

CONFIDENTIAL

Catawba Nuclear Station
1987 Exercise

1. SCOPE AND OBJECTIVES

A. Scope

The 1987 Catawba Nuclear Station exercise is designed to meet the exercise requirements of 10CFR50, Appendix E, Section IV.F. The exercise will involve full participation by the Technical Support Center (TSC) and the Operational Support Center (OSC). The Crisis Management Center will not participate. Also, the States and the counties within the plume exposure EPZ will not participate except to receive initial notifications.

On February 19, 1987 an exercise involving a simulated reactor accident will be held to test the integrated capabilities and a major portion of the basic elements within the emergency plans and organizations. This exercise will simulate emergency conditions which would require response by on-site personnel. The exercise will begin between 6:00 p.m. and midnight and will not involve a radiological release. Exercise objectives are provided in Section I.B.1.

Also on February 19, 1987, a radiological monitoring drill will be held. This drill will involve a simulated radiological release and will test the capabilities for radiological dose projections and off-site monitoring. Drill objectives are provided in Section I.B.2.

On February 18-19, 1987, two additional drills will be held. A medical drill will be held to involve a contaminated, injured individual. A fire drill will be held to involve response by the on-site fire brigade and the off-site fire department.

A formal critique involving Duke Power and NRC will be held on February 20, 1986 at 2:00 p.m. This critique will be closed to the public and will be held in the Catawba Administration Building.

B. Exercise Objectives

1. Reactor Accident Exercise

- a. Demonstrate the ability to declare emergency classification in accordance with station procedures.
- b. Demonstrate the ability to alert, notify, and staff the TSC and OSC facilities after declaring an Alert or Higher emergency class.
- c. Demonstrate assembly of station personnel within 30 minutes in a simulated emergency and identify anyone not present at the assembly locations.

- d. Test communications equipment among on-site emergency facilities including plant extensions and intercoms.
- e. Test off-site communications equipment to the counties and states and to NRC including the Selective Signaling System and the NRC Emergency Notification System.
- f. Test the adequacy and operability of emergency equipment/supplies.
- g. Demonstrate precise and clear transfer of responsibility from the Shift Supervisor in the Control Room to the Emergency Coordinator in the TSC.
- h. Demonstrate proper use of the message format and authentication methodology for messages transmitted to states and counties.
- i. Demonstrate the ability to notify the states and the counties within 15 minutes after declaring an emergency or after changing the emergency class.
- j. Demonstrate the ability to notify NRC immediately after notification of the states and counties and not later than 1 hour after declaring one of the emergency classes.
- k. Demonstrate access control measures for the control room, TSC, and OSC.
- l. Demonstrate the ability to transmit data using the Crisis Management Data Transmittal System in accordance with station procedures.
- m. Evaluate the adequacy of the following assessment tools:
 - (1) Drawings
 - (2) Status Boards
 - (3) Maps
- n. Test the ability to provide adequate on-site radiological monitoring and personnel dose record control.
- o. Demonstrate the ability to provide timely and appropriate protective action recommendations in accordance with station procedures.
- p. Demonstrate the ability to assess the incident and provide mitigation strategies in accordance with station procedures.

2. Radiological Monitoring Drill

- a. Demonstrate the ability to develop appropriate recommendations regarding emergency classification based

upon radiological conditions in accordance with station procedures.

- b. Demonstrate the ability to develop timely and appropriate protective action recommendations based upon radiological conditions in accordance with station procedures.
- c. Test the adequacy and operability of emergency equipment and supplies.
- d. Evaluate the adequacy of the following assessment tools:
 - (1) Drawings
 - (2) Status Boards
 - (3) Maps
- e. Demonstrate the ability to determine the location and magnitude of a plume from an atmospheric, radiological release.
- f. Demonstrate adequate radio communications with the off-site monitoring teams.
- g. Demonstrate the ability to develop off-site dose projections in accordance with station procedures.
- h. Demonstrate the ability to collect soil, water, and vegetation samples in accordance with station procedures.

3. Medical Drill

- a. Demonstrate proper response in accordance with station procedures to a simulated medical injury involving a contaminated patient.

4. Fire Drill

- a. Demonstrate response in accordance with station procedures by the on-site fire brigade to a simulated fire.
- b. Demonstrate the ability to request and obtain fire-fighting support from the off-site department.

II. CONDUCT OF EXERCISE

A. Exercise Organization

The Exercise Organization is made up of controller/evaluators, observers, and players as described below.

Controller/Evaluators

Controllers and evaluators are assigned to specific locations and/or groups as described in this Exercise Plan.

Controllers are responsible for:

- 1) Maintaining action according to the scenario
- 2) Providing input messages and data

Evaluators are responsible for:

- 1) Observing players as they work in their specialized functions
- 2) Compiling observations and judgments onto the evaluation forms

In many instances one person may serve in a dual capacity as both controller and evaluator.

Simulated plant parameters and emergency messages will be provided by the controllers to the control room operators, monitoring team members, and other players as appropriate. These messages and data are shown in the appendices of this plan. Players are responsible for initiating actions in response to the messages and/or data according to the emergency plan and procedures.

Duke Power Company controllers and evaluators will be identified by wearing armbands.

Selection of controller/evaluators is based on their expertise in, or their qualification to evaluate the area assigned. All controllers and evaluators will compile their observations prior to the critique and provide the completed evaluation forms to the Exercise Director. The Exercise Director will summarize these items in the critique.

Observers

Observers from various Duke Power organizations, other utilities, local, and state officials, may be authorized on a limited basis, to participate in the exercise.

Requests to participate as observers at Duke Power Company Facilities must be submitted to: R. E. Harris, System Emergency Planner, Nuclear Production Department, P. O. Box 33189, Charlotte, N. C. 28242 (704-373-8669).

Players

Players include all plant and other Duke personnel assigned to perform functions of the station and corporate emergency response plans including control room personnel assigned to participate in the exercise, Technical Support Center personnel and other Duke personnel who may be assigned as players. Duke players will be identified by colored armbands.

The success of the exercise is largely dependent on player reaction, and their knowledge of the Emergency Plans and procedures. Some situations affecting player reaction will exist at the time the exercise begins; however, most will be introduced by the Controller/Evaluators through the course of the exercise. Simulated plant conditions will be provided to control room operators using pre-established plant data and scenario messages. Players are responsible for initiating actions during the exercise according to the procedures, responsibilities, and tasks outlined for their particular function in the Emergency Plans and Implementing Procedures.

B. Exercise Data and Messages

Data and messages to be used in the exercise are shown in the appendices. The white message sheets with notes to controllers shown are kept by the controller/evaluators to allow review of those actions which the players should initiate. Yellow message sheets without the notes to controllers will be given to the players at the indicated times by the controllers.

Data sheets showing "snapshots" of plant parameters will be given to the players in the control room to simulate the direct reading of plant indications by the operators. Personnel at other locations will receive simulated plant data either through the data transmittal system (with exercise data pre-programmed) or through other communications. Simulated data for off-site and on-site monitoring will be provided by controllers to the players after an actual reading has been made. (Exceptions to this are indicated.)

C. Exercise Rules

1. Controllers will be available in all areas of the Technical Support Center, Operational Support Center and Control Room. DO NOT TALK WITH CONTROLLERS UNLESS ABSOLUTELY NECESSARY! It is appropriate to ask controllers to provide simulated data.
2. Respirators will not be required to be worn by exercise participants. However, exercises/tests are designed to test the administrative issue of these pieces of equipment. For purposes of the exercise the following method will be used if respirators are required for entrance to a specific area:

HP will issue a facsimile card to the individual who will be issued the respirator. Another facsimile card will be placed on the respirator (wherever it is located). The respirator cannot be used by another person and cannot be utilized again unless it is carried to the respiratory area and actually cleaned for future use.
3. Anti-Cs will be worn by players if it is required by Health Physics practice/procedure. No exceptions will be allowed except the following:

Food will be required for the players in the exercise. People involved in bringing this food to the TSC, OSC and control room will not be required to wear anti-Cs. However, HP will be notified of their arrival and will provide escort for the group and provide tags to indicate the type of protection the group would be wearing.
4. Generally, emergency response activities should be performed fully and not simulated unless personnel safety or unit operation would be jeopardized.
5. If a procedure must be simulated, make sure that the Controller is fully knowledgeable of your actions. If clarification is needed for you to respond, ask questions.
6. HP technicians must make sure their instrumentation is turned on before the Controller will give you any readings. Information will be provided to HP controllers for all areas of the plant. Readings for noble gas, iodine, contamination and dose rates are available. Secure the information from the place that you would normally go to get that information.
7. All phone calls required by procedure will be made except that any calls to organizations not participating in the exercise shall be simulated.
8. Site Evacuation, if required, will be simulated.

9. Exercise participants will not be required to go into a high radiation area. Players should go to the general area and make the Controller aware of the intended response.
10. If a helicopter is needed for off-site monitoring, it will be simulated for this exercise.
11. If off-site monitoring personnel from other stations are to be called out, this action should be simulated.
12. For vehicle safety reasons, off-site monitoring teams will be allowed to travel greater than the speed limits provided in the procedures (but not greater than legal speed limits); however, to demonstrate their knowledge of the procedural limit, the exercise participants should tell the controller that the procedural limit will be simulated.
13. All communications, especially radio communications, should begin and end with the words "This is a drill". This is necessary to prevent someone from taking inappropriate actions. Note that radio communications might be intercepted by anyone, including the general public.

III. CRITIQUE

A formal critique will be held at 2:00 p.m. on February 20, 1987 in the Catawba Administration Building.

The following persons or groups will comment on the exercise:

Critique Comments:

- a. Exercise Director (Controller/Evaluators' comments)
- b. Nuclear Station Manager (Participants' comments)
- c. NRC
- d. Observers

Following the critique, the System Emergency Planner will combine the critique comments into an action item list. The individual items will be assigned to appropriate members of the organization for resolution. The System Emergency Planner will be responsible for followup to ensure implementation of corrective measures.

Evaluation Forms

The following evaluation forms have been designed to allow review of the specific exercise objectives stated in part I of this exercise plan. Where an objective is not rated as having been completed in an adequate manner, the evaluator will elaborate on the back of the sheet. Even if an objective is adequately met, the evaluator may make suggestions for improvement.

Name: _____
Area of Review: Control Room

Date: _____

Exercise Objective To Be Reviewed

(Check one)
Adequate Inadequate

- | | | |
|---|-------|-------|
| 1.a. Demonstrate the ability to declare emergency class in accordance with station procedures. | _____ | _____ |
| 1.b. Demonstrate the ability to alert and notify TSC and OSC Staff. | _____ | _____ |
| 1.d. Test on-site communications equipment (plant extensions and intercoms). | _____ | _____ |
| 1.e. Test off-site communications equipment (Selective Signaling System, and the NRC Emergency Notification System). | _____ | _____ |
| 1.g. Demonstrate precise and clear transfer of responsibility from the shift supervisor to the Emergency Coordinator in the TSC. | _____ | _____ |
| 1.h. Demonstrate proper use of the message format and authentication methodology for messages to state and counties. | _____ | _____ |
| 1.i. Demonstrate the ability to notify the state and counties within 15 minutes after declaring an emergency or after changing the emergency class. | _____ | _____ |
| 1.j. Demonstrate the ability to notify NRC immediately after notification of the state and counties and not later than 1 hour after declaring an emergency. | _____ | _____ |
| 1.k. Demonstrate access control measures for the control room. | _____ | _____ |
| 1.p. Demonstrate ability to assess the incident and provide mitigation strategies in accordance with station procedures. | _____ | _____ |

Signed _____

*Note: Expand on any items marked "inadequate."

Name: _____
Area of Review: OSC

Date: _____

Exercise Objective To Be Reviewed

(Check one)

Adequate Inadequate

- 1.b. Staff the OSC after declaring an Alert or higher emergency class.
- 1.d. Test on-site communications equipment (plant extensions and intercoms).
- 1.f. Adequacy and operability of emergency equipment and supplies.
- 1.k. Demonstrate access control measures for the OSC.
- 1.m. Evaluate adequacy of status boards and drawings.
- 1.n. Test the ability to provide adequate on-site radiation monitoring and personnel dose record control.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Signed _____

*Note: Expand on any items marked "inadequate:"

Name: _____
Area of Review: On-site Monitoring (OSC)

Date: _____

Exercise Objective To Be Reviewed

(Check one)

Adequate Inadequate

1.f. Adequacy and operability of emergency equipment and supplies.

1.n. Ability to provide adequate on-site monitoring (Inside the protected area).

Signed _____

*Note: Expand on any items marked "inadequate."

Name: _____
Area of Review: TSC-Overall

Date: _____

Exercise Objective To Be Reviewed

(Check one)

Adequate Inadequate

- | | | |
|---|-------|-------|
| 1.a. Demonstrate the ability to declare emergency classification in accordance with station procedures. | _____ | _____ |
| 1.b. Demonstrate the ability to alert, notify, and staff the TSC after declaring an Alert or higher emergency class. | _____ | _____ |
| 1.c. Demonstrate assembly of station personnel within 30 minutes and identify anyone not present at the assembly locations. | _____ | _____ |
| 1.d. Test on-site communications equipment (phone extensions and intercoms). | _____ | _____ |
| 1.e. Test off-site communications equipment (Selective Signaling System and the NRC ENS.) | _____ | _____ |
| 1.f. Adequacy and operability of equipment and supplies. | _____ | _____ |
| 1.g. Demonstrate clear and precise transfer of responsibility from the Shift Supervisor to the Emergency Coordinator in the TSC. | _____ | _____ |
| 1.h. Demonstrate proper use of the message format and authentication methodology for messages to state and counties. | _____ | _____ |
| 1.i. Demonstrate the ability to notify the state and counties within 15 minutes after changing the emergency class. | _____ | _____ |
| 1.j. Demonstrate the ability to notify NRC immediately after notification of the state and counties and not later than 1 hour after changing the emergency class. | _____ | _____ |

Signed _____

*Note: Expand on any items marked "inadequate."

Exercise Objective To Be Reviewed

(Check one)

Adequate

Inadequate

- 1.k. Demonstrate access control measures for the TSC.
- 1.m. Demonstrate adequacy of status boards, maps, and drawings.
- 1.o. Demonstrate the ability to provide timely and appropriate protective action recommendations in accordance with station procedures.

Signed _____

*Note: Expand on any items marked "inadequate."

Name: _____
Area of Review: Performance (TSC)

Date: _____

Exercise Objective To Be Reviewed

(Check one)

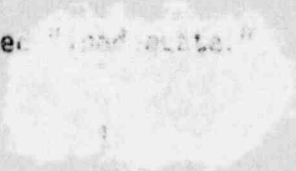
Adequate

Inadequate

- 1.1. Demonstrate the ability to transmit data with the Crisis Management Data Transmittal System in accordance with station procedures.

Signed _____

*Note: Expand on any items marked "Inadequate."



Name: _____

Date: _____

Area of Review: Health Physics (TSC)

Exercise Objective To Be Reviewed

(Check one)

Adequate

Inadequate

2.a. Demonstrate the ability to develop appropriate recommendations regarding emergency classification based upon radiological conditions in accordance with station procedures.

2.b. Demonstrate the ability to develop timely and appropriate protective action recommendations based upon radiological conditions in accordance with station procedures.

2.c. Test the adequacy and operability of emergency equipment and supplies.

2.d. Evaluate the adequacy of the following assessment tools:

- (1) Drawings
- (2) Status Boards
- (3) Maps

2.e. Demonstrate the ability to determine the location and magnitude of a plume from an atmospheric, radiological release.

2.f. Demonstrate adequate radio communications with the off-site monitoring teams.

2.g. Demonstrate the ability to develop off-site dose projections in accordance with station procedures.

Signed _____

*Note: Expand on any items marked "inadequate."

Name: _____
Area of Review: Off-site Monitoring Teams

Date: _____

Exercise Objective To Be Reviewed

(Check one)

	<u>Adequate</u>	<u>Inadequate</u>
2.c. Adequacy and operability of emergency equipment and supplies.	_____	_____
2.e. Demonstrate the ability to determine the location and magnitude of a plume from an atmospheric release.	_____	_____
* Did the field teams practice dose control by periodically checking doses on dosimeter?	_____	_____
* Did the field teams use good H.P. practices to limit contamination of equipment and samples?	_____	_____
2.f. Demonstrate adequate radio communications.	_____	_____
2.h. Demonstrate the ability to collect soil, water, and vegetation samples per procedure.	_____	_____

Signed _____

*Note: Not specific exercise objectives but appropriate evaluation criteria. Expand on any items marked "inadequate."

Name: _____
Area of Review: Medical Drill

Date: _____

Exercise Objective To Be Reviewed

(Check one)
Adequate Inadequate

3.a. Demonstrate proper response to
a simulated medical injury
involving a contaminated patient
in accordance with station
procedures.

Signed _____

*Note: Expand on any items marked "inadequate".

Name: _____
Area of Review: Fire Drill

Date: _____

Exercise Objective To Be Reviewed

(Check one)

Adequate

Inadequate

4. a. Demonstrate response in accordance with station procedures by the on-site fire brigade to a simulated fire.

4. b. Demonstrate the ability to request and obtain fire-fighting support from the off-site fire department.

Signed _____

*Note: Expand on any items marked "inadequate."

C O N F I D E N T I A L

SEQUENCE OF EVENTS
February 19, 1987

<u>Time (hours)</u>	<u>Event</u>
1900	Exercise begins with Unit 2 at 100% power. They have an unidentified primary system leak of approximately 1 gpm which occurred at 1600 hours (before the exercise). This is an unusual event classification.
1910	Leak increases to approximately 80 gpm. This should cause them to upgrade status to an alert condition.
1930	Reactor is tripped by this time with operators reducing power.
2005	Leak increases to beyond the capacity of normal charging system.
2005:30	Safety injection signal is initiated by Low Primary system pressure. The following actions take place @ the ECCS pumps: (a) Train A centrifugal charging (NV) pump shuts down due to mechanical failure (b) Train B NV pump starts normally (c) Train A Safety Injection (NI) pump is in maintenance (d) Train B NI pump fails to receive SI signal (e) Both Residual Heat Removal (ND) pumps start normally. This situation is classified as a Site Area Emergency due to LOCA greater than ECCS capacity.
2006	HI-Hi containment pressure signal is received. Both Containment Spray (NS) pumps start normally.
2010	Subcooled Margin @ 0°F. Operators should turn NC pumps off per procedure.
2035	Both NI pumps are returned to service and begin to draw suction from the Refueling Water Storage Tank (FWST).
2040	FWST Low Level indication of 37% received. Switchover of the ECCS pumps to the sump should begin.
2047	FWST Low-Low level indication of 11% received. Switchover of the NS pumps to the sump should begin.
2200	Drill ends.

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1900

Message No.

Message for: Control Room

Message:

Both units are at 100% FP, Unit 2 PZR LVL-60%. CHG Flow 86 gpm Letdown flow 75 gpm, Primary leakage is 1.0 gpm unidentified, no EMF alarms, NV pmp 2A-ON, NV pump 2B-off, PDP-off, containment press 0.06.

NI pump 2A out for maint. Expected back at 2400. An Unusual Event was declared at 1600 hours and notifications were made to states, counties, and NRC per RP/0/A/5000/02.

Notes to Controllers:

Normal conditions except for greater than 1 gpm leaks.

\reh\message.001

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1900

Message No.

Message for: Mechanical Maintenance

Message:

(Message regarding Train A NI pump to be developed later)

Notes to Controllers:

\reh\message.022

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1910

Message No.

Message to: Control Room

Message:

100% FP, PZR LVL 60%, charging flow 166 gpm
Letdown flow 75 gpm, all feedflows 3.75 MPPH
No EMF alarms, containment press 0.06
PD pump inoperable for maintenance - no parts.

Notes to Controllers:

Leak has just increased to 80 gpm. Load should be reduced since T.S. limit is obviously exceeded. Containment floor & Equipment Sump level is increasing - Tell them if asked.

Should declare an ALERT per RP/0/A/5000/01 and go to RP/0/A/5000/03.

\reh\message.002

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1912 Contingency

Message No.

Message for: Control Room

Message:

No annun. alarms per Enclosure 1 of AP/2/A/5500/10.

Notes to Controllers:

This is to give operators info concerning leak diagnostic. If asked, provide the following info to operators concerning AP/2/A/5500/10 Enclosure 2 after steps have been performed.

Leak Group A - no ind. of leak.

Leak Group B - no ind. of leak

Leak Group C - no ind. of leak

Leak Group D - no ind. of leak

Leak Group E - no ind. of leak

Leak Group F - containment does indicate leakage

- isolation of NM, RVLIS, Reactor

Head Vents does not stabilize

Leak Group G - NV leakage cannot be isolated.

\reh\message.003

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1920 Contingency

Message No.

Message for: Control Room

Message:

An ALERT condition must be declared at this time
due to primary leakage being more than 50 gpm.

Notes to Controllers:

Do not give out if ALERT has been declared.

\reh\message.004

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 1930 Contingency

Message No.

Message for: Control Room

Message:

Reactor power should be 0% FP at this time.

Notes to Controllers:

Do not give out this message if the reactor is shutdown.

\reh\message.005

GO TO
EP/2/A/5000/2F3

RX VESSEL UPPER RANGE LEVEL > 97% & STABLE	NO
	YES

GO TO
EP/2/A/5000/2F1

PRESSURIZER LEVEL LESS THAN 92% (< 80% FOR ACC)	NO
	YES

GO TO
EP/2/A/5000/2F2

PRESSURIZER LEVEL GREATER THAN 17% (> 45% FOR ACC)	NO
	YES

GO TO
EP/2/A/5000/2F3

RX VESSEL UPPER RANGE LEVEL > 97% & STABLE	NO
	YES

CSF
SAT

THIS IS AN EXERCISE MESSAGE

Date: 2.19/87

Time: 2005

Message No.

Message For: Control Room

Message:

- Annun alarm - PZR LO Press Alert
- PZR LO LVL Dev.
- PZR LO Level HTRS Off and Letdown secured
- Ice Cond. Inlet doors open
- PZR LO Press PORV NC-34 blocked
- PZR LO Press PORV NC-32/36 blocked

CSF status tree - Reactor Inventory - yellow alarm

Notes to Controllers:

Rapid drop in PZR press & level is occurring due to leak inc. to more than capacity of NV pumps.

\reh\message.006

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2006

Message No.

Message for: Control Room

Message:

Annunciator/Status Alarms: PZR Lo Press S/I Alert
PZR Lo Press Alert
PZR Lo Press Rx Trip
PZR Lo Press S/I Rx Trip
Hi Cont. Press S/I Rx Trip
E/S Load Seq Actuated Trn A
" " " " " B
Cont. Hi-Hi Press Alert
Cont. Spray Actuation
Cont. Isol phase B

NI pmp 2B - Fails to start auto. - will not start from
C.R. switch.

NI pmp 2A - Out for maintenance. Expected back at about
2400.

Notes to Controllers:

Should go to EP/2/A/5000/01. Reactor trip on Safety Injection. If asked, tell them, (a) 4.16 KV buses are energized; (2) PZR press <1845 & cont. press approximately 1.5 psi inc.; (3) S/G press approximately 1100 psig. Should declare a Site Area Emergency per RP/5000/01 - Total ECCS capacity with NI/NV pumps inoperable.

Note: NI pump 2B will not start - must contact I&E for support. Both NS pumps start on HI-HI containment pressure signal at 3.0 psig.

\reh\message.007

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2006

Message No.

Message for: Control Room

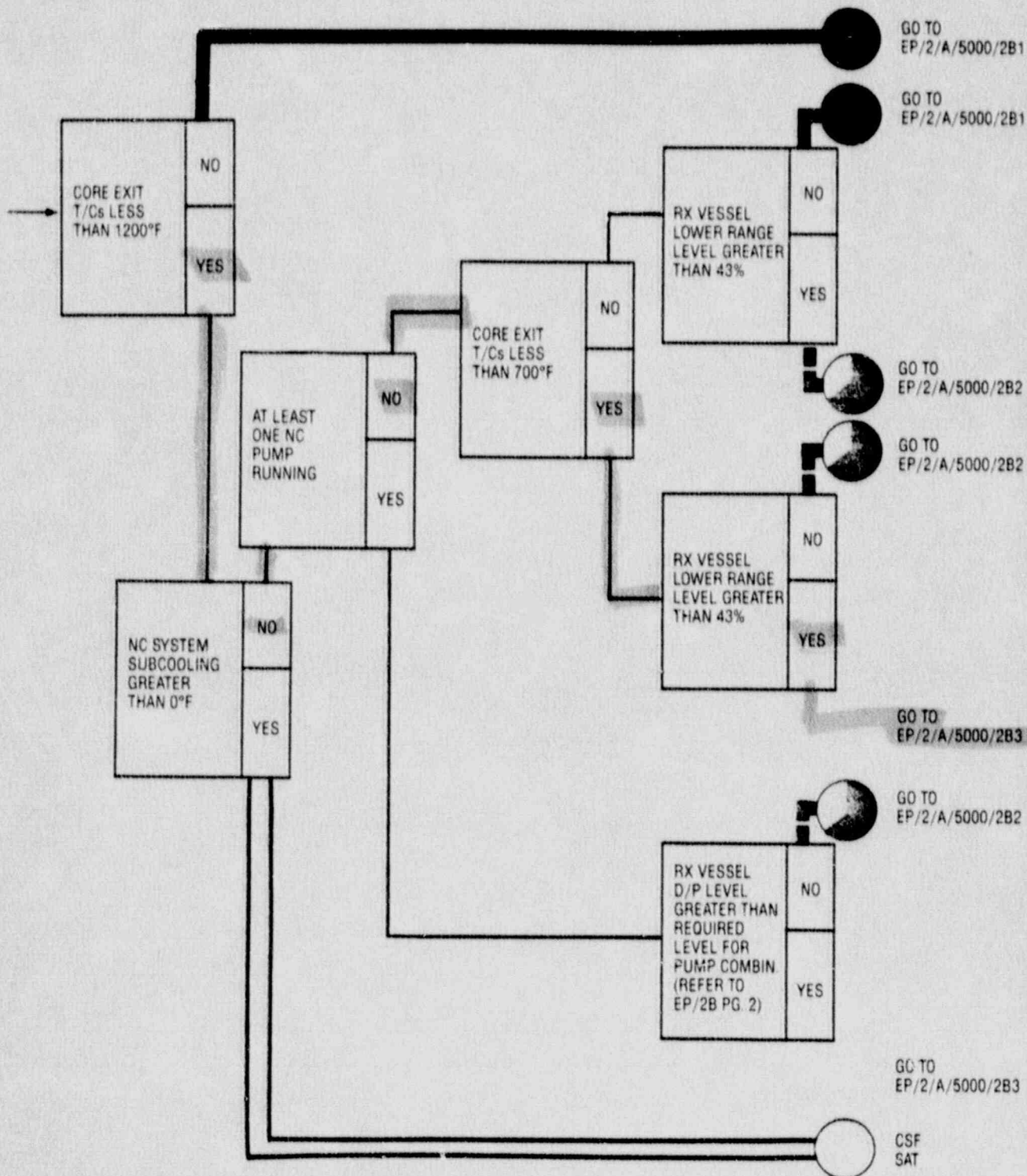
Message:

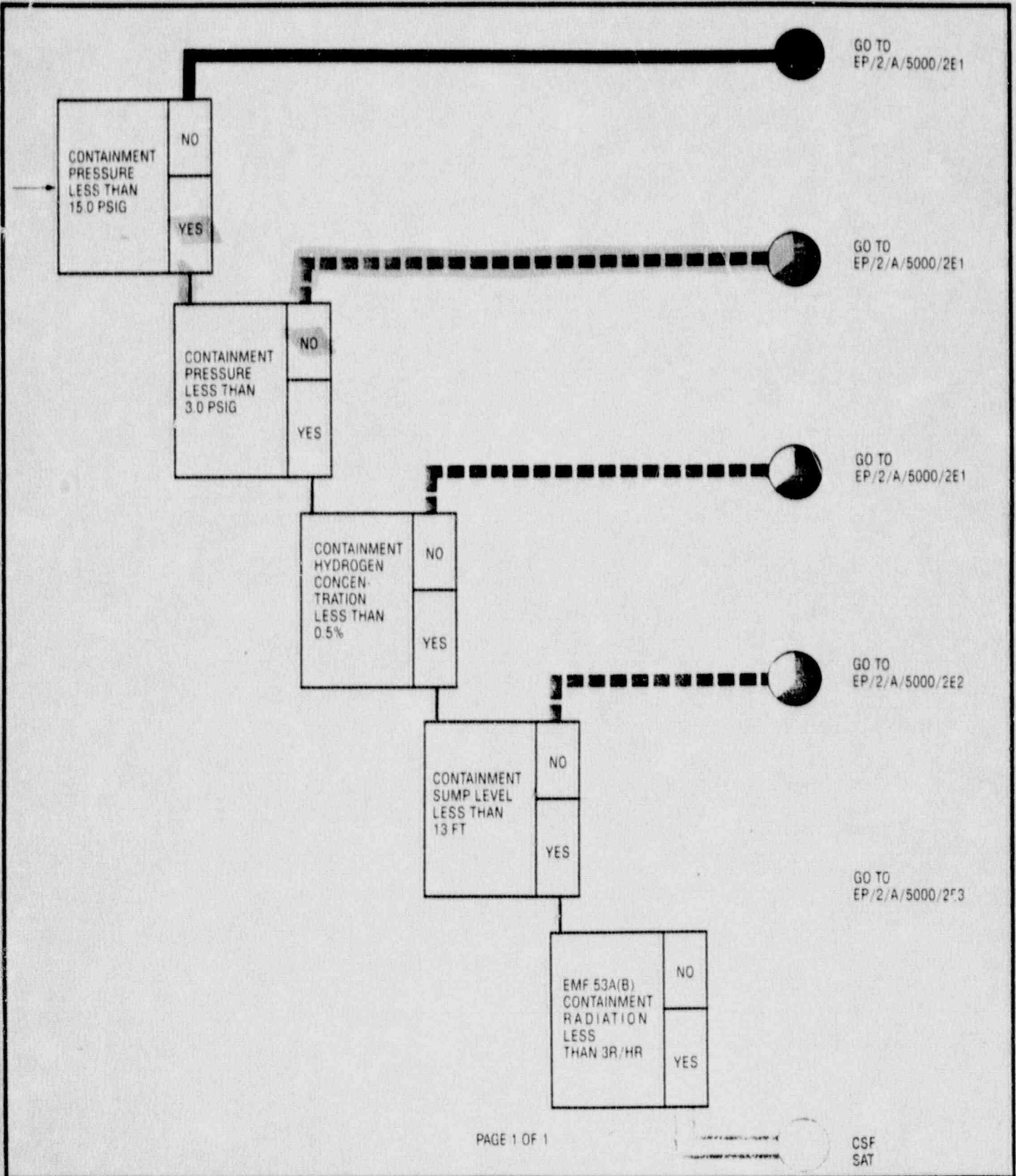
Containment status tree - Orange Alarm

Notes to Controllers:

Give attached status tree to control room.

\reh\message.008





THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time:

Message No:

Message for: I&E Crew responding to problem with
Train B NI pump

Message:

(Message to be developed later)

Notes to Controllers:

\reh\message.021

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: Contingency

Message No.

Message for:

Message:

- o Monitor lights indicate proper Injection Mode Alignment
- o PZR spray valves are closed - NC-27, 29
- o PZR PORV - closed
- o NC head vents are closed.

Notes to Controllers:

For EP/2/A/5000/2B3. Saturated Core Cooling Condition, provide above data if requested.

\reh\message.010

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: Contingency

Message No.

Message for: Control Room

Message:

- o Containment phase A & B are properly isolated.
- o Proper NS align.
- o No faulted or ruptured S/G.
- o Main steam isol. has occurred.
- o VE sys - operating properly.
- o VX sys - operating properly.

Notes to Controllers:

For EP/2/A/5000/2E1, High Containment Pressure,
provide above info if requested.

\reh\message.011

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2007

Message No.

Message for: Control Room

Message:

NV pump 2A - trips and will not restart.

Annun. Alarm - Subcooling Margin Alert
- FWST at Makeup Level

Notes to Controllers:

NV pump 2A has experienced a motor failure - BKR
tripped on over-current.
-Subcooling Alert (+8°F)
-FWST Alarm (95%)

\reh\message.009

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2010

Message No.:

Message for: Control Room

Message:

Annunc. Alarm - Loss of Subcooling.

Core Cooling Status Tree - Yellow Alarm.

Notes to Controllers:

With loss of subcooling the NCPs should be tripped.

\reh\message.012

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: When all Reactor
Coolant (NC) pumps
are off.

Message No.

Message For: Control Room

Message:

Core Cooling Status Tree - Orange Alarm.

Notes to Controllers:

\reh\message.018

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: Contingency 2010

Message No.:

Message For: Control Room

Message:

Notes to Controllers:

For EP/2/A/5000/1C High Energy.
Line Break Inside Containment. Provide info if asked -
(1) no S/G faulted; (2) no SGTR.

\reh\message.013

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2035

Message No:

Message for: Mechanical Maintenance

Message:

Train A NI pump is returned to service.

Notes to Controllers:

Make sure they notify the Control Room.

\reh\message.020

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2035

Message No.

Message for: I&E

Message:

Train B NI pump is repaired and returned to service.

Notes to Controllers:

Make sure they notify the control room.

\reh\message.019

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2040

Message No.

Message for: Control Room

Message:

Annun. Alarm: FWST Lo Level.

Notes to Controllers:

Occurs at 37% on 2/4 channels. If asked, tell them that automatic swap to the containment sump has taken place.

\reh\message.014

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2047

Message No:

Message For: Control Room

Message:

Annunc. Alarm: FWST Lo-Lo Level

Notes to Controllers:

Occurs at 11% (1/4 channels).
Should shift NS pump suction to the containment
sump.

\reh\message.017

THIS IS AN EXERCISE MESSAGE

Date: 2/19/87

Time: 2050

Message No.

Message for: Control Room

Message:

1 EMF-1 Alarms. It reads 4 mR/hr.

Notes to Controllers:

\reh\message.016

CATAWBA NUCLEAR STATION
PLANT DATA AND STATUS INFORMATION

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UNIT 2
PLANT STATUS

A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	621	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	621	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	621	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	621	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	630	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RVLIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	856	PPM
20.	(A1248) SOURCE RANGE LEVEL	N/A	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	5.0E-4	MA
22.	(P0738) POWER RANGE LEVEL	100	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0723) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NU LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	86	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	CPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.06	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	OFF	ON/OFF
6.	(D2438) N5 PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	0	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

CATAWBA NUCLEAR STATION
PLANT DATA AND STATUS INFORMATION

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UNIT 2
PLANT STATUS

H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	630	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	630	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	630	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	630	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	630	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	630	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	630	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	630	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	630	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	630	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	630	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	630	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	630	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	630	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	630	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	630	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	630	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	630	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	630	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	630	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	630	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	630	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	621	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	621	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	621	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	621	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	630	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RVLIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	856	PPM
20.	(A1248) SOURCE RANGE LEVEL	N/A	CP5
21.	(A0766) INTERMEDIATE RANGE LEVEL	5.0E-4	MA
22.	(P0738) POWER RANGE LEVEL	100	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0723) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SN5WP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	166	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.06	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	OFF	ON/OFF
6.	(D2438) N5 PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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 PLANT DATA AND STATUS INFORMATION

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UNIT 2
 PLANT STATUS _____

H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	630	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	630	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	630	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	630	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	630	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	630	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	630	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	630	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	630	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	630	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	630	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	630	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	630	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	630	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	630	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	630	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	630	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	630	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	630	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	630	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	630	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	630	DEG F
23.	(P0596)	5/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	5/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	5/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	5/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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PLANT DATA AND STATUS INFORMATION

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UNIT 2
PLANT STATUS _____

A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	621	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	621	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	621	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	621	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	630	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RULIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2039) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	856	PPM
20.	(A1248) SOURCE RANGE LEVEL	N/A	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	5.0E-4	MA
22.	(P0738) POWER RANGE LEVEL	100	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0723) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETR	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	166	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	CPM
8.	(A0908) ND HX OUTLET FLOW	0	CPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.07	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	OFF	ON/OFF
6.	(D2438) N5 PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	1	MPH
2.	(A0485) LOWER WIND SPEED	1	MPH
3.	(A0484) UPPER WIND DIRECTION	191	DEG
4.	(A0489) LOWER WIND DIRECTION	193	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-3	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	4	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	630	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	630	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	630	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	630	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	630	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	630	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	630	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	630	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	630	DEG F
10.	(A0117)	IN-CORE TEMP J02 T/C 16	630	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	630	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	630	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	630	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	630	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	630	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	630	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 25	630	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	630	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	630	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	630	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	630	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	630	DEG F
23.	(P0596)	5/G A MAIN STEAM RELEASE LAST 15 MIN	0	LBM
24.	(P0597)	5/G B MAIN STEAM RELEASE LAST 15 MIN	0	LBM
25.	(P0598)	5/G C MAIN STEAM RELEASE LAST 15 MIN	0	LBM
26.	(P0599)	5/G D MAIN STEAM RELEASE LAST 15 MIN	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CT
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CT
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	612	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	612	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	612	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	612	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	630	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RVLIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	856	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.5E+5	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-9	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0723) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	166	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.09	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	OFF	ON/OFF
6.	(D2438) N5 PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	1	MPH
2.	(A0485) LOWER WIND SPEED	1	MPH
3.	(A0484) UPPER WIND DIRECTION	191	DEG
4.	(A0489) LOWER WIND DIRECTION	193	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-3	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	4	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	630	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	630	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	630	DEG F
4.	(A0062)	IN-CORE TEMP EC2 T/C 7	630	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	630	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	630	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	630	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	630	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	630	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	630	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	630	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	630	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	630	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	630	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	630	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	630	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	630	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	630	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	630	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	630	DEG F
21.	(A1453)	IN-CORE TEMP F05 T/C 44	630	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	630	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	595	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	595	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	595	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	595	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	610	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RULIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	856	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.5E+5	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	5.0E-10	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0729) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETR	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	166	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.12	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0.5	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	OFF	ON/OFF
6.	(D2438) NS PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	610	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	610	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	610	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	610	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	610	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	610	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	610	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	610	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	610	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	610	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	610	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	610	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	610	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	610	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	610	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	610	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	610	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	610	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	610	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	610	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	610	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	610	DEG F
23.	(P0596)	5/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	5/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	5/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	5/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLI5 TRAIN A LR	70	%
32.	(A0807)	RVLI5 TRAIN A DP	100	%
33.	(A0813)	RVLI5 TRAIN B UR	64	%
34.	(A0808)	RVLI5 TRAIN B LR	70	%
35.	(A0814)	RVLI5 TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	570	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	570	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	570	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	570	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	597	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	30	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	2335	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	2335	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	60	%
14.	(A0806) RVLIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	900	PPM
20.	(A1248) SOURCE RANGE LEVEL	1.0E+5	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	61	%
2.	(A0680) S/G B LEVEL (WR)	61	%
3.	(A0686) S/G C LEVEL (WR)	61	%
4.	(A0692) S/G D LEVEL (WR)	61	%
5.	(A0723) S/G A STEAM PRESSURE	960	PSIG
6.	(A0729) S/G B STEAM PRESSURE	960	PSIG
7.	(A0735) S/G C STEAM PRESSURE	960	PSIG
8.	(A0741) S/G D STEAM PRESSURE	960	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	3.75	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	3.75	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	3.75	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	3.75	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	0	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	0	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	0	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	0	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	75	GPM
2.	(A1262) FWST LEVEL	100	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	166	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	ON	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	OFF	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	0	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	OFF	ON/OFF
10.	(D2445) ND PUMP B STATUS	OFF	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	0.15	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	115	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	0.6	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	OFF	ON/OFF
6.	(D2438) N5 PUMP B STATUS	OFF	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0948) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	597	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	597	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	597	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	597	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	597	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	597	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	597	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	597	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	597	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	597	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	597	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	597	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	597	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	597	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	597	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	597	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	597	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	597	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	597	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	597	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	597	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	597	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	563	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	563	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	563	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	563	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	558	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	558	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	558	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	558	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	585	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	0	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	1300	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	0	%
14.	(A0806) RVLIS TRAIN A UR	64	%
15.	(D2037) NC PUMP A STATUS	ON	ON/OFF
16.	(D2085) NC PUMP B STATUS	ON	ON/OFF
17.	(D2038) NC PUMP C STATUS	ON	ON/OFF
18.	(D2086) NC PUMP D STATUS	ON	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	900	PPM
20.	(A1248) SOURCE RANGE LEVEL	1.0E+5	CP5
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	1100	PSIG
6.	(A0729) S/G B STEAM PRESSURE	1100	PSIG
7.	(A0735) S/G C STEAM PRESSURE	1100	PSIG
8.	(A0741) S/G D STEAM PRESSURE	1100	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	95	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	95	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	95	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	95	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	90	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	200	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	3.4	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	125	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	2.8	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	ON	ON/OFF
6.	(D2438) N5 PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	3	MPH
2.	(A0485) LOWER WIND SPEED	3	MPH
3.	(A0484) UPPER WIND DIRECTION	191	DEG
4.	(A0489) LOWER WIND DIRECTION	193	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-3	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	4	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	585	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	585	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	585	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	585	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	585	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	585	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	585	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	585	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	585	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	585	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	585	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	585	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	585	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	585	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	585	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	585	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	585	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	585	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	585	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	585	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	585	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	585	DEG F
23.	(P0596)	5/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	5/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	5/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	5/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	70	%
32.	(A0807)	RVLIS TRAIN A DP	100	%
33.	(A0813)	RVLIS TRAIN B UR	64	%
34.	(A0808)	RVLIS TRAIN B LR	70	%
35.	(A0814)	RVLIS TRAIN B DP	100	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	560	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	560	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	560	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	560	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	555	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	555	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	555	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	555	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	577	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	0	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	1138	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	0	%
14.	(A0806) RVLIS TRAIN A UR	106	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.0E+4	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	1100	PSIG
6.	(A0729) S/G B STEAM PRESSURE	1100	PSIG
7.	(A0735) S/G C STEAM PRESSURE	1100	PSIG
8.	(A0741) S/G D STEAM PRESSURE	1100	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	95	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	95	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	95	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	95	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	82	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	260	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	3.4	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	125	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	3.0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	ON	ON/OFF
6.	(D2438) N5 PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	4	MPH
2.	(A0485) LOWER WIND SPEED	4	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C	3	577	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C	5	577	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C	6	577	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C	7	577	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C	10	577	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C	11	577	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C	12	577	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C	14	577	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C	15	577	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C	16	577	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C	17	577	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C	19	577	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C	20	577	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C	22	577	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C	23	577	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C	24	577	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C	26	577	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C	27	577	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C	28	577	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C	29	577	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C	44	577	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C	45	577	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM	
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM	
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM	
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM	
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS	
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS	
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS	
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR	
31.	(A0812)	RVLIS TRAIN A LR	64	%	
32.	(A0807)	RVLIS TRAIN A DP	17	%	
33.	(A0813)	RVLIS TRAIN B UR	106	%	
34.	(A0808)	RVLIS TRAIN B LR	64	%	
35.	(A0814)	RVLIS TRAIN B DP	17	%	

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	555	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	555	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	555	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	555	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	555	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	555	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	555	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	555	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	560	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	0	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	1098	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	0	%
14.	(A0806) RVLIS TRAIN A UR	103	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	8.0E+3	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	1100	PSIG
6.	(A0729) S/G B STEAM PRESSURE	1100	PSIG
7.	(A0735) S/G C STEAM PRESSURE	1100	PSIG
8.	(A0741) S/G D STEAM PRESSURE	1100	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	95	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	95	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	95	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	95	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	64	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	260	GPM
5.	(D2456) NI PUMP A STATUS	OFF	ON/OFF
6.	(D2446) NI PUMP B STATUS	OFF	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.4	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	120	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	4.4	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	ON	ON/OFF
6.	(D2438) NS PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	190	DEG
4.	(A0489) LOWER WIND DIRECTION	192	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-2	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	3	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1433) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	560	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	560	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	560	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	560	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	560	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	560	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	560	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	560	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	560	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	560	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	560	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	560	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	560	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	560	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	560	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	560	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	560	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	560	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	560	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	560	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	560	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	560	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	64	%
32.	(A0807)	RVLIS TRAIN A DP	17	%
33.	(A0813)	RVLIS TRAIN B UR	103	%
34.	(A0808)	RVLIS TRAIN B LR	14	%
35.	(A0814)	RVLIS TRAIN B DP	17	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	536	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	538	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	538	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	538	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	538	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	538	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	538	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	538	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	545	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	0	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	960	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	0	%
14.	(A0806) RVLIS TRAIN A UR	103	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	3.0E+3	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	940	PSIG
6.	(A0729) S/G B STEAM PRESSURE	940	PSIG
7.	(A0735) S/G C STEAM PRESSURE	940	PSIG
8.	(A0741) S/G D STEAM PRESSURE	940	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	70	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	70	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	70	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	70	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NU LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	35	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	710	GPM
5.	(D2456) NI PUMP A STATUS	ON	ON/OFF
6.	(D2446) NI PUMP B STATUS	ON	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.4	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	120	DEG F
3.	(A1418) CONTAINMENT SUPP LEVEL A	6.3	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	ON	ON/OFF
6.	(D2438) NS PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF33A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF33B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF34 UNIT VENT EXT. RANGE MON	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	3	MPH
2.	(A0495) LOWER WIND SPEED	3	MPH
3.	(A0484) UPPER WIND DIRECTION	190	DEG
4.	(A0489) LOWER WIND DIRECTION	192	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-2	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	3	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C	3	545	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C	5	545	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C	6	545	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C	7	545	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C	10	545	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C	11	545	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C	12	545	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C	14	545	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C	15	545	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C	16	545	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C	17	545	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C	19	545	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C	20	545	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C	22	545	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C	23	545	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C	24	545	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C	26	545	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C	27	545	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C	28	545	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C	29	545	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C	44	545	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C	45	545	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0		LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0		LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0		LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0		LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0		CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0		CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0		CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0		R/HR
31.	(A0812)	RVLI5 TRAIN A LR	64		%
32.	(A0807)	RVLI5 TRAIN A DP	17		%
33.	(A0813)	RVLI5 TRAIN B UR	103		%
34.	(A0808)	RVLI5 TRAIN B LR	64		%
35.	(A0814)	RVLI5 TRAIN B DP	17		%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	500	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	500	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	500	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	500	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	500	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	500	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	500	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	500	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	510	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	10	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	750	PSIG
12.	(A0713) PRESURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESURIZER LEVEL 1	3.0	%
14.	(A0806) RVL S TRAIN A UR	106	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	6.0E+2	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	700	PSIG
6.	(A0729) S/G B STEAM PRESSURE	700	PSIG
7.	(A0735) S/G C STEAM PRESSURE	700	PSIG
8.	(A0741) S/G D STEAM PRESSURE	700	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	53	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	53	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	53	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	53	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NU LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	11	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	756	GPM
5.	(D2456) NI PUMP A STATUS	ON	ON/OFF
6.	(D2446) NI PUMP B STATUS	ON	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.3	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	120	DEG F
3.	(A1418) CONTAINMENT SWRP LEVEL A	7.2	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	ON	ON/OFF
6.	(D2438) NS PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	- 4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	510	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	510	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	510	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	510	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	510	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	510	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	510	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	510	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	510	DEG F
10.	(A0115)	IN-CORE TEMP J02 T/C 16	510	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	510	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	510	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	510	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	510	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	510	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	510	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	510	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	510	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	510	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	510	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	510	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	510	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	64	%
32.	(A0807)	RVLIS TRAIN A DP	17	%
33.	(A0813)	RVLIS TRAIN B UR	106	%
34.	(A0808)	RVLIS TRAIN B LR	64	%
35.	(A0814)	RVLIS TRAIN B DP	17	%

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A. PRIMARY SYSTEMS:

1.	(A0668)	NC LOOP A HOT LEG TEMP (WR)	475	DEG F
2.	(A0669)	NC LOOP B HOT LEG TEMP (WR)	475	DEG F
3.	(A0670)	NC LOOP C HOT LEG TEMP (WR)	475	DEG F
4.	(A0671)	NC LOOP D HOT LEG TEMP (WR)	475	DEG F
5.	(A0700)	NC LOOP A COLD LEG TEMP (WR)	475	DEG F
6.	(A0706)	NC LOOP B COLD LEG TEMP (WR)	475	DEG F
7.	(A0712)	NC LOOP C COLD LEG TEMP (WR)	475	DEG F
8.	(A0718)	NC LOOP D COLD LEG TEMP (WR)	475	DEG F
9.	(P0828)	AVERAGE INCORE T/C (5 HIGHEST)	480	DEG F
10.	(P1545)	NC SUBCOOLING MARGIN	10	DEG F
11.	(A0719)	NC PRESSURE (WR) LOOP 3	602	PSIG
12.	(A0713)	PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707)	PRESSURIZER LEVEL 1	9	%
14.	(A0806)	RULIS TRAIN A UR	106	%
15.	(D2037)	NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085)	NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038)	NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086)	NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214)	REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248)	SOURCE RANGE LEVEL	5.0E+2	CPS
21.	(A0766)	INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738)	POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674)	S/G A LEVEL (WR)	56	%
2.	(A0680)	S/G B LEVEL (WR)	56	%
3.	(A0686)	S/G C LEVEL (WR)	56	%
4.	(A0692)	S/G D LEVEL (WR)	56	%
5.	(A0723)	S/G A STEAM PRESSURE	545	PSIG
6.	(A0729)	S/G B STEAM PRESSURE	545	PSIG
7.	(A0735)	S/G C STEAM PRESSURE	545	PSIG
8.	(A0741)	S/G D STEAM PRESSURE	545	PSIG
9.	(P0154)	S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156)	S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158)	S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160)	S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974)	S/G A AUX FEEDWATER FLOW	45	GPM
14.	(A0975)	S/G B AUX FEEDWATER FLOW	45	GPM
15.	(A0976)	S/G C AUX FEEDWATER FLOW	45	GPM
16.	(A0977)	S/G D AUX FEEDWATER FLOW	45	GPM
17.	(P0614)	PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452)	NV LETDOWN FLOW	0	GPM
2.	(A1262)	FWST LEVEL	11	%
3.	(A1013)	SNSWP LEVEL	572	FT
4.	(A0586)	4 KV BUS ETA	4.16	KV
5.	(A0575)	4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820)	CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450)	CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440)	CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325)	TOTAL COLD LEG INJECTION FLOW	800	GPM
5.	(D2456)	NI PUMP A STATUS	ON	ON/OFF
6.	(D2446)	NI PUMP B STATUS	ON	ON/OFF
7.	(A0902)	ND HX OUTLET FLOW	0	GPM
8.	(A0908)	ND HX OUTLET FLOW	0	GPM
9.	(D2455)	ND PUMP A STATUS	ON	ON/OFF
10.	(D2445)	ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499)	CONTAINMENT PRESSURE	2.3	PSIG
2.	(A1178)	UPPER CONTAINMENT TEMPERATURE	120	DEG F
3.	(A1418)	CONTAINMENT SUMP LEVEL A	7.8	FT
4.	(A0939)	CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448)	N5 PUMP A STATUS	ON	ON/OFF
6.	(D2438)	N5 PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061)	EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308)	EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314)	EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315)	EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048)	EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822)	EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013)	EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019)	EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483)	UPPER WIND SPEED	2	MPH
2.	(A0485)	LOWER WIND SPEED	2	MPH
3.	(A0484)	UPPER WIND DIRECTION	192	DEG
4.	(A0489)	LOWER WIND DIRECTION	194	DEG
5.	(A1127)	BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490)	AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172)	AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496)	DEW POINT		DEG C
9.	(A0491)	PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110)	SIGMA THETA		DEG
11.	(A1104)	UNIT VENT FLOW RATE	160000	CFM
12.	(P1483)	RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	480	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	480	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	480	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	480	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	480	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	480	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	480	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	480	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	480	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	480	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	480	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	480	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	480	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	480	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	480	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	480	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	480	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	480	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	480	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	480	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	480	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	480	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	64	%
32.	(A0807)	RVLIS TRAIN A DP	17	%
33.	(A0813)	RVLIS TRAIN B UR	106	%
34.	(A0808)	RVLIS TRAIN B LR	64	%
35.	(A0814)	RVLIS TRAIN B DP	17	%

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A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	451	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	451	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	451	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	451	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	451	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	451	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	451	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	451	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	455	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	23	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	540	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	11	%
14.	(A0806) RVLIS TRAIN A UR	106	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.0E+2	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	431	PSIG
6.	(A0729) S/G B STEAM PRESSURE	431	PSIG
7.	(A0735) S/G C STEAM PRESSURE	431	PSIG
8.	(A0741) S/G D STEAM PRESSURE	431	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	45	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	45	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	45	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	45	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NU LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	11	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	800	GPM
5.	(D2456) NI PUMP A STATUS	ON	ON/OFF
6.	(D2446) NI PUMP B STATUS	ON	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.2	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	119	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	8.1	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	ON	ON/OFF
6.	(D2438) NS PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

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H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	455	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	455	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	455	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	455	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	455	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	455	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	455	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C 14	455	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	455	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	455	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	455	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	455	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	455	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	455	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	455	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	455	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	455	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	455	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	455	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	455	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	455	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	455	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	64	%
32.	(A0807)	RVLIS TRAIN A DP	17	%
33.	(A0813)	RVLIS TRAIN B UR	106	%
34.	(A0808)	RVLIS TRAIN B LR	64	%
35.	(A0814)	RVLIS TRAIN B DP	17	%

CATAWBA NUCLEAR STATION
PLANT DATA AND STATUS INFORMATION

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UNIT 2
PLANT STATUS _____

A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	433	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	433	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	433	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	433	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	433	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	433	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	433	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	433	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	435	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	25	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	460	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	11	%
14.	(A0806) RVLIS TRAIN A UR	106	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.0E+2	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	351	PSIG
6.	(A0729) S/G B STEAM PRESSURE	351	PSIG
7.	(A0735) S/G C STEAM PRESSURE	351	PSIG
8.	(A0741) S/G D STEAM PRESSURE	351	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	45	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	45	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	45	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	45	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	11	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2430) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	820	GPM
5.	(D2456) NI PUMP A STATUS	ON	ON/OFF
6.	(D2446) NI PUMP B STATUS	ON	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.1	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	118	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	8.1	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) N5 PUMP A STATUS	ON	ON/OFF
6.	(D2438) N5 PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN.	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

CATAWBA NUCLEAR STATION
 PLANT DATA AND STATUS INFORMATION

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UNIT 2
 PLANT STATUS _____

H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C	3	435	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C	5	435	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C	6	435	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C	7	435	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C	10	435	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C	11	435	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C	12	435	DEG F
8.	(A0104)	IN-CORE TEMP G12 T/C	14	435	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C	15	435	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C	16	435	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C	17	435	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C	19	435	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C	20	435	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C	22	435	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C	23	435	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C	24	435	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C	26	435	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C	27	435	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C	28	435	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C	29	435	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C	44	435	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C	45	435	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.		0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.		0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.		0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.		0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)		0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)		0	CTS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)		0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)		0	R/HR
31.	(A0812)	RVLIS TRAIN A LR		64	%
32.	(A0807)	RVLIS TRAIN A DP		17	%
33.	(A0813)	RVLIS TRAIN B UR		106	%
34.	(A0808)	RVLIS TRAIN B LR		64	%
35.	(A0814)	RVLIS TRAIN B DP		17	%

CATAWBA NUCLEAR STATION
PLANT DATA AND STATUS INFORMATION

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UNIT 2
PLANT STATUS _____

A. PRIMARY SYSTEMS:

1.	(A0668) NC LOOP A HOT LEG TEMP (WR)	410	DEG F
2.	(A0669) NC LOOP B HOT LEG TEMP (WR)	410	DEG F
3.	(A0670) NC LOOP C HOT LEG TEMP (WR)	410	DEG F
4.	(A0671) NC LOOP D HOT LEG TEMP (WR)	410	DEG F
5.	(A0700) NC LOOP A COLD LEG TEMP (WR)	410	DEG F
6.	(A0706) NC LOOP B COLD LEG TEMP (WR)	410	DEG F
7.	(A0712) NC LOOP C COLD LEG TEMP (WR)	410	DEG F
8.	(A0718) NC LOOP D COLD LEG TEMP (WR)	410	DEG F
9.	(P0828) AVE INCORE T/C (5 HIGHEST)	412	DEG F
10.	(P1545) NC SUBCOOLING MARGIN	42	DEG F
11.	(A0719) NC PRESSURE (WR) LOOP 3	445	PSIG
12.	(A0713) PRESSURIZER PRESSURE 1	1700	PSIG
13.	(A0707) PRESSURIZER LEVEL 1	11	%
14.	(A0806) RVLIS TRAIN A UR	106	%
15.	(D2037) NC PUMP A STATUS	OFF	ON/OFF
16.	(D2085) NC PUMP B STATUS	OFF	ON/OFF
17.	(D2038) NC PUMP C STATUS	OFF	ON/OFF
18.	(D2086) NC PUMP D STATUS	OFF	ON/OFF
19.	(A1214) REACTOR COOLANT BORON CONC.	920	PPM
20.	(A1248) SOURCE RANGE LEVEL	5.0E+2	CPS
21.	(A0766) INTERMEDIATE RANGE LEVEL	1.0E-11	MA
22.	(P0738) POWER RANGE LEVEL	0	% FP

B. SECONDARY SYSTEMS:

1.	(A0674) S/G A LEVEL (WR)	56	%
2.	(A0680) S/G B LEVEL (WR)	56	%
3.	(A0686) S/G C LEVEL (WR)	56	%
4.	(A0692) S/G D LEVEL (WR)	56	%
5.	(A0723) S/G A STEAM PRESSURE	300	PSIG
6.	(A0729) S/G B STEAM PRESSURE	300	PSIG
7.	(A0735) S/G C STEAM PRESSURE	300	PSIG
8.	(A0741) S/G D STEAM PRESSURE	300	PSIG
9.	(P0154) S/G A FEEDWATER FLOW	0	MPPH
10.	(P0156) S/G B FEEDWATER FLOW	0	MPPH
11.	(P0158) S/G C FEEDWATER FLOW	0	MPPH
12.	(P0160) S/G D FEEDWATER FLOW	0	MPPH
13.	(A0974) S/G A AUX FEEDWATER FLOW	40	GPM
14.	(A0975) S/G B AUX FEEDWATER FLOW	40	GPM
15.	(A0976) S/G C AUX FEEDWATER FLOW	40	GPM
16.	(A0977) S/G D AUX FEEDWATER FLOW	40	GPM
17.	(P0614) PREVIOUS 15 MIN. STEAM RELEASE	0	LBM

C. AUXILIARY SYSTEMS:

1.	(A0452) NV LETDOWN FLOW	0	GPM
2.	(A1262) FWST LEVEL	11	%
3.	(A1013) SNSWP LEVEL	572	FT
4.	(A0586) 4 KV BUS ETA	4.16	KV
5.	(A0575) 4 KV BUS ETB	4.16	KV

D. SAFETY INJECTION SYSTEMS:

1.	(A0820) CHARGING LINE FLOW CONTROL	0	GPM
2.	(D2450) CENTRIFUGAL CHARGING PUMP A	OFF	ON/OFF
3.	(D2440) CENTRIFUGAL CHARGING PUMP B	ON	ON/OFF
4.	(P1325) TOTAL COLD LEG INJECTION FLOW	826	GPM
5.	(D2456) NI PUMP A STATUS	ON	ON/OFF
6.	(D2446) NI PUMP B STATUS	ON	ON/OFF
7.	(A0902) ND HX OUTLET FLOW	0	GPM
8.	(A0908) ND HX OUTLET FLOW	0	GPM
9.	(D2455) ND PUMP A STATUS	ON	ON/OFF
10.	(D2445) ND PUMP B STATUS	ON	ON/OFF

E. CONTAINMENT SYSTEMS:

1.	(A1499) CONTAINMENT PRESSURE	2.0	PSIG
2.	(A1178) UPPER CONTAINMENT TEMPERATURE	117	DEG F
3.	(A1418) CONTAINMENT SUMP LEVEL A	8.0	FT
4.	(A0939) CONTAINMENT H2 CONC TRAIN A	0	%
5.	(D2448) NS PUMP A STATUS	ON	ON/OFF
6.	(D2438) NS PUMP B STATUS	ON	ON/OFF

F. RADIATION SYSTEMS:

1.	(A0061) EMF48 REACTOR COOLANT MONITOR	5.0E+4	CPM
2.	(A1308) EMF53A CONT. HIGH RANGE MONITOR	2	R/HR
3.	(A1314) EMF53B CONT. HIGH RANGE MONITOR	2	R/HR
4.	(A1315) EMF54 UNIT VENT EXT. RANGE MON.	2	R/HR
5.	(A0048) EMF37 UNIT VENT IODINE MONITOR	1000	CPM
6.	(P1822) EMF37 DELTA COUNTS LAST 15 MIN	0	CTS
7.	(A0013) EMF36L UNIT VENT GAS MONITOR	100	CPM
8.	(A0019) EMF36H UNIT VENT GAS MONITOR	0	CPM

G. ENVIRONMENTAL SYSTEMS:

1.	(A0483) UPPER WIND SPEED	2	MPH
2.	(A0485) LOWER WIND SPEED	2	MPH
3.	(A0484) UPPER WIND DIRECTION	192	DEG
4.	(A0489) LOWER WIND DIRECTION	194	DEG
5.	(A1127) BAROMETRIC PRESSURE	29.3	IN HG
6.	(A0490) AMBIENT AIR D/T 662 TO 762	-4	DEG C
7.	(A1172) AMBIENT AIR TEMPERATURE AT 662	5	DEG C
8.	(A0496) DEW POINT		DEG C
9.	(A0491) PRECIPITATION IN LAST 15 MIN.	0	IN
10.	(A1110) SIGMA THETA		DEG
11.	(A1104) UNIT VENT FLOW RATE	160000	CFM
12.	(P1483) RL DISCHARGE FLOW	30500	GPM

CATAWBA NUCLEAR STATION
 PLANT DATA AND STATUS INFORMATION

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UNIT 2
 PLANT STATUS _____

H. ADDITIONAL INFORMATION:

1.	(A0038)	IN-CORE TEMP C04 T/C 3	412	DEG F
2.	(A0050)	IN-CORE TEMP C08 T/C 5	412	DEG F
3.	(A0056)	IN-CORE TEMP C12 T/C 6	412	DEG F
4.	(A0062)	IN-CORE TEMP E02 T/C 7	412	DEG F
5.	(A0080)	IN-CORE TEMP E14 T/C 10	412	DEG F
6.	(A0086)	IN-CORE TEMP G02 T/C 11	412	DEG F
7.	(A0092)	IN-CORE TEMP G04 T/C 12	412	DEG F
8.	(A0164)	IN-CORE TEMP G12 T/C 14	412	DEG F
9.	(A0110)	IN-CORE TEMP G14 T/C 15	412	DEG F
10.	(A0116)	IN-CORE TEMP J02 T/C 16	412	DEG F
11.	(A1445)	IN-CORE TEMP J06 T/C 17	412	DEG F
12.	(A0033)	IN-CORE TEMP J10 T/C 19	412	DEG F
13.	(A0039)	IN-CORE TEMP J14 T/C 20	412	DEG F
14.	(A0051)	IN-CORE TEMP L04 T/C 22	412	DEG F
15.	(A0057)	IN-CORE TEMP L08 T/C 23	412	DEG F
16.	(A0063)	IN-CORE TEMP L12 T/C 24	412	DEG F
17.	(A0075)	IN-CORE TEMP N04 T/C 26	412	DEG F
18.	(A0081)	IN-CORE TEMP N06 T/C 27	412	DEG F
19.	(A0087)	IN-CORE TEMP N10 T/C 28	412	DEG F
20.	(A0093)	IN-CORE TEMP N12 T/C 29	412	DEG F
21.	(A1463)	IN-CORE TEMP F05 T/C 44	412	DEG F
22.	(A1469)	IN-CORE TEMP F09 T/C 45	412	DEG F
23.	(P0596)	S/G A MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
24.	(P0597)	S/G B MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
25.	(P0598)	S/G C MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
26.	(P0599)	S/G D MAIN STEAM RELEASE LAST 15 MIN.	0	LBM
27.	(P0129)	EMF37 DELTA COUNTS (0-5)	0	CTS
28.	(P0130)	EMF37 DELTA COUNTS (5-10)	0	CYS
29.	(P0131)	EMF37 DELTA COUNTS (10-15)	0	CTS
30.	(P0132)	MAIN STEAM EMF AVERAGE (PREVIOUS 15 MIN.)	0	R/HR
31.	(A0812)	RVLIS TRAIN A LR	64	%
32.	(A0807)	RVLIS TRAIN A DP	17	%
33.	(A0813)	RVLIS TRAIN B UR	106	%
34.	(A0808)	RVLIS TRAIN B LR	64	%
35.	(A0814)	RVLIS TRAIN B DP	17	%

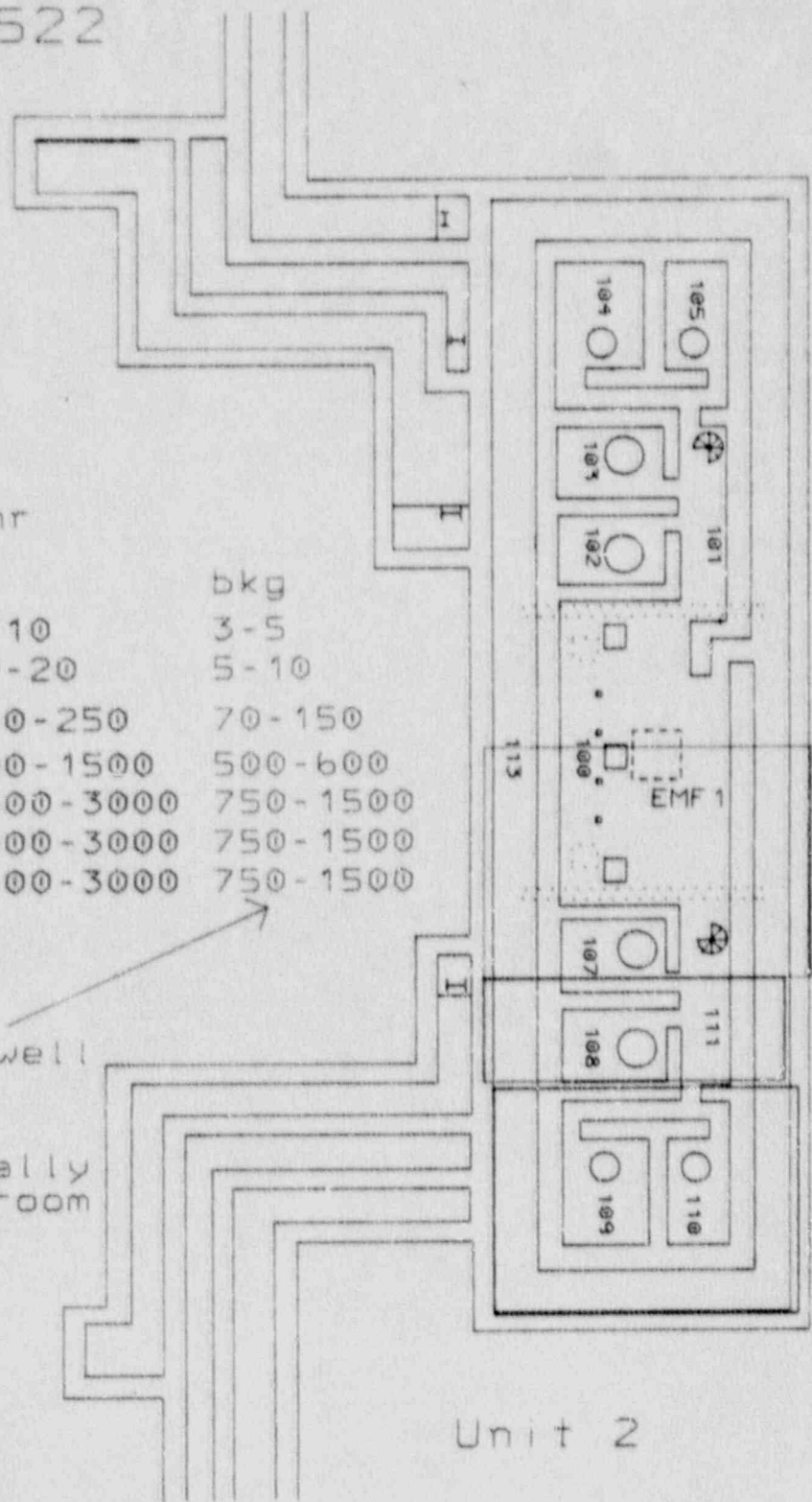
Unit 1

Elevation 522

Time		mR/hr	
2045	3	2	bkg
* 2050	10-25	5-10	3-5
2055	20-50	10-20	5-10
2100	250-500	150-250	70-150
2115	1500-2000	600-1500	500-600
2130	3000-3500	1500-3000	750-1500
2145	3000-3500	1500-3000	750-1500
2200	3000-3500	1500-3000	750-1500

EMF1 and stairwell
on 543 also

*EMF1 alarms locally
and in control room



Unit 2

RADIOLOGICAL MONITORING DRILL

February 19, 1987

The following drill scenario was developed specifically to evaluate the emergency preparedness of the Dose Assessment and Field Monitoring groups. The drill scenario does not factor in actions of other groups (OPS, Maintenance, I&E, etc.), which might mitigate the accident or factor in protective action recommendations that they might do.

All the data provided is all that is necessary to make it through the drill. If the controller does not have specific data that is requested, it therefore, is not needed to satisfactorily progress through the drill.

The drill scenario is a core melt sequence with the release path through stuck Containment Air Release and Addition valves, then through the unit vent. The discharge is filtered through charcoal filters; therefore, the plume is considered 99% noble gases. Particulate and iodines are not considered for this drill.

Players will include:

- Emergency Coordinator
- Station Health Physicist
- Dose Assessment Group
- Field Monitoring Group
- Offsite Communicator
- Performance Engineer

\reh\conf.drl

Catawba Nuclear Station
Exercise Feb. 19, 1987
Dose Assessment and Field Monitoring

- 0800 Drill starts with Unit 2 at 100% power. Containment Air Release and Addition (VQ) started to reduce containment pressure. Normal release through unit vent in progress. A Notification of Unusual Event was declared at 0700 due to fuel failure as indicated by sample results.
- 0810 Reactor coolant monitor EMF 48 alarms at trip 1, indicating fuel failure.
- 0815 Operations tries to stop VQ, but valves VQ2A, VQ3B(4") and VQ10 are stuck open. Alert declared based on loose parts monitor alarm on Reactor Coolant Pump 2 A. TSC activation begins.
- 0830 EMF 48 alarms at trip 2.
- 0855 Reactor coolant pumps trip. Containment monitor EMF 39L alarms at trip 1 and 2, indicating increased activity in containment. Containment Isolation activated. Containment Evacuation alarms.
- 0900 Reactor trip on low flow.
- 0910 Containment area radiation monitor EMF 17 alarms.
- 0915 Partial core melt.
- 0920 Unit Vent radiation monitor EMF 36L alarms at trip.
- 0921 Unit Vent radiation monitor EMF 36L alarms at trip 2.
- 0930 .01% of core inventory goes into containment atmosphere (5.5E1 Ci/m noble, 1.3E-1 Ci/ml iodine). These conditions indicate a Site Area Emergency.
- 0945 .04% of core inventory goes into containment atmosphere (2.5E2 Ci/ml noble, 5.6E-1 Ci/ml iodine). These conditions indicate a General Emergency.
- 1000 .05% of core inventory goes into containment atmosphere (2.8E2 Ci/ml noble, 6.3E-1 Ci/ml iodine).
- 1015 .086% of core inventory goes into containment atmosphere (4.6E2 Ci/ml noble, 1.0 Ci/ml iodine). Core stops melting and cools down.
- 1020 VQ valves are closed. Release stops.

1030 Plume is spreading throughout the area. Dose consequences
-1200 decrease, but actual affected area increases.

1200 Drill stops.

\reh\drill-2.019

Date/Time _____ / 0800

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble $5.5E-5$ uCi/ml

Iodine $1.0E-10$ uCi/ml

Unit Vent concentration Noble $7.4E-6$ uCi/ml

Iodine _____ uCi/ml

Time since trip is -1:00 (HR:MN)

=====

MESSAGE (inform players) Unit 2 at 100% power.

VQ started to reduce containment pressure. A notification of Unusual Event was declared at 0700 due to fuel failure indicated by sample results.

DATA

Containment Pressure .2 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 45 _____ cpm

EMF 59L 1.5E 3 cpm

EMF 59R _____ cpm

EMF 524 2 R/hr

EMF 525 2 R/hr

EMF 54 2 R/hr

EMF 57 _____ cpm

EMF 57 delta counts _____ cpm

EMF 56L 100 cpm

EMF 56H _____ cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 192 degree from North

Lower wind direction 194 degree from North

ΔT .9 degree C

Unit Vent Flow Rate 90000 cfm

Date/Time 10810

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 5.5E-5 uCi/ml

Iodine 1.0E-10 uCi/ml

Unit Vent concentration Noble 7.4E-6 uCi/ml

Iodine _____ uCi/ml

Time since trip is -00:50 (HR:MN)

MESSAGE (inform players)

EMF 4B trip / alarms.

DATA*

Containment Pressure .2 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 4B 5.0E4 cpm

EMF 39L 1.5E3 cpm

EMF 39H _____ cpm

EMF 53A 2 R/hr

EMF 53B 2 R/hr

EMF 54 2 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L 100 cpm

EMF 36H _____ cpm

Upper wind speed 3 mph

Lower wind speed 3 mph

Upper wind direction 185 degree from North

Lower wind direction 187 degree from North

ΔT 1.0 degree C

Unit Vent Flow Rate 85000 cfm

* inform only if asked

Date/Time / 0815

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble $5.5E-5$ uCi/m³

Iodine $1.0E-10$ uCi/m³

Unit Vent concentration Noble $7.4E-6$ uCi/m³

Iodine uCi/m³

Time since trip is -00:45 (HR:MN)

MESSAGE (inform players)

Tried to stop VQ valves VQ2A, VQ3B and VQ10 are stuck open.
Alert declared based on loose parts monitor alarm on NC Pump 2A.
TSC is being activated.

DATA

Containment Pressure .1 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 45 5E4 cpm

EMF 39L 1.5E3 cpm

EMF 39H cpm

EMF 53A 2 R/hr

EMF 53B 2 R/hr

EMF 54 2 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 36L 100 cpm

EMF 36H cpm

Upper wind speed 3 mph

Lower wind speed 3 mph

Upper wind direction 170 degrees from North

Lower wind direction 171 degrees from North

ΔT .5 degrees C

Unit Vent Flow Rate 80000 cfm

Date/Time 0830

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 5.5E-5 uCi/m³

Iodine 1.0E+10 uCi/m³

Unit Vent concentration Noble 7.4E-6 uCi/m³

Iodine _____ uCi/m³

Time since trip is -00:30 (HR:MN)

MESSAGE (inform players)

EME 4B top 2 alarms

DATA

Containment Pressure .1 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ A/hr EMF 12 _____ R/hr

EMF 29 _____ I/hr EMF 13 _____ R/hr

EMF 4E 5E5 cpm

EMF 39L 1.5E3 cpm

EMF 39H _____ cpm

EMF 53A 2 R/hr

EMF 53B 2 R/hr

EMF 54 2 R/hr

EMF 27 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L 100 cpm

EMF 36H _____ cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 170 degree from North

Lower wind direction 172 degree from North

ΔT .9 degree C

Unit Vent Flow Rate 60000 cfm

Date/Time _____ / 0845

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble $5.5E-5$ uCi/m³

Iodine $1.0E-10$ uCi/m³

Unit Vent concentration Noble $7.4E-6$ uCi/m³

Iodine _____ uCi/m³

Time since trip is -00:15 (HR:MN)

MESSAGE (inform players)

DATA

Containment Pressure .1 PSIG

Upper Containment Temperature _____ degree F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 2.5E6 cpm

EMF 39L 1.5E3 cpm

EMF 39H _____ cpm

EMF 53A 2 R/hr

EMF 53B 2 R/hr

EMF 54 2 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L 100 cpm

EMF 36H _____ cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 190 degree from North

Lower wind direction 192 degree from North

ΔT +1.1 degree C

Unit Vent Flow Rate 40000 cfm

Date/Time 1 0855

DRILL RELATED INFO(do not inform players)
Containment Building concentration Noble 4.8E-3 uCi/m³
Iodine 1.08E-5 uCi/m³
Unit Vent concentration Noble 4.8E-5 uCi/m³
Iodine _____ uCi/m³

Time since trip is 00:05 (HR:MN)

MESSAGE (inform players)

NC pumps trip, EMP 39L trip 1 & 2 alarms, Containment Evacuation
activated, Containment Evacuation alarms

DATA *

Containment Pressure .1 PSIG
Upper Containment Temperature _____ degree F
EMP 26 _____ R/hr EMP 10 _____ R/hr
EMP 27 _____ R/hr EMP 11 _____ R/hr
EMP 28 _____ R/hr EMP 12 _____ R/hr
EMP 29 _____ R/hr EMP 13 _____ R/hr
EMP 4E 3E6 cpm
EMP 39L 2E4 cpm +
EMP 39H _____ cpm
EMP 53A 2 R/hr
EMP 53B 2 R/hr
EMP 54 2 R/hr
EMP 37 _____ cpm
EMP 37 delta counts _____ cpm
EMP 36L 200 cpm
EMP 36H _____ cpm
Upper wind speed 1 mph
Lower wind speed 1 mph
Upper wind direction 185 degree from North
Lower wind direction 186 degree from North
LAT +1.0 degree C
Unit Vent Flow Rate 5000 cfm

**Inform only if asked
+ Isolated. Inform only if put back into service*

Date/Time / 0900

DRILL RELATED INFO (do not inform players)
Containment Building concentration Noble 2.2E-3 uCi/m³
Iodine 1.6E-5 uCi/m³
Unit Vent concentration Noble 4.8E-5 uCi/m³
Iodine uCi/m³

Time since trip is 00:00 (HP:MN)

MESSAGE (inform players)
Reactor trip on low flow.

DATA
Containment Pressure .2 PSIG
Upper Containment Temperature degrees F
EMF 26 R/hr EMF 10 R/hr
EMF 27 R/hr EMF 11 R/hr
EMF 28 R/hr EMF 12 R/hr
EMF 29 R/hr EMF 13 R/hr
EMF 46 cpm
EMF 39L 354 cpm +
EMF 39H cpm
EMF 52A 2 R/hr
EMF 52B 2 R/hr
EMF 54 2 R/hr
EMF 37 cpm
EMF 37 delta counts cpm
EMF 36L 200 cpm
EMF 36H cpm
Upper wind speed 1 mph
Lower wind speed 1 mph
Upper wind direction 195 degrees from North
Lower wind direction 196 degrees from North
 ΔT +1.0 degrees C
Unit Vent Flow Rate 1200 cfm

+ Isolated. In Arm only if put back into service

Date/Time / 09:10

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 1.2E-2 uCi/m³

Iodine 2.7E-5 uCi/m³

Unit Vent concentration Noble 4.8E-5 uCi/m³

Iodine uCi/m³

Time since trip is +00:10 (HR:MN)

MESSAGE (inform players)

EMF 12 alarms

DATA

Containment Pressure .2 PSIG

Upper Containment Temperature degree F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 48 cpm

EMF 39L 554 cpm +

EMF 39H cpm

EMF 55A 2 R/hr

EMF 55B 2 R/hr

EMF 54 2 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 34L 200 cpm

EMF 36H cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 185 degree from North

Lower wind direction 187 degree from North

ΔT +1.0 degree C

Unit Vent Flow Rate 1000 cfm

*Inform only if asked

+ Inform only if put back into service

Date/Time / 0915

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 1.9E-2 uCi/m³

Iodine 4.3E-5 uCi/m³

Unit Vent concentration: Noble 9.6E-5 uCi/m³

Iodine uCi/m³

Time since trip is +00:15 (HR:MN)

MESSAGE (inform players)

Partial core melt due to uncovered core

DATA

Containment Pressure .2 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 42 cpm

EMF 39L 8E4 cpm +

EMF 39H cpm

EMF 33A 2 R/hr

EMF 33B 2 R/hr

EMF 34 2 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 36L 400 cpm

EMF 36H cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 170 degree from North

Lower wind direction 171 degree from North

ΔT +1.0 degree C

Unit Vent Flow Rate 1000 cfm

Isolated
+ Inform only if put back into service

Date/Time 1 0920

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 2.4E-2 uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble 6.9E-3 uCi/ml
Iodine _____ uCi/ml

Time since trip is +00:20 (HR:MN)

MESSAGE (inform players)

EMF 36L trip 1 alarms

DATA *

Containment Pressure .2 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 4E _____ cpm
EMF 39L 1.0E5 cpm +
EMF 39H _____ cpm
EMF 52A 2 R/hr
EMF 52B 2 R/hr
EMF 54 2 R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L 7E3 cpm
EMF 36H _____ cpm
Upper wind speed 1 mph
Lower wind speed 1 mph
Upper wind direction 175 degree from North
Lower wind direction 176 degree from North
 ΔT .9 degree C
Unit Vent Flow Rate 1000 cfm

* Inform only if asked.
+ Isolated only if put back into service

Date/Time / 0921

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 2.9E-2 uCi/ml
Iodine 6.5E-5 uCi/ml
Unit Vent concentration: Noble 2.4E-3 uCi/ml
Iodine uCi/ml

Time since trip is +00:21 (HR:MN)

MESSAGE (inform players)

EMF36L trip 2 alarms

DATA *

Containment Pressure .2 PSIG
Upper Containment Temperature degrees F
EMF 26 R/hr EMF 10 R/hr
EMF 27 R/hr EMF 11 R/hr
EMF 28 R/hr EMF 12 R/hr
EMF 29 R/hr EMF 13 R/hr
EMF 48 cpm
EMF 39L 1.2E5 cpm +
EMF 39R cpm
EMF 52A 2 R/hr
EMF 52B 2 R/hr
EMF 54 2 R/hr
EMF 37 cpm
EMF 37 delta counts cpm
EMF 36L 1.0E4 cpm
EMF 36R cpm
Upper wind speed 1 mph
Lower wind speed 1 mph
Upper wind direction 190 degrees from North
Lower wind direction 191 degrees from North
 ΔT .7 degrees C
Unit Vent Flow Rate 1000 cfm

* Inform only if asked.
+ Isolated, Inform only if put back into service.

Date/Time / 0923

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble $3.6E-2$ uCi/m³

Iodine $8.0E-5$ uCi/m³

Unit Vent concentration Noble $2.9E-2$ uCi/m³

Iodine uCi/m³

Time since trip is +00:23 (HR:MIN)

=====

MESSAGE (inform players)

=====

DATA*

Containment Pressure .3 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 42 cpm

EMF 39L 1.575 cpm+

EMF 39H 7.0E1 cpm+

EMF 53A 2 R/hr

EMF 53B 2 R/hr

EMF 54 2 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 36L 1.2E5 cpm

EMF 36H 5.0E1 cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 185 degrees from North

Lower wind direction 187 degrees from North

Z.T. .8 degrees C

Unit Vent Flow Rate 1000 cfm

* Inform only if asked.

+ Isolated. Inform only if ~~place~~ put back into service.

Date/Time _____ / 0930

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 5.5E1 uCi/ml

Iodine 1.2E-1 uCi/ml

Unit Vent concentration Noble 5.3E-1 uCi/ml

Iodine _____ uCi/ml

Percentage of core inventory that goes into containment atmosphere = .01%

Time since trip is 100:30 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure .3 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 _____ cpm

EMF 39L 1.0E7 cpm +

EMF 39H 1.0E5 cpm +

EMF 53A 12 R/hr

EMF 53B 12 R/hr

EMF 54 13 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L 1.0E7 cpm

EMF 36H 1.0E5 cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 175 degrees from North

Lower wind direction 177 degrees from North

ΔT +6.1 degrees C

Unit Vent Flow Rate 1000 cfm

+ Isolated. Inform only if put back into service

Date/Time / 0945

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 2.5E2 uCi/m³
Iodine 5.6E-1 uCi/m³

Unit Vent concentration Noble 2.1E2 uCi/m³
Iodine uCi/m³

Percentage of core inventory that goes into containment atmosphere = .04%

Time since trip is 00:45 (HR:MN)

=====

MESSAGE (inform players)

DATA

Containment Pressure .5 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 48 cpm

EMF 39L 1.0E7 cpm +

EMF 39H 4.0E5 cpm +

EMF 53A 5.0E1 R/hr

EMF 53B 5.0E1 R/hr

EMF 54 5.3E1 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 34L 1.0E7 cpm

EMF 36H 4.0E5 cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 192 degrees from North

Lower wind direction degrees from North

ZNT 41 degrees C

Unit Vent Flow Rate 1000 cfm

+ Isolated. Inform only if put back into service.

Date/Time / 1000

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble $2.8E2$ uCi/m³

Iodine $6.3E-1$ uCi/m³

Unit Vent concentration Noble $2.7E2$ uCi/m³

Iodine uCi/m³

Percentage of core inventory that goes into containment atmosphere → .05%

Time since trip is +01:00 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 48 cpm

EMF 39L $1.0E7$ cpm +

EMF 39H $5.0E5$ cpm +

EMF 55A $6.0E1$ R/hr

EMF 52B $6.2E1$ R/hr

EMF 54 $6.7E1$ R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 36L $1.0E7$ cpm

EMF 36H $5.0E5$ cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 195 degrees from North

Lower wind direction 197 degrees from North

ΔT .9 degrees C

Unit Vent Flow Rate 1000 cfm

Date/Time 1/10/15

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble 4.6E2 uCi/ml
Iodine 1.0E0 uCi/ml

Unit Vent concentration Noble 4.6E2 uCi/ml
Iodine _____ uCi/ml

Percentage of core inventory that goes into containment atmosphere → .086%

Time since trip is +00:15 (HR:MN)

=====

MESSAGE (inform players)

DATA

Containment Pressure 2 PSIG

Upper Containment Temperature _____ degree F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 4B _____ cpm

EMF 39L 1.0E7 cpm+

EMF 39H 9.0E5 cpm+

EMF 53A 1.0E2 R/hr

EMF 53B 1.1E2 R/hr

EMF 54 1.2E2 R/hr

EMF 27 _____ cpm

EMF 37 delta counts _____ cpm

EMF 34L 1.0E7 cpm

EMF 34H 9.0E5 cpm

Upper wind speed 1 mph

Lower wind speed 1 mph

Upper wind direction 193 degree from North

Lower wind direction 194 degree from North

ΔT +1.0 degree C

Unit Vent Flow Rate 1000 cfm

+ Isolated. Inform only if put back into service.

Date/Time / 1020

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble uCi/ml
Iodine uCi/ml

Unit Vent concentration Noble uCi/ml
Iodine uCi/ml

Time since trip is +0:1:20 (HR:MN)

MESSAGE (inform players)

VA valves are closed

DATA *

Containment Pressure 2 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 4B cpm

EMF 39L 1.0E7 cpm +

EMF 39H 7.0E5 cpm +

EMF 53A 7.5E1 R/hr

EMF 53B 7.5E1 R/hr

EMF 54 1.0E1 R/hr

EMF 27 cpm

EMF 37 delta counts cpm

EMF 36L 1.0E7 cpm

EMF 36H 7.0E5 cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 190 degrees from North

Lower wind direction 191 degrees from North

ΔT .8 degrees C

Unit Vent Flow Rate 0 cfm

* Inform only if asked

* Isolated. Inform only if put back into service

Date/Time _____ / 1030

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Unit Vent concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Time since trip is +01:30 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 2 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 17 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 _____ cpm

EMF 39L 1.0E7 cpm +

EMF 39H 4.0E5 cpm +

EMF 53A 5.0E1 R/hr

EMF 53B 5.0E1 R/hr

EMF 54 5 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L 1E7 cpm

EMF 36H _____ cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 190 degree from North

Lower wind direction 191 degree from North

ΔT 1.8 degree C

Unit Vent Flow Rate 0 cfm

Date/Time / 1045

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

Time since trip is 01:45 (HR:MN)

MESSAGE (inform players)

DATA

Containment Pressure 2 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 4E _____ cpm
EMF 39L 1.0E7 cpm +
EMF 39H _____ cpm
EMF 53A 2.7E1 R/hr
EMF 53B 2.5E1 R/hr
EMF 54 2 R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L 1E4 cpm
EMF 36H _____ cpm
Upper wind speed 2 mph
Lower wind speed 2 mph
Upper wind direction 195 degree from North
Lower wind direction 197 degree from North
 ΔT .7 degree C
Unit Vent Flow Rate 0 cfm

Date/Time / 1100

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

Time since trip is 402:00 (HR:MN)

MESSAGE (inform players)

DATA

Containment Pressure 1 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr EMF 10 _____ R/hr
EMF 27 _____ R/hr EMF 11 _____ R/hr
EMF 28 _____ R/hr EMF 12 _____ R/hr
EMF 29 _____ R/hr EMF 13 _____ R/hr
EMF 48 _____ cpm
EMF 39L _____ cpm
EMF 39H _____ cpm
EMF 53A 1.9E1 R/hr
EMF 53B _____ R/hr
EMF 54 2 R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L 100 cpm
EMF 36H _____ cpm
Upper wind speed 3 mph
Lower wind speed 3 mph
Upper wind direction 190 degree from North
Lower wind direction 191 degree from North
 ΔT .6 degree C
Unit Vent Flow Rate 0 cfm

Date/Time / 1115

DRILL RELATED INFO (do not inform players.)

Containment Building concentration Noble uCi/m

Iodine uCi/m

Unit Vent concentration Noble uCi/m

Iodine uCi/m

Time since trip is +02:15 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG

Upper Containment Temperature degrees F

EMF 26 R/hr EMF 10 R/hr

EMF 27 R/hr EMF 11 R/hr

EMF 28 R/hr EMF 12 R/hr

EMF 29 R/hr EMF 13 R/hr

EMF 48 cpm

EMF 39L cpm

EMF 39H cpm

EMF 53A 1.0E1 R/hr

EMF 53B R/hr

EMF 54 2 R/hr

EMF 37 cpm

EMF 37 delta counts cpm

EMF 36L cpm

EMF 36H cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 160 degrees from North

Lower wind direction 161 degrees from North

ΔT -0.5 degrees C

Unit Vent Flow Rate 0 cfm

Date/Time _____ / 1130

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Unit Vent concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Time since trip is +02:30 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 _____ cpm

EMF 39L _____ cpm

EMF 39H _____ cpm

EMF 53A 1.7E1 R/hr

EMF 53B _____ R/hr

EMF 54 2 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L _____ cpm

EMF 36H _____ cpm

Upper wind speed 2 mph

Lower wind speed 2 mph

Upper wind direction 170 degree from North

Lower wind direction 171 degree from North

ΔT +1.0 degree C

Unit Vent Flow Rate 0 cfm

Date/Time _____ / 1145

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Unit Vent concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Time since trip is +02:45 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 _____ cpm

EMF 39L _____ cpm

EMF 39H _____ cpm

EMF 53A 1.651 R/hr

EMF 53B _____ R/hr

EMF 54 2 R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L _____ cpm

EMF 36H _____ cpm

Upper wind speed _____ mph

Lower wind speed _____ mph

Upper wind direction _____ degree from North

Lower wind direction _____ degree from North

ΔT _____ degree C

Unit Vent Flow Rate _____ cfm

Date/Time _____ / 1200

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

Time since trip is +03:20 (HR:MN)

MESSAGE (inform players)

DATA

Containment Pressure 1 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 48 _____ cpm
EMF 39L _____ cpm
EMF 39H _____ cpm
EMF 53A 1.5E1 R/hr
EMF 53B _____ R/hr
EMF 54 2 R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L _____ cpm
EMF 36H _____ cpm
Upper wind speed _____ mph
Lower wind speed _____ mph
Upper wind direction _____ degree from North
Lower wind direction _____ degree from North
 ΔT _____ degree C
Unit Vent Flow Rate _____ cfm

Date/Time 1/12/15

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

Time since trip is +03:15 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 4B _____ cpm
EMF 39L _____ cpm
EMF 39H _____ cpm
EMF 53A 1.4E1 R/hr
EMF 53B _____ R/hr
EMF 54 _____ R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L _____ cpm
EMF 36H _____ cpm
Upper wind speed _____ mph
Lower wind speed _____ mph
Upper wind direction _____ degree from North
Lower wind direction _____ degree from North
 ΔT _____ degree C
Unit Vent Flow Rate _____ cfm

Date/Time _____ / 1230

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Unit Vent concentration Noble _____ uCi/ml

Iodine _____ uCi/ml

Time since trip is +03'30 (HR:MN)

=====

MESSAGE (inform players)

=====

DATA

Containment Pressure 1 PSIG

Upper Containment Temperature _____ degrees F

EMF 26 _____ R/hr EMF 10 _____ R/hr

EMF 27 _____ R/hr EMF 11 _____ R/hr

EMF 28 _____ R/hr EMF 12 _____ R/hr

EMF 29 _____ R/hr EMF 13 _____ R/hr

EMF 48 _____ cpm

EMF 39L _____ cpm

EMF 39H _____ cpm

EMF 53A 1.361 R/hr

EMF 53B _____ R/hr

EMF 54 _____ R/hr

EMF 37 _____ cpm

EMF 37 delta counts _____ cpm

EMF 36L _____ cpm

EMF 36H _____ cpm

Upper wind speed _____ mph

Lower wind speed _____ mph

Upper wind direction _____ degree from North

Lower wind direction _____ degree from North

ΔT _____ degree C

Unit Vent Flow Rate _____ cfm

Date/Time _____ / 1245

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

Time since trip is 03:45 (HR:MN)

MESSAGE (inform players)

DATA

Containment Pressure 1 PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 48 _____ cpm
EMF 39L _____ cpm
EMF 39H _____ cpm
EMF 53A 1.261 R/hr
EMF 53B _____ R/hr
EMF 54 _____ R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L _____ cpm
EMF 36H _____ cpm
Upper wind speed _____ mph
Lower wind speed _____ mph
Upper wind direction _____ degree from North
Lower wind direction _____ degree from North
 ΔT _____ degree C
Unit Vent Flow Rate _____ cfm

Date/Time _____ / 1300

DRILL RELATED INFO (do not inform players)

Containment Building concentration Noble _____ uCi/ml
Iodine _____ uCi/ml
Unit Vent concentration Noble _____ uCi/ml
Iodine _____ uCi/ml

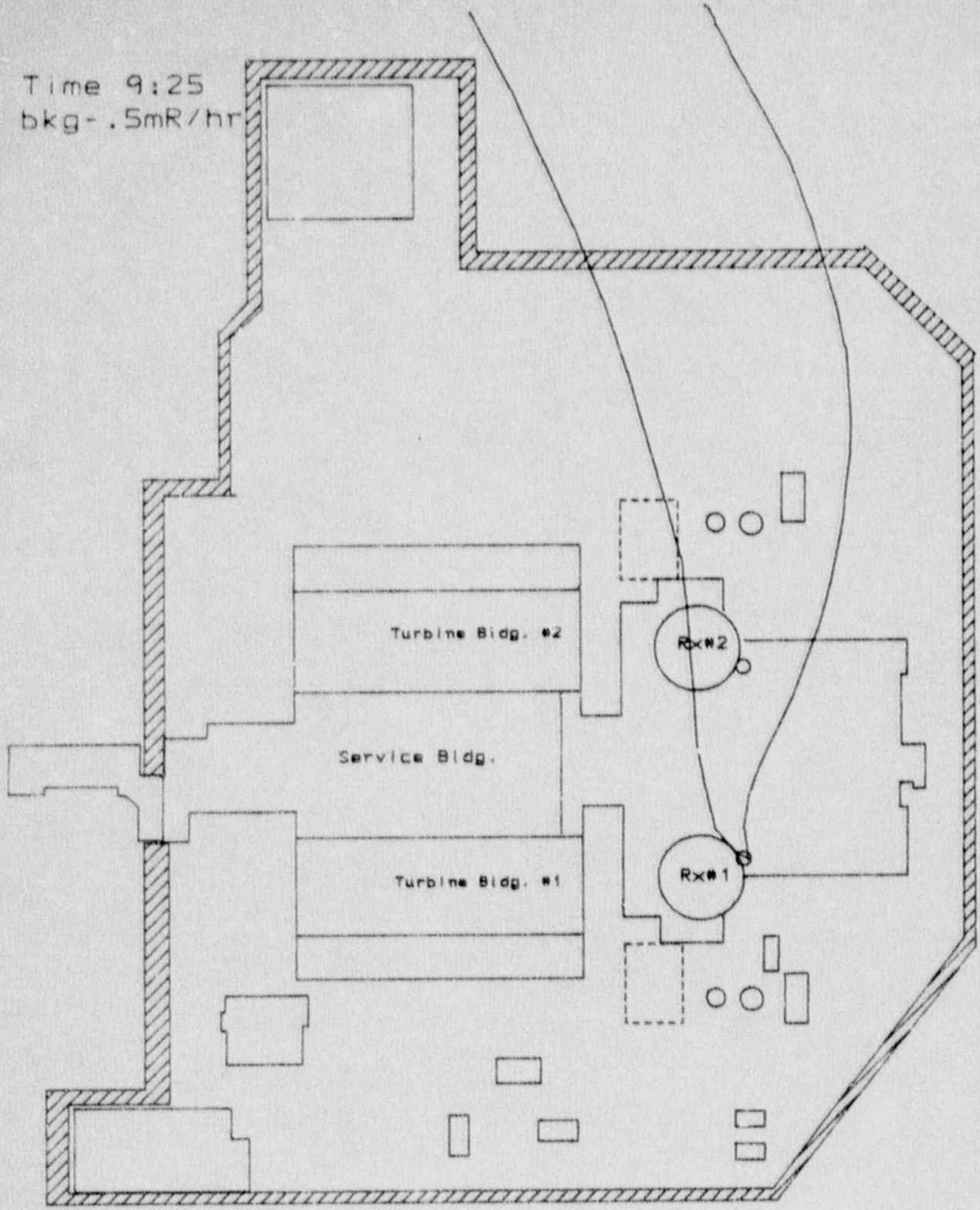
Time since trip is 104:00 (HR:MN)

MESSAGE (inform players)

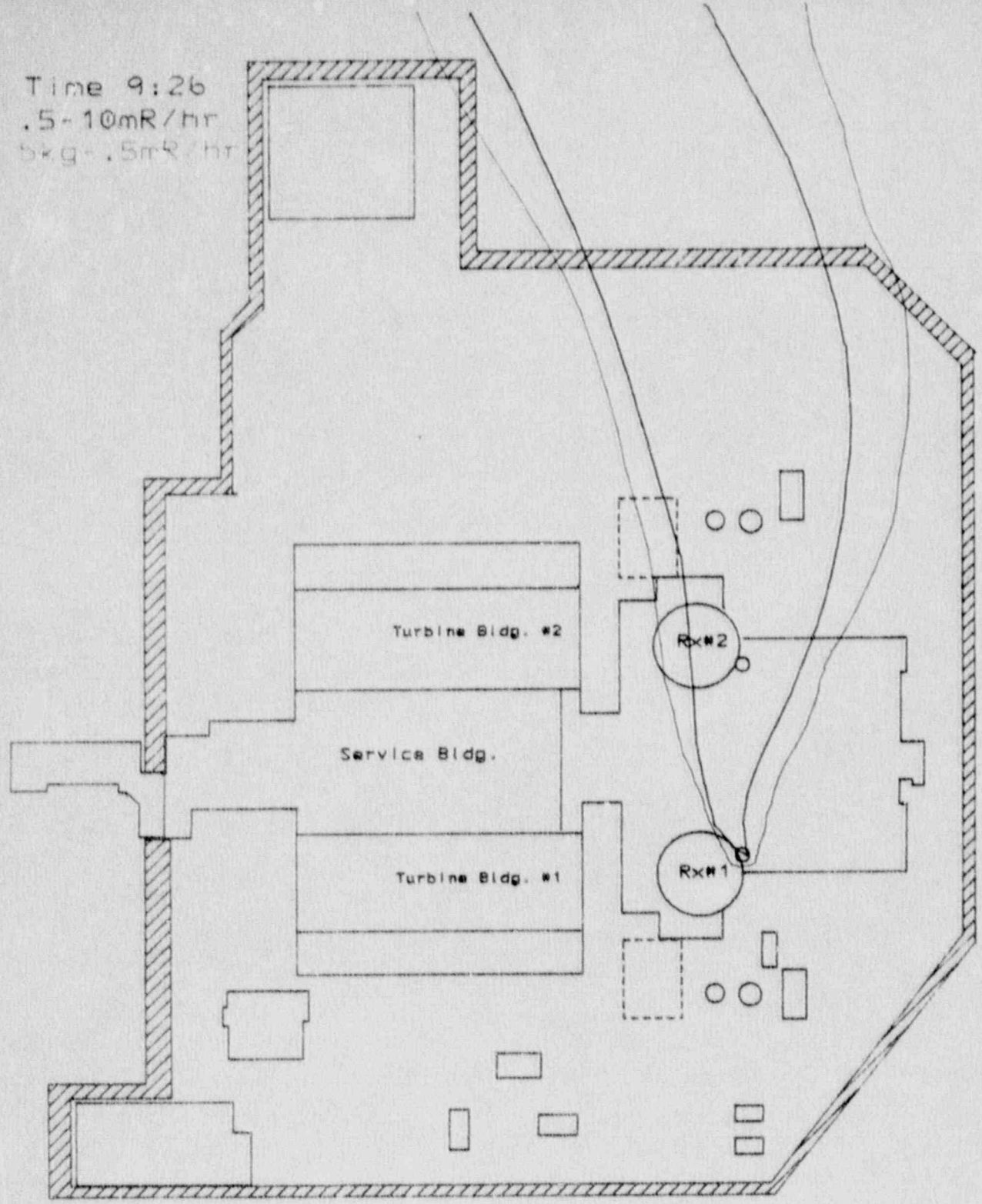
DATA

Containment Pressure _____ PSIG
Upper Containment Temperature _____ degrees F
EMF 26 _____ R/hr
EMF 27 _____ R/hr
EMF 28 _____ R/hr
EMF 29 _____ R/hr
EMF 46 _____ cpm
EMF 39L _____ cpm
EMF 39H _____ cpm
EMF 53A 1.1E1 R/hr
EMF 53B _____ R/hr
EMF 54 _____ R/hr
EMF 37 _____ cpm
EMF 37 delta counts _____ cpm
EMF 36L _____ cpm
EMF 36H _____ cpm
Upper wind speed _____ mph
Lower wind speed _____ mph
Upper wind direction _____ degree from North
Lower wind direction _____ degree from North
 ΔT _____ degree C
Unit Vent Flow Rate _____ cfm

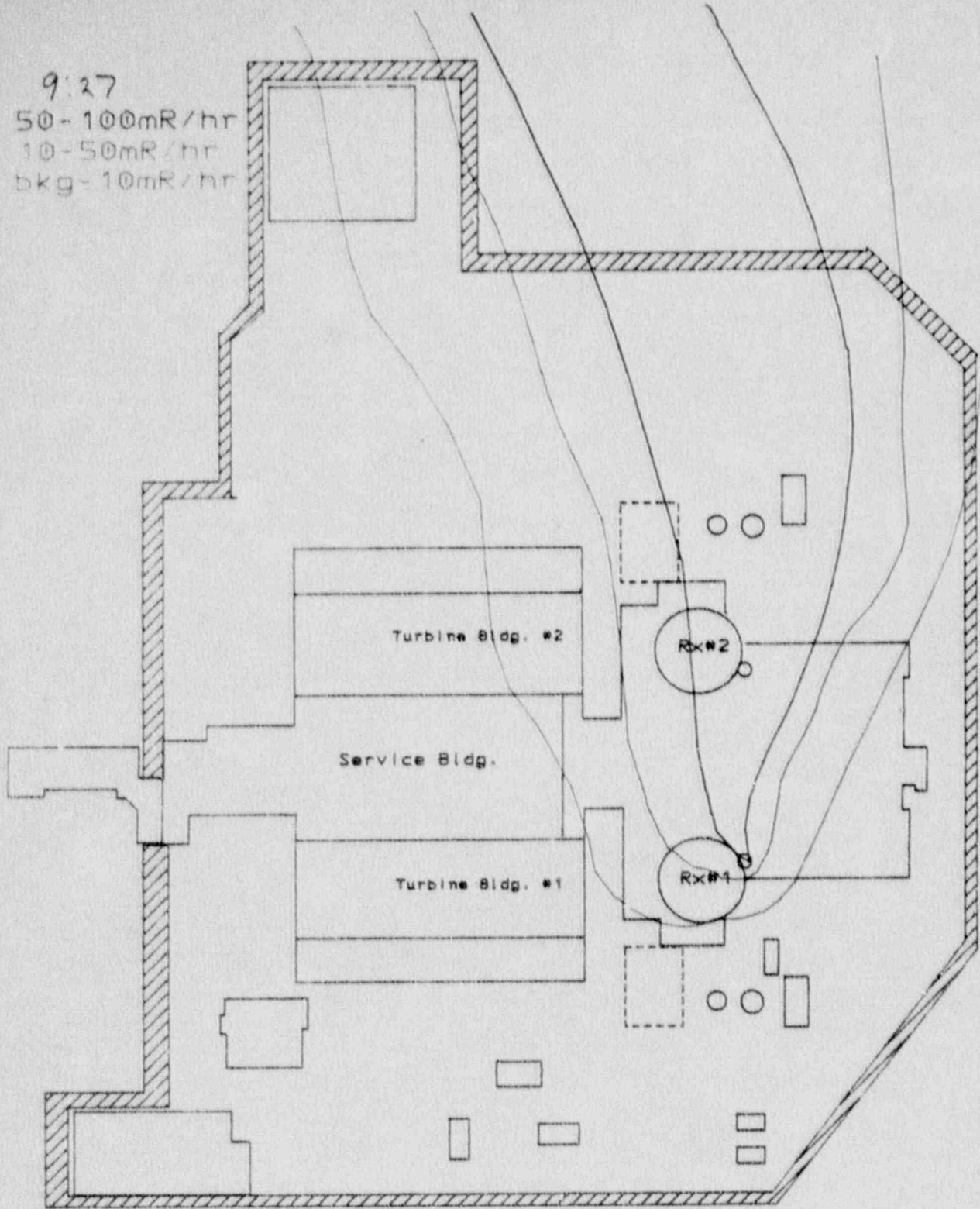
Time 9:25
bkg - .5mR/hr



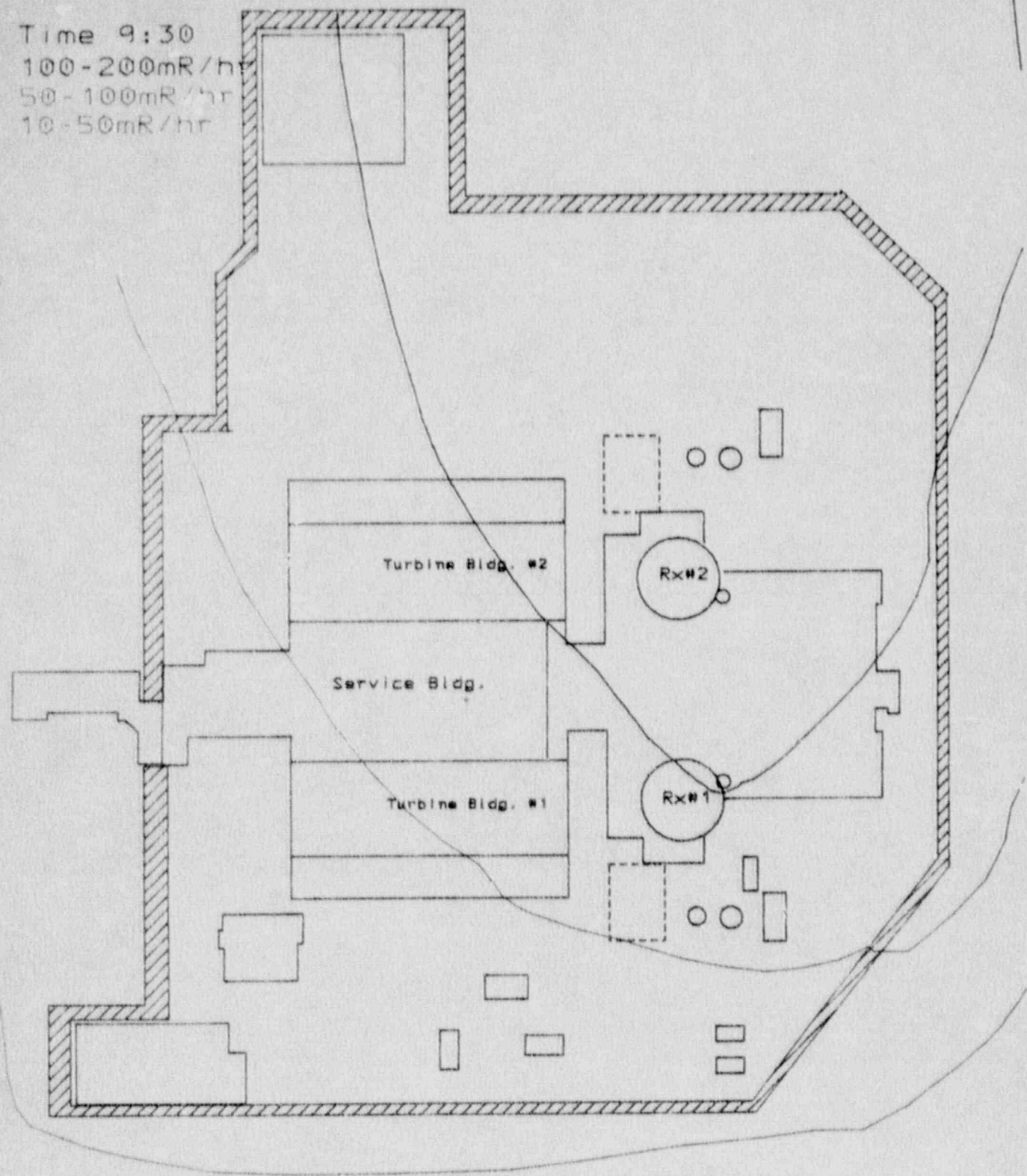
Time 9:26
.5-10mR/hr
bkg-.5mR/hr



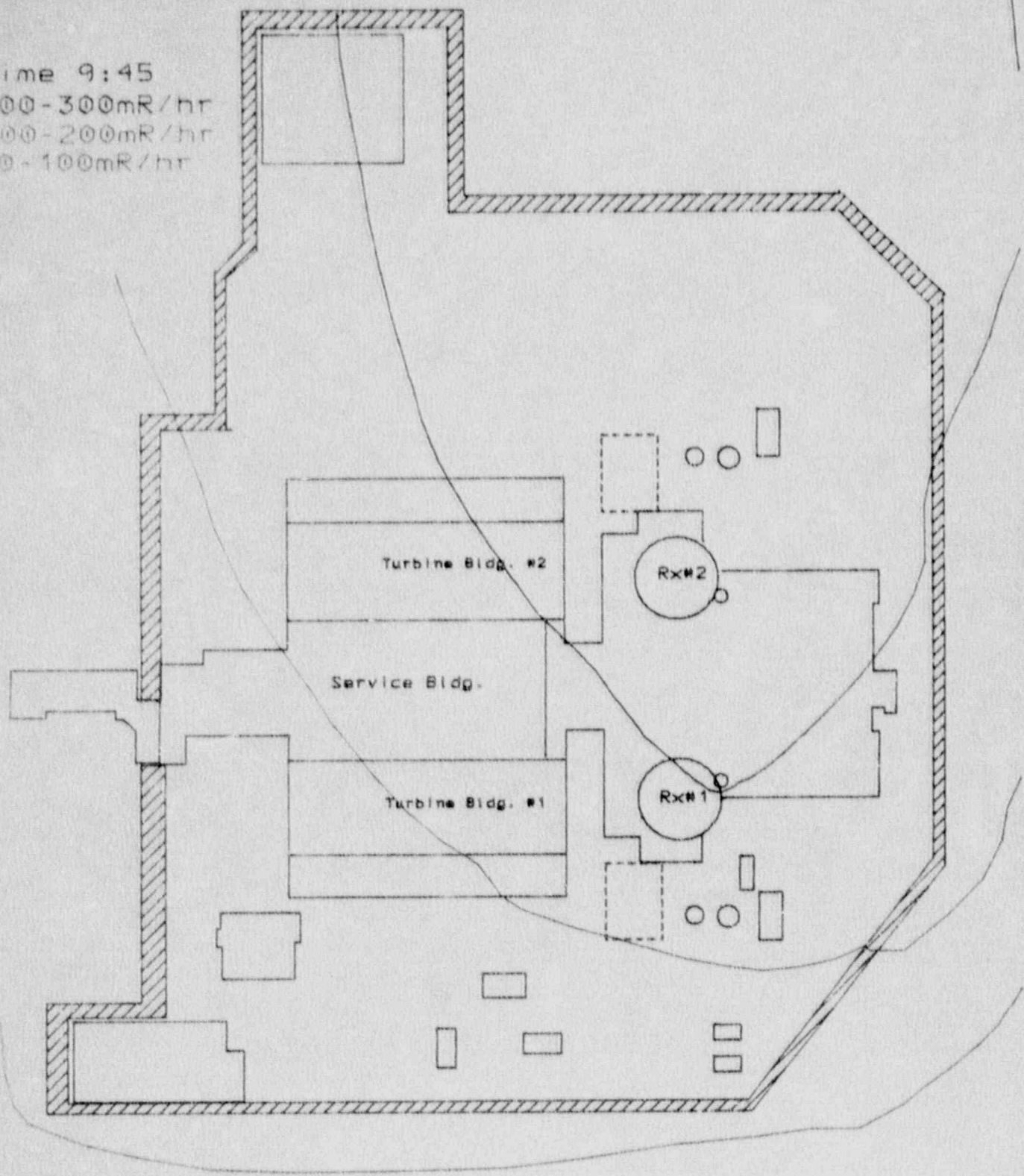
9:27
50-100mR/hr
10-50mR/hr
bkg-10mR/hr



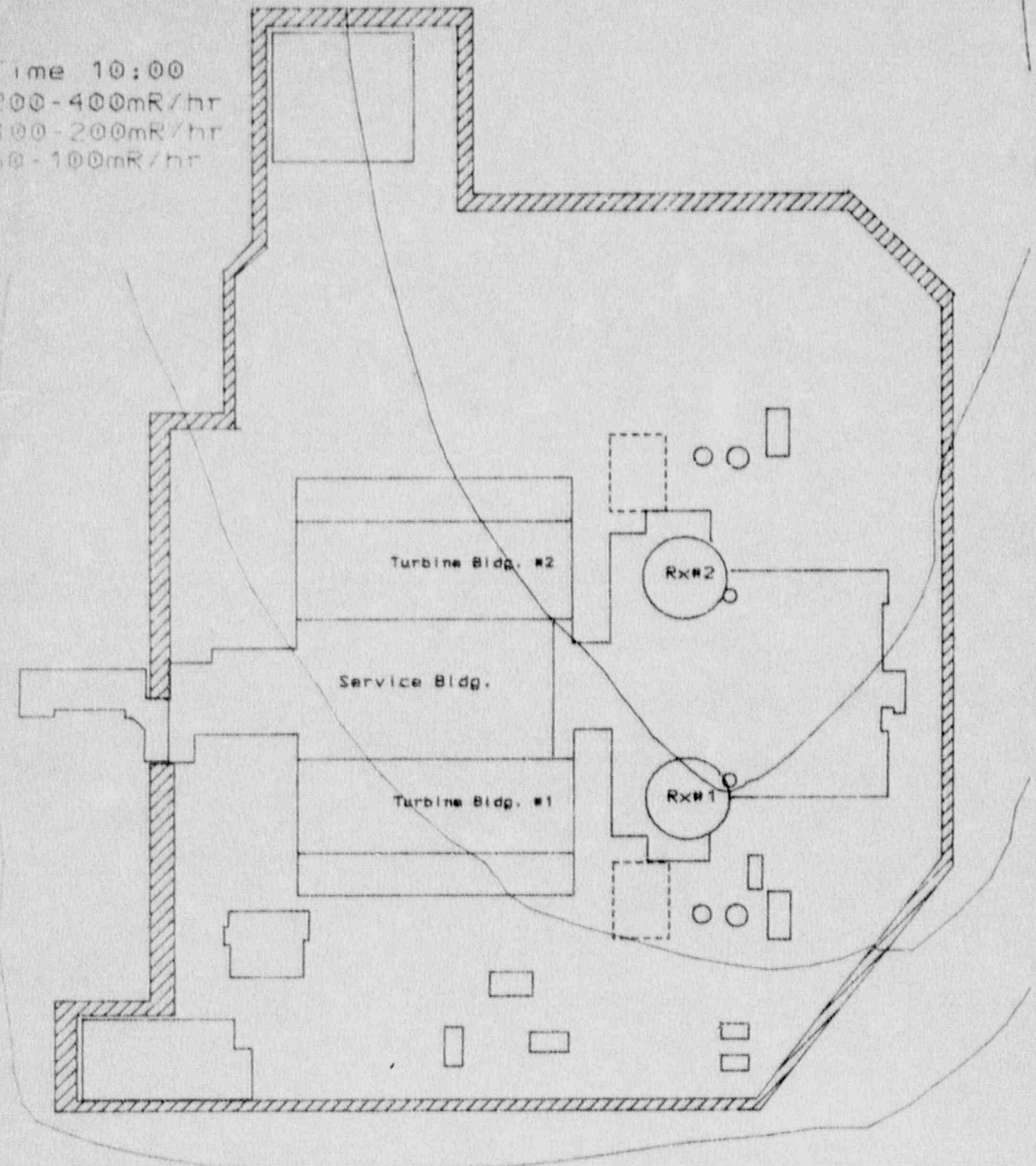
Time 9:30
100-200mR/hr
50-100mR/hr
10-50mR/hr



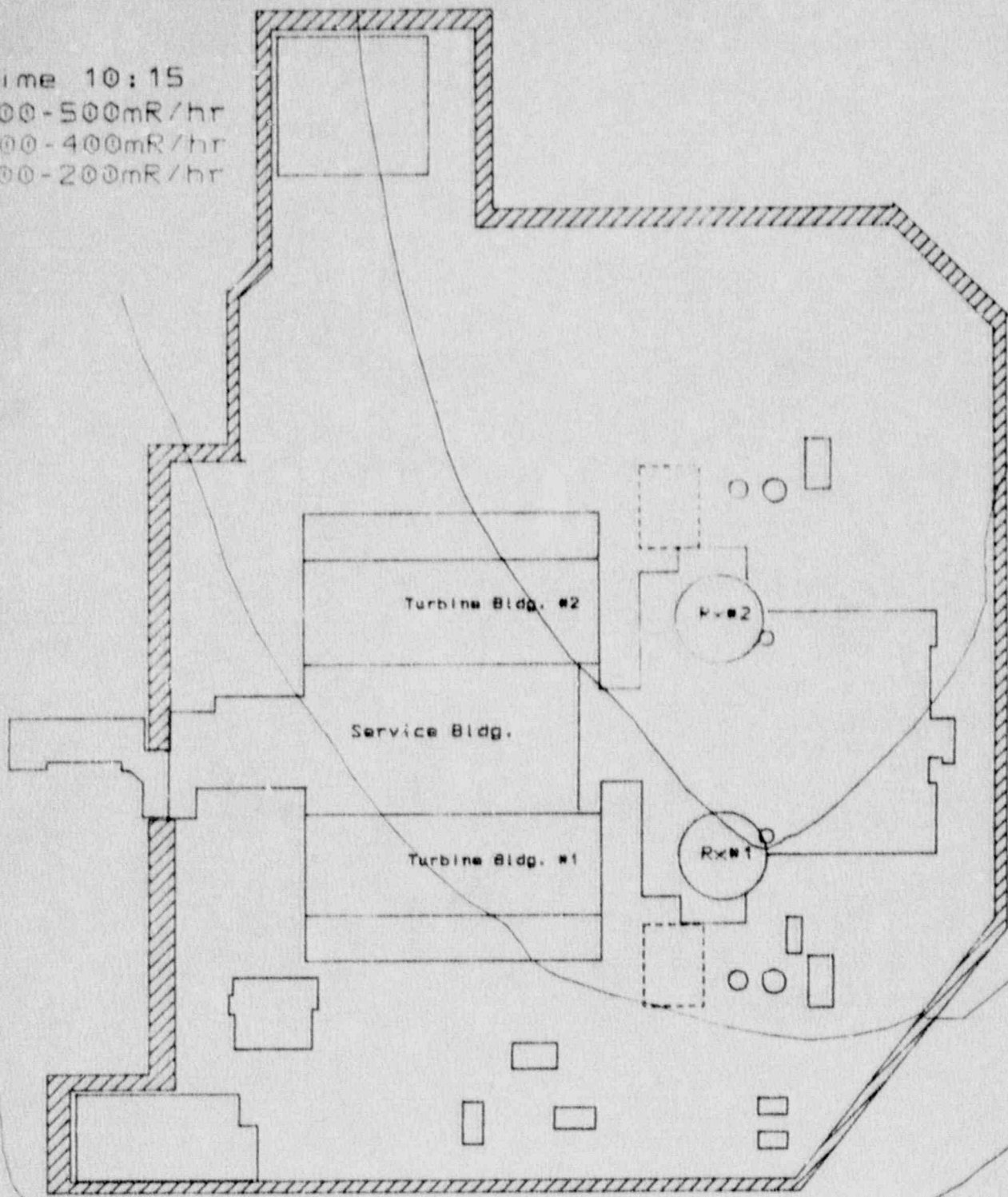
Time 9:45
200-300mR/hr
100-200mR/hr
50-100mR/hr



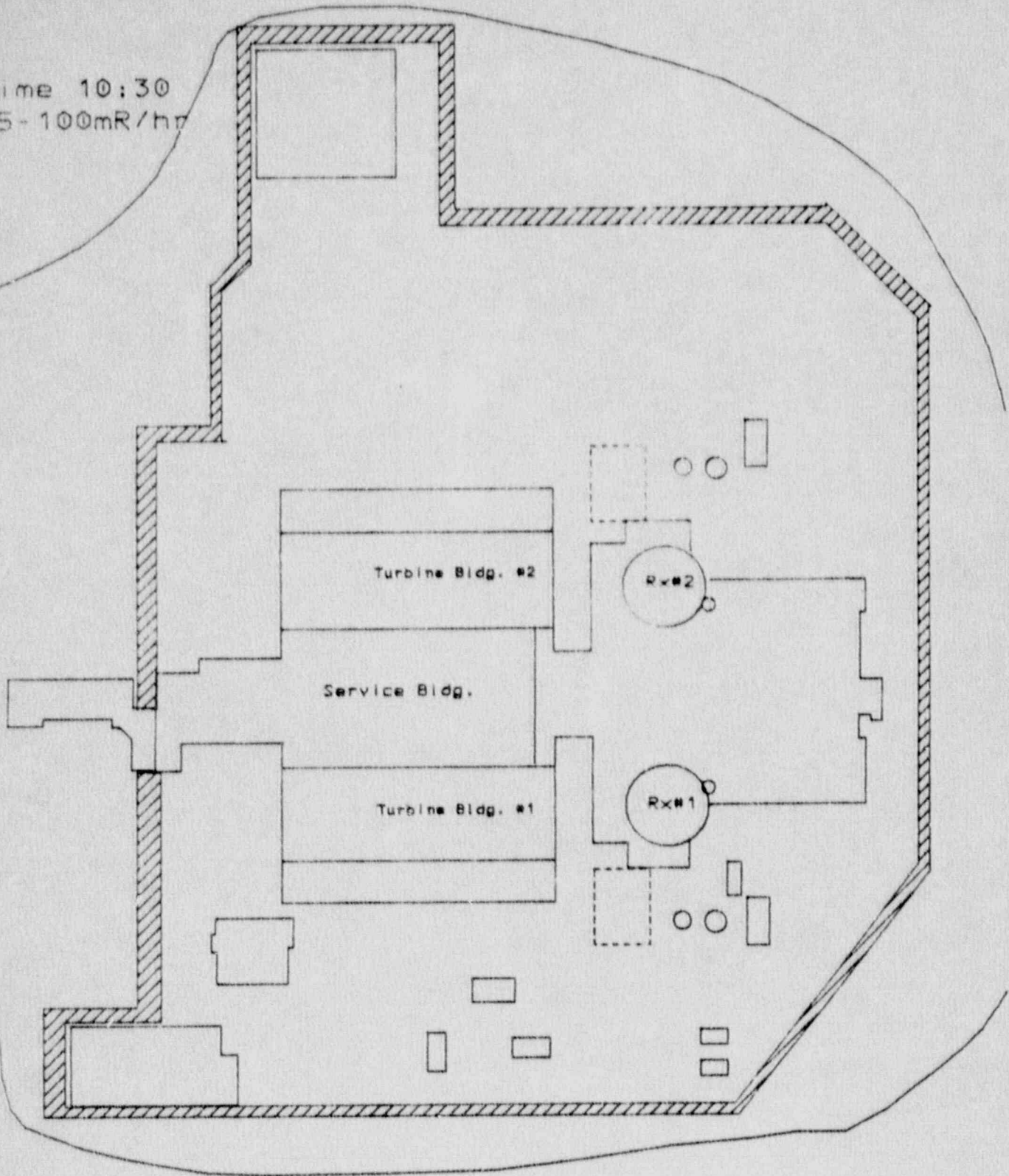
Time 10:00
200-400mR/hr
100-200mR/hr
50-100mR/hr



Time 10:15
400-500mR/hr
200-400mR/hr
100-200mR/hr



Time 10:30
75-100mR/hr



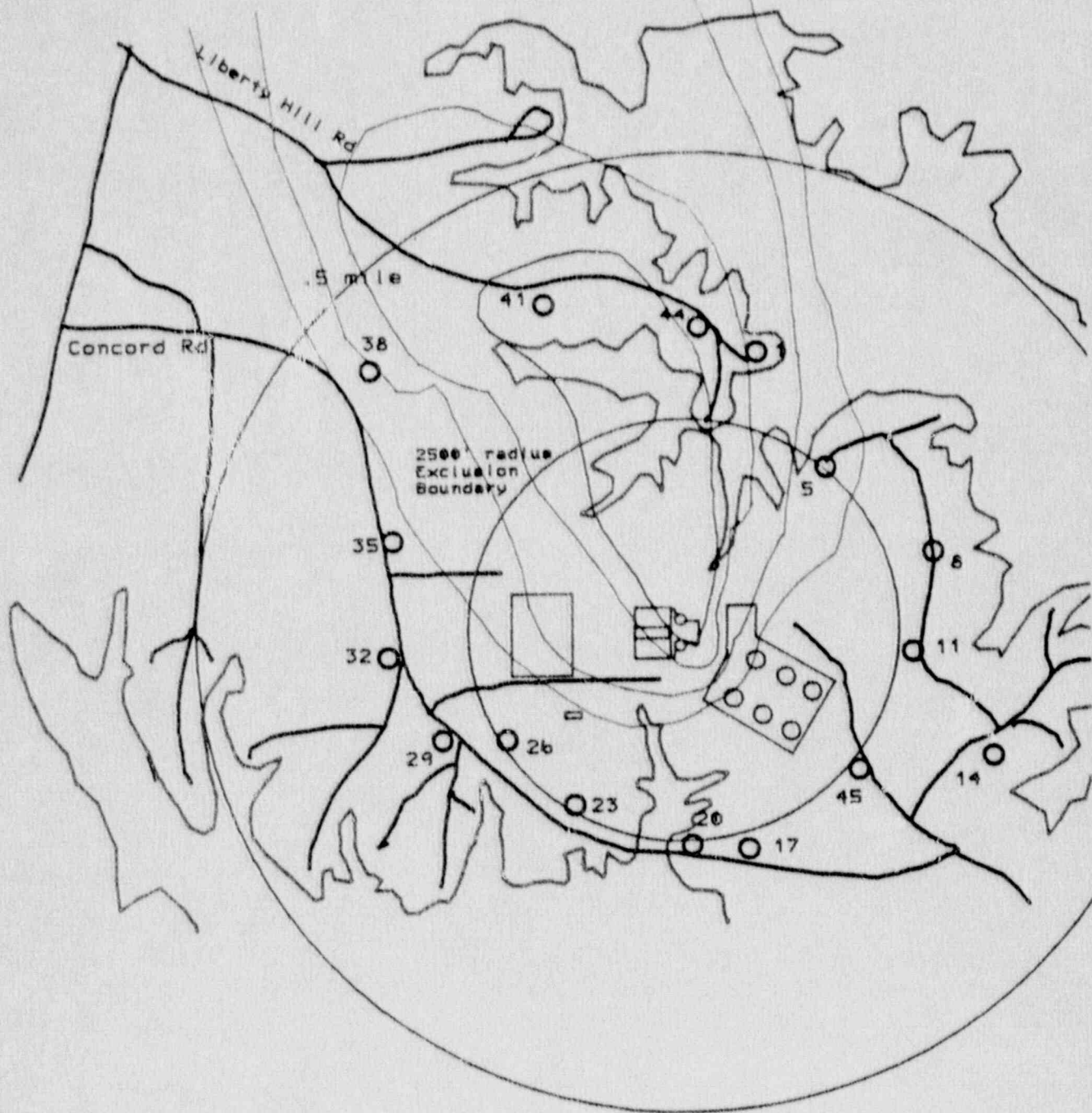
Time 9:30

100-200mR/hr

50-100mR/hr

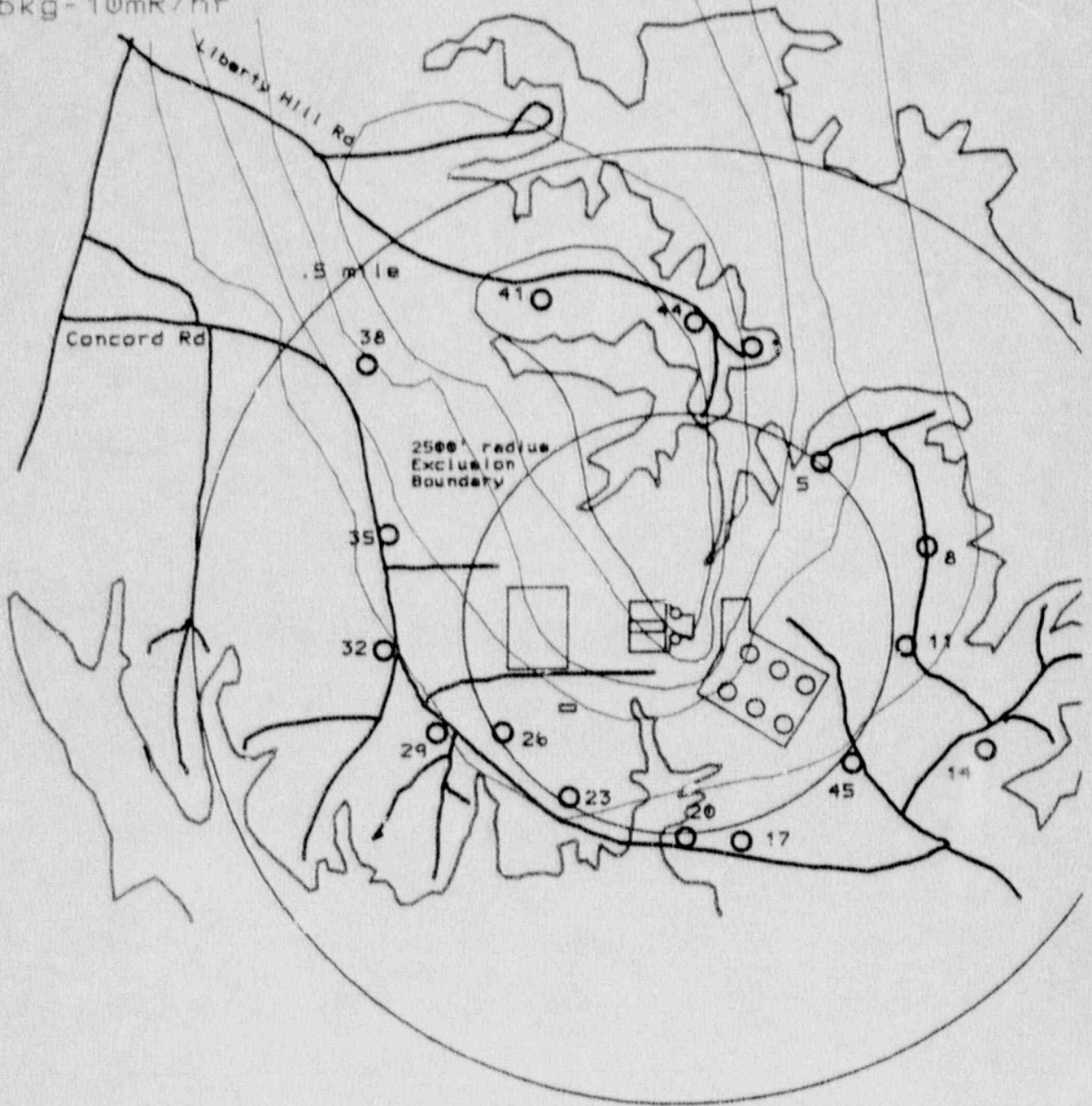
10-50mR/hr

bkg-10mR/hr



Time 9:45

200-300mR/hr
100-200mR/hr
50-100mR/hr
10-50mR/hr
bkg-10mR/hr



Time 10:00

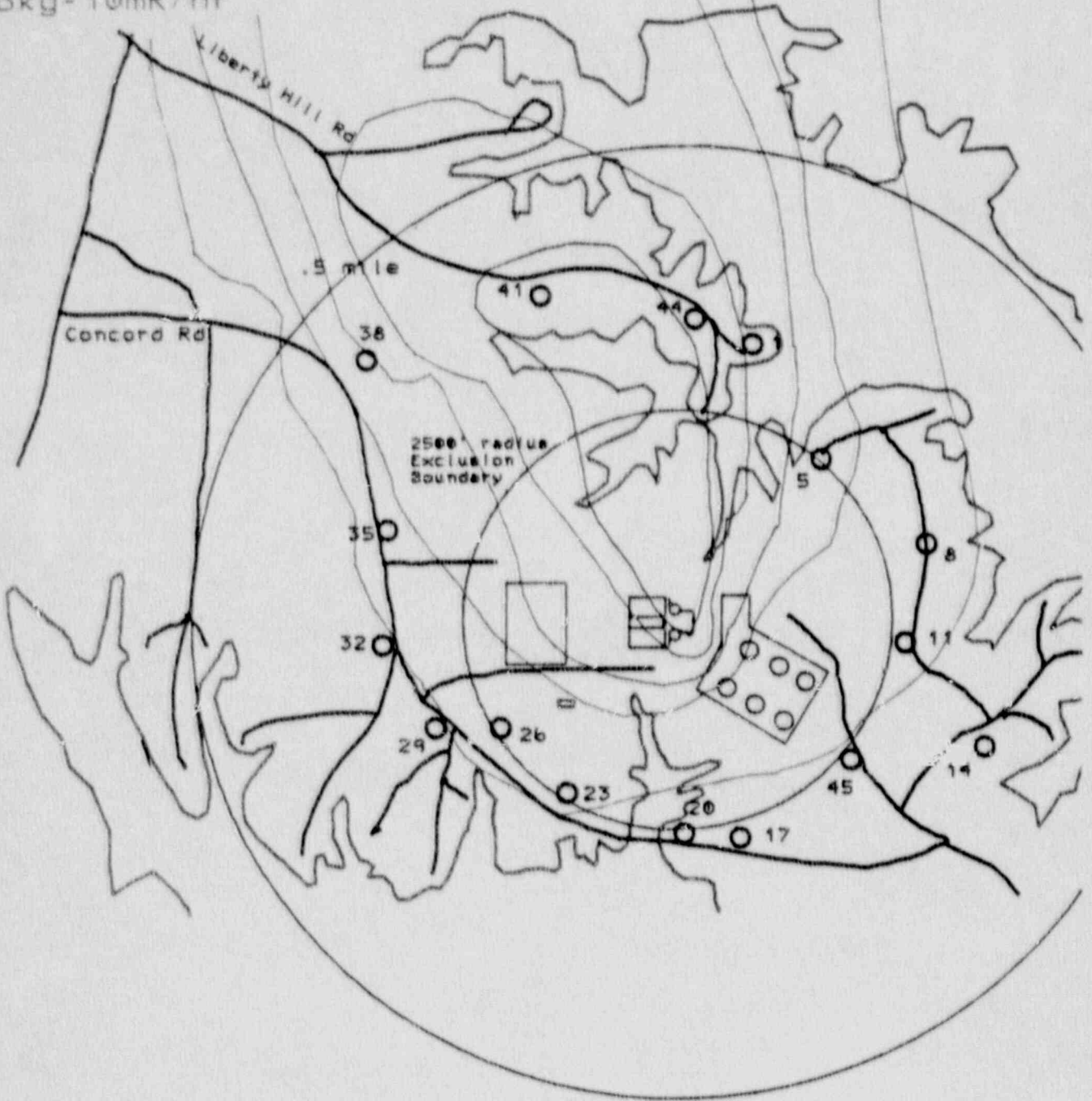
200-400mR/hr

100-200mR/hr

50-100mR/hr

10-50mR/hr

bkg-10mR/hr



Time 10:15

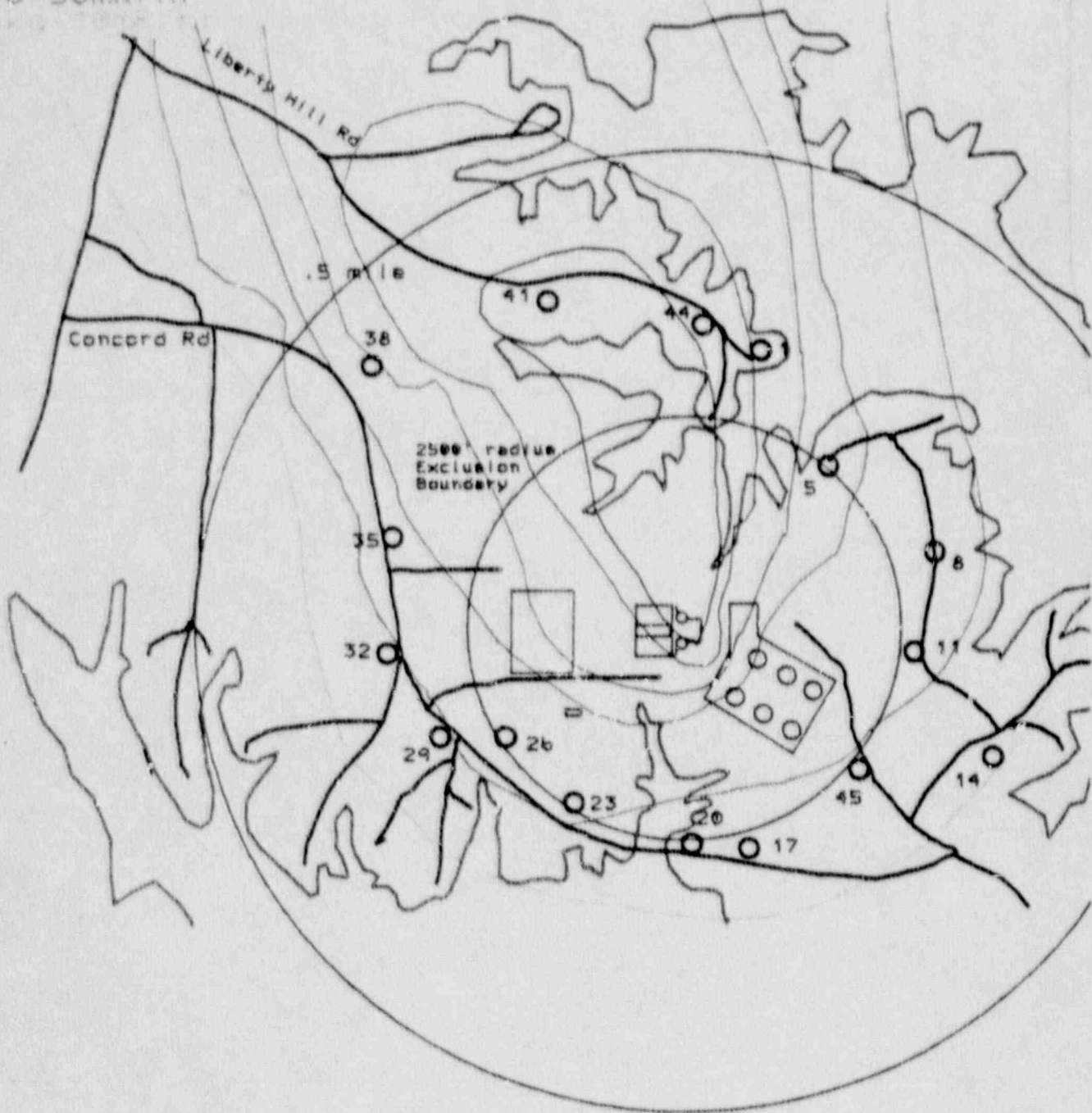
400-500mR/hr

200-400mR/hr

100-200mR/hr

50-100mR/hr

10-50mR/hr



Time 10:15

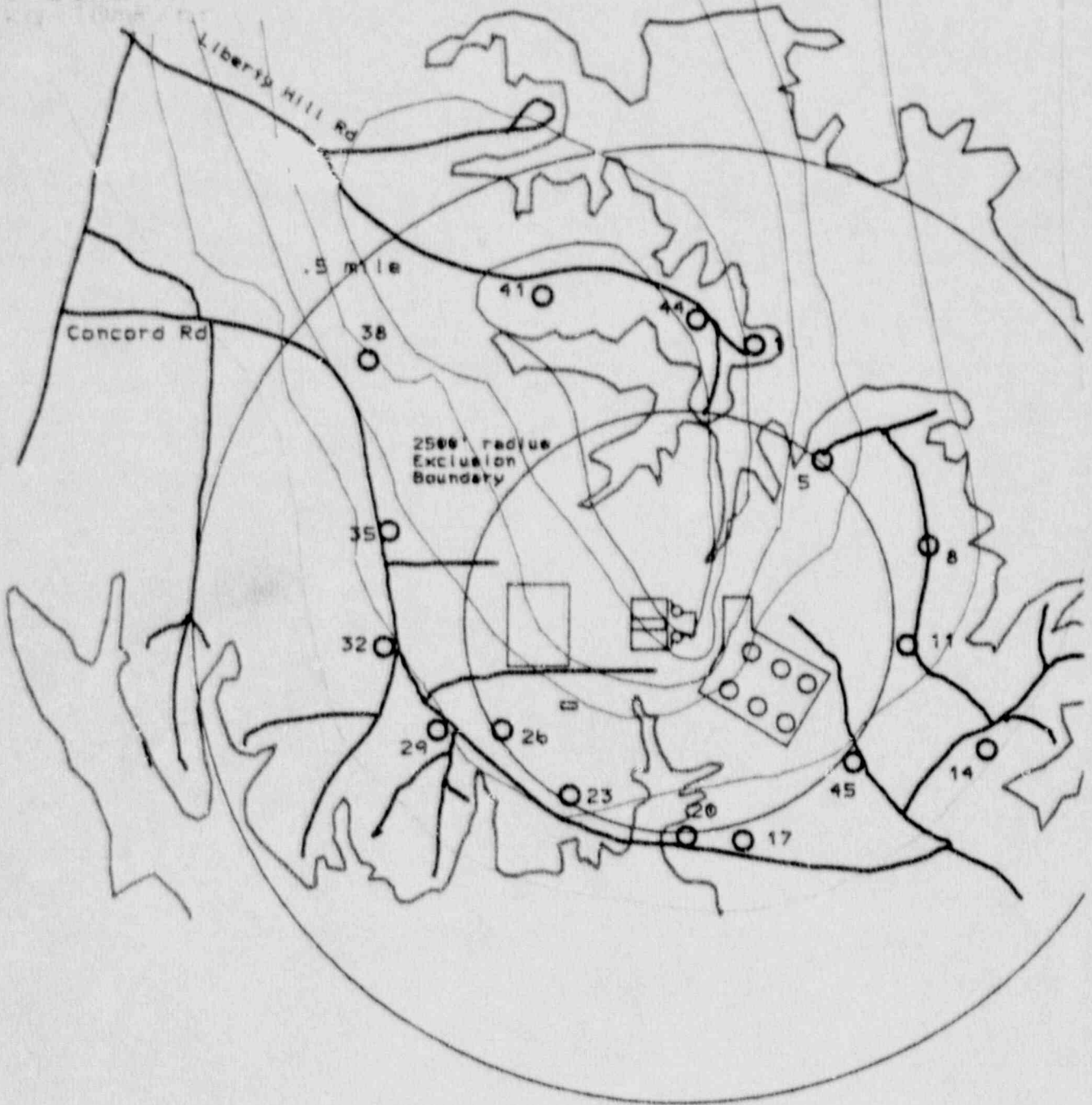
400-500mR/hr

200-400mR/hr

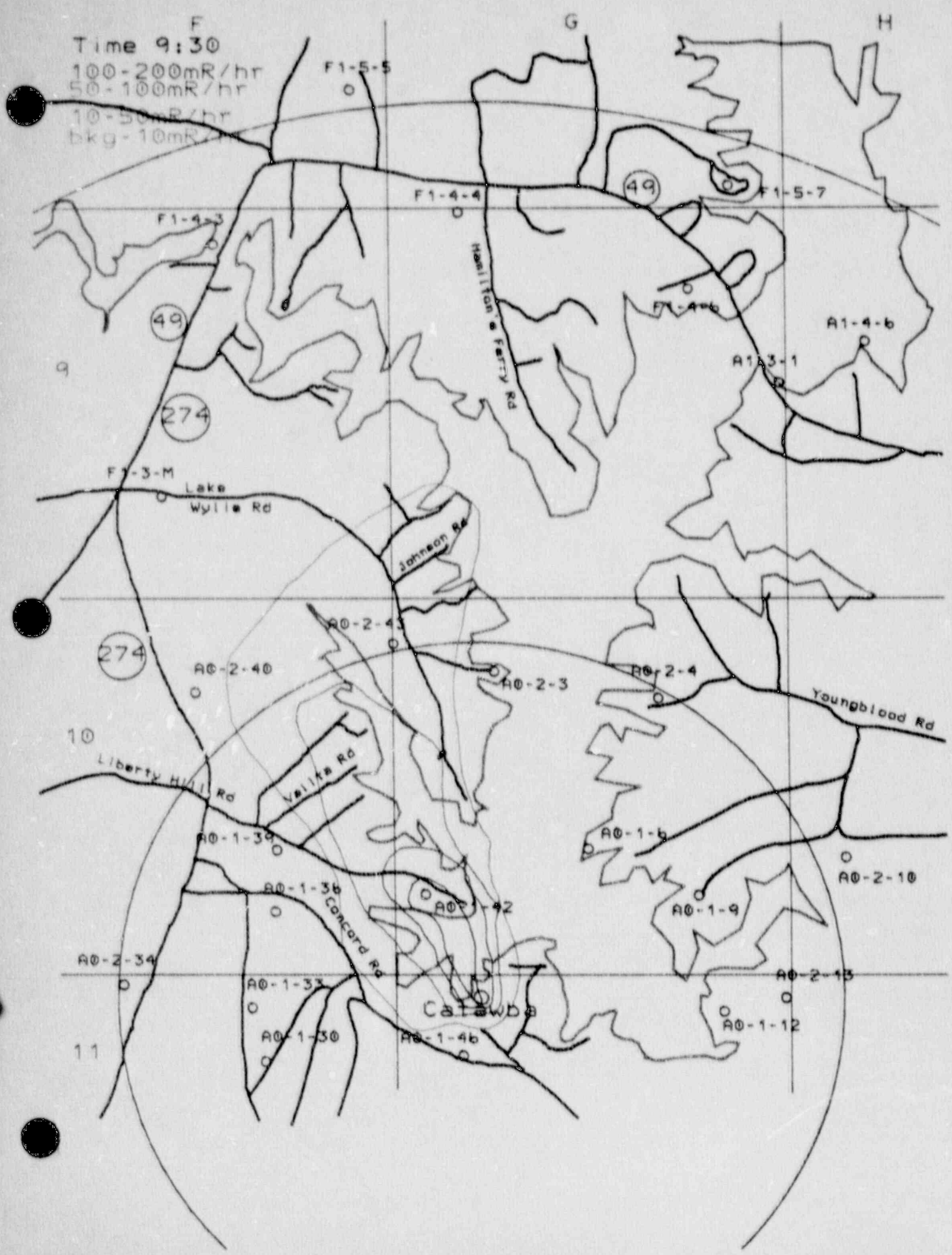
100-200mR/hr

50-100mR/hr

10-50mR/hr



F
Time 9:30
100-200mR/hr
50-100mR/hr
10-50mR/hr
bkg-10mR/hr

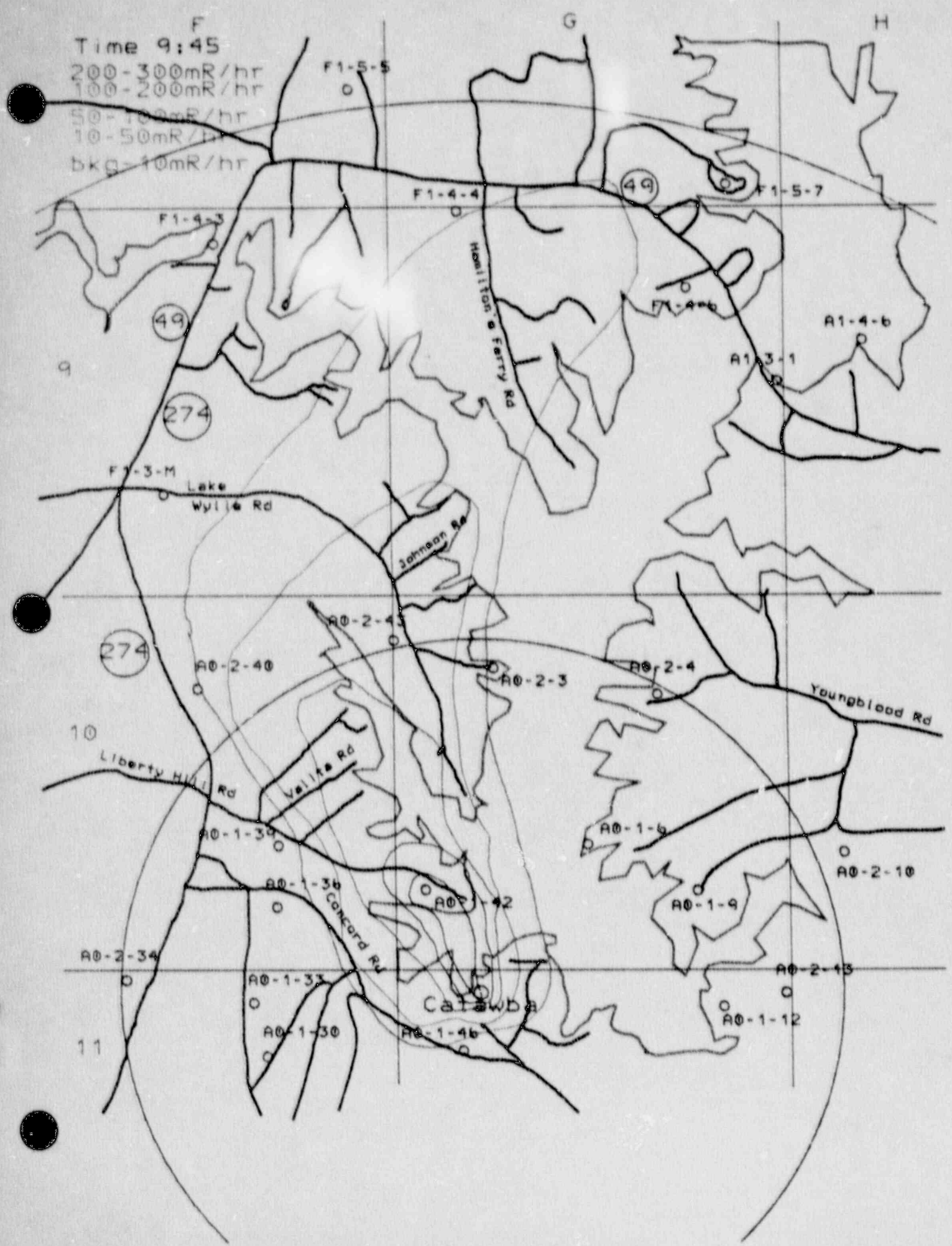


F
Time 9:45

200-300mR/hr
100-200mR/hr

50-100mR/hr
10-50mR/hr

bkg=10mR/hr



F1-5-5

F1-4-4

F1-5-7

F1-4-3

F1-4-6

A1-4-b

A1-3-1

F1-3-M

Lake Wylie Rd

Jamean Rd

A0-2-40

A0-2-3

A0-2-4

Youngblood Rd

274

A0-2-40

Liberty Hill Rd

Valita Rd

A0-1-34

A0-1-6

A0-2-10

A0-1-35

A0-1-42

A0-1-9

A0-2-34

A0-1-33

A0-2-15

11

A0-1-30

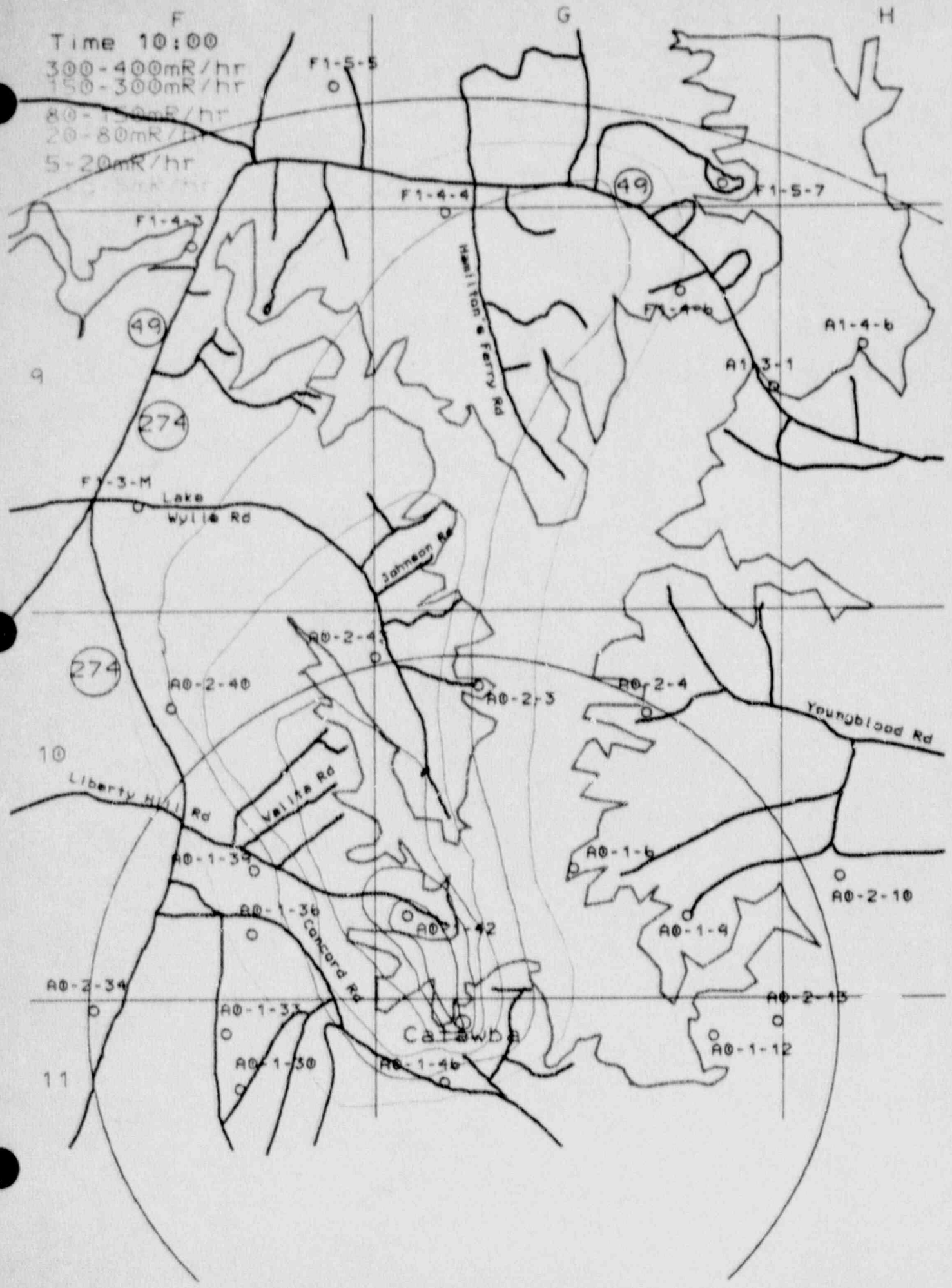
A0-1-46

A0-1-12

Catawba

F
Time 10:00

- 300-400mR/hr
- 150-300mR/hr
- 80-150mR/hr
- 20-80mR/hr
- 5-20mR/hr



F1-4-3

F1-5-5

F1-4-4

(49)

F1-5-7

(49)

(274)

F1-3-M

Lake Wylie Rd

Jameon Rd

A1-4-b

A1-3-1

(274)

A0-2-40

A0-2-4

A0-2-3

A0-2-4

Youngblood Rd

10

Liberty Hill Rd

Valley Rd

A0-1-34

A0-1-6

A0-2-10

A0-1-30

A0-1-42

A0-1-9

A0-2-34

A0-1-33

A0-2-15

11

A0-1-30

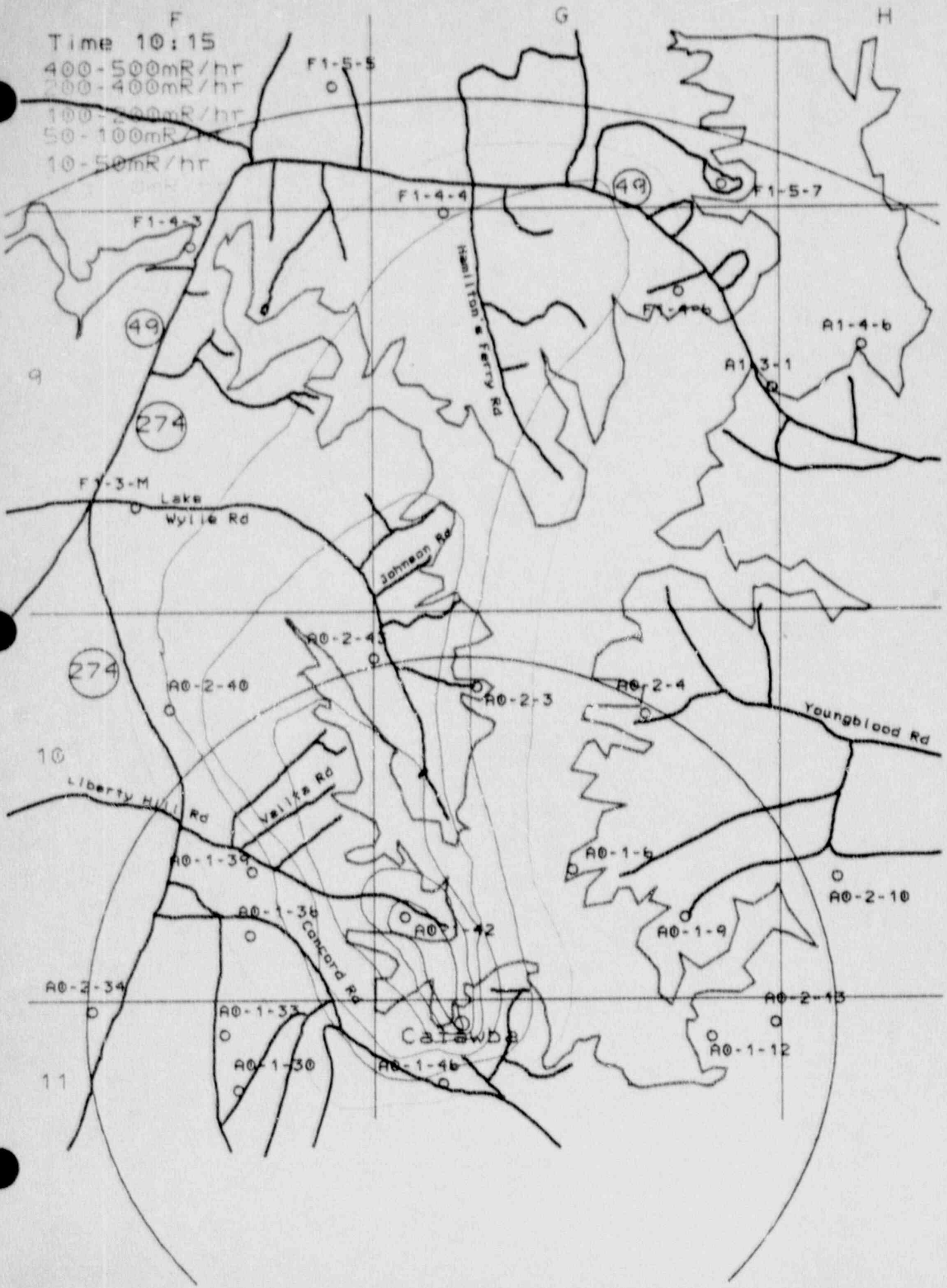
A0-1-4b

A0-1-12

Catawba

F
Time 10:15

- 400-500mR/hr
- 200-400mR/hr
- 100-200mR/hr
- 50-100mR/hr
- 10-50mR/hr



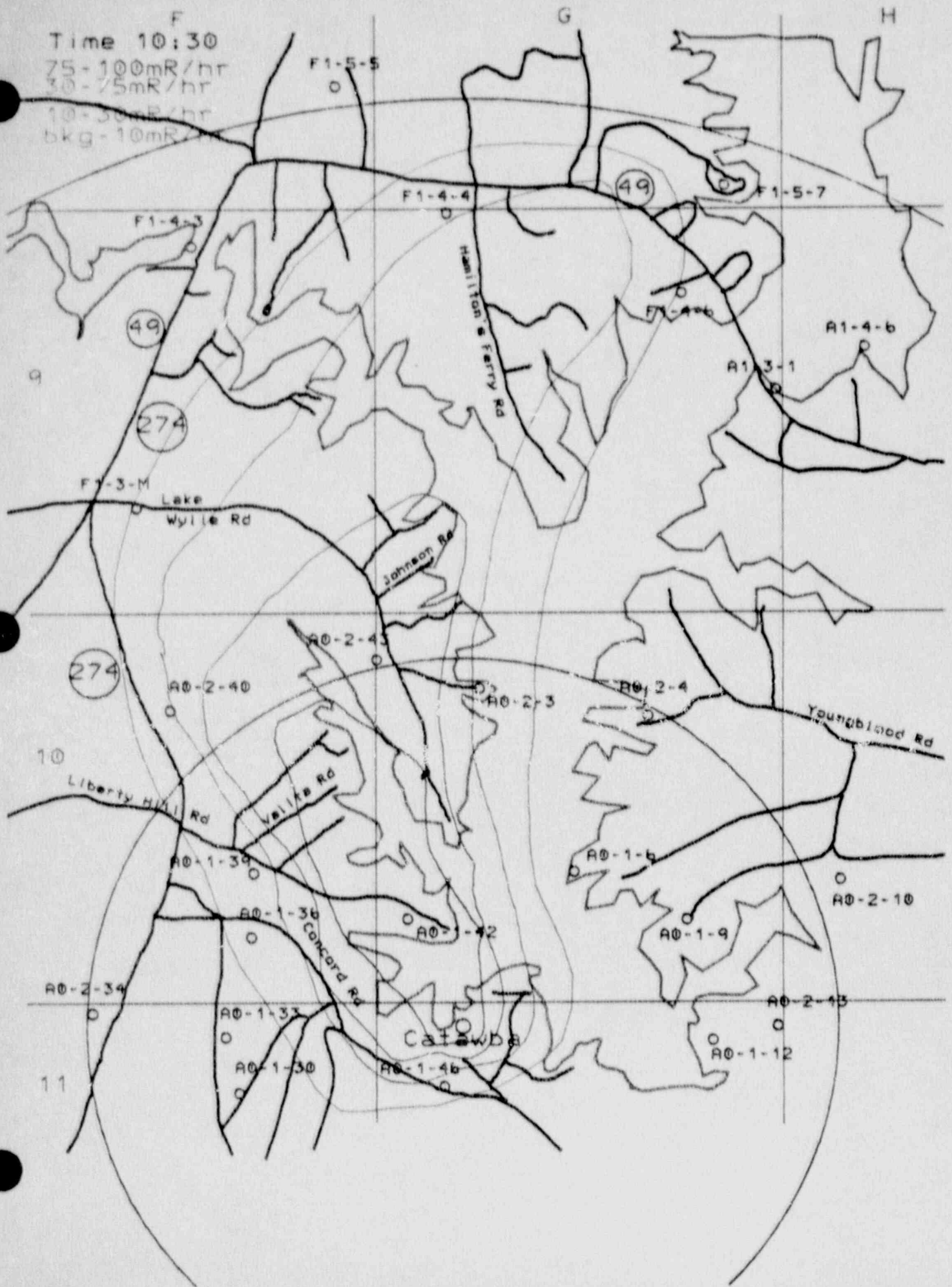
F
Time 10:30

75-100mR/hr

30-75mR/hr

10-30mR/hr

bkg-10mR/hr



F
Time 10:45
50-75mR/hr
0-50mK/hr
5-20mR/hr
bkg-5mR/hr



274

49

49

274

274

10

A0-2-34

11

Catawba

A0-2-10

A0-1-12

A0-2-15

A0-1-9

A0-1-6

A0-2-4

A0-2-3

A0-2-41

A0-2-40

Yaurblood Rd

A0-1-3b

A0-1-39

A0-1-30

A0-1-33

A0-1-46

A0-1-42

Valita Rd

Liberty Hill Rd

Johnson Rd

Lake Wylie Rd

F1-4-4

F1-5-7

F1-5-5

F1-4-3

F1-4-6

A1-4-b

A1-3-1

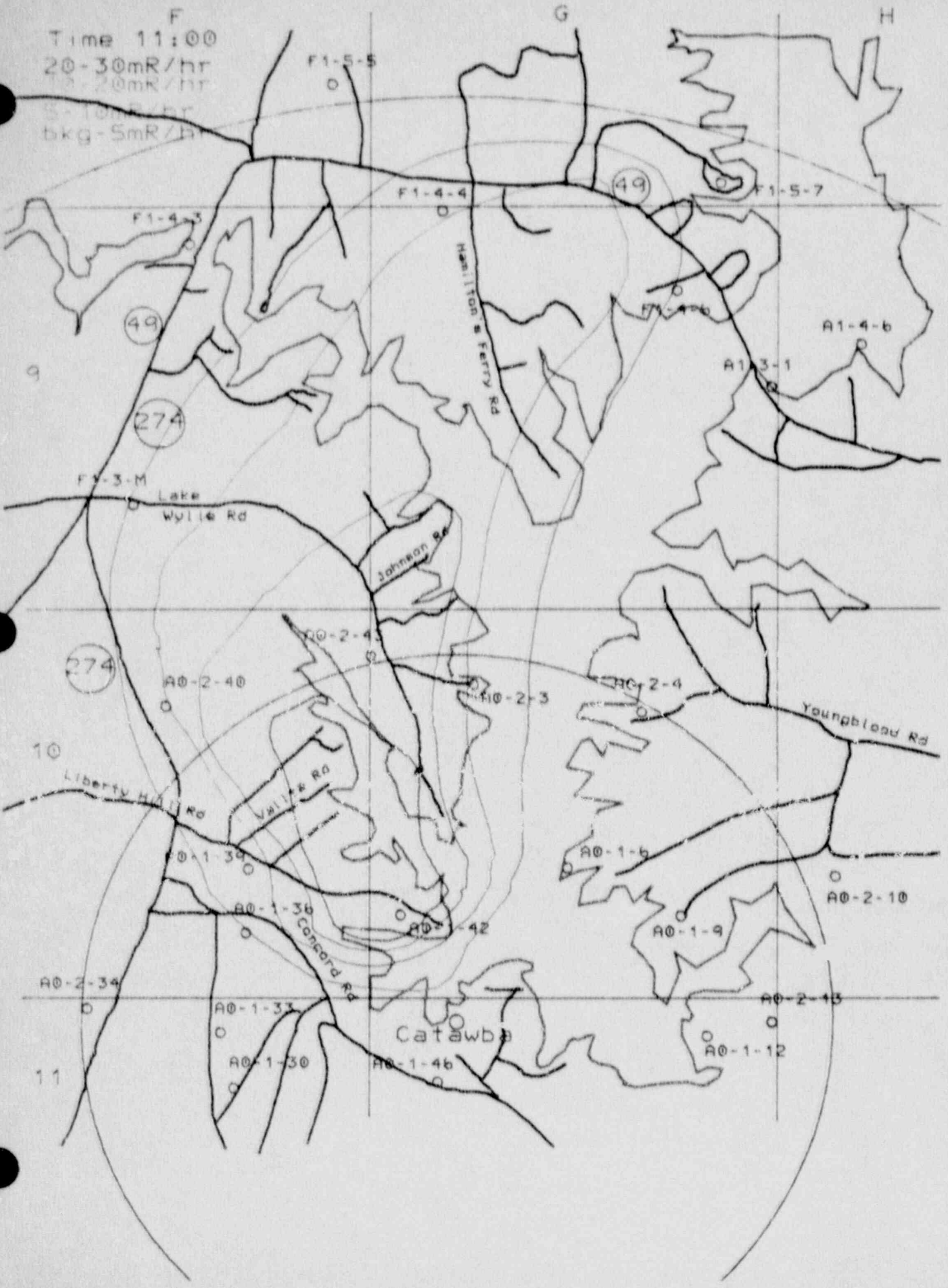
F1-3-M

G

H

F

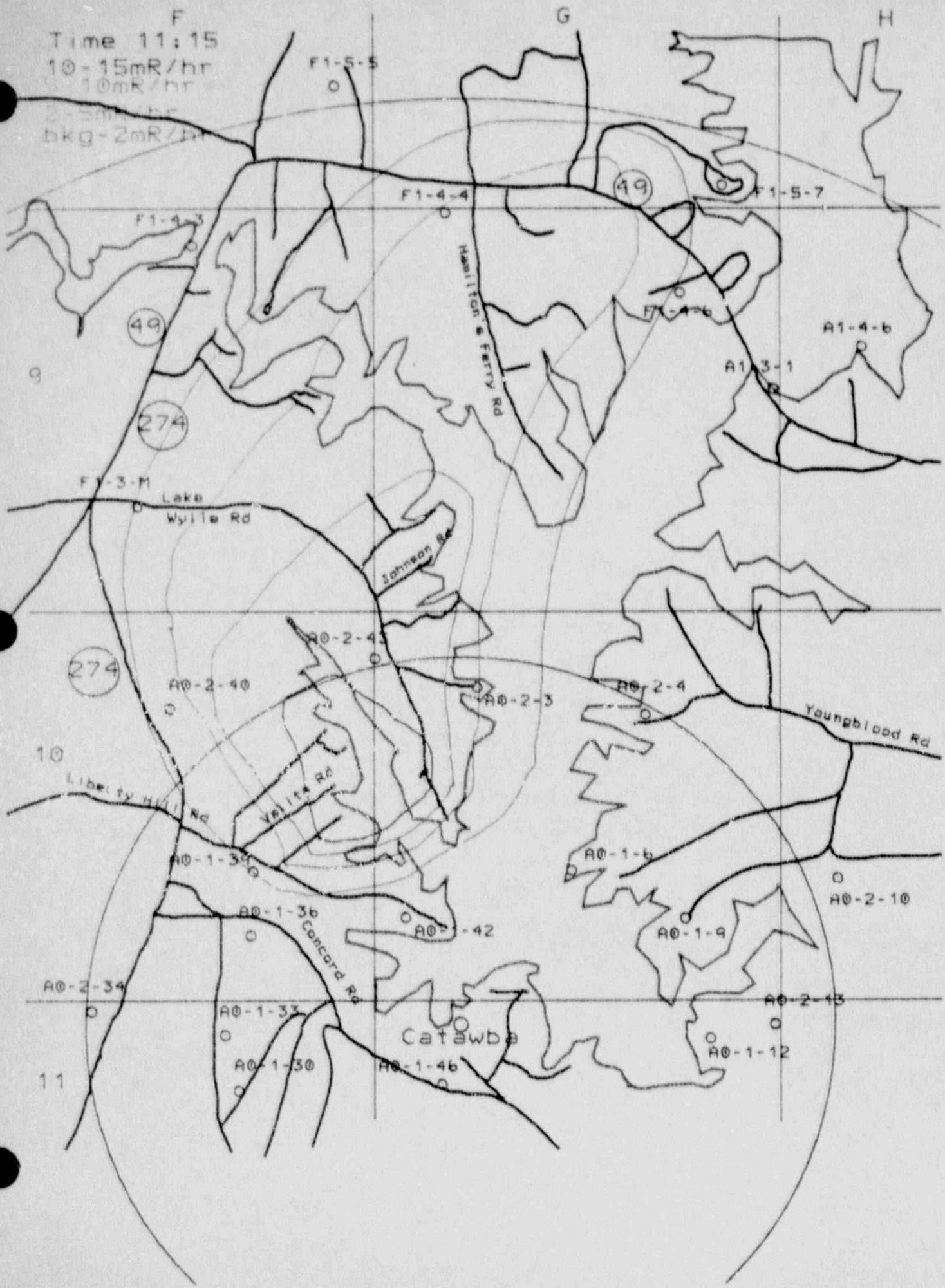
F
Time 11:00
20-30mR/hr
15-20mR/hr
5-10mR/hr
bkg-5mR/h



11

Catawba

F
Time 11:15
10-15mR/hr
10mR/hr
2-5mR/hr
bkg-2mR/hr



F
Time 11:30
3-5mR/hr
1-3mR/hr
DKG-1-5/hr



11

F
Time 11:45
1-3mR/hr
1kg-1mR/hr

F1-5-5

F1-4-4

(49)

F1-5-7

F1-4-3

(49)

F1-4-6

A1-4-b

A1-3-1

F1-3-M

Lave
Wille Rd

Johnson Rd

(274)

A0-2-40

A0-2-3

A0-2-4

Yunghood Rd

10

Liberty Hill Rd

Valley Rd

A0-1-39

A0-1-6

A0-1-36

A0-1-42

A0-1-9

A0-2-10

A0-2-34

A0-1-33

A0-2-13

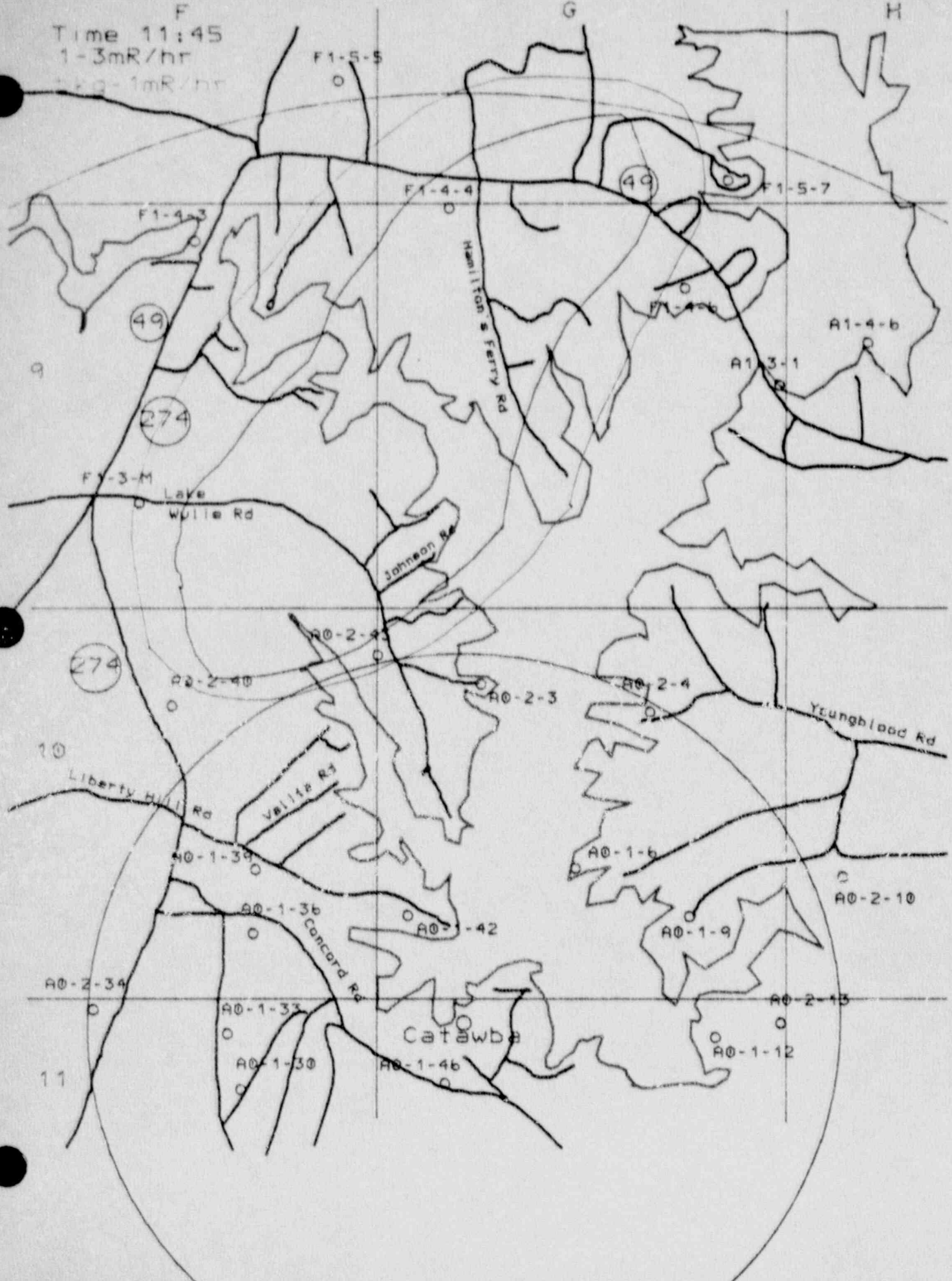
Catawba

A0-1-30

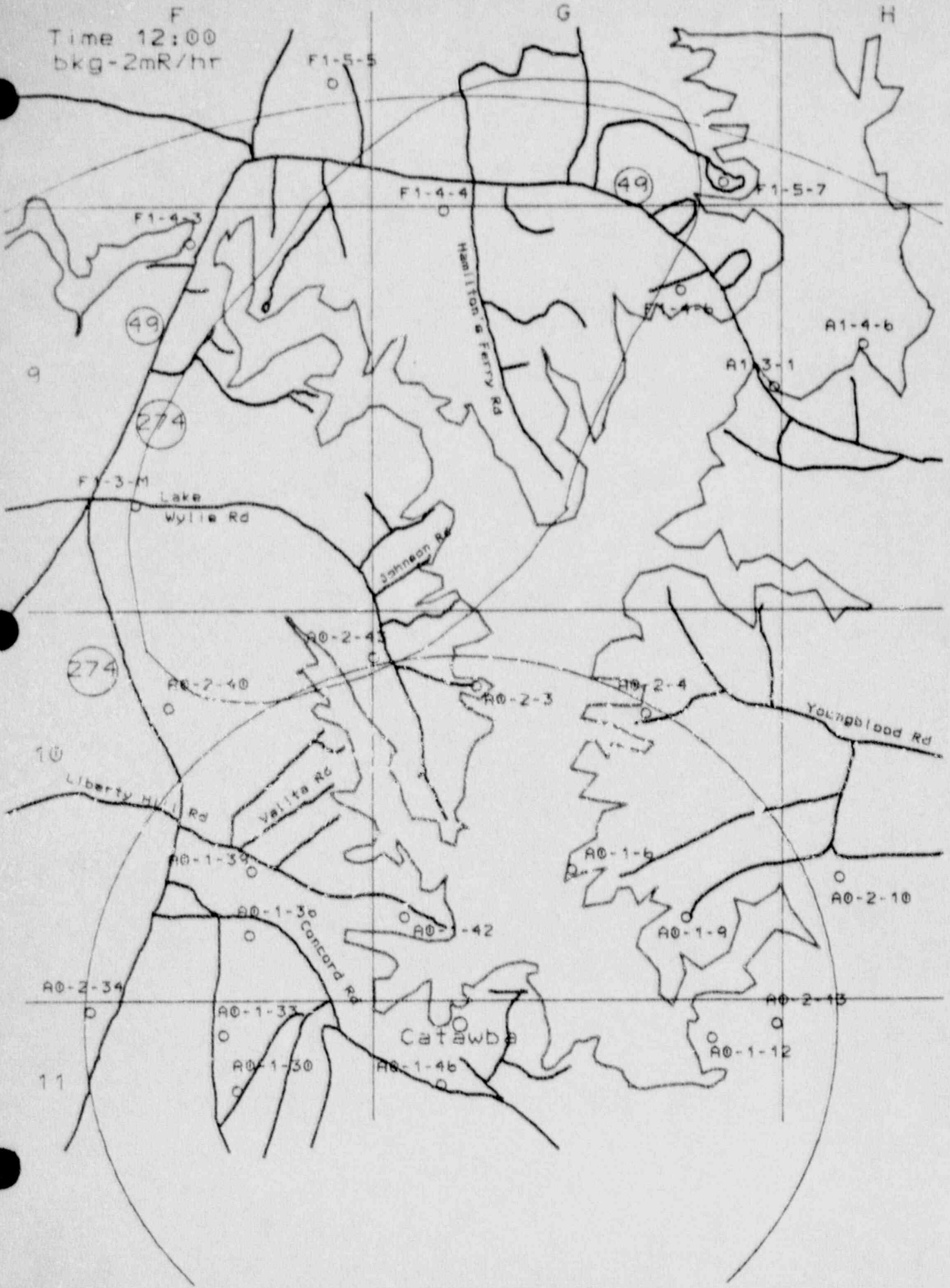
A0-1-46

A0-1-12

11



F
Time 12:00
bkg-2mR/hr



F1-5-5

F1-4-4

49

F1-5-7

F1-4-3

49

A1-4-b

A1-3-1

F1-3-M

Lake
Wylie Rd

Johnson Rd

274

A0-2-40

A0-2-4

A0-2-3

A0-2-4

Youngblood Rd

10

Liberty Hill Rd

Valita Rd

A0-1-b

A0-1-39

A0-2-10

A0-1-30

A0-1-42

A0-1-9

A0-2-34

A0-1-33

A0-2-15

Catawba

A0-1-30

A0-1-46

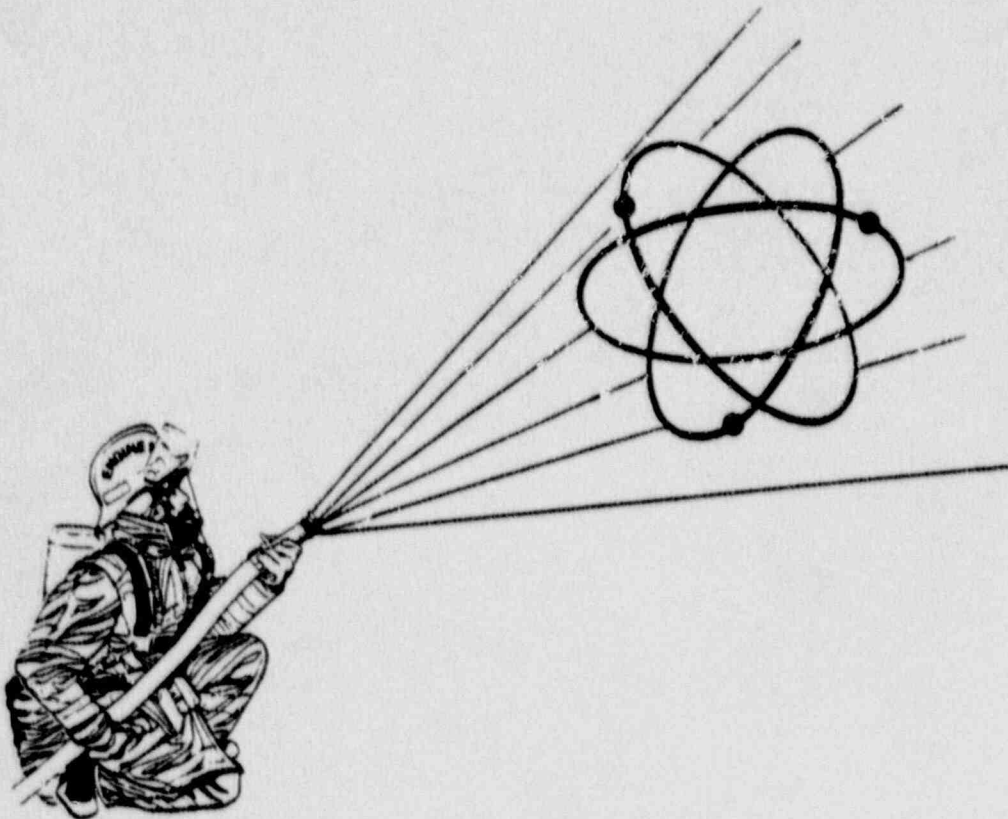
A0-1-12

11

Catawba Nuclear Station

Annual Fire Brigade/ Bethel V.F.D. Exercise

February, 1987



CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

PURPOSE

THE PURPOSE OF THE DRILL IS TO EVALUATE THE ABILITY OF THE STATION PERSONNEL TO RESPOND AND PERFORM FIRE FIGHTING PROCEDURES. THE DRILL WILL ALSO EVALUATE THE ABILITY OF BETHEL VOLUNTEER FIRE DEPARTMENT TO RESPOND AND INTERFACE WITH THE CATAWBA NUCLEAR STATION FIRE BRIGADE.

CONTROLLER/EVALUATOR: MARK GARRICK, SAFETY ASSISTANT
CATAWBA NUCLEAR STATION

EVALUATOR: JOHNY TALIANT, SAFETY ASSOCIATE
CATAWBA NUCLEAR STATION

EVALUATOR: TERRY KING, SAFETY SPECIALIST
DUKE POWER COMPANY

OBJECTIVES

- * ASSESS FIRE ALARM EFFECTIVENESS, THE TIME REQUIRED TO NOTIFY AND ASSEMBLE THE FIRE BRIGADE, AND THE SELECTION, PLACEMENT, AND USE OF FIRE FIGHTING EQUIPMENT AND PRE-FIRE STRATEGIES.
- * ASSESS EACH BRIGADE MEMBER'S KNOWLEDGE OF THEIR ROLE AND RESPONSIBILITIES WITHIN THE STATION'S FIRE BRIGADE ORGANIZATION. ASSESS THE BRIGADE MEMBER'S CONFORMANCE WITH ESTABLISHED PLANT FIRE FIGHTING PROCEDURES AND USE OF PLANT FIRE FIGHTING EQUIPMENT.
- * ASSESS THE FIRE BRIGADE CAPTAIN'S ABILITY TO DIRECT THE FIRE FIGHTING EFFORT.
- * ASSESS THE ABILITY OF THE FIRE BRIGADE CAPTAIN TO REQUEST A RESPONSE FROM BETHEL VOLUNTEER FIRE DEPARTMENT.
- * ASSESS THE ABILITY OF THE BETHEL VOLUNTEER FIRE DEPARTMENT TO APPROPRIATELY RESPOND WITHIN AN ACCEPTABLE TIME PERIOD TO CATAWBA NUCLEAR STATION.
- * ASSESS THE EFFECTIVENESS OF INTERFACING BETWEEN THE CATAWBA NUCLEAR STATION FIRE BRIGADE AND BETHEL VOLUNTEER FIRE DEPARTMENT.

FIRE CONDITIONS

THE WORD PROCESSING/PERSONNEL AREA OF THE ADMINISTRATION BUILDING.

SEQUENCE OF EVENTS

THE CONTROL ROOM IS NOTIFIED THAT THERE IS LARGE AMOUNTS OF BLACK SMOKE COMING FROM THE WORD PROCESSING/PERSONNEL AREA OF THE ADMINISTRATION BUILDING.

THE CATAWBA NUCLEAR STATION FIRE BRIGADE RESPONDS TO THE FIRE BRIGADE LOCKER LOCATED ON THE 594' ELEVATION OF THE UNIT 1 TURBINE BUILDING, DONS PROTECTIVE FIRE FIGHTING CLOTHING AND EQUIPMENT, AND RESPONDS TO THE FIRE SCENE UNDER THE DIRECTION OF THE FIRE BRIGADE CAPTAIN.

THE FIRE BRIGADE WILL ESTABLISH AND BEGIN FIRE FIGHTING FUNCTIONS.

THE STATION FIRE BRIGADE IS UNABLE TO CONTROL THE FIRE AND ADDITIONAL ASSISTANCE IS SUMMONED FROM THE BETHEL VOLUNTEER FIRE DEPARTMENT.

THE STATION FIRE BRIGADE CONTINUES TO FIGHT THE FIRE WHILE THE BACK-UP SUPPORT IS IN ROUTE.

THE STATION SECURITY FORCE WILL MEET AND ESCORT THE VOLUNTEER FIRE DEPARTMENT TO THE FIRE SCENE.

THE FIRE BRIGADE CAPTAIN DIRECTS JOINT FIRE FIGHTING ACTIVITIES INVOLVING THE STATION FIRE BRIGADE AND THE BETHEL VOLUNTEER FIRE DEPARTMENT.

THE FIRE IS EXTINGUISHED, SALVAGE AND OVERHAUL OPERATIONS BEGIN.

SALVAGE AND OVERHAUL OPERATIONS ARE COMPLETED AND FIRE FIGHTING EQUIPMENT IS SECURED.

THE DRILL IS TERMINATED.

EXPECTED ACTIONS

STATION PERSONNEL:

- * THE SWITCHBOARD OPERATOR SMELLS SMOKE AND UPON INVESTIGATION DISCOVERS BLACK SMOKE COMING OUT OF THE BACK OF THE ADMINISTRATION BUILDING AND NOTIFIES THE CONTROL ROOM.

CONTROL ROOM:

- * NOTIFY THE FIRE BRIGADE CAPTAIN, THE FIRE BRIGADE AND THE TECHNICAL ASSISTANTS.
- * ANNOUNCE THE FIRE OVER THE STATION'S PUBLIC ADDRESS SYSTEM.
- * RELAY INFORMATION FROM THE PRE-FIRE PLAN TO THE FIRE BRIGADE CAPTAIN.

FIRE BRIGADE CAPTAIN:

- * RESPOND TO THE FIRE SCENE TO ESTABLISH AND DIRECT THE FIRE BRIGADE'S FIRE FIGHTING ACTIVITIES.
- * ASSESS THE FIRE SITUATION AND REQUEST ASSISTANCE FROM BETHEL VOLUNTEER FIRE DEPARTMENT.
- * REQUEST SECURITY TO PROVIDE ESCORTS FOR BETHEL VOLUNTEER FIRE DEPARTMENT AND TRAFFIC CONTROL.
- * THE FIRE CAPTAIN DIRECTS AND COORDINATED FIRE FIGHTING ACTIVITIES WITH THE STATION FIRE BRIGADE AND BETHEL VOLUNTEER FIRE DEPARTMENT.

FIRE BRIGADE MEMBER:

- * RESPOND TO THE FIRE BRIGADE LOCKER AND DON PROTECTIVE CLOTHING AND FIRE FIGHTING EQUIPMENT.
- * RESPOND TO THE SCENE WITH APPROPRIATE CLOTHING AND EQUIPMENT.
- * TO SET UP ATTACH HOSES AND PERFORM FIRE FIGHTING ACTIVITIES AS DIRECTED BY THE FIRE BRIGADE CAPTAIN.

SECURITY PERSONNEL:

- * WILL RESPOND AND PROVIDE ESCORTS FOR BETHEL VOLUNTEER FIRE DEPARTMENT AND TRAFFIC CONTROL.

BETHEL VOLUNTEER FIRE DEPARTMENT:

- * RESPOND TO CATAWBA NUCLEAR STATION AND REPORT TO THE FIRE BRIGADE CAPTAIN.
- * ASSIST CATAWBA NUCLEAR STATION'S FIRE BRIGADE IN FIRE FIGHTING ACTIVITIES.

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #1

TIME: _____

PERSON DISCOVERING THE FIRE: _____

THIS IS A DRILL!! THIS IS A DRILL!!

THIS IS _____ AT THE SWITCHBOARD, THERE IS LARGE

AMOUNTS OF BLACK SMOKE COMING FROM THE WEST END OF THE ADMINISTRATION

BUILDING. THIS IS A DRILL!!

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #2

TIME: _____

WHEN THE FIRE BRIGADE CAPTAIN ARRIVES ADVISE HIM:

- * THE ONLY PERSON IN THE BUILDING AT THE TIME OF THE FIRE WAS THE SWITCHBOARD OPERATOR WHO OBSERVED THE FIRE AND LEFT THE AREA.

- * FLAMES AND DARK SMOKE ARE VISABLE IN THE WEST END OF THE ADMINISTRATION BUILDING.

- * THE HOSE RACKS IN THE ADMINISTRATION BUILDING ARE TAGGED OUT, VALVE 1RF-473, FOR REPAIR OF A VALVE.

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #3

TIME: _____

ADVISE THE CAPTAIN THAT THE ENTIRE WEST END OF THE ADMINISTRATION
BUILDING IS INVOLVED IN FIRE PRIMARILY INVOLVING CLASS "A" MATERIALS.

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #4

TIME: _____

AFTER WATER HAS BEEN APPLIED, START DEGRADING THE FIRE.

TO CAPTAIN:

LARGE QUANTITIES OF STEAM IS BEING PRODUCED. THE FIRE IS UNDER
CONTROL

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #5

TIME: _____

THE FIRE IS EXTINGUISHED.

CATAWBA NUCLEAR STATION
ANNUAL FIRE BRIGADE/BETHEL V.F.D. EXERCISE
FEBRUARY, 1987

MESSAGE #6

TIME: _____

THE DRILL IS TERMINATED. ALL EQUIPMENT SHOULD BE SECURED.

DATE: _____

CATAWPA NUCLEAR STATION

FIRE DRILL CRITIQUE

_____ ANNOUNCED _____ UNANNOUNCED

LOCATION: _____

REPORTED BY: _____

TIME: _____

REPORTED TO: _____

CONTROL ROOM: _____

OTHER: _____

CAS: _____

SAS: _____

STATION RESPONSE:

<u>GROUP</u>	<u>TIME</u>	<u>NUMBER OF PERSONNEL</u>
FIRE CHIEF	_____	_____
ASSISTANT FIRE CHIEF	_____	_____
FIRE BRIGADE CAPTAIN	_____	_____
FIRE BRIGADE	_____	_____
TECHNICAL ASSISTANT	_____	_____
TECHNICAL ASSISTANT	_____	_____
HEALTH PHYSICS	_____	_____
CHEMISTRY	_____	_____
NON-STATION ASSISTANCE	_____	_____

EQUIPMENT USED: _____

SPECIFIC TIMES:

DRILL INITIATED: _____

PA ANNOUNCEMENT: _____

COMMAND POST

ESTABLISHED: _____

DRILL SECURED: _____

DRILL CRITIQUED: _____ SATISFACTORY: _____ UNSATISFACTORY: _____

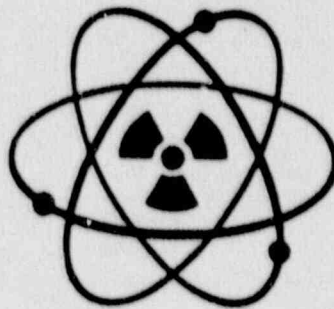
IF UNSATISFACTORY, WHY? _____

_____, SAFETY SUPERVISOR _____, EVALUATOR

Catawba Nuclear Station

"Contaminated Injury"

**Annual First Responder/
Piedmont Medical Center
Exercise**



February, 1987

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

PURPOSE

THE PURPOSE OF THE DRILL IS TO EVALUATE THE ABILITY OF STATION PERSONNEL TO PROVIDE APPROPRIATE FIRST AID TREATMENT TO AN INJURED EMPLOYEE WHO IS CONTAMINATED. THE DRILL WILL ALSO EVALUATE THE ABILITY OF STATION PERSONNEL TO MONITOR AND CONTROL RADIOLOGICAL CONTAMINATION AND TO SUCCESSFULLY DECONTAMINATE AN INJURED EMPLOYEE UTILIZING PROPER HEALTH PHYSICS PRACTICES.

OBJECTIVES

UPON TERMINATION OF THIS DRILL, EACH PARTICIPANT SHALL BE ABLE TO:

- 1) EXPLAIN THE STEPS TO BE TAKEN IN ACCESSING AND TREATING CONTAMINATED INDIVIDUALS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - a) PERFORM A PRIMARY SURVEY FOR DETECTION AND CORRECTION OF ANY LIFE THREATENING INJURIES OR CONDITIONS (AIRWAY, BREATHING, CIRCULATION, ETC.)
 - b) TRIAGE (PRIORITIZE) PATIENTS IF MULTIPLE INJURIES ARE INVOLVED.
 - c) PERFORM SECONDARY SURVEY ON PATIENT(S) TO DETECT AND STABILIZE ANY NON-LIFE THREATENING INJURIES AND OBTAIN VITAL SIGNS.
 - d) REMOVE THE PATIENT TO AN AREA WHERE TREATMENT/DECONTAMINATION CAN BE RENDERED (IF NECESSARY)
 - e) COMMUNICATE WITH HEALTH PHYSICS ABOUT WHEN DECONTAMINATION PROCEDURES MAY BE PERFORMED, DEPENDING ON THE PHYSICAL CONDITION OF THE PATIENT.
 - 1) IF INJURIES ARE LIFE THREATENING, THE EMERGENCY CARE IS GIVEN TO STABILIZE THE INJURED.
 - 2) HEALTH PHYSICS SHALL DECONTAMINATE AFTER THE INJURED'S CONDITION HAS BEEN STABILIZED OR WHENEVER INJURIES ARE NOT LIFE THREATENING. (DECONTAMINATION SHALL NOT TAKE PLACE BEFORE EMERGENCY CARE.

- g) COMPLETE THE NECESSARY PAPER WORK (FIRST RESPONDER TREATMENT FORM)
- II) BRIEFLY DESCRIBE COMMUNICATION AT THE CONTAMINATED INJURY SCENE:
- a) THERE SHALL BE AMPLE COMMUNICATION BETWEEN FIRST RESPONDERS AND HEALTH PHYSICS ON CONTAMINATION CONTROL, PATIENTS CONDITION, ETC. IN ORDER FOR BOTH GROUPS TO KEEP INFORMED OF THE EMERGENCY SITUATION.
 - b) THE SECURITY SHIFT LIEUTENANT SHALL BE INFORMED OF:
 - 1) STATUS OF INJURED AND EXTENT OF INJURIES
 - 2) TRANSPORTATION ARRANGEMENTS TO TRANSPORT INJURED INDIVIDUAL TO PIEDMONT MEDICAL CENTER.
 - 3) PICK UP POINT
- III) BRIEFLY DESCRIBE THE PRINCIPLE ROLES OF FIRST RESPONDERS, SAFETY AND HEALTH PHYSICS IN DEALING WITH A CONTAMINATED INJURY AT THE SCENE.
- a) FIRST RESPONDERS SHALL START ASSESSMENT/TREATMENT OF INJURED INDIVIDUAL. FIRST RESPONDERS SHALL COMMUNICATE INFORMATION PERTAINING TO THE PATIENTS'S STATUS.
 - b) THE ROLE OF HEALTH PHYSICS IS TO MONITOR RADIATION AND CONTAMINATION LEVELS, IMPLEMENT THE NECESSARY CONTROLS TO PREVENT THE SPREAD OF CONTAMINATIONS AND PROVIDE DECONTAMINATION AS NECESSARY.
 - c) OPERATIONS SHALL IMPLEMENT NECESSARY PROCEDURES TO INSURE PROPER NOTIFICATION IN THE EVENT AN INJURED EMPLOYEE IS TRANSPORTED OFFSITE CONTAMINATED.

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #1 TO SECURITY CENTER ALARM STATION

TIME: _____

THIS IS A DRILL!! THIS IS A DRILL!!

THERE IS AN INJURED EMPLOYEE ON THE 594' ELEVATION OF THE UNIT 1 FUEL
BUILDING. HE WAS FOUND UNCONSCIOUS IN A RCZ.

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #2 (AT THE SCENE)

TIME: _____

_____ IS A _____ YEAR OLD MALE WHO WAS
FOUND UNCONSCIOUS IN A RCZ, IN A VERY HOT, HUMID AREA. HE HAS VERY
HOT, DRY SKIN AND IS UNRESPONSIVE. PATIENT IS STARTING TO EXHIBIT
SIGNS OF TWITCHING OF EXTREMITIES.

INITIAL VITAL SIGNS:

BLOOD PRESSURE-----120/70

PULSE-----120 (WEAK)

RESPIRATIONS-----16 (SHALLOW)

PUPILS ARE DIALATED.

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #3 (CONTAMINATED 1ST AID ROOM)

TIME: _____

PATIENTS VITALS: BLOOD PRESSURE-----120/68
 PULSE-----128 (WEAK)
 RESPIRATIONS-----12 (SHALLOW)

 PUPILS ARE DIALATED, SLUGGISH.
 PATIENTS SKIN IS EXTREMELY HOT
 AND HE IS STARTING TO HAVE
 CONVULSIONS

CONTAMINATION LEVEL: 4000 CCPM - FOREHEAD AND FACE

IF HEALTH PHYSICS RESPONDERS ATTEMPT DECON PROCEDURES

FIRST ATTEMPT: 3500 CCPM

SECOND ATTEMPT: 3000 CCPM

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #4 (ENROUTE TO HOSPITAL)

TIME: _____

VITAL SIGNS: BLOOD PRESSURE-----124/70
 PULSE-----120 (WEAK)
 RESPIRATIONS-----12 (SHALLOW)
 PUPILS ARE DIALATED

 PATIENT IS UNCONSCIOUS BUT HE HAS
 STOPPED CONVULSIONS

CONTAMINATION LEVELS DEPENDENT ON HEALTH PHYSICS ACTIONS AT 1ST AID FACILITY

*DECON PROCEDURES UTILIZED

1ST ATTEMPT: 3500 CCPM
2ND ATTEMPT: 3000 CCPM
3RD ATTEMPT: 3000 CCPM
4TH ATTEMPT: CLEAN

(THESE VALUES WILL BE UTILIZED FOR DECONTAMINATION REGARDLESS OF THE LOCATION THAT DECONTAMINATION TAKES PLACE). (ie. FIRST AID FACILITY, AMBULANCE OR HOSPITAL)

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #5 (AT HOSPITAL)

TIME: _____

VITAL SIGNS: BLOOD PRESSURE-----130/74
 PULSE-----114 (WEAK)
 RESPIRATIONS-----14

PATIENT IS BEGINNING TO REGAIN
CONSCIOUSNESS

ALL TEST RESULTS WITHIN NORMAL LIMITS

CONTAMINATION LEVELS DEPENDENT ON HEALTH PHYSICS ACTIONS

CATAWBA NUCLEAR STATION
ANNUAL FIRST RESPONDER/PIEDMONT MEDICAL CENTER EXERCISE
FEBRUARY, 1987

MESSAGE #6 (IN EMERGENCY ROOM)

TIME: _____

AFTER NECESSARY TREATMENT AND DECON PROCEDURES

"DRILL IS TERMINATED"

CATAWBA NUCLEAR STATION
CONTAMINATED INJURY DRILL
MEDICAL EVALUATORS NOTES

MEDICAL ACTION TAKEN

- 1) PERFORM A PRIMARY SURVEY OF THE INJURED EMPLOYEE TO DETERMINE PHYSICAL CONDITION (AIRWAY, BREATHING, CIRCULATION, ETC.)
- 2) PERFORM A SECONDARY SURVEY TO OBTAIN PERTINENT INFORMATION. FIRST RESPONDERS SHOULD PROMOTE A PROFESSIONAL IMAGE TO THE INJURED IN ORDER TO PROMOTE TRUST AND CONFIDENCE.
- 3) DOCUMENT THE INJURED'S CONDITION AND RELATED INFORMATION BY PROPERLY COMPLETING THE FIRST RESPONDER TREATMENT FORM.
- 4) REMOVE ANTI-C'S BY CUTTING THEM AND FOLDING IN ORDER TO EXPOSE THE INJURED AREA.
- 5) PIEDMONT MEDICAL CENTER EMERGENCY MEDICAL SERVICE IS NOTIFIED TO RESPOND IT'S AMBULANCE TO CATAWBA NUCLEAR STATION TO TRANSPORT THE INJURED EMPLOYEE.
- 6) PIEDMONT MEDICAL CENTER EMERGENCY DEPARTMENT (EMERGENCY ROOM) IS NOTIFIED OF THE CONTAMINATED INJURY.
- 7) TREAT FOR SHOCK AS NECESSARY.
- 8) NEUROLOGICAL STATUS OF THE PATIENT CHECKED.
- 9) TRANSPORT THE PATIENT BY STRETCHER TO THE CONTAMINATED FIRST AID ROOM.
- 10) HEALTH PHYSICS PERSONNEL ARE ADVISED THAT DECONTAMINATION PROCEDURES CAN BE STARTED WHILE WORK CONTINUES TO STABILIZE AND MONITOR THE INJURED'S CONDITION.
- 11) AFTER DECONTAMINATION ATTEMPT IS COMPLETE, (IF ATTEMPTED) UPON ARRIVAL OF THE AMBULANCE, THE INJURED SHOULD BE TRANSPORTED TO PIEDMONT MEDICAL CENTER.

- 12) WHEN THE INJURED IS ENROUTE TO PIEDMONT MEDICAL CENTER, THE HOSPITAL SHOULD BE INFORMED OF THE TYPE AND EXTENT OF INJURY, THE TYPE OF TREATMENT THAT HAS BEEN PROVIDED AND THE LEVELS OF CONTAMINATION. THIS INFORMATION SHOULD BE COMMUNICATED ON THE AMBULANCE RADIO (155.340 MHZ).

- 13) UPON ARRIVAL AT THE HOSPITAL, ARRANGEMENT SHOULD HAVE BEEN COMPLETED TO PERMIT THE ADMITTANCE OF THE INJURED EMPLOYEE. HEALTH PHYSICS PERSONNEL SHOULD REMAIN AVAILABLE IN ORDER TO ASSIST THE HOSPITAL STAFF IN THE PERFORMANCE OF DECONTAMINATION MEASURES.

CATAWBA NUCLEAR STATION
CONTAMINATED INJURY DRILL
H.P. EVALUATOR'S NOTES

EXPECTED H.P. ACTIONS:

- 1) PROVIDE ANTI-C'S AND CONTAMINATION CONTROL MEASURES FOR RESPONDERS AND INJURED:
 - a) RCZ CONTROL (IF APPLICABLE)
 - 1) ESTABLISH INGRESS/EGRESS PATH W/HERCULITE/PLASTIC
 - b) INSTRUMENT SURVEY
 - 1) INJURED
 - 11) GENERAL AREA
 - c) SMEAR SURVEY
 - d) SAMPLE ANY BODY EFFLUENTS
 - 1) BAG & TAG SAMPLES
 - 11) TRANSPORT AND/OR ANALYZE
 - e) SAMPLE INJURED'S ANTI-C'S (IF APPLICABLE)
- 2) DISPATCH H.P. TO CONTAMINATED FIRST AID ROOM
 - a) PREP ROOM W/SUPPLIES & LAYDOWN MATERIALS
 - b) SECURE VENTILATION
- 3) PREPARE FOR TRANSPORT TO CONTAMINATED FIRST AID ROOM
 - a) MINIMIZE CROSS-CONTAMINATION
 - b) CONTROL VICTIM/RESPONDERS EGRESS FROM EVENT SITE
- 4) ESCORT VICTIM/RESPONDERS TO FIRST AID ROOM
- 5) DISPATCH H.P. TO RECOVER/SURVEY ACCIDENT AREA AND PATH TAKEN TO FIRST AID ROOM

- 6) CONTROL CONTAMINATION & PROVIDE PROTECTION IN FIRST AID ROOM
- 7) REMOVE VICTIM ANTI-C'S
- 8) MONITOR ENTIRE BODY SURFACE AREA
 - a) NOTE CONTAMINATION LEVELS
- 9) DECON VICTIM
 - a) RESURVEY
 - b) DECON 2ND TIME IF NECESSARY
- 10) PREPARE AMBULANCE FOR TRANSPORT AS NECESSARY
 - a) CONTROL CONTAMINATION IN AMBULANCE IF NECESSARY
- 11) DISPATCH H.P. TO HOSPITAL TO PREPARE RCZ
 - a) BREAKOUT HOSPITAL KIT SUPPLIES
 - b) ASSIST MEDICAL PERSONNEL WITH ANTI-C'S CONTAMINATION CONTROL TECHNIQUES
 - c) SECURE VENTILATION
- 12) ACCOMPANY VICTIM TO HOSPITAL
- 13) PROVIDE CONTAMINATION CONTROL AND RADIOLOGICAL ADVISEMENT AT HOSPITAL
- 14) RECOVER HOSPITAL

15) IMPLEMENT H.P. PROCEDURES AS REQUIRED:

1000/05 DELINEATION OF RCZ'S

1004/06 PERSONNEL DECON

1004/21 EQUIPMENT DECON

1009/02 INVESTIGATION...PERSONNEL CONTAMINATION

1009/10 BBA FOLLOWING SUSPECTED UPTAKE

FIRST RESPONDER DRILL CRITIQUE

Drill _____ Date _____

Announced Unannounced

Reported by _____ Date _____ Time _____

Reported to: CAS SAS Safety Control Room Medical

Location: Building _____ Level _____ Room # _____

Outside _____

Type of Drill: Medical Rescue Other _____

Patient Priority: 1 2 3

Station Response: Yes No Time No. of Personnel

Operations _____

Medical _____

Safety _____

Security _____

Health Physics _____

First Responders _____

Transportation: Company Vehicle Private Vehicle Ambulance ,
Specify _____

Name of First Responders _____, _____, _____,
_____, _____, _____,

Patient stabilized for removal from scene Time _____
(All treatment complete)

Drill Secured Time _____

Controller: _____

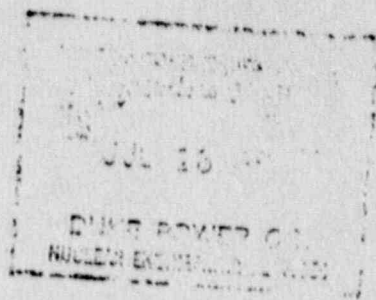
Drill Critiqued as Satisfactory Yes No

Drill Critiqued as Unsatisfactory Yes No

If unsatisfactory, why _____

DUKE POWER COMPANY
 NUCLEAR STATIONS
 SYSTEMS IDENTIFICATIONS
 (CATAWBA STATION ONLY)

Dr. Hensley



<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
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A Steam Services Systems

AD Standby Shutdown Diesel System

AS Auxiliary Steam System

Auxiliary Steam

B Boiler (Steam Generator-N) Services Systems

BB Steam Generator Blowdown Recycle System

Boiler Blowdown

BW Steam Generator Wet Lay-up

Boiler Wet Lay-up

Condensate - Feedwater System

CA Auxiliary Feedwater System (including Recir.)

Condensate Auxiliary

CB Auxiliary Boiler Feedwater System
(Including Recirc)

Condensate Boiler

CF Feedwater Sys (Including Recir)

Condensate Feedwater

CL FDWP Condensate Seal Sys. (supply & leak off)

Condensate Seal & Leakoff

CM Condensate Sys. (Including Recir, Polishing
Demineralizer)

Condensate Main

CS Condensate Storage Sys.

Condensate Storage

CT Conventional Sampling Sys.

Condensate Testing

D Desuperheater System

E Electrical Systems

Switchyard AC System

230KV Switchyard 480, 208/120V AC System

System No.

Name of System

System No. Implied Meaning

System No.	Name of System	System No. Implied Meaning
	<u>Switchyard DC System</u>	
EBH	230KV Switchyard 125V DC System	
	<u>Switchyard Cable Support System</u>	
EBB	230KV Switchyard Cable Support System	
EBA	230KV Switchyard Physical Layout System	
EBD	230KV Switchyard Protective Relaying System	
EBE	230KV Switchyard Control System	
	<u>Switchyard Fire Detection/Protection Systems</u>	
EBG	230KV Switchyard Fire Detection/Protection System	
	<u>Switchyard Grounding System</u>	
EBC	230KV Switchyard Grounding System	
	<u>Switchyard Lighting System</u>	
EBL	230KV Switchyard Lighting System	
EBF	230KV Switchyard Metering & Monitoring System	
	<u>Switchyard Monitoring System</u>	
ERE	<u>Unit Main Power System Control System</u>	
EPA	Unit Main Power System (22KV)	
	<u>Auxiliary Power System</u>	
EPB	5.9KV Normal Auxiliary Power System	
EPC	4.16KV Essential Auxiliary Power System	
EPD	600V AC Normal Auxiliary Power System	
PE	600V Essential Auxiliary Power System	
PF	240/120 VAC Auxiliary Control Power System	
PG	120 VAC Vital Instrumentation & Control Power System	
PH	208/120 VAC Normal Auxiliary Power System	
PJ	250V DC Auxiliary Power System	

(CATAWBA)

<u>tem</u> <u>o.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
EPK	125V DC Auxiliary Control Power System	
EPL	125V DC Vital Instrumentation & Control Power System	
EPM	13.8KV Normal Auxiliary Power System	
EPR	240/120V AC Normal Aux. Power Sys.	
EPQ	125V DC (Essential) Diesel Auxiliary Power System	
EPW	600V AC Station Normal Aux. Power Sys.	
EPY	240/120V AC Essential Aux. Power Sys.	
EPZ	240/120V AC Station Normal Aux. Power Sys.	
ETA	208/120V Station Normal Aux. Power Sys.	
ETB	4.16V Blackout Aux. Power Sys.	
ETC	600V AC Blackout Aux. Power Sys.	
ETE	208/120 VAC Blackout Auxiliary Power System	
ETF	600 VAC Cooling Tower Auxiliary Power System	
ETL	600/208/120V AC Standby Shutdown Facility Auxiliary Power System	
ETM	250V DC/125V DC Standby Shutdown Facility Auxiliary Power System	
	<u>Lighting System</u>	
ELN	Normal Lighting Sys. (AC)	
ELA	Emergency Lighting System (AC)	
ELD	Emergency Lighting System (DC)	
EHT	<u>Trace Heating System</u>	
	<u>Plant Grounding System</u>	
EVA	Station Grounding System	
EVB	Instrument Grounding System	
EVC	Computer Grounding System	

(CATAWBA)

System No.

Name of System

System No. Implied Meaning

Communication System

ECB	Normal Communication System (Bell Telephone System)
ECI	Interplant Telephone System
ECP	Public Address System
ECM	Microwave System (Interfaced with Interplant Telephone System)
ECD	Microwave (Dispatch) System
ECF	Intercommunication System (Gate Station Intercom)
ECG	Fuel Handling Intercomm. Sys. (Sound Powered Telephone)
ECH	Test Department Intercomm. Sys. (Sound Powered Telephone)
ECE	Communication System (Emergency)
ERA	<u>Transformer Station Physical Layout System</u>
ERB	<u>Transformer Station Cable Support System</u>
ERC	<u>Transformer Station Grounding System</u>
ERF	<u>Unit Main Power System Metering and Monitoring System</u>
	<u>Plant Monitoring System</u>
EMA	ESF Bypass Indication System (Regulatory Guide 1.47 Panel)
EMB	Annunciator Alarm System (Unit)
EMC	Event Recorder System (Plant)
EMD	Loose Parts Monitoring System (Unit)
EME	Power Monitoring System (Reactor Coolant Pumps)
EMF	Radiation Monitoring System (Unit)
EMG	Recorder System
EMH	Vibration Monitoring Sys.. (Reactor Coolant Pumps)

(CATAWBA)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
EMI	Vibration Monitoring Sys. (Other than R.C.P.'s)	
EMJ	Closed Circuit Television Monitoring System	
EMK	Evacuation Alarm System	
EMT	Class 1E Equipment Area Temperature Monitoring System	
	<u>Protective Relaying System</u>	
ERD	Unit Main Power System Protective Relaying System	
ERN	Class 1E Diesel Protective Relaying and Metering System	
	<u>Plant Cable Support System</u>	
EWA	Cable Room	
	Cable Support System	
EWB	Equipment Room	
	Cable Support System	
EWG	General Plant Cable Support System	
EOA	<u>Main Control Room Board System</u>	
EOC	<u>Safe Shutdown Control Panel System</u>	
EZA	<u>Electrical Penetrations</u>	
EYA	Electrical Test System	
EDA	<u>Control Rod Drive Position Indication System</u>	
	<u>Coordinated Process Control System</u>	
EIA	NSSS Process Instrumentation & Control System - Nuclear	
EIB	Balance of Plant Process Instrumentation and Control System	
EQB	<u>Diesel Load Sequencing System (Class 1E)</u>	
EQC	<u>Diesel Controls System (Class 1E)</u>	
EQD	<u>Safe Shutdown Diesel Control System</u>	

(CATAWBA)

System No.

Name of System

System No. Implied Meaning

EKA Dispatch Control System

EEA Environmental Instrumentation System

EVE Electrical Reach Rod Plug Valves Control System

EFA Fire Detection System

EGA Generator Cooling System

EGB Generator Excitation System

EGC Generator Instrumentation & Control System

EEB Meteorological Instrumentation System
Nuclear Instrumentation System

ENA In-Core Instrumentation System

ENB Out-of-Core Instrumentation System

EXA Plant Security System

EXH Electrically Operated Cranes & Hoists

EXS Electrically Operated Doors, Machine Shop Equip.,
Water Heaters, Welding Feeders

EUC Cathodic Protection - System

F Fuel Handling System

FC Nuclear Fuel Handling System Fuel Carrying

FD Diesel Generator Engine Fuel Oil System Fuel Diesel

FW Refueling Water System Fuel Water

G Compressed Gas System

GB Hydrogen Blanket System Gas Blanket

GH Generator Hydrogen System Gas Hydrogen

GN Nitrogen System (Includes Equip. Blanketing) Gas Nitrogen

O Oxygen System Gas Oxygen

(CATAWBA)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
GP	CO ₂ Generator Purge System	<u>G</u> as <u>P</u> urge
GS	Hydrogen Bulk Storage System	<u>G</u> as <u>S</u> torage
<u>H Heater System</u>		
HA	Bleed Steam to "A" Heaters	<u>H</u> eater " <u>A</u> "
HB	Bleed Steam to "B" Heaters	<u>H</u> eater " <u>B</u> "
HC	Bleed Steam to "C" Heaters	<u>H</u> eater " <u>C</u> "
HD	Bleed Steam to "D" Heaters	<u>H</u> eater " <u>D</u> "
HE	Bleed Steam to "E" Heaters	<u>H</u> eater " <u>E</u> "
HF	Bleed Steam to "F" Heaters	<u>H</u> eater " <u>F</u> "
HG	Bleed Steam to "G" Heaters	<u>H</u> eater " <u>G</u> "
HM	Moisture Separator-Reheater Bleed Steam Heater Relief Valve System	<u>H</u> eater <u>M</u> oisture-Separator <u>H</u> eater <u>R</u> elief
HS	Moisture Separator - Reheater Drain System	<u>h</u> eater <u>S</u> eparator
HV	Heater Vent System	<u>H</u> eater <u>V</u> ent
HW	Heater Drain System	<u>H</u> eater Drain <u>W</u> ater
<u>I Instrumentation & Control Mechanical Systems</u>		
IAE	Containment Personnel Air Lock System	<u>I</u> nstrumentation <u>A</u> ir Lock
ICE	Containment Leak Testing System	<u>I</u> nstrumentation <u>C</u> ontainment
IDE	Steam Dump Control System	<u>I</u> nstrumentation <u>D</u> ump
IEE	Seismic (Earthquake) Monitoring System	<u>I</u> nstrumentation <u>E</u> arthquake
IFE	Feedwater Control System	<u>I</u> nstrumentation <u>F</u> eedwater
IKE	Operator Aid Computer System	<u>I</u> nstrumentation <u>C</u> omputer
ILE	Pressurizer Pressure & Level Control System	<u>I</u> nstrumentation <u>L</u> evel
IRE	Reactor Protection System	<u>I</u> nstrumentation <u>P</u> rotection
IRI	Rod Control System	<u>I</u> nstrumentation <u>R</u> od

(CATAWB.)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
ISE	Engineered Safety Features Actuation System	<u>I</u> nstrumentation <u>S</u> afety
ITE	Main Turbine Instrumentation & Control System & Supervisory System)	<u>I</u> nstrumentation <u>T</u> urbine
IWE	Feedwater Pump-Turbine Instrumentation and Control System	<u>I</u> nstrumentation <u>F</u> eed <u>w</u> ater <u>P</u> ump
<u>K Cooling Water Systems</u>		
KC	Component Cooling System	<u>C</u> ooling <u>C</u> omponent
KD	Diesel Generator Engine Cooling Water System	<u>C</u> ooling <u>D</u> iesel
KF	Spent Fuel Cooling Sys.	<u>C</u> ooling <u>F</u> uel
KG	Generator Stator Cooling Water System	<u>C</u> ooling <u>G</u> enerator
KR	Recirculated Cooling Water System	<u>C</u> ooling <u>R</u> ecirculated
<u>L Hydraulic & Lubricating Oil System</u>		
LD	Diesel Generator Engine Lube Oil System-N	<u>L</u> ube (<u>D</u> iesel)
LF	FWP Turbine Lube Oil System (Includes Auxiliary FWP Turbine When Applicable)	<u>L</u> ube <u>F</u> eed Pump
LG	Generator Seal Oil System (Iron Horse)	<u>L</u> ube <u>G</u> enerator
LH	Main Turbine Hydraulic Oil System	<u>L</u> ube <u>H</u> ydraulic
LP	FWP Turbine Hydraulic Oil System (Includes Auxiliary FWP Turbine when Applicable)	<u>L</u> ube <u>P</u> ump
LT	Main Turbine Lube Oil and Purification Sys.	<u>L</u> ube <u>T</u> urbine
<u>M Miscellaneous Systems</u>		
MD	Miscellaneous Drains & Vents	<u>M</u> iscellaneous <u>D</u> rains
ME	Miscellaneous Embedded Piping	<u>M</u> iscellaneous <u>E</u> MBEDDED
MF	Miscellaneous Field Routed Piping	<u>M</u> iscellaneous <u>F</u> ield
MI	Miscellaneous Station Instrumentation	<u>M</u> iscellaneous <u>I</u> nst.
MR	Miscellaneous Safety & Relief Valve Discharge	<u>M</u> iscellaneous <u>R</u> elief

(CATAWBA)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
MS	Miscellaneous Piping Sleeves System	<u>M</u> iscellaneous <u>S</u> leeves
MT	Miscellaneous Transfers	<u>M</u> iscellaneous <u>T</u> ransfers
MV	Miscellaneous Valves	<u>M</u> iscellaneous <u>V</u> alves
<u>N Reactor Support & Nuclear Associated Systems</u>		
NB	Boron Recycle	<u>N</u> uclear <u>B</u> oron Recycle
NC	Reactor Coolant System	<u>N</u> uclear <u>C</u> oolant
ND	Residual Heat Removal	<u>N</u> uclear <u>D</u> ecay Heat Removal
NF	Ice Condenser Refrigeration System	<u>N</u> uclear Ice Condenser Refrig.
NI	Safety Injection System	<u>N</u> uclear <u>I</u> njection
NM	Nuclear Sampling System	<u>N</u> uclear <u>M</u> onitoring
NR	Boron Thermal Regeneration	<u>N</u> uclear <u>R</u> egeneration
	Containment Spray System	<u>N</u> uclear <u>S</u> pray
NV	Chemical & Volume Control System	<u>N</u> uclear <u>V</u> olume Control
NW	Containment Penetration Valve Injection Water System	
<u>P Temporary Piping Systems</u>		
PB	Temporary Blowout Piping System	<u>P</u> iping <u>B</u> lowout
PC	Chemical Cleaning	<u>P</u> iping <u>C</u> hemical
PW	Temporary Flush and Washout Piping System	<u>P</u> iping <u>W</u> ashout
<u>R Raw Water Systems</u>		
RA	Condenser Tube Cleaning System	<u>R</u> aw Water <u>A</u> mertap
RC	Condenser Circulating Water Systems (Includes blow down lines)	<u>R</u> aw Water <u>C</u> ondenser
RF	Fire Protection System	<u>R</u> aw Water <u>F</u> ire
	Conventional Low Pressure Service Water Sys.	<u>R</u> aw Water <u>L</u> ow Pressure

(CATAWL.)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
RN	Nuclear Service Water System	<u>R</u> aw <u>W</u> ater <u>N</u> uclear
RS	LPSW Intake Screen Backwash System	<u>R</u> aw <u>W</u> ater <u>S</u> creen
RY	Exterior Fire Protection System	<u>R</u> aw <u>W</u> ater <u>Y</u> ard
<u>S Steam Lead Systems</u>		
SA	Main Steam Supply to Aux Equipment (Including Aux FDWP Turbine)	<u>S</u> team <u>A</u> uxiliary
SB	Main Steam Pypass to Condenser	<u>S</u> team <u>B</u> ypass
SC	Turbine Crossover	<u>S</u> team <u>C</u> rossover
SD	Steam Lead System Drains	<u>S</u> team <u>D</u> rains
SH	Main Steam Leads and/or Headers (By Turbine Manufacturer)	<u>S</u> team <u>H</u> eaders
SM	Main Steam	<u>S</u> team <u>M</u> ain
SP	Main Steam Supply to FDWP Turbine	<u>S</u> team <u>P</u> ump Turbine
SV	Main Steam Vent to Atmosphere	<u>S</u> team <u>V</u> ent
<u>T Turbine Cycle Services Systems</u>		
TE	FDWP Turbine Exhaust (Includes Aux FDWP)	<u>T</u> urbine <u>E</u> xhaust
TF	FDWP Turbine Steam Seal System	<u>T</u> urbine <u>F</u> eed Pump
TL	Main Turbine Leakoff & Steam Seal System (Includes CV Leakoffs and Ventilator Valves)	<u>T</u> urbine <u>L</u> eakoffs
TS	Turbine Exhaust Hood Spray System	<u>T</u> urbine <u>S</u> pray
<u>V Ventilation & Compressed Air Systems</u>		
VA	Aux Bldg Ventilation System	<u>V</u> entilation <u>A</u> ux Bldg
VB	Breathing Air System	<u>B</u> reathing <u>A</u> ir
VC	Control Area HVAC System	<u>V</u> entilation <u>C</u> ontrol Area
VD	Diesel Building Ventilation Sys	<u>V</u> entilation <u>D</u> iesel Bldg.
VE	Annulus Ventilation System	

(CATAWBA)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
VF	Fuel Pool Ventilation System	<u>V</u> entilation <u>F</u> uel Pool
VG	Diesel Generator Engine Starting Air Sys	
VH	Technical Support Center Ventilation Sys	
VI	Instrument Air System	<u>I</u> nstrument Air
VJ	Computer Room Area Air Conditioning	<u>V</u> entilation. Computer Room Area
VK	Miscellaneous HVAC	
VM	Administration Building HVAC System	
VN	Diesel Gen. Engine Air Intake & Exhaust Sys.	
VO	Turbine Bldg. Ventilation System	
VP	Containment Purge Ventilation System	<u>V</u> entilation Containment <u>P</u> urge
VQ	Containment Air Release & Additional System	
VS	Station Air Sys	<u>S</u> tation Air
	Containment Ventilation System	
VW	Service Bldg & Warehouse Vent. Sys.	<u>V</u> entilation <u>W</u> arehouse
VX	Cont. Air Ret. & Hydrogen Skimmer Sys.	
VY	Containment Hydrogen Sample & Purge Sys.	
VZ	Nuclear Service Water Pump Structure Vent System	
<u>W Waste Removal System</u>		
WB	Service Bldg. Sump Pump System	<u>W</u> aste Service <u>B</u> ldg.
WC	Conventional Waste Water Treatment	<u>W</u> aste Water Treatment- <u>C</u> onventional
WD	Roof Drains (Used by <u>Civil</u> for Catawba only)	<u>W</u> aste Roof <u>D</u> rains
WE	Equipment Decontamination System	<u>W</u> aste <u>E</u> quipment
WF	Floor Drain and Equipment Drains System	<u>W</u> aste <u>F</u> loor Drains
	Gaseous Waste Management System	<u>W</u> aste <u>G</u> as

(CATAWBA)

<u>System No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
WL	Liquid Waste Recycle System (Liquid Radwaste)	<u>W</u> aste <u>L</u> iquid
WN	Diesel Generator Room Sump Pump System	<u>W</u> aste <u>D</u> iesel <u>G</u> enerator
WO	Waste Oil System	<u>W</u> aste <u>O</u> il
WP	Turbine Room Sump Pump System (powerhouse)	<u>W</u> aste <u>P</u> owerhouse
WS	Nuclear Solid Waste Disposal Sys. (Solid Radwaste. Includes connection to Liq. Waste)	<u>W</u> aste <u>S</u> olid
WT	Sanitation and Waste Treatment System (Plumbing)	<u>W</u> aste <u>T</u> reatment
WY	Yard Drains	<u>W</u> aste <u>Y</u> ard
WZ	Groundwater Drainage System	<u>W</u> aste <u>Z</u>
<u>Y Treated Water Systems</u>		
YA	Conventional Chemical Addition System	<u>Y</u> <u>A</u> ddition
YB	Administration Bldg. Chilled Water System	<u>Y</u> <u>A</u> dministration Bldg.
YC	Control Area Chilled Water System	<u>Y</u> <u>C</u> ontrol Area (<u>V</u> <u>C</u> Counterpart)
YD	Drinking Water System	<u>Y</u> <u>D</u> rinking
YF	Filtered Water System	<u>Y</u> <u>F</u> iltered
YH	Heating Water System	<u>Y</u> <u>H</u> eating
YJ	Computer Room Chilled Water System	(<u>V</u> <u>J</u> Counterpart)
YM	Makeup Demineralizer Water System	<u>Y</u> <u>M</u> akeup
YR	Aux. Bldg. Radwaste Area Chilled Water Sys	<u>Y</u> <u>R</u> adwaste Area
YT	Cooling Tower Water Treatment System	<u>Y</u> <u>T</u> ower
YV	Containment Chilled Water System	(<u>V</u> <u>V</u> Counterpart)
YW	Service Building Chilled Water System	(<u>V</u> <u>W</u> Counterpart)
YN	Aux. Bldg. Cooling Water System	Why Not (<u>R</u> <u>N</u> Counterpart)
YK	Stm. Prod. Ofc. Bldg. Chilled Wtr. Sys.	(<u>V</u> <u>K</u> Counterpart)

(CATAWBA)

<u>Item No.</u>	<u>Name of System</u>	<u>System No. Implied Meaning</u>
Z	<u>Vacuum Systems</u>	
ZD	Diesel Generator Engine Crankcase Vacuum System	<u>Z</u> <u>D</u> iesel
ZJ	Condenser Steam Air Ejector Vacuum System	<u>Z</u> <u>E</u> jector
ZM	Main Vacuum System	<u>Z</u> <u>M</u> ain
ZP	Vacuum Priming System	<u>Z</u> <u>P</u> riming