	A
HVE 15 <td>A</td> <td>15A</td> <td>A</td>	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:15

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51°
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CS ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. A ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. B ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ N/

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A	O	B	O
AFW MOTOR	A	A	B	A
AFW STEAM	INOPER			
MSIV	A	O	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:30

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 53
 TAVE (°F) 575
 LOOP A TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP B TH (°F) 604
 TC (°F) 546
 ΔT 58
 LOOP C TH (°F) 604
 TC (°F) 546
 ΔT 58

SUBCOOLING (°F) 51°
 CHRGNG FLOW (GPM) 86
 LETDOWN FLOW (GPM) 101
 REACTOR POWER 100%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 52.6
 PRESS (PSIG) 843.9
 FEED (PPH) 3.38x10⁶
 STEAM (PPH) 3.38x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME NA
 RESET: TIME NA
 CS ACTUATED: TIME NA
 RESET: TIME NA
 CONT. ISO. A ACTUATED: TIME NA
 RESET: TIME NA
 CONT. ISO. B ACTUATED: TIME NA
 RESET: TIME NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) 0
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O
AFW MOTOR	A <td>A</td> <td>B</td> <td>A</td>	A	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG		A		
OFFSITE		E		
EMER. BUS E1		E		E2

FANS

HVE 1A	A	1B	A
HVE 2A		2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)
NOTIFICATION OF UNUSUAL EVENT
ALERT
SITE AREA EMERGENCY
GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:45

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
LOWER (MPH) _____
WIND DIR. UPPER (° FROM) _____
LOWER (° FROM) _____
AIR TEMPERATURE (°F) _____
PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
R-2 CONT. AREA (MR/HR) 10
R-3 HP WORK AREA .3
R-4 CHG. PUMP RM (MR/HR) 6
R-5 SPENT FUEL PIT (MR/HR) .4
R-6 SAMPLING ROOM (MR/HR) .5
R-7 IN-CORE INST (MR/HR) 5
R-8 DRUM. RM. (MR/HR) 5
R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
R-12 CV VENT GAS. (CPM) 1.5K
R-14 PLT VNT GAS (CPM) 1K
R-15 COND. AIR EJEC. (CPM) 35
R-16 CV FAN CW (CPM) 1.5K
R-17 COMP. CW (CPM) 700
R-18 WASTE DISPOSAL (CPM) 100K
R-19A S/G A BLOWDOWN (CPM) 1K
R-19B S/G B BLOWDOWN (CPM) 1K
R-19C S/G C BLOWDOWN (CPM) 1K
R-20 FUEL HDLG BASE (CPM) 30
R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
R-31A "A" MN STM (MR/HR) 30
R-31B "B" MN STM (MR/HR) 30
R-31C "C" MN STM (MR/HR) 30
R-32A CV HI RG (R/HR) <1
R-32B CV HI RG (R/HR) <1
R-33 MON BLDG (MR/HR) <1
R-34 "P" PLT VNT (cpm) 200
R-34 "I" PLT VNT (cpm) 10
R-34 "NG" PLT VNT (cpm) 300
R-35 PLT VNT GAS (MID) (MR/HR) 1
R-36 PLT VNT GAS (HI) (MR/HR) 30
R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
TEMPERATURE (°F) 100
HYDROGEN CONC. (%) 0
SUMP LEVEL (INCHES) 0
RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
PZR LEVEL (%) 53
TAVE (°F) 575
LOOP A TH (°F) 604
TC (°F) 546
ΔT 58
LOOP B TH (°F) 604
TC (°F) 546
ΔT 58
LOOP C TH (°F) 604
TC (°F) 546
ΔT 58

SUBCOOLING (°F) 51°
CHRGNG FLOW (GPM) 86
LETDOWN FLOW (GPM) 101
REACTOR POWER 100%
ACTIVITY:
GROSS (uCi/ml) 4.85E-1
I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G B LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND
S/G C LEV.-WR (%) 52.6
PRESS (PSIG) 843.9
FEED (PPH) 3.38x10⁶
STEAM (PPH) 3.38x10⁶
ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N
RESET: TIME _____ N
CS ACTUATED: TIME _____ N
RESET: TIME _____ N
CONT. ISO. A ACTUATED: TIME _____ N
RESET: TIME _____ N
CONT. ISO. B ACTUATED: TIME _____ N
RESET: TIME _____ N
SPRAY ADD TANK LEVEL (%) 6
SI COLD-LEG FLOW (GPM) _____
SI HOT-LEG INJECT START _____ N

EQUIPMENT STATUS

N = NOT AVAILABLE
A = AVAILABLE (NOT OPERATING)
O = OPERATING
E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O
COND PUMP	A	O	B	O
AFW MOTOR	A	A	B	A
AFW STEAM	INOPER			
MSIV	A	O	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			

OFFSITE	E		
EMER. BUS E1	E	E2	E

FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH
OSL = OFF SCALE LOW
OOS = OUT OF SERVICE
ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:51

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) 14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2109
 PZR LEVEL (%) 39.2
 TAVE (°F) 550.5
 LOOP A TH (°F) 553
 TC (°F) 548
 ΔT 5
 LOOP B TH (°F) 553
 TC (°F) 548
 ΔT 5
 LOOP C TH (°F) 553
 TC (°F) 548
 ΔT 5

SUBCOOLING (°F) 91
 CHRGNG FLOW (GPM) 62
 LETDOWN FLOW (GPM) 96
 REACTOR POWER 1%
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 50
 PRESS (PSIG) 995
 FEED (PPH) 2.6x10⁶
 STEAM (PPH) .059x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 50
 PRESS (PSIG) 996
 FEED (PPH) 2.6x10⁶
 STEAM (PPH) .061x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 32
 PRESS (PSIG) 996
 FEED (PPH) 2.6x10⁶
 STEAM (PPH) .059x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CS ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. A ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. B ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ N/

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

	A	O	B	O	C	O
RCP						
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	O	2	O	3	O	4

SECONDARY

FEED PUMP	A	O	B	O	
COND PUMP	A	O	B	O	
AFW MOTOR	A	N	B	A	
AFW STEAM	INOPER				
MSIV	A	O	B	O	C

ELECTRICAL

EDG	A	A	B	A	
DS/DG	A				
OFFSITE	E				

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 09:55

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 45
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST. LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2138
 PZR LEVEL (%) 30.5
 TAVE (°F) 549
 LOOP A TH (°F) 550
 TC (°F) 548
 ΔT 2
 LOOP B TH (°F) 550
 TC (°F) 548
 ΔT 2
 LOOP C TH (°F) 550
 TC (°F) 548
 ΔT 2

SUBCOOLING (°F) 97°
 CHRGNG FLOW (GPM) 45
 LETDOWN FLOW (GPM) 97.5
 REACTOR POWER 1×10^{-8}
 ACTIVITY:
 GROSS (uCi/ml) 4.85×10^{-1}
 ^{131}I (uCi/ml) 1.33×10^{-3}

SECONDARY SYSTEM

S/G A LEV.-WR (%) 57
 PRESS (PSIG) 1004
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.1 \times 10^6$
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 57
 PRESS (PSIG) 1004
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.1 \times 10^6$
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 42.5
 PRESS (PSIG) 1004
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.1 \times 10^6$
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) C
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	A	C	A
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A	O	B	A
AFW MOTOR	A	N	B	O
AFW STEAM	INOPER			
MSIV	A	O	B	O
DS/DG	A			

ELECTRICAL

EDG	A	A	B	A
OFFSITE	E			

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:00

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 48
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2181
 PZR LEVEL (%) 23
 TAVE (°F) 547
 LOOP A TH (°F) 548
 TC (°F) 546
 ΔT 2
 LOOP B TH (°F) 548
 TC (°F) 546
 ΔT 2
 LOOP C TH (°F) 548
 TC (°F) 546
 ΔT 2

SUBCOOLING (°F) 102°
 CHRGNG FLOW (GPM) 45
 LETDOWN FLOW (GPM) 97
 REACTOR POWER 2×10^{-10}
 ACTIVITY:
 GROSS (uCi/ml) $4.85E-1$
 I^{131} (uCi/ml) $1.33E-3$

SECONDARY SYSTEM

S/G A LEV.-WR (%) 58.5
 PRESS (PSIG) 1000
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.1 \times 10^6$
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 58.3
 PRESS (PSIG) 1000
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.1 \times 10^6$
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 45.9
 PRESS (PSIG) 1000
 FEED (PPH) $.47 \times 10^6$
 STEAM (PPH) $.05 \times 10^6$
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CS ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CONT. ISO. A ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 CONT. ISO. B ACTUATED: TIME _____ N:
 RESET: TIME _____ N:
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N:

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	A	C	A
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A	O	B	A
AFW MOTOR	A	N	B	O
AFW STEAM	INOPER			
MSIV	A	O	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			

OFFSITE

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

ATTACHMENT 9.7

Page 1 of 1

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:05

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
LOWER (MPH) _____
WIND DIR. UPPER (° FROM) _____
LOWER (° FROM) _____
AIR TEMPERATURE (°F) _____
PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
R-2 CONT. AREA (MR/HR) 10
R-3 HP WORK AREA .3
R-4 CHG. PUMP RM (MR/HR) 48
R-5 SPENT FUEL PIT (MR/HR) .4
R-6 SAMPLING ROOM (MR/HR) .5
R-7 IN-CORE INST (MR/HR) 5
R-8 DRUM. RM. (MR/HR) 5
R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
R-12 CV VENT GAS (CPM) 1.5K
R-14 PLT VNT GAS (CPM) 1K
R-15 COND. AIR EJEC. (CPM) 35
R-16 CV FAN CW (CPM) 1.5K
R-17 COMP. CW (CPM) 700
R-18 WASTE DISPOSAL (CPM) 100K
R-19A S/G A BLOWDOWN (CPM) 1K
R-19B S/G B BLOWDOWN (CPM) 1K
R-19C S/G C BLOWDOWN (CPM) 1K
R-20 FUEL HDLG BASE (CPM) 30
R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
R-31A "A" MN STM (MR/HR) 30
R-31B "B" MN STM (MR/HR) 30
R-31C "C" MN STM (MR/HR) 30
R-32A CV HI RG (R/HR) <1
R-32B CV HI RG (R/HR) <1
R-33 MON BLDG (MR/HR) <1
R-34 "P" PLT VNT (cpm) 200
R-34 "I" PLT VNT (cpm) 10
R-34 "NG" PLT VNT (cpm) 300
R-35 PLT VNT GAS (MID) (MR/HR) 1
R-36 PLT VNT GAS (HI) (MR/HR) 30
R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
TEMPERATURE (°F) 100
HYDROGEN CONC. (%) 0
SUMP LEVEL (INCHES) 0
RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2242
PZR LEVEL (%) 21.6
TAVE (°F) 547.5
LOOP A TH (°F) 548
TC (°F) 547
ΔT 1
LOOP B TH (°F) 548
TC (°F) 547
ΔT 1
LOOP C TH (°F) 548
TC (°F) 547
ΔT 1

SUBCOOLING (°F) 105°
CHRGNG FLOW (GPM) 95
LETDOWN FLOW (GPM) 100
REACTOR POWER 500cps
ACTIVITY:
GROSS (uCi/ml) 4.85E-1
I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.6
PRESS (PSIG) 1002
FEED (PPH) .1x10⁶
STEAM (PPH) .09x10⁶
ACT. (uCi/ml) ND
S/G B LEV.-WR (%) 63.7
PRESS (PSIG) 1002
FEED (PPH) .12x10⁶
STEAM (PPH) .09x10⁶
ACT. (uCi/ml) ND
S/G C LEV.-WR (%) 61.3
PRESS (PSIG) 1002
FEED (PPH) .39
STEAM (PPH) .09x10⁶
ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME N
RESET: TIME N
CS ACTUATED: TIME N
RESET: TIME N
CONT. ISO. A ACTUATED: TIME N
RESET: TIME N
CONT. ISO. B ACTUATED: TIME N
RESET: TIME N
SPRAY ADD TANK LEVEL (%) 6
SI COLD-LEG FLOW (GPM) _____
SI HOT-LEG INJECT START N

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <th>O</th> <th>B</th> <th>A</th>	O	B	A
AFW MOTOR	A <th>N</th> <th>B</th> <th>A</th>	N	B	A
AFW STEAM	INOPER			
MSIV	A <th>O</th> <th>B</th> <th>O</th>	O	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E

FANS

HVE 1A	A	1B	A
HVE 2A <th>O</th> <th>2B</th> <th>A</th>	O	2B	A
HVE 5A <th>A</th> <th>5B</th> <th>A</th>	A	5B	A
HVE 15 <th>A</th> <th>15A</th> <th>A</th>	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:15

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 50
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

11 CV VENT PART. (CPM) 50K
 12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .14
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2240
 PZR LEVEL (%) 22.6
 TAVE (°F) 547.5
 LOOP A TH (°F) 548
 TC (°F) 547
 ΔT 1
 LOOP B TH (°F) 548
 TC (°F) 547
 ΔT 1
 LOOP C TH (°F) 548
 TC (°F) 547
 ΔT 1

SUBCOOLING (°F) 104°
 CHRGNG FLOW (GPM) 89
 LETDOWN FLOW (GPM) 102
 REACTOR POWER 100cps
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1002
 FEED (PPH) .08x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1002
 FEED (PPH) .08x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 62.9
 PRESS (PSIG) 1002
 FEED (PPH) .09x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) 0
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	O	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <th>O</th> <th>B</th> <th>A</th>	O	B	A
AFW MOTOR	A <th>N</th> <th>B</th> <th>A</th>	N	B	A
AFW STEAM	INOPER			
MSIV	A <th>O</th> <th>B</th> <th>O</th>	O	B	O
EDG	A <th>A</th> <th>B</th> <th>A</th>	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E

ELECTRICAL

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:20

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 53
 R-5 SPENT FUEL PLT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .16
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.6
 TAVE (°F) 547
 LOOP A TH (°F) 547.5
 TC (°F) 546.5
 ΔT 1
 LOOP B TH (°F) 547.5
 TC (°F) 546.5
 ΔT 1
 LOOP C TH (°F) 547.5
 TC (°F) 546.5
 ΔT 1

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 45
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100 cps
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1002
 FEED (PPH) .08x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1002
 FEED (PPH) .08x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1002
 FEED (PPH) .08x10⁶
 STEAM (PPH) .08x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME NA
 RESET: TIME NA
 CS ACTUATED: TIME NA
 RESET: TIME NA
 CONT. ISO. A ACTUATED: TIME NA
 RESET: TIME NA
 CONT. ISO. B ACTUATED: TIME NA
 RESET: TIME NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) C
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE
 A = AVAILABLE (NOT OPERATING)
 O = OPERATING
 E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <td>O <td>B <td>A</td> </td></td>	O <td>B <td>A</td> </td>	B <td>A</td>	A
AFW MOTOR	A <td>N</td> <td>B</td> <td>A</td>	N	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E
FANS				
HVE 1A	A	1B	A	
HVE 2A	O	2B	A	
HVE 5A	A	5B	A	
HVE 15	A	15A	A	

LEGEND:

OSH = OFF SCALE HIGH
 OSL = OFF SCALE LOW
 OOS = OUT OF SERVICE
 ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:30

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 55
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.4
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 45
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) 0
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <td>O <td>B <td>A</td> </td></td>	O <td>B <td>A</td> </td>	B <td>A</td>	A
AFW MOTOR	A <td>N</td> <td>B</td> <td>A</td>	N	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E
FANS				
HVE 1A	A		1B	A
HVE 2A	O		2B	A
HVE 5A	A		5B	A
HVE 15	A		15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 10:45

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
LOWER (MPH) _____
WIND DIR. UPPER (° FROM) _____
LOWER (° FROM) _____
AIR TEMPERATURE (°F) _____
PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
R-2 CONT. AREA (MR/HR) 10
R-3 HP WORK AREA .3
R-4 CHG. PUMP RM (MR/HR) 65
R-5 SPENT FUEL PIT (MR/HR) .4
R-6 SAMPLING ROOM (MR/HR) .5
R-7 IN-CORE INST (MR/HR) 5
R-8 DRUM. RM. (MR/HR) 5
R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
R-12 CV VENT GAS (CPM) 1.5K
R-14 PLT VNT GAS (CPM) 1K
R-15 COND. AIR EJEC. (CPM) 35
R-16 CV FAN CW (CPM) 1.5K
R-17 COMP. CW (CPM) 700
R-18 WASTE DISPOSAL (CPM) 100K
R-19A S/G A BLOWDOWN (CPM) 1K
R-19B S/G B BLOWDOWN (CPM) 1K
R-19C S/G C BLOWDOWN (CPM) 1K
R-20 FUEL HDLG BASE (CPM) 30
R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
R-31A "A" MN STM (MR/HR) 30
R-31B "B" MN STM (MR/HR) 30
R-31C "C" MN STM (MR/HR) 30
R-32A CV HI RG (R/HR) <1
R-32B CV HI RG (R/HR) <1
R-33 MON BLDG (MR/HR) <1
R-34 "P" PLT VNT (cpm) 200
R-34 "I" PLT VNT (cpm) 10
R-34 "NG" PLT VNT (cpm) 300
R-35 PLT VNT GAS (MID) (MR/HR) 1
R-36 PLT VNT GAS (HI) (MR/HR) 30
R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
TEMPERATURE (°F) 100
HYDROGEN CONC. (%) 0
SUMP LEVEL (INCHES) 0
RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
PZR LEVEL (%) 22.2
TAVE (°F) 547
LOOP A TH (°F) 547
TC (°F) 547
ΔT 0
LOOP B TH (°F) 547
TC (°F) 547
ΔT 0
LOOP C TH (°F) 547
TC (°F) 547
ΔT 0

SUBCOOLING (°F) 108°
CHRGNG FLOW (GPM) 45
LETDOWN FLOW (GPM) 45
REACTOR POWER 50cps 100cps
ACTIVITY:
GROSS (uCi/ml) 4.85E-1
I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
PRESS (PSIG) 1000
FEED (PPH) .02x10⁶
STEAM (PPH) .02x10⁶
ACT. (uCi/ml) ND
S/G B LEV.-WR (%) 63.7
PRESS (PSIG) 1000
FEED (PPH) .02x10⁶
STEAM (PPH) .02x10⁶
ACT. (uCi/ml) ND
S/G C LEV.-WR (%) 63.7
PRESS (PSIG) 1000
FEED (PPH) .02x10⁶
STEAM (PPH) .02x10⁶
ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME NA
RESET: TIME NA
CS ACTUATED: TIME NA
RESET: TIME NA
CONT. ISO. A ACTUATED: TIME NA
RESET: TIME NA
CONT. ISO. B ACTUATED: TIME NA
RESET: TIME NA
SPRAY ADD TANK LEVEL (%) 67
SI COLD-LEG FLOW (GPM) 0
SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	O	2	O	3	O	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <td>O<td>B<td>A</td></td></td>	O <td>B<td>A</td></td>	B <td>A</td>	A
AFW MOTOR	A <td>N</td> <td>B</td> <td>A</td>	N	B	A
AFW STEAM	INOPER			
MSIV	A <td>O<td>B</td><td>O</td></td>	O <td>B</td> <td>O</td>	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E

FANS

HVE 1A	A	1B	A
HVE 2A <td>O</td> <td>2B</td> <td>A</td>	O	2B	A
HVE 5A <td>A</td> <td>5B</td> <td>A</td>	A	5B	A
HVE 15 <td>A</td> <td>15A</td> <td>A</td>	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 11:00

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 60
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CS ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. A ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. B ACTUATED: TIME _____ N
 RESET: TIME _____ N
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	O		
COND PUMP	A	O	B	A		
AFW MOTOR	A	N	B	A		
AFW STEAM	INOPER					
MSIV	A	O	B	O	C	O

ELECTRICAL

EDG	A	A	B	A		
DS/DG	A					
OFFSITE	E					
EMER. BUS E1	E		E2	E		
FANS						
HVE 1A	A		1B	A		
HVE 2A	O		2B	A		
HVE 5A	A		5B	A		
HVE 15	A		15A	A		

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 11:15

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

-11 CV VENT PART. (CPM) 50K
 -12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 -37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps

ACTIVITY:

GROSS (uCi/ml) 4.85E-1
¹³¹I (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A		
COND PUMP	A	O	B	A		
AFW MOTOR	A	N	B	A		
AFW STEAM	INOPER					
MSIV	A	O	B	O	C	O

ELECTRICAL

EDG	A	A	B	A		
DS/DG	A					

OFFSITE

EMER. BUS E1	E	E2	E
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FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 11:30

Completed By:

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps
 ACTIVITY:
 GROSS (uCi/ml) 4.85E-1
 I¹³¹ (uCi/ml) 1.33E-3

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) _____ C
 SI HOT-LEG INJECT START _____ NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <td>O <td>B <td>A</td> </td></td>	O <td>B <td>A</td> </td>	B <td>A</td>	A
AFW MOTOR	A <td>N</td> <td>B</td> <td>A</td>	N	B	A
AFW STEAM	INOPER			
MSIV	A <td>O <td>B <td>O</td> </td></td>	O <td>B <td>O</td> </td>	B <td>O</td>	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	E
FANS				
HVE 1A	A	1B	A	
HVE 2A	O	2B	A	
HVE 5A	A	5B	A	
HVE 15	A	15A	A	

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 11:45

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps
 ACTIVITY:
 GROSS (uCi/ml) 2.27E-00
¹³¹I (uCi/ml) 3.31E-1

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CS ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. A ACTUATED: TIME _____ N
 RESET: TIME _____ N
 CONT. ISO. B ACTUATED: TIME _____ N
 RESET: TIME _____ N
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <th>O</th> <th>B</th> <th>A</th>	O	B	A
AFW MOTOR	A <th>N</th> <th>B</th> <th>A</th>	N	B	A
AFW STEAM	INOPER			
MSIV	A <th>O</th> <th>B</th> <th>O</th>	O	B	O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E	E2	E	
FANS				
HVE 1A	A	1B	A	
HVE 2A	O	2B	A	
HVE 5A	A	5B	A	
HVE 15	A	15A	A	

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 12:00

Completed By:

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (* FROM) _____
 LOWER (* FROM) _____
 AIR TEMPERATURE (*F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (*F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (*F) 547
 LOOP A TH (*F) 547
 TC (*F) 547
 ΔT 0
 LOOP B TH (*F) 547
 TC (*F) 547
 ΔT 0
 LOOP C TH (*F) 547
 TC (*F) 547
 ΔT 0

SUBCOOLING (*F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps

ACTIVITY:

GROSS (uCi/ml) 2.27E-00
¹³¹I (uCi/ml) 3.31E-1

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME N/
 RESET: TIME N/
 CS ACTUATED: TIME N/
 RESET: TIME N/
 CONT. ISO. A ACTUATED: TIME N/
 RESET: TIME N/
 CONT. ISO. B ACTUATED: TIME N/
 RESET: TIME N/
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) C
 SI HOT-LEG INJECT START N/

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A	O	B	A
AFW MOTOR	A	N	B	A
AFW STEAM	INOPER			
MSIV	A	O	B	O
C				O

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			

OFFSITE

E			
---	--	--	--

EMER. BUS

E1	E	E2	E
----	---	----	---

FANS

HVE 1A	A	1B	A
HVE 2A	O	2B	A
HVE 5A	A	5B	A
HVE 15	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 12:15

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps
 ACTIVITY:

GROSS (uCi/ml) 2.27E-00
¹³¹I (uCi/ml) 3.31E-1

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CS ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. A ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 CONT. ISO. B ACTUATED: TIME _____ N/
 RESET: TIME _____ N/
 SPRAY ADD TANK LEVEL (%) 6
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____ N/

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <th>O</th> <th>B</th> <th>A</th>	O	B	A
AFW MOTOR	A <th>N</th> <th>B</th> <th>N</th>	N	B	N
AFW STEAM	INOPER			
MSIV	A <th>O</th> <th>B</th> <th>O</th>	O	B	O
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	
EMER. BUS E2	E		E	

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			
OFFSITE	E			
EMER. BUS E1	E		E2	
EMER. BUS E2	E		E	
FANS				
HVE 1A	A		1B	
HVE 2A	O		2B	
HVE 5A	A		5B	
HVE 15	A		15A	

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS

EMERGENCY CLASSIFICATION (CIRCLE)

NOTIFICATION OF UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

Date: August 2, 1988

Time: 12:30

Completed By: _____

ENVIRONMENTAL SYSTEMS

WIND SPEED UPPER (MPH) _____
 LOWER (MPH) _____
 WIND DIR. UPPER (° FROM) _____
 LOWER (° FROM) _____
 AIR TEMPERATURE (°F) _____
 PASQUILL STAB. FACTOR _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (MR/HR) <.1
 R-2 CONT. AREA (MR/HR) 10
 R-3 HP WORK AREA .3
 R-4 CHG. PUMP RM (MR/HR) 6
 R-5 SPENT FUEL PIT (MR/HR) .4
 R-6 SAMPLING ROOM (MR/HR) .5
 R-7 IN-CORE INST (MR/HR) 5
 R-8 DRUM. RM. (MR/HR) 5
 R-9 FAILED FUEL (MR/HR) 20

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) 50K
 R-12 CV VENT GAS (CPM) 1.5K
 R-14 PLT VNT GAS (CPM) 1K
 R-15 COND. AIR EJEC. (CPM) 35
 R-16 CV FAN CW (CPM) 1.5K
 R-17 COMP. CW (CPM) 700
 R-18 WASTE DISPOSAL (CPM) 100K
 R-19A S/G A BLOWDOWN (CPM) 1K
 R-19B S/G B BLOWDOWN (CPM) 1K
 R-19C S/G C BLOWDOWN (CPM) 1K
 R-20 FUEL HDLG BASE (CPM) 30
 R-21 FUEL HDLG UPPER (CPM) 20

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (MR/HR) <1
 R-31A "A" MN STM (MR/HR) 30
 R-31B "B" MN STM (MR/HR) 30
 R-31C "C" MN STM (MR/HR) 30
 R-32A CV HI RG (R/HR) <1
 R-32B CV HI RG (R/HR) <1
 R-33 MON BLDG (MR/HR) <1
 R-34 "P" PLT VNT (cpm) 200
 R-34 "I" PLT VNT (cpm) 10
 R-34 "NG" PLT VNT (cpm) 300
 R-35 PLT VNT GAS (MID) (MR/HR) 1
 R-36 PLT VNT GAS (HI) (MR/HR) 30
 R-37 CONDENSATE POLISHER (CPM) 10

CONTAINMENT STATUS

PRESSURE (PSIG) .18
 TEMPERATURE (°F) 100
 HYDROGEN CONC. (%) 0
 SUMP LEVEL (INCHES) 0
 RWST LEVEL (%) 91

PRIMARY SYSTEM

RCS PRESSURE (PSIG) 2235
 PZR LEVEL (%) 22.2
 TAVE (°F) 547
 LOOP A TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP B TH (°F) 547
 TC (°F) 547
 ΔT 0
 LOOP C TH (°F) 547
 TC (°F) 547
 ΔT 0

SUBCOOLING (°F) 108°
 CHRGNG FLOW (GPM) 30
 LETDOWN FLOW (GPM) 45
 REACTOR POWER 50cps 100cps

ACTIVITY:

GROSS (uCi/ml) 2.27E-00
¹³¹I (uCi/ml) 3.31E-1

SECONDARY SYSTEM

S/G A LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G B LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND
 S/G C LEV.-WR (%) 63.7
 PRESS (PSIG) 1000
 FEED (PPH) .02x10⁶
 STEAM (PPH) .02x10⁶
 ACT. (uCi/ml) ND

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CS ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. A ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 CONT. ISO. B ACTUATED: TIME _____ NA
 RESET: TIME _____ NA
 SPRAY ADD TANK LEVEL (%) 67
 SI COLD-LEG FLOW (GPM) C
 SI HOT-LEG INJECT START NA

EQUIPMENT STATUS

N = NOT AVAILABLE

A = AVAILABLE (NOT OPERATING)

O = OPERATING

E = ENERGIZED

PRIMARY

RCP	A	O	B	O	C	O
CHG PUMP	A	N	B	N	C	O
SI-PUMP	A	A	B	N	C	A
CS PUMP	A	A	B	A		
RHR PUMP	A	A	B	A		
HVH 1	0	2	0	3	0	4

SECONDARY

FEED PUMP	A	O	B	A
COND PUMP	A <th>O</th> <th>B</th> <th>A</th>	O	B	A
AFW MOTOR	A <th>N</th> <th>B</th> <th>A</th>	N	B	A
AFW STEAM	INOPER			

ELECTRICAL

EDG	A	A	B	A
DS/DG	A			

OFFSITE

EMER. BUS E1	E	E2	E
FANS			

HVE 1A	A	1B	A
HVE 2A <th>O</th> <th>2B</th> <th>A</th>	O	2B	A
HVE 5A <th>A</th> <th>5B</th> <th>A</th>	A	5B	A
HVE 15 <th>A</th> <th>15A</th> <th>A</th>	A	15A	A

LEGEND:

OSH = OFF SCALE HIGH

OSL = OFF SCALE LOW

OOS = OUT OF SERVICE

ISOL = ISOLATED

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.3 METEOROLOGICAL
DATA

METEOROLOGICAL DATA

Actual meteorological data will be used on August 2, 1988, from the On-site Meteorological Monitoring System at RNPD. Forecast meteorological conditions from the CP&L Corporate Weather Center in Raleigh will be for actual events during the exercise.

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.4 RADIOLOGICAL INFORMATION

SUBSECTIONS:

- 3.4-A IN-PLANT RADIOCHEMISTRY SAMPLING DATA
- 3.4-B IN-PLANT MONITOR READINGS AND ONSITE SURVEY DATA
- 3.4-C OFFSITE PLUME MONITORING DATA

The Radiological Information Section of this scenario manual contains the time-related data and information needed to conduct the radiological aspects of this exercise. This section contains onsite and offsite field monitoring maps, in-plant area radiation readings, in-plant radiochemistry data, and field monitoring data. As appropriate, controllers will provide this information and data to the "players" upon request.

Time-related in-plant radiochemistry data is provided in Subsection A for key systems affected by the scenario. Concentration data is provided by isotope in units of uCi/ml for the reactor coolant system, containment atmosphere, and auxiliary building atmosphere. Time frames at top of page are based on the time at which the sample is collected, not when it is analyzed.

Time-related onsite radiological monitoring data is provided in Subsection B. Information is provided for in-plant surveys. Readings for key in-plant areas and process radiation monitors are provided in Section 3.1, Plant Parameters on the SPDS/Plant Status Sheets.

Time-related offsite radiological monitoring data is contained in Subsection C.

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ANNUAL EXERCISE

3.4-A IN-PLANT RADIOCHEMISTRY SAMPLING DATA

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.4-B IN-PLANT MONITOR READINGS AND ONSITE SURVEY DATA

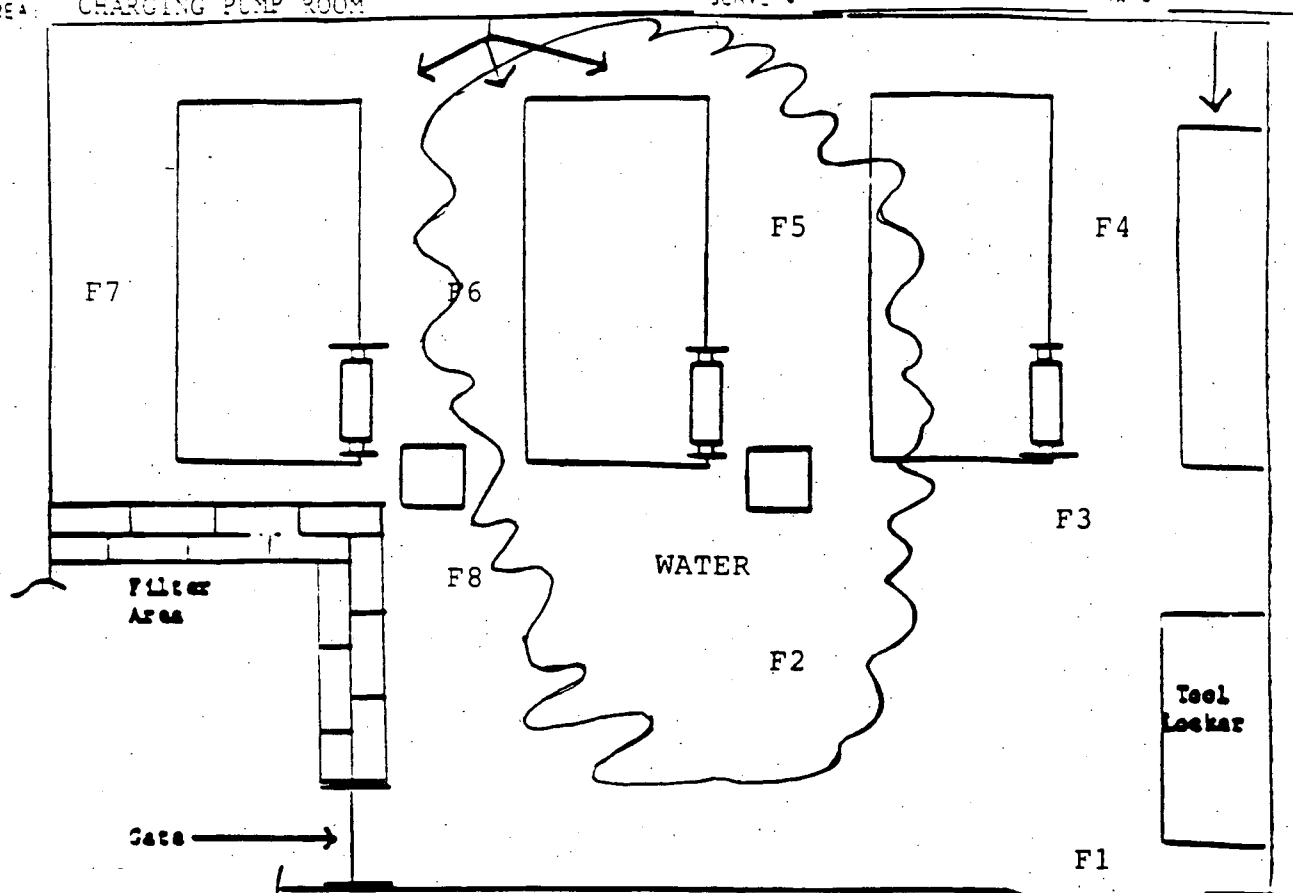
SURVEY MAP #1

TIME: ~10:55

ROOM OR AREA: CHARGING PUMP ROOM

SURVEY

2424



PERFORMED BY:

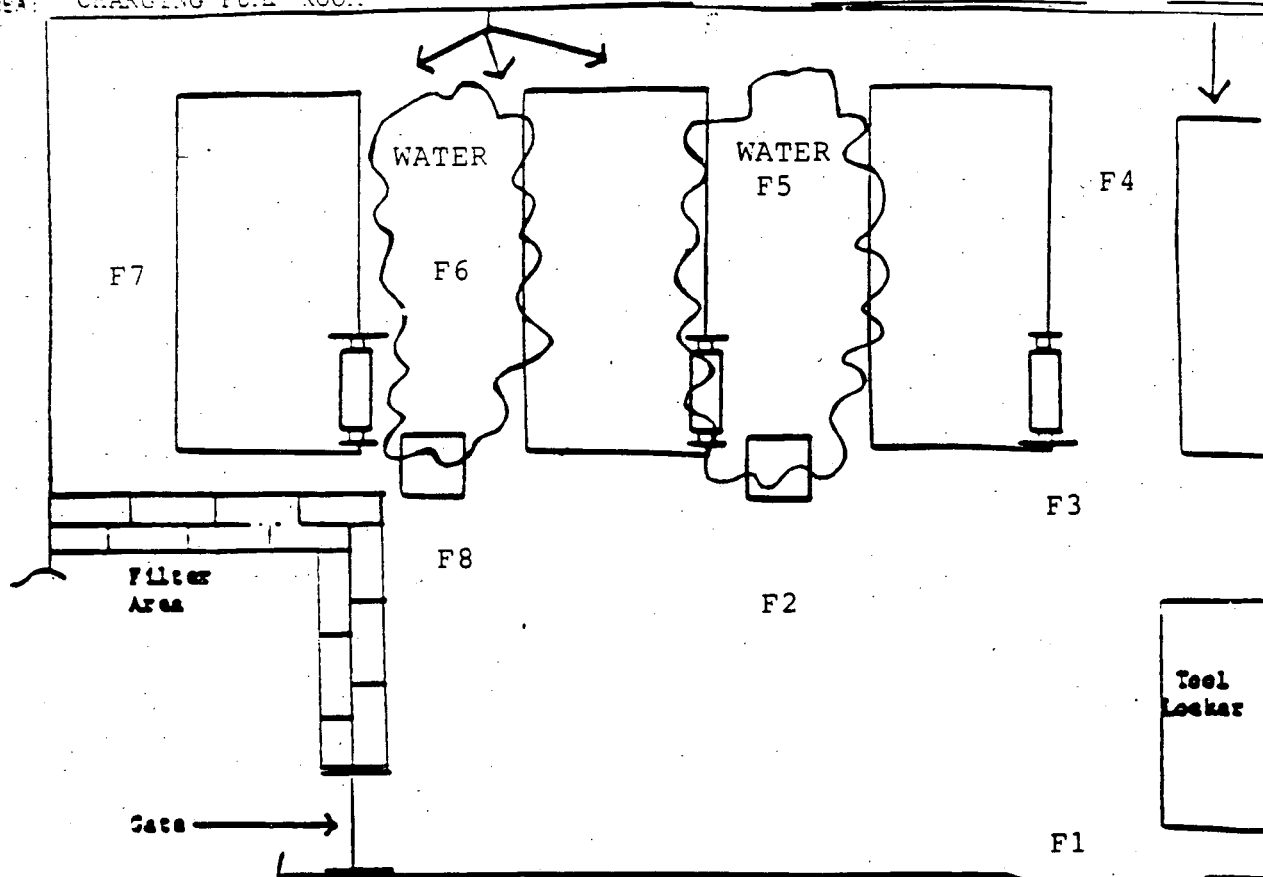
DATE:

TIME:

[illegible]

SURVEY

2504



PERFORMED BY:

DATE:

TIME:

[illegible]

COMMENTS:

INSTRUMENT	
TYPE	SERIAL #
1	1
2	2
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97	97
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99	99
100	100

42222. 17 02 1917

L-2A: Locked - -234 -76

Page 10

-CA: 41-Contamination
Area

CA: Contamination and

CPEA: Contam. Process
Equip. Area

TRA: 4-acre Red Area

24: 230 4744

2MA: 233 Material: 233

SCP: S-20-01-230

הח' 1000, 1000, 1000

100-100000

4. For Spent Lead: 2

Page: 3.

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1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

3.4-C OFFSITE PLUME MONITORING DATA

OFFSITE PLUME MONITORING DATA

During the 1988 RNPDP EP Exercise, a release of radiological material will not occur. Thus, all requests for field monitoring data will show only normal background values.

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
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4.0 CONTROLLERS' INSTRUCTIONS

B.

INSTRUCTIONS FOR CONTROLLERS

1. Personnel are assigned as controllers or evaluators at all key function areas to monitor and control the exercise. In addition, they will accompany Radiological Monitoring Teams, Plant Health Physics Personnel, and Maintenance Repair/Rescue Teams.
2. The in-plant controllers will be coordinated by the Exercise Lead Controller located in the TSC (Ext. 4015). He/she will be responsible for the overall conduct of the exercise scenario. If unable to reach the Exercise Lead Controller, contact the TSC Lead Controller (Ext. 4015).
3. Message forms and simulated control room data will be used to initiate, modify, and complete the events comprising the overall scenario. Selected controllers will use the message forms to place the scenario events in effect and to trigger responses from the involved emergency response organizations. Each controller will have copies of the messages controlling the portion of the exercise scenario for which he/she is responsible.

Two kinds of messages will be used:

Control

Messages used as a primary means of implementing scenario events by announcing or placing an event in effect by hypothetical conditions resulting from previous actions.

Contingency

Messages used with the approval of the Exercise Lead Controller in order to maintain the scenario plan continuity or schedule. Control messages will be presented to the designated exercise participant at the time specified in the event schedule. The controller should follow up with an explanation of the message and answer questions to ensure that the participant understands the message.

Controllers will not provide information to the participants regarding scenario development or resolution of problem areas encountered. The participants are expected to obtain information through their own organization and exercise their own judgement in determining response actions and resolving problems.

4. Note that the scenario events are hypothetical. Any portion of the scenario depicting Plant system operational transients are simulated events. No control room actions or reactions involving operation of Plant systems or affecting generation capability will be initiated. All exercise scenario messages will be prefixed and suffixed with the words "THIS IS A DRILL." Controllers stationed at areas vital to maintaining generating capability should be especially aware and take extra precautions in issuing messages or giving instructions regarding the scenario events.

5. Required controllers have the time-related Plant and radiological parameters of the exercise scenario. This information shall be issued to the appropriate exercise participants.
6. Some exercise participants may insist that certain parts of the scenario are unrealistic. The controllers and evaluators have the authority, with the approval from the Lead controllers, to clarify any questions regarding scenario validity. In some cases, it may be necessary to exercise specific instructions to preserve the continuity and objective of the exercise. Instructions however, should be made in such a manner so as NOT TO PROMPT players to make a specific response.
7. Prior to exercise commencement, all telecommunications should be tested to ensure satisfactory communications between the Lead Controllers and all other controllers (per exercise ring down).
8. Controllers will commence their assignments at assembly locations for players that they are to observe or as directed by the Lead Controllers.
9. Players are not allowed to introduce problems or events into the exercise or its scenario. Free play however, should be encouraged wherever possible, so long as the players actions do not affect the overall scenario or the reaching of objectives of the exercise. When free play occurs, the Lead Controller or Exercise Director should be informed and have final authority to decide if such actions are consistent with overall exercise objectives.

A. EXERCISE CONTROL ORGANIZATION

AUGUST 2, 1988

<u>NAME</u>	<u>ASSIGNMENT</u>	<u>PHONE NUMBER</u>
ROBERT G. BLACK, JR.	CORP. EXERCISE DIRECTOR	....
MIKE MORROW	LEAD CONTROLLER	-4015/-1412
BOB INDELICATO	LEAD EVALUATOR	....
BOB STEELE	LEAD CONTROL ROOM	-4027
RUSS MUTH	CONTROL ROOM (COMMUNICATIONS)	....
BILL BLAISDELL	CONTROL ROOM	....
<i>Carson Wright</i>		
BRIAN MCFEATERS	LEAD TSC	-4020/-4043
BILL TROLENBERG	TSC (ENVIRON., DOSE PROJ.)	....
MARVIN PAGE	TSC (ACCIDENT ASSESSMENT)	....
RICHARD BALDWIN	LEAD OSC	-4249/-1389
CLYDE HAWLEY	OSC (RADIOLOGICAL)	....
CARL JERNIGAN	OSC (MAINT. - MECHANICAL)	....
MIKE FALES	OSC (MAINT. - MECHANICAL)	....
BOB HAMMOND	OSC (PLANT TEAM)	....
KARL NEUSCHAEFER	OSC (PLANT TEAM)	....
MIKE BLOCKER	OSC (PLANT TEAM)	....
RONNIE ELMORE	OSC (MAINT. - ELECTRICAL)	....
MACK GRIFFIN	OSC (MAINT. - ELECTRICAL)	....
BOB INDELICATO	LEAD EOF	-4051
ELIZABETH BEAN	EOF (COMMUNICATIONS)	....
BILLY SMITH	EOF	....
DAVE MARKLE	LEAD FIRE	P.A.
LARRY WILLIAMS	LEAD SECURITY	-4010
ALBERT GARROU	LEAD CORP. MEDIA CENTER	(919) 836-8415
TAMMI DUNN	CORP. MEDIA CENTER	OR 770-8415

GAIL BOWEN

ROVING CONTROLLER

* BOTH STATE AND COUNTY WILL TAKE COMMUNICATIONS VIA SELECTIVE SIGNALING SYSTEM DURING THE EXERCISE.

* INITIAL NRC NOTIFICATION VIA RED PHONE WILL BE MADE. SUBSEQUENT MESSAGES PER NRC INSTRUCTIONS DURING INITIAL COMMUNICATION. (CONTORGA)

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

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5.0 EVALUATORS' INSTRUCTIONS

A. EVALUATORS' RULES

1. Know the overall Controller/Evaluator Organization.
2. Identify the players by name and function.
3. Identify yourself at all times to all players. Wear identification as provided (controller/evaluator badges or arm bands).
4. Identify the phone (or radio for field teams) you will use to maintain communications with Lead Controllers.
5. Position yourself to maximize your effectiveness in issuing messages and observing the players.
6. Be sure you understand the players' scenario script and the master scenario.
7. If acting as a Controller/Evaluator, keep the play on schedule by checking your script.
8. If acting as a Controller/Evaluator, issue the message on time. Make sure the players understand it.
9. If acting as a Controller/Evaluator, remember to call the Exercise Lead Controller to report on status of players' actions if off schedule or if in doubt about what to do. Call for advice if players depart significantly from the scenario script.
10. Allow the players reasonable flexibility to perform their functions and demonstrate their skill, knowledge, and initiative.
11. Identify the federal evaluators. Make sure they are aware of all your actions and those of the players.
12. Make notes on good and bad points of players' actions, the strengths and weaknesses, and areas for improvements.
13. Attend the post-exercise critique session to provide your comments and recommendations to the Lead Controller.
14. Identify the players' leaders. Work with them as appropriate.
15. If a real emergency occurs and this affects the players, call off your portion of the exercise and notify the Exercise Lead Controller immediately.
16. Be at your post at least 30 minutes prior to any player action commencement.
17. The federal evaluators will work through the Exercise Director or the Exercise Lead Controller. This is essential for the success of the exercise.

18. Controllers and federal evaluators do not have to follow the radiation exposure control practices appropriate for the simulated radiation levels. However, the players must follow the radiation protection rules. Controllers and evaluators will be exempt from accountability and have access to all areas.

GENERAL "DON'Ts" FOR EVALUATORS

1. Don't leave your post at key times.
2. Don't prompt the players to take action.
3. Don't coach the players.
4. Don't criticize the players' actions during the play.
5. Don't forget to call the Lead Controller to seek advice or help as necessary.
6. Don't allow the media/other external influences to distract the players. No interviews with players are allowed.
7. Don't allow simulation when equipment and facilities are available except for causing flow discharge of fire extinguishers, etc.

*** NOTE ***

All participants will comply with radiation exposure control practices for actual conditions existing at the station at the time of the exercise.

Critique Worksheets/Evaluation Checklists

In an effort to help evaluators, a set of "Evaluation Checklists" have been provided for reference in Section 5.0. Each evaluator may, if he/she chooses, utilize the checklists for their particular area of observation to assist in being sure that critical items for evaluation are not accidentally missed during the exercise. A "Critique Worksheet" in Section 5.0 has also been provided as a means to assist in the completion of the "Drill Critique Form." The "Evaluation Checklists" and the "Critique Worksheets" may be completed and returned to the Chief Evaluator for the exercise upon completion of the critique process; however, this is optional.

Evaluators have been provided in Section 6.0 of this exercise plan, a "Controller's Log Sheet" which is to be used to record events which have been observed during the exercise. These sheets are to be used by both controllers and evaluators for the purpose of documenting times and events which have occurred so that upon conducting the critique, specific facts can be presented. It is important that the time of the event observed be recorded so that if those actions affect several emergency facilities, a coordinated review of the chronological sequence of events may be reconstructed during the critique.

Additionally, a "Drill Critique Form" has been provided in Section 6.0 to summarize the observations which the evaluators have made during the exercises. Of the ten questions on the form, Questions 8 and 9 will require the most effort on the part of the evaluator to complete in an accurate manner. In responding to Question 8 of the "Drill Critique Form," only those observations which are clearly outstanding need to be noted. In addition to noting the outstanding action, it is important to include (if possible) the name of the individual(s) observed so that recognition of their achievement may be included in the final exercise report. Response to Question 9 on the "Drill Critique Form" is to include those observations which are deficiencies from the emergency plan, the implementing procedure, or the objectives for the exercise as stated in Section 2.0 of this exercise plan. It is very important that deficiencies be related directly to a specific item from the three mentioned documents. If possible, provide the exact procedure reference, plan reference, or exercise objective number with the noted deficiency and your recommendation for corrective action as a response to Question 9. Finally, your observations are an important part of the exercise critique since each controller/evaluator has been selected for their assignment based upon their background or experience in the particular function assigned. Observations allow the whole organization an opportunity for improvement and provide a viewpoint for future consideration, but must be listed differently than deficiencies under Question 9 so that proper consideration can be given. In responding to all three areas (strengths, deficiencies, and observations), additional sheets of paper may be attached to the "Drill Critique Form" for completion of the evaluators' response.

It is required that by conclusion of the evaluators critique, the "Drill Critique Form" and the "Controller's Log Sheets" can be returned to the Lead Evaluator or to the Chief Evaluator. Further comments or observations which an evaluator may wish to elaborate upon and document should be made in the form of a written report to the Chief Evaluator within 5 working days from the conclusion of the exercise. This written information should be further detail or observations which are not of a critical nature to the evaluation process, since two of the exercise objectives are to demonstrate the ability to conduct a post-exercise critique to determine areas requiring corrective actions.

EVALUATION CHECKLISTS

-Control Room Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1.	Did the operators respond quickly to the initiating events and properly assess the situation	_____	_____	_____
2.	Did the Control Room personnel take appropriate actions to mitigate the emergency condition in an expeditious manner?	_____	_____	_____
3.	Were appropriate abnormal conditions and emergency operations procedures used and periodically reviewed during the emergency situation?	_____	_____	_____
4.	Did the Shift Foreman receive immediate notification of the emergency condition?	_____	_____	_____
5.	Were there sufficient measurable/observable indications to recognize the Emergency Action Levels?	_____	_____	_____
6.	Were classifications of the emergency conditions timely and accurate?	_____	_____	_____
7.	Did Control Room personnel know when to refer to the emergency plan implementing procedures and which procedures to use?	_____	_____	_____
8.	Was the emergency classification upgraded or downgraded when appropriate?	_____	_____	_____
9.	Did the Shift Foreman promptly assume control and authority?	_____	_____	_____
10.	Did the Shift Foreman initiate the correct response actions to implement onsite and offsite assessment and protective response measures?	_____	_____	_____
11.	Were such measures implemented in a prompt and well throughout manner?	_____	_____	_____
12.	If an emergency condition required corrective action in-plant, was a team assembled and briefed in a timely manner?	_____	_____	_____
13.	Did the Shift Foreman practice efficient use of available personnel?	_____	_____	_____
14.	Was assistance requested from the appropriate emergency response organizations?	_____	_____	_____

-Control Room Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
15.	Were personnel aware of their emergency response roles and functions?	_____	_____	_____
16.	Did the Shift Foreman review the declared emergency classification(s) with the Site Emergency Coordinator upon his arrival at the TSC?	_____	_____	_____
17.	Were appropriate decision-making responsibilities transferred to the TSC upon its activation?	_____	_____	_____
18.	Were manpower and staffing requirements for protracted operations assessed?	_____	_____	_____
19.	Were notification procedures available and used for mobilizing onsite emergency response personnel and augmenting the emergency response staff?	_____	_____	_____
20.	Were emergency response phone listings available, complete, and up-to-date?	_____	_____	_____
21.	Were initial and follow-up notification forms readily available and properly completed?	_____	_____	_____
22.	Did the Control Room communicators appear to understand and use the communications equipment and systems effectively?	_____	_____	_____
23.	Did Control Room personnel transmit data in a timely and knowledgeable manner?	_____	_____	_____
24.	Did the Control Room communicators use the statement, "this is a drill," or a similar statement?	_____	_____	_____
25.	Were communications links checked?	_____	_____	_____
26.	Were all communication networks operational?	_____	_____	_____
27.	Were communications adequate to ensure that the flow of information was timely, effective, and efficient?	_____	_____	_____
28.	Were dedicated communication links with the TSC, EOF, and OSC available and used?	_____	_____	_____

-Control Room Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
29.	Were general status announcements or periodic updates provided to Control Room personnel throughout the emergency?	_____	_____	_____
30.	Was the plant page-party system used to apprise emergency workers of changes in the status of the emergency situation?	_____	_____	_____
31.	Was there a proper flow of data between the TSC and the Control Room?	_____	_____	_____
32.	Were Control Room logs maintained?	_____	_____	_____
33.	Did operators obtain the appropriate information necessary to Support dose projection calculations?	_____	_____	_____
34.	Did operators obtain release rate and offsite dose assessment information from the appropriate radiological monitoring systems when required?	_____	_____	_____
35.	Was a calculator or computer immediately available for performing dose projection calculations?	_____	_____	_____
36.	Were dose projection calculations performed efficiently and accurately?	_____	_____	_____
37.	Were emergency supplies and equipment, such as respirators and protective clothing available to Control Room personnel?	_____	_____	_____
38.	Was the ambient noise level in the Control Room acceptable?	_____	_____	_____
39.	Was access to the Control Room restricted to specific individuals?	_____	_____	_____
40.	Was a post-drill/exercise critique held to evaluate Control Room performance?	_____	_____	_____

-Technical Support Center (TSC) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1.	Was the TSC activated automatically upon the declaration of an Alert?	_____	_____	_____
2.	Did emergency response personnel assigned to the TSC report in a timely manner?	_____	_____	_____
3.	Were TSC personnel aware of their assigned work areas?	_____	_____	_____
4.	Were TSC personnel familiar with their assigned duties and responsibilities?	_____	_____	_____
5.	Did applicable personnel in the TSC refer to and utilize their checklists?	_____	_____	_____
6.	Did TSC personnel have up-to-date phone listings for onsite and offsite contacts?	_____	_____	_____
7.	Was command control authority transferred from the Control Room to the TSC according to procedures?	_____	_____	_____
8.	Did communications contain the statement "this is a drill," or a similar statement?	_____	_____	_____
9.	Did the Site Emergency Coordinator formally accept the transfer of responsibilities from the Control Room?	_____	_____	_____
10.	Was the TSC formally declared operational by the Site Emergency Coordinator?	_____	_____	_____
11.	Were TSC personnel informed of the change of command?	_____	_____	_____
12.	Did the Site Emergency Coordinator demonstrate the ability to maintain command control over all emergency response activities conducted from the TSC?	_____	_____	_____
13.	Were plant status briefings periodically conducted by the Site Emergency Coordinator?	_____	_____	_____
14.	If necessary, did the Site Emergency Coordinator make offsite protective action recommendations in a proper and timely manner?	_____	_____	_____

-Technical Support Center (TSC) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
15.	Were manpower and staffing requirements for protracted operations assessed?	_____	_____	_____
16.	Did TSC personnel demonstrate, if necessary, the ability to identify the need for outside assistance when station capabilities were exceeded?	_____	_____	_____
17.	Did TSC personnel demonstrate the ability to classify the emergency condition in a timely manner?	_____	_____	_____
18.	Did technical personnel demonstrate their ability to react to escalating emergency classification?	_____	_____	_____
19.	Did the TSC Accident Assessment Team demonstrate the ability to gather, assess, and disseminate information to help mitigate the emergency conditions?	_____	_____	_____
20.	Did the TSC staff adequately Support the Control Room staff's efforts to identify the cause of an incident, mitigate the consequences of that incident, and place the unit in a safe and stable conditions?	_____	_____	_____
21.	Did TSC personnel demonstrate the ability to respond to mitigating circumstances and properly de-escalate the emergency situation?	_____	_____	_____
22.	Were the notification procedures available and used for mobilizing onsite emergency response personnel and augmenting the emergency response staff?	_____	_____	_____
23.	Were communication links established with other emergency response facilities in a timely manner?	_____	_____	_____
24.	Did TSC personnel properly communicate with:			
	a. Control Room?	_____	_____	_____
	b. OSC?	_____	_____	_____
	c. EOF?	_____	_____	_____

-Technical Support Center (TSC) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
25.	Did the Logistic Support Director notify the Emergency Security Team Leader of anticipated emergency vehicle access to the site necessary to Support emergency response activities?	_____	_____	_____
26.	Were necessary modifications to the security program coordinated with the Emergency Security Team Leader Coordinator?	_____	_____	_____
27.	Were the periodic follow-up notifications conducted per procedure?	_____	_____	_____
28.	Were the initiating conditions or events posted on Plant Status Boards in a timely fashion?	_____	_____	_____
29.	Were the subsequent plant status reports posted in a timely manner?	_____	_____	_____
30.	Did the TSC have suitable communications with the field monitoring teams?	_____	_____	_____
31.	Were the initial radiological conditions ascertained in a timely manner?	_____	_____	_____
32.	Did the Dose Assessment Coordinator receive proper data to be able to assess radiological conditions (e.g., meteorological data and release rate data)?	_____	_____	_____
33.	Did the TSC receive prompt information regarding permanent and portable radiological monitoring results?	_____	_____	_____
34.	Was effluent sampling information available?	_____	_____	_____
35.	Were the correct procedures and methods used for making dose projection calculations?	_____	_____	_____
36.	Were dose projections performed in a timely manner?	_____	_____	_____
37.	Was there a clear interface between the TSC staff and field monitoring teams?	_____	_____	_____

-Technical Support Center (TSC) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
38.	Did the Radiological Assessment Coordinator adequately coordinate the activities of the Onsite Survey Teams with those of the Radiological Monitoring Teams?	_____	_____	_____
39.	Were habitability surveys initiated by the Radiological Assessment Coordinator?	_____	_____	_____
40.	Was the TSC monitored for radiological hazards?	_____	_____	_____
41.	Did TSC personnel demonstrate the ability to properly define protective action recommendations?	_____	_____	_____
42.	Did the TSC have sufficient protective equipment and supplies for the personnel assigned to the TSC?	_____	_____	_____
43.	Was the status of the TSC ventilation addressed?	_____	_____	_____
44.	Were procedures available to, and used by, TSC personnel?	_____	_____	_____
45.	Were technical resources and other information, such as as-built drawings, maps, and emergency plan implementing procedures, readily available?	_____	_____	_____
46.	Was the operational and functional adequacy of the TSC demonstrated during the drill/exercise?	_____	_____	_____
47.	Was the ambient noise level in the TSC acceptable?	_____	_____	_____
48.	Was a post-drill/exercise critique held to evaluate TSC performance?	_____	_____	_____

-Emergency Operations Facility (EOF) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1.	Was the Emergency Response Manager notified following the Notification of Unusual Event and Alert declarations?	_____	_____	_____
2.	Was the EOF activated in a timely manner?	_____	_____	_____
3.	Were EOF personnel aware of their assigned work areas?	_____	_____	_____
4.	Was the EOF activated as prescribed in the emergency plan implementing procedures?	_____	_____	_____
5.	Were security controls exercised concerning personnel permitted access to the EOF?	_____	_____	_____
6.	Was there a clear and precise transfer of responsibility from the TSC staff to the EOF staff?	_____	_____	_____
7.	Did the Emergency Response Manager declare the EOF operational prior to accepting full responsibility for offsite activities?	_____	_____	_____
8.	Did the Emergency Response Manager maintain command control over the emergency response activities conducted from the EOF?	_____	_____	_____
9.	Was there a clear dissemination of authority and control in the EOF organization?	_____	_____	_____
10.	Did the EOF staff initiate and coordinate activities in an efficient and timely manner?	_____	_____	_____
11.	Were procedures available to, and used by, EOF personnel?	_____	_____	_____
12.	Did EOF personnel have up-to-date phone listings for onsite and offsite emergency contacts?	_____	_____	_____
13.	Were current plant status announcements and periodic updates made?	_____	_____	_____
14.	Did communications contain the statement "this is a drill," or a similar statement?	_____	_____	_____
15.	Were appropriate EOF staff members aware of decisions regarding protective action recommendations for the general public and emergency workers within the 10-mile EPZ?	_____	_____	_____

-Emergency Operations Facility (EOF) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
16.	Did the EOF staff perform manpower projections to support contracted operations and notify the Administrative and Logistic Manager accordingly?	_____	_____	_____
17.	Did the EOF staff demonstrate the ability to obtain outside resources when station capabilities were exceeded?	_____	_____	_____
18.	Were communicators correctly assigned and communication checks performed in a timely fashion?	_____	_____	_____
19.	Were dedicated communication links available and operational?	_____	_____	_____
20.	Were the communication links between the EOF and other locations, including mobile personnel, effective?	_____	_____	_____
21.	Following changes in the emergency classification level, were notifications made to the proper authorities when required?	_____	_____	_____
22.	Did the EOF staff inform and update the appropriate County, State, and Federal emergency response personnel in a timely manner?	_____	_____	_____
23.	Did EOF personnel demonstrate the ability to gather, assess, and disseminate information regarding the status of emergency conditions and the status of emergency response activities in a timely manner?	_____	_____	_____
24.	Did the EOF staff demonstrate the ability to Support the TSC staff's efforts to identify the cause of an incident, mitigate the consequences of that incident, and place the unit in a safe and stable condition?	_____	_____	_____
25.	Did the EOF staff demonstrate the ability to analyze current plant conditions and identify projected trends and potential consequences?	_____	_____	_____
26.	Were there sufficient sources of technical expertise available and utilized?	_____	_____	_____
27.	Were technical resources and other information such as as-built drawings, maps, and emergency plan implementing procedures, readily available?	_____	_____	_____

-Emergency Operations Facility (EOF) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
28.	Were procedures and other necessary documents used?	_____	_____	_____
29.	Did the EOF staff demonstrate the ability to utilize vendor and other outside resources to assist accident analysis and mitigation efforts where necessary?	_____	_____	_____
30.	Did the Radiological Control Manager demonstrate the ability to perform offsite dose assessment activities in a timely manner?	_____	_____	_____
31.	Did the EOF staff demonstrate the ability to perform timely assessments of offsite radiological conditions to support the formulation of protective action recommendations?	_____	_____	_____
32.	Was there an adequate flow of information between State and RNPd radiological assessment personnel regarding offsite radiological conditions?	_____	_____	_____
33.	Did the EOF staff effectively direct and coordinate the Radiological Monitoring Teams' activities?	_____	_____	_____
34.	Were the EOF radiological assessment personnel in frequent communication with the Radiological Monitoring Teams?	_____	_____	_____
35.	Did the Radiological Control Manager demonstrate the ability to coordinate the activities of the Radiological Monitoring Teams with those of the Onsite Survey Teams?	_____	_____	_____
36.	Were the emergency plan implementing procedures effectively used to provide adequate protection to station personnel and the general public?	_____	_____	_____
37.	Was there good communication between EOF personnel, State, and Local authorities regarding the protective action recommendations?	_____	_____	_____
38.	Was the operational and functional adequacy of the EOF demonstrated?	_____	_____	_____
39.	Was the ambient noise level in the EOF acceptable?	_____	_____	_____

-Emergency Operations Facility (EOF) Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
40.	Did the EOF have sufficient protective equipment and supplies for personnel stationed in the EOF?	_____	_____	_____
41.	Did the EOF staff demonstrate, if appropriate, the ability to de-escalate the emergency response based on current plant conditions and projected trends?	_____	_____	_____
42.	Did the EOF staff remain involved through the de-escalation of the emergency situation?	_____	_____	_____
43.	Was the EOF staff able to identify and discuss appropriate reentry and recovery activities based on current or projected conditions?	_____	_____	_____
44.	Was a post-drill/exercise critique held to evaluate EOF performance?	_____	_____	_____

-Plant Monitoring Team Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1.	Did the team response to, and prepare for, survey tasks in a timely manner?	_____	_____	_____
2.	Did the team have the proper equipment?			
	a. Dosimetry?	_____	_____	_____
	b. Survey instruments?	_____	_____	_____
	c. Maps?	_____	_____	_____
	d. Protective clothing/respiratory protection equipment?	_____	_____	_____
	e. Radio?	_____	_____	_____
	f. Vehicle (if needed)?	_____	_____	_____
	g. Sampling equipment?	_____	_____	_____
3.	Prior to deployment, was the team adequately briefed regarding potential hazards and conditions?	_____	_____	_____
4.	Prior to deployment, was a team leader identified?	_____	_____	_____
5.	Were the survey instruments and radios functionally checked prior to starting on the survey and were the instrument calibrations current?	_____	_____	_____
6.	Was personnel dosimetry available and issued to the team members?	_____	_____	_____
7.	Were teams supplied with appropriate high-range personnel dosimeters?	_____	_____	_____
8.	Were emergency monitoring procedures available to, and used by, team personnel?	_____	_____	_____
9.	Were the capabilities in place for dealing with both heavily contaminated personnel and those individuals only slightly contaminated?	_____	_____	_____

-Plant Monitoring Team Controller-

	<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
10. Was respiratory protection equipment available and used while making the surveys?	_____	_____	_____
11. Were communications properly maintained?	_____	_____	_____
12. Did communications contain the statement "this is a drill," or similar statement?	_____	_____	_____
13. Upon return, was the team properly debriefed?	_____	_____	_____

-Environmental Monitoring Teams Controller-

	<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1. Did team members arrive at the staging area and prepare themselves in a timely manner?	_____	_____	_____
2. Was the team equipped with the following supplies:			
a. Survey instruments?	_____	_____	_____
b. Air samplers?	_____	_____	_____
c. Radio?	_____	_____	_____
d. Maps?	_____	_____	_____
e. Protective clothing?	_____	_____	_____
f. Respiratory protection equipment?	_____	_____	_____
3. With respect to the team's vehicle:			
a. Was it fully gassed?	_____	_____	_____
b. Were the keys readily available?	_____	_____	_____
c. Was a release survey completed prior to deployment?	_____	_____	_____
4. Prior to deployment, was a team leader identified?	_____	_____	_____
5. Prior to deployment, did team personnel perform preoperational checks on the following equipment:			
a. Radio?	_____	_____	_____
b. Survey meters?	_____	_____	_____
c. Sampling equipment?	_____	_____	_____
6. Were the instruments calibrated within the current calendar quarter or within the prescribed schedule?	_____	_____	_____
7. Was the team briefed prior to dispatch?	_____	_____	_____
8. Was the vehicle properly designed or modified to hold team members, and monitoring, protective, safety, and auxiliary equipment?	_____	_____	_____
9. Were there enough team members to adequately conduct survey and sampling activities?	_____	_____	_____
10. Was the vehicle and/or team equipped with an adequate radio system that permitted unimpeded transmission and reception of data and instructions?	_____	_____	_____

-Environmental Monitoring Teams Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
11.	Did the EOF provide adequate instructions regarding what measurements were to be performed?	_____	_____	_____
12.	Did the radio communications contain the statement, "this is a drill," or a similar statement?	_____	_____	_____
13.	Were radio communications clear, concise, and accurate?	_____	_____	_____
14.	Were communications properly maintained?	_____	_____	_____
15.	Did the Environmental Monitoring Coordinator exhibit good ALARA practices in directing team?	_____	_____	_____
16.	Was information transmitted to the EOF communicator in a timely manner?	_____	_____	_____
17.	Was the team kept apprised of the status of the emergency situation?	_____	_____	_____
18.	Were dose rate measurements taken to verify radiation levels while in transit to monitoring and/or sampling sites?	_____	_____	_____
19.	Was the team able to find the monitoring and/or sampling locations?	_____	_____	_____
20.	Did the team demonstrate a knowledge of proper survey and sampling techniques?	_____	_____	_____
21.	Did team personnel know how to operate and/or handle monitoring, sampling, and auxiliary equipment?	_____	_____	_____
22.	Were air samplers run for an appropriate time interval?	_____	_____	_____
23.	Were samples counted outside the plume?	_____	_____	_____
24.	Was the proper procedure used for field counting of airborne samples?	_____	_____	_____
25.	Were good sample handling techniques used to avoid cross-contamination?	_____	_____	_____

-Environmental Monitoring Teams Controller-

		<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
26.	Was raw field data converted correctly to uCi/cc for both particulate and iodine airborne samples?	_____	_____	_____
27.	Were vehicle surveys performed periodically?	_____	_____	_____
28.	Was the team aware of sample drop location(s)?	_____	_____	_____
29.	Did the team members keep track of their individual exposure?	_____	_____	_____
30.	Were pocket dosimeters checked on a regular basis?	_____	_____	_____
31.	Were data sheets properly filled out and maintained?	_____	_____	_____
32.	Were standby areas clearly identified to the team?	_____	_____	_____
33.	Were spare batteries available for portable radios?	_____	_____	_____
34.	Were backup instruments available in case of a failure of the primary instruments?	_____	_____	_____
35.	Were the team members and vehicle properly surveyed upon completion of their monitoring tasks?	_____	_____	_____
36.	Were the team members debriefed upon their return?	_____	_____	_____
37.	Upon return, was equipment returned to its original status?	_____	_____	_____

-Corporate Media Center (CMC) Controllers-

	<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1. Was the CMC activated in a timely manner?	_____	_____	_____
2. Was the CMC activated as prescribed in the emergency plan implementing procedure?	_____	_____	_____
3. Were procedures broken out and used?	_____	_____	_____
4. Was there a clear dissemination of authority and control in the organizations?	_____	_____	_____
5. Were dedicated communication links available with all necessary points of contact?	_____	_____	_____
6. Did the CMC staff initiate and coordinate activities in an efficient and timely manner?	_____	_____	_____
7. Were current plant status announcements and periodic updates made?	_____	_____	_____
8. Did the CMC demonstrate operational and functional adequacy during the exercise?	_____	_____	_____
9. Was there sufficient coordination in the preparation, review, and release of information to provide accurate and timely releases to the general public and news media?	_____	_____	_____
10. Was the ability to establish, operate, and coordinate an effective rumor control demonstrated?	_____	_____	_____
11. Were accurate and timely information releases made to the general public and the news media?	_____	_____	_____
12. Did the CMC contain sufficient equipment and supplies to support all required public information activities?	_____	_____	_____
13. Upon activation of the CMC, was a check made to assure operability of all phone and telecopy equipment?	_____	_____	_____
14. Was a "Media Call" list used to properly notify representatives of the media of the emergency?	_____	_____	_____
15. Was a post-drill/exercise critique held to evaluate CMC personnel performance?	_____	_____	_____

-Assembly, Accountability, and Evacuation Controllers-

	<u>Yes</u>	<u>No</u>	<u>Not Observed</u>
1. Did the RNPDP security organization mobilize and respond to the declaration of an Alert in a timely and effective manner?	_____	_____	_____
2. Did RNPDP security personnel adequately control site access in accordance with applicable security procedures?	_____	_____	_____
3. Were appropriate security procedures available to, and used by security personnel?	_____	_____	_____
4. Did communication contain the statement "this is a drill," or a similar statement?	_____	_____	_____
5. Was site access limited to those persons necessary to perform emergency-related tasks?	_____	_____	_____
6. Were security posts and access control points established and maintained as appropriate?	_____	_____	_____
7. Did the RNPDP security organization demonstrate the ability to account for all personnel in a timely manner?	_____	_____	_____
8. Was the evacuation conducted in an efficient manner?	_____	_____	_____
9. Did the security organization initiate steps to locate unaccounted-for individuals?	_____	_____	_____
10. Were these steps coordinated with the Site Emergency Coordinator?	_____	_____	_____

CAROLINA POWER AND LIGHT COMPANY
ROBINSON NUCLEAR PROJECT DEPARTMENT

1988 EMERGENCY PREPAREDNESS
ANNUAL EXERCISE

CRITIQUE WORKSHEET

Primary Areas for Evaluation:

<input type="checkbox"/> Control Room	<input type="checkbox"/> State EOC	<input type="checkbox"/> Environmental Monitoring
<input type="checkbox"/> TSC	<input type="checkbox"/> Lee EOC	<input type="checkbox"/> Teams
<input type="checkbox"/> OSC	<input type="checkbox"/> Darlington EOC	<input type="checkbox"/> State Monitoring Teams
<input type="checkbox"/> EOF	<input type="checkbox"/> Chesterfield EOC	<input type="checkbox"/> HE&EC Environmental
<input type="checkbox"/> CEOC	<input type="checkbox"/> Plant Monitoring Team	<input type="checkbox"/> Teams
<input type="checkbox"/> Hospital	<input type="checkbox"/> Onsite Survey Teams	<input type="checkbox"/> Other: _____

Objective:

Reference(s):

1. Applicable initiating message number(s). _____
2. Evaluation Checklists

Participants' Response Actions Toward Meeting the Objective:

Required Corrective Actions, If Any:

Controller: _____

Location: _____

CAROLINA POWER & LIGHT COMPANY
Exercise Critique Form

To: Chief Evaluator

Date: August 2, 1988

1. Type of activity or facility observed (such as off-site dose assessment, notification, decontamination, public information, TSC, EOF, etc.):

2. Location: H. B. Robinson Nuclear Power Plant
3. Date: August 2, 1988
4. Time: From 07:30 a.m. To 12:30 p.m.
5. Procedure numbers that apply to activity and/or facility evaluated:
6. Names of personnel evaluated:
7. With respect to the particular function or activity you are evaluating, do you think that the Plan and Procedures are adequate (explain if necessary)?

8. Either here or in an attached report state your conclusions as to the favorable aspects of the function or facility observed. Include good points which you observed.
9. Either here or in an attached report, enumerate the deficiencies observed and give your recommendations for corrective action. If you have none, so state.
10. Overall Rating:
Excellent -
Satisfactory -
Unsatisfactory -

Evaluator

Name Printed
Evaluator's Own
Dept. & Section

Drill/Exercise Type: 1988 Annual Emergency Preparedness Exercise

Name: _____

Date: August 2, 1988

Page: OF [illegible]

Location: H. B. Robinson Nuclear Power Plant

Drill/Exercise Type: 1988 Annual Emergency Preparedness Exercise

CONTROLLER'S LOG SHEET

Name: _____

Date: August 2, 1988

Page: _____ OF _____

[illegible]

Location: H. B. Robinson Nuclear Power Plant

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