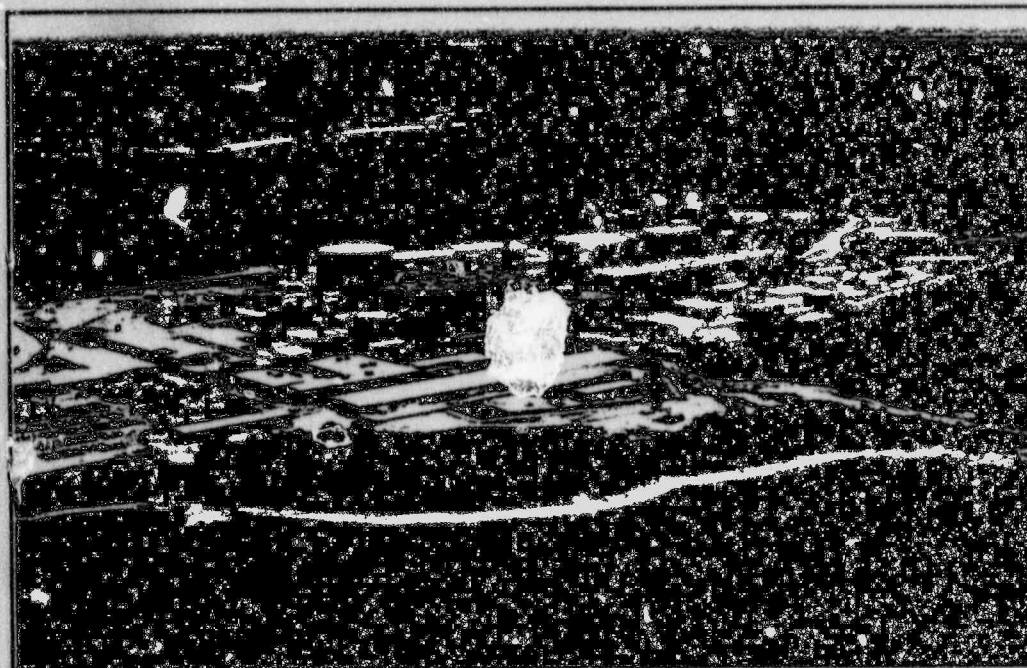


MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995

CONFIDENTIAL



Exercise Manual

**APPENDIX D-
RUMOR CONTROL**

CONFIDENTIAL

Northeast Utilities Service Company

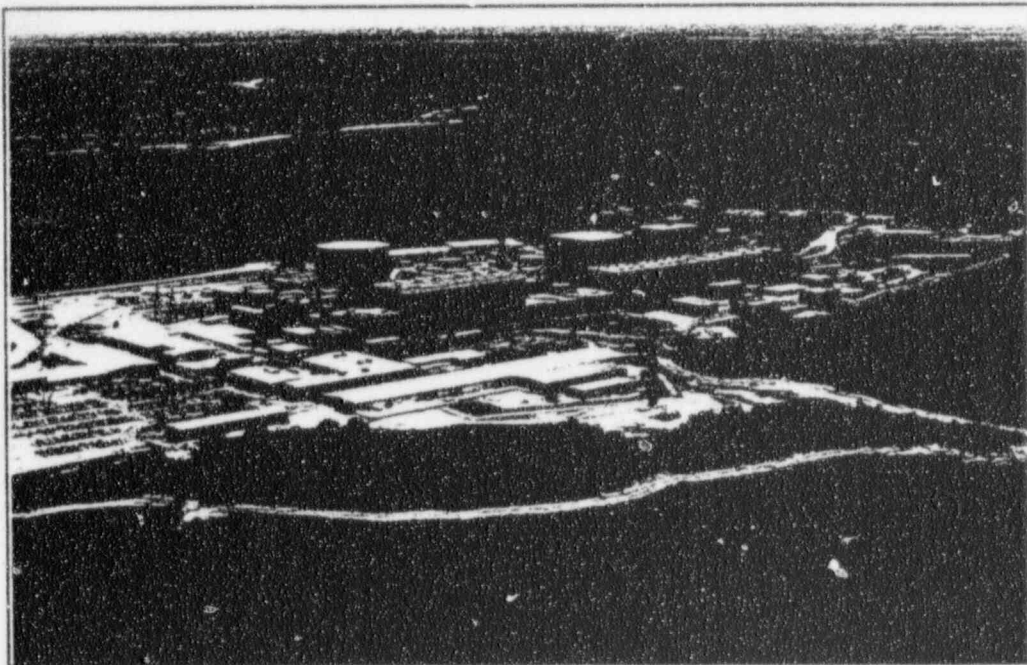
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PDR ADOCK 05000423
F PDR

MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995

CONFIDENTIAL



Exercise Manual

**APPENDIX D-
RUMOR CONTROL**

CONFIDENTIAL

Northeast Utilities Service Company

9512270155 951005
PDR ADOCK 05000423
F PDR

CONTROLLER MESSAGE

MESSAGE # GP-1

CLOCK TIME: 8:00
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

The parent of a MP plant worker has received phone calls from friends living near the plant saying they have heard "explosions" and sirens at the plant. She is worried about her son, but can't get through to the switchboard at the plant.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-2

CLOCK TIME: 8:05
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

Someone is calling from the Niantic Pharmacy. Some men who were fishing in the discharge canal heard loud noises and bursts of steam coming from the plant. Shortly after, security guards directed them to leave the area. They stopped at the pharmacy to use the phone and have been telling people there is a big accident at the plant.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-1

CLOCK TIME: 8:10

FROM: Rumor Control Cell

TO: MP

MESSAGE: *THIS IS A DRILL*

(From Media Center) A report has come in that there is a bomb on a bridge on Route 156. Has anyone checked this out?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-3

CLOCK TIME: 8:15
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

A woman has called into the switchboard and says her friend's husband has been called to the nuclear plant due to "some emergency." If something is happening, she'd like to know as soon as possible because she has someone who is living in her home who can not be easily moved.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-2

CLOCK TIME: 8:30

FROM: Rumor Control Cell

TO: MD

MESSAGE: *THIS IS A DRILL*

(From Media Center) Reporters have heard that many fish in the area are dead in the water. Is this true?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-4

CLOCK TIME:

8:40

FROM:

Rumor Control Cell

TO:

GP

MESSAGE:

THIS IS A DRILL

A frantic caller wants to know if he can take his dog with him as they leave the area. The dog has been outside since the accident began.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS

INFORMATIVE

PROFESSIONAL

CONFIDENT

REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-3

CLOCK TIME: 8:50
FROM: Rumor Control Cell
TO: MD

MESSAGE: *THIS IS A DRILL*

A television reporter wants to know what provisions are being made to monitor the environment? The public?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-5

CLOCK TIME:

9:00

FROM:

Rumor Control Cell

TO:

GP

MESSAGE:

THIS IS A DRILL

A caller wants to know if potassium iodide has been recommended for the general public? If so, how do they get it?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS

INFORMATIVE

PROFESSIONAL

CONFIDENT

REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-4

CLOCK TIME: 9:10

FROM: Rumor Control Cell

TO: MD

MESSAGE: *THIS IS A DRILL*

(Delivered by Media Center Supervisor) Several reporters are very confused about what is going on concerning evacuations. Please provide details.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-6

CLOCK TIME: 9:15
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

(Called in from a Fishers Island, N.Y., Emergency Planning Official) What is going on? Has an evacuation been ordered? People in town are panicky and wondering what to do.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-7

CLOCK TIME: 9:25
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

(From State Police) People have heard that road blocks are being set up at all major intersections. It is not true. Police are there to direct and expedite traffic. Please pass this on to the media.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-5

CLOCK TIME:

9:40

FROM:

Rumor Control Cell

TO:

MD

MESSAGE:

THIS IS A DRILL

A report has come in that sirens have gone off in New London. What is going on?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-6

CLOCK TIME: 9:50
FROM: Rumor Control Cell

TO: MD

MESSAGE: *THIS IS A DRILL*

A report was heard on Channel 3 that people are to evacuate from all areas west of the Thames River. Is this so?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-8

CLOCK TIME: 10:05

FROM: Rumor Control Cell

TO: GP

MESSAGE: *THIS IS A DRILL*

A caller reports that her child is in school in East Lyme. What is being done to protect her child? Should she go and pick her up?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-9

CLOCK TIME: 10:10
FROM: Rumor Control Cell
TO: GP

MESSAGE: *THIS IS A DRILL*

A man driving on Route 156 and saw a misty cloud in the area of Millstone. Do we have any information?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-7

CLOCK TIME: 10:15
FROM: Rumor Control Cell
TO: MD
MESSAGE: *THIS IS A DRILL*

(From Media Center) Reporters in area around Millstone have heard from many people that they don't know what to do. Please give some direction.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # LOC-1

CLOCK TIME: 10:25
FROM: Rumor Control Cell
TO: LOC
MESSAGE: *THIS IS A DRILL*

(Call from State Police) People are flooding their switchboards with questions on what they should do if things get worse. Please make a public announcement.

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # CP-10

CLOCK TIME: 10:40
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

A caller has asked what will happen if things deteriorate further? How will the public find out

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-11

LOCK TIME: 10:50

FROM: Rumor Control Cell

TO: GP

MESSAGE: *THIS IS A DRILL*

A caller is very concerned that things may be getting out of hand at the plant.
What if there is a large radiation release? Will there be a warning?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # G-P-12

CLOCK TIME: 10:55
FROM: Rumor Control Cell
TO: GP
MESSAGE: *THIS IS A DRILL*

A rumor has been passed on to the Dept. of Agriculture that farmers are being told to remove cattle from the fields and place them on stored feed. Is it true?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-13

CLOCK TIME: 11:00

FROM: Rumor Control Cell

TO: GP

MESSAGE: *THIS IS A DRILL*

A caller reports that people are being ordered to evacuate in Waterford? Is this true? Where should they go?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # GP-14

CLOCK TIME: 11:05

FROM: Rumor Control Cell

TO: GP

MESSAGE: *THIS IS A DRILL*

A caller heard that there was a serious accident at Millstone. What has happened

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING
 I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-8

CLOCK TIME: 11:10
FROM: Rumor Control Cell
TO: MD
MESSAGE: *THIS IS A DRILL*

This is Pam Wright from Channel 5 in New York City. We have heard there has been an accident at one of your nuclear plants. Is there risk of a fallout cloud drifting toward New York City or Long Island? If so, how long will it take before the cloud reaches the area? Are Connecticut officials in contact with New York officials?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-9

CLOCK TIME: 11:15

FROM: Rumor Control Cell

TO: MD

MESSAGE: *THIS IS A DRILL*

This is WPOP radio. Have potassium iodide tablets been recommended for use by the general public? If so, how do they get these?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL

CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-10

CLOCK TIME: 11:20

FROM: Rumor Control Cell

TO: MD

MESSAGE: *THIS IS A DRILL*

This is WTIC TV. We have heard reports of injuries at Millstone in Waterford as a result of this morning's accident. How many people were injured? Where were the injured taken

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-11

CLOCK TIME:

11:25

FROM:

Rumor Control Cell

TO:

MD

MESSAGE:

THIS IS A DRILL

This is Edward Murrow from WTIC radio. I want to know if the state has opened any relocation centers for towns that have been evacuated. Where are they

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

COURTEOUS

INFORMATIVE

PROFESSIONAL

CONFIDENT

REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-12

LOCK TIME: 11:30
FROM: Rumor Control Cell
TO: MD
MESSAGE: *THIS IS A DRILL*

This is the Day in New London. Have there been any reports of radiation sickness among residents in the area? If so, where are these people being taken for treatment?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

CONTROLLER MESSAGE

MESSAGE # MD-13

CLOCK TIME: 11:40
FROM: Rumor Control Cell
TO: MD
MESSAGE: *THIS IS A DRILL*

Ron Ellsberg from WFSB TV. Is it true that the NRC and FEMA officials are being called in to direct the emergency operations?

THIS IS A DRILL

Please Describe the Response to this Call (if any):

The following information was provided:

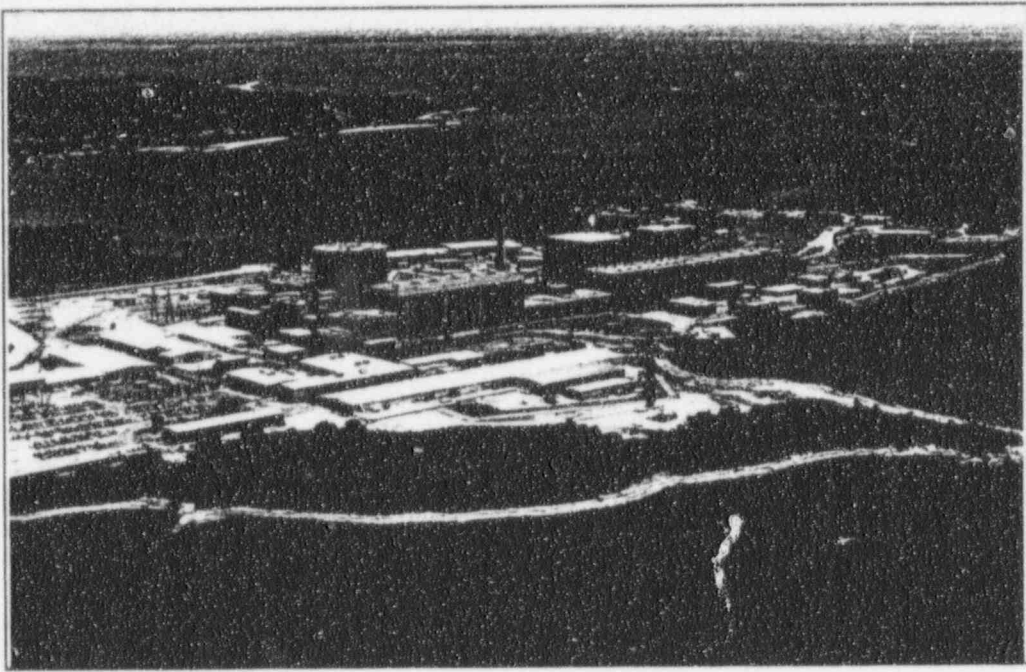
RESPONDENT WAS (CHECK ALL THAT APPLY):

- COURTEOUS INFORMATIVE PROFESSIONAL
 CONFIDENT REASSURING

I was satisfied with the response

50-423

**MILLSTONE UNIT 3
EXERCISE
OCTOBER 1995
(PART I)**



Exercise Manual

~~CONFIDENTIAL~~

Northeast Utilities Service Company

220857

*H00501
Per Region 1
Charlie*

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**MILLSTONE UNIT 3
OCTOBER 1995**

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INTRODUCTION

**MILLSTONE UNIT 3
OCTOBER 1995**

INTRODUCTION

Section I

This exercise manual contains the scope, objectives and the specific scenario that will be used for the Millstone October 5, 1995 exercise. The manual has information for demonstrating emergency response capability, coordinating and controlling the exercise and evaluating the results. Please be aware that all of the material in this manual must be considered confidential and remain secured until after the exercise.

Due to the dynamic nature of a simulator driven exercise, parameters associated with scenario events may not match the information provided in the manual. Therefore, the control of events provided by our controller organization is essential to the conduct of safe and successful exercise.

The Emergency Preparedness Department staff are very appreciative of the time and energy put into the project and want to thank all team members for their participation in the process. If you should have any questions after reviewing the information contained in this manual please feel free to contact us.



SCHEDULE

12

SCHEDULE

**MILLSTONE UNIT 3
OCTOBER 1995**

Section II

SCHEDULE

EXERCISE SCHEDULE

A. Controller/Observer Briefing

Date: October 3, 1995
Time: 8:00 am -11:30 am
Location: Millstone EOF (Waterford, CT)
Purpose: Controller/Observer (C/OS) briefing on scenario and assignments.
Attendees: All C/O's assigned to MP3 Exercise

B. Controller/Observer Plant Tour

Date: October 3, 1995
Time: As necessary (Contact Lead Controller)
Location: Emergency Response Facilities and In-station Areas
Purpose: Familiarize Controllers/Observers with affected areas
Attendees: Controllers/Observers

C. NRC Briefing

Date: October 4, 1995
Time: 1:00 pm
Location: Millstone EOF
Purpose: NRC briefing on exercise scenario and entrance meeting.
Attendees: EPD Staff, Lead Controllers, Exercise Coordinator and NRC Evaluators.

D. Exercise

Date: October 5, 1995
Time: To be announced
Location: Millstone Station Emergency Response Facilities,
Designated State and Local Emergency Response Centers
Purpose: Demonstrate emergency response capability for evaluation.
Attendees: Millstone SERO, on-site and off-site C/Os, NRC Evaluators,
Designated State and Local ERO personnel, FEMA Evaluators.

E. Exercise Debriefing

Date: Day of exercise
Time: Following the termination of the exercise.
Location: ERFs
Purpose: Local area of debrief by C/Os observing functional area.
Attendees: Controllers/Observer and key participants

F. Written observation and Forms

Date: Day of Exercise
Time: End of day
Location: N/A
Purpose: Provide completed forms to lead controller.
Attendees: All C/O's are required to provide written comments.

G. Integrated Debrief

Date: October 5, 1995
Time: 1:00-2:00 pm
Location: Millstone EOF
Purpose: To discuss any significant observations/findings.
Attendees: Lead controllers, exercise coordinator.

H. Lead Controller Meeting

Date: October 6, 1995
Time: 8:00 am -11:00 am
Location: Millstone EOF
Purpose: To summarize all observations/findings and prioritize for management presentation..

I. Exercise Critique

Date: October 6, 1995
Time: 1:00-2:00 pm
Location: Millstone EOF
Purpose: Present self-assessment report to Station Management on exercise performance.

J. NRC Exit

Date: October 6, 1995
Time: Following the critique
Location: Millstone EOF preliminary
Purpose: NRC presentation of observations/findings on Millstone Annual exercise.
Attendees: All C/O's assigned to MP3 Exercise.

K. FEMA Exit

Date: October 12, 1995
Time: 3:00 P.M.
Location: Waterford Public Library
Purpose: State and Local Critique
Attendees: State and Local Community Officials

L. FEMA Exit

Date: October 12, 1995
Time: 7:00 P.M.
Location: Waterford Public Library
Purpose: Annual Exercise Public Meeting
Attendees: Media, State and Local Community Officials, and Utility

SCOPE/OBJECTIVES

Scope

Core Elements and Objectives

Extent of Play

Exercise Guidelines and Simulation

Points

SCOPE/OBJECTIVES

SCOPE/OBJECTIVES

Scope

MILLSTONE UNIT 3
OCTOBER 1995

SECTION III

SCOPE/OBJECTIVES

Scope

This year's annual emergency preparedness exercise is a full participation exercise. All station, state, and local emergency response facilities will be activated. The Millstone Unit 3 simulator is going to drive station events and the exercise control room staff will be staged at the simulator. Offsite agencies will participate and address core objectives. Also, the host communities will demonstrate congregate care and reception center activities. In addition, several municipalities plan to demonstrate school evacuation. The following organizations are participating:

Utility

Northeast Nuclear Energy Company
Millstone Nuclear Power Station
Waterford, Connecticut

CT State Agencies

Governor's Office
Office of Emergency Management
Department of Environmental Protection
Department of Health
State Police
Department of Agriculture
Department of Consumer Protection
Department of Transportation

Municipalities

Town of East Lyme
Fisher's Island, NY*
City of Groton
Town of Groton*
Town of Ledyard
Town of Montville*
Town of New London
Town of Old Lyme
Town of Storrs (UConn)***
Town of Waterford**
Town of Wethersfield***

Other Assisting Organizations

American Red Cross***
Lawrence and Memorial Hospital**

*School evacuation demonstration is planned in these towns.

**MS-1 hospital exercise, is scheduled to be conducted on a separated day from the full-scale exercise.

***Host community demonstration is planned with these agencies.

SCOPE/OBJECTIVES

Core Elements and Objectives

MILLSTONE UNIT 3
OCTOBER 1995
SCOPE/OBJECTIVES

Section III

CORE ELEMENTS AND OBJECTIVES

1. ACCIDENT CLASSIFICATION

Demonstrate the capability to classify an incident based on plant conditions and site situation.

2. NOTIFICATION OF ON-SITE AND OFF-SITE RESPONDERS

Demonstrate the capability to promptly notify Station responders of emergency conditions, and emergency classifications.

Demonstrate the capability to promptly notify **off-site** officials, including the NRC, of emergency conditions, and emergency classifications.

3. COMMUNICATIONS AND INFORMATION FLOW*

Demonstrate the capability to initiate and maintain communications between appropriate emergency response personnel.

Demonstrate the ability to effectively communicate key information between facilities.

4. RADIOLOGICAL EXPOSURE CONTROL

Demonstrate the capability to confirm and continually assess the habitability of the emergency response facilities.

Demonstrate the capability to properly implement appropriate iodine-protective measures (use appropriate respiratory protection or take KI).

Demonstrate the capability to provide at risk on-site personnel with adequate protective equipment.

5. PROTECTIVE ACTION DECISION/RECOMMENDATION MAKING

Demonstrate the capability to decide on protective actions for on-site and off-site personnel. Appropriate decision makers should promptly recommend protective actions on-site and off-site consistent with criteria established in the emergency procedures.

* Indicates NRC identified improvement item from the 1994 exercise.

**MILLSTONE UNIT 3
OCTOBER 1995
SCOPE/OBJECTIVES**

Section III

CORE ELEMENTS AND OBJECTIVES

6. STAFFING AND AUGMENTATION

Demonstrate the capability to augment and staff emergency response facilities in accordance with staffing requirements identified within the emergency response procedures.

Demonstrate the capability to adequately brief relief personnel when utilized.

Demonstrate the ability to plan for a shift change at each Emergency response facility.

7. ANALYSIS OF PLANT CONDITIONS AND CORRECTIVE ACTIONS*

Demonstrate the SERO's capability to maintain an overview of the reactor and plant conditions using the expertise of technical staff, communication links and information posted on status boards.

Demonstrate the capability to recognize that events are progressing abnormally and develop appropriate strategies to bring the plant to a safe shutdown condition.

8. FACILITY MANAGEMENT AND CONTROL

Demonstrate the capability for the facility managers to coordinate and oversee the overall response and redirecting the response when necessary.

Demonstrate the capability for emergency response personnel to perform actions in accordance with appropriate emergency response procedures and instructions.

9. IMPLEMENTATION OF ON-SITE PROTECTIVE ACTIONS

Demonstrate the capability to initiate on-site protective actions as specified in emergency response procedures.

Demonstrate the capability to protect assembled personnel in accordance with emergency response procedures.

Demonstrate the ability to perform continuous accountability of Station Emergency Response Organization (SERO) personnel once initial accountability is complete.

* Indicates NRC identified improvement item from the 1994 exercise.

**MILLSTONE UNIT 3
OCTOBER 1995
SCOPE/OBJECTIVES**

Section III

CORE ELEMENTS AND OBJECTIVES

10. DOSE ASSESSMENT

Demonstrate the capability and knowledge to use approved emergency response procedures for dose assessment.

Demonstrate the capability, if a release is in progress to promptly initiate sampling and monitoring to confirm the composition of releases to better define the source term and verify projected doses.

11. DISPATCH AND COORDINATION OF RADIOLOGICAL MONITORING TEAMS

Demonstrate the capability, to promptly deploy teams to perform radiological monitoring at appropriate locations to characterize the size, location, and intensity of the plume.

12. DISPATCH AND COORDINATION OF CORRECTIVE ACTION TEAMS*

Demonstrate the capability to initiate and perform actions promptly following the decision to conduct an operation in coordination with the control room and to fully brief teams on potential hazards.

Demonstrate the capability to provide teams with adequate radiological exposure control measures and communications.

Demonstrate the capability to coordinate all corrective actions with simulator control room personnel.

13. NEWS MEDIA

Demonstrate the capability to implement emergency procedures in response to an event which requires interface with the news media.

* Indicates NRC identified improvement item from the 1994 exercise.

MILLSTONE UNIT 3
OCTOBER 1995
SCOPE/OBJECTIVES

Section III

CORE ELEMENTS AND OBJECTIVES	
14.	<p><u>USE OF SECURITY PERSONNEL TO PROVIDE PROMPT ACCESS FOR EMERGENCY EQUIPMENT AND SUPPORT</u></p> <p>Demonstrate the capability for security personnel to control access to the site without undue hindrance to emergency response efforts.</p>
15.	<p><u>POST ACCIDENT SAMPLING/ANALYSIS</u></p> <p>Demonstrate the capability to implement the PASS emergency response procedure and take and analyze a post accident sample.</p>
16.	<p><u>INJURED/CONTAMINATED INDIVIDUAL</u></p> <p>Demonstrate the capability to administer First Aid to an injured and contaminated individual.</p> <p>Demonstrate the ability to transport contaminated injured personnel from on-site to a capable off-site treatment facility.</p> <p>Demonstrate the ability of off-site medical resource to treat on-site radiological casualties.</p>
17.	<p><u>INSPECTOR FOLLOW ITEMS/AREAS FOR POTENTIAL IMPROVEMENT</u></p> <p>Demonstrate the capability to address as many as possible of the inspector follow items from previous drills or inspections.</p>
18.	<p><u>CONDUCT EXERCISE CRITIQUE</u></p> <p>Demonstrate the capability for each facility to hold a debrief at the end of the exercise while details are fresh. The preliminary critiques should be followed by a formal critique that evaluates the overall performance and the interaction of facility representatives and players with one another.</p>

* Indicates NRC identified improvement item from the 1994 exercise.

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SCOPE/OBJECTIVES

Extent of Play

**MILLSTONE UNIT 3
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Section III

EXTENT OF PLAY

EXTENT OF PLAY		ERFs
<p>1. ACCIDENT CLASSIFICATION</p> <p>Demonstrate the capability to classify an incident based on plant conditions and site situation.</p> <p><i>The scenario events generated by the Unit 3 Simulator provide the operational conditions which allows emergency organization personnel to demonstrate this objective.</i></p> <p><i>An initial classification by the control room shift supervisor is expected to activate the SERO. An upgrade by the DSEO is expected due to loss of RCS, containment and fuel barriers. Accident classification of a SAE and GE (Alpha) are expected in accordance with EPIP 4400. All forms must be completed.</i></p>	<p>SCR</p> <p>EOF</p>	
<p>2. NOTIFICATION OF ON-SITE AND OFF-SITE RESPONDERS</p> <p>Demonstrate the capability to promptly notify Station responders of emergency conditions, and emergency classifications.</p> <p><i>Following the initial declaration of an emergency the SERO members are expected to be notified within 15 minutes. The SSSA should complete the notification form and use the ENRS as specified in procedures.</i></p> <p><i>The on-shift SSSA will utilize the ENRS as well as other communications equipment located in the MP3 simulator.</i></p> <p>Demonstrate the capability to promptly notify off-site officials, including the NRC, of emergency conditions, and emergency classifications.</p> <p><i>Off-site officials should receive notification by ENRS pager and faxworks in accordance with procedures. Follow-up notification is expected for non-responders. The NRC must be notified within an hour of the classification. The first notification should be directed at the NRC. All subsequent calls may be directed to an "NRC Control Cell".</i></p>	<p>SCR</p> <p>EOF</p>	

MILLSTONE UNIT 3
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EXTENT OF PLAY	ERFs
<p>3. <u>COMMUNICATIONS*</u></p> <p>Demonstrate the capability to confirm and continually assess the habitability of the emergency response facilities.</p> <p><i>ERF management should provide periodic updates on plant conditions and the emergency situation. An upgrade of emergency classification is expected once the SERO is fully staffed. The DSEO at the EOF should classify the event, make PARs and provide the information to all ERFs using designated emergency communications systems.</i></p> <p>Demonstrate the ability to effectively communicate key information between facilities</p> <p><i>Various communication links will be established between the ERFs in order to transmit information and data. Recordkeeping and documentation will be demonstrated in accordance with procedures.</i></p>	<p>ALL</p>
<p>4. <u>RADIOLOGICAL EXPOSURE CONTROL</u></p> <p>Demonstrate the capability to confirm and continually assess the habitability of the emergency response centers.</p> <p><i>Radiation protection personnel will be assigned to conduct surveys and confirm initial and continuous habitability.</i></p> <p>Demonstrate the capability to properly implement appropriate iodine protective measures (use appropriate respiratory protection or take K1).</p> <p><i>Radiation protection personnel will monitor for iodine and confirm protective measures are necessary. Actual samples will be taken, however, a substitute sample cartridge may be used.</i></p> <p>Demonstrate the capability to provide at risk on-site personnel with adequate protective equipment.</p> <p><i>Scenario events will require OSC Emergency teams to be dispatched to investigate problems associated with the purge valve. Investigation and repair activities will require implementation of radiation protection controls which include planning, monitoring and tracking of radiation exposure. Although mock-ups of equipment failures may be employed in areas of the site other than it's actual location, Rad levels in the mock-up areas will be simulated to be consistent will then be projected to be at the equipment actual location</i></p>	<p>ALL</p>

* Indicates NRC identified improvement item from the 1994 exercise.

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<p>5. PROTECTIVE ACTION DECISION/RECOMMENDATION MAKING</p> <p>Demonstrate the capability to decide on protective actions for on-site and off-site personnel. Appropriate decision makers should promptly recommend protective actions on-site and off-site consistent with criteria established in emergency procedures.</p> <p><i>On-site protective measures will include radiation exposure control and decision-making on station evacuation of non-essential personnel.</i></p> <p><i>Station evacuation and accountability will be simulated. Site personnel; will not assemble or evacuate the site. Off-site PARs are expected to be provided to the state coincident with the GE declaration. No upgrade PAR is expected.</i></p>	<p>SCR</p> <p>EOF</p>
<p>6. STAFFING AND AUGMENTATION</p> <p>Demonstrate the capability to augment emergency centers in accordance with staffing requirements identified within the emergency procedures.</p> <p><i>A pre-designated SERO will demonstrate the ability to staff the ERFs upon notification and in accordance with procedures.</i></p> <p>Demonstrate the capability to adequately brief relief personnel when utilized. Called in support to the on call SERO will be allowed to augment to SERO in a time phased manner.</p> <p><i>Additional personnel brought in to assist must be briefed and responsibilities defined</i></p> <p>Demonstrate the ability to plan for a shift change at each ERF.</p> <p><i>A 24-hour staffing roster will be developed and provided to the DSEO.</i></p>	<p>ALL</p>

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<p>7. ANALYSIS OF PLANT CONDITIONS AND CORRECTIVE ACTIONS*</p> <p>Demonstrate the SEROs capability to maintain an overview of the reactor and plant conditions using the expertise of technical staff, communication links and information posted on status boards.</p> <p><i>Key parameters will be tracked and trends assessed utilizing data originating from the MP3 Simulator. The scenario will provide technical information to players which will allow them to analyze plant conditions, propose corrective actions, and dispatch teams.</i></p> <p><i>TSC staff should recognize that events are progressing abnormally and develop appropriate strategies to bring the plant to a safe shutdown condition.</i></p> <p><i>The ADTS and accident team should brief the DSEO on safe or accident management shutdown strategies. Including duration of release, fuel damage and possible success paths for stabilizing the plant.</i></p>	<p>TSC</p>
<p>8. FACILITY MANAGEMENT AND CONTROL</p> <p>Demonstrate the capability for the facility manager to coordinate and oversee the overall response and redirecting the response when necessary.</p> <p><i>All ERFs have designated coordinators who will direct and coordinate emergency response activities in their particular area of responsibility. Priorities will be assigned, prioritized and re-evaluated as conditions change.</i></p> <p>Demonstrate the capability for emergency response personnel to perform actions in accordance with appropriate emergency response procedures and instructions.</p> <p><i>All SERO personnel will follow their emergency procedures. Certain action can be simulated based on the exercise simulation list.</i></p>	<p>ALL</p>

* Indicates NRC identified improvement item from the 1994 exercise.

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<p>9. <u>IMPLEMENTATION OF ON-SITE PROTECTIVE ACTIONS</u></p> <p>Demonstrate the capability, to initiate on-site protective actions as specified in emergency response procedures.</p> <p><i>A plant evacuation at the SAE is expected to relocate non-essential personnel to the training center. At or before the GE these personnel site are expected to be evacuated off-site. The actual evacuation will be simulated. A decision to evacuate these people should be made.</i></p> <p>Demonstrate the capability to protect assembled personnel in accordance with emergency response procedures.</p> <p><i>Personnel assembled in designated assembly areas will be simulated to be evacuated as plant conditions change.</i></p> <p>Demonstrate the capability for emergency response personnel to perform actions in accordance with appropriate emergency response procedures and instructions.</p> <p><i>All SERO personnel will follow their emergency procedures and follow stipulations of the simulated RWP's.</i></p>	SCR EOF OSC
<p>10. <u>DOSE ASSESSMENT</u></p> <p>Demonstrate the capability to use appropriate procedures and computer models for dose assessment.</p> <p><i>The scenario will provide and have information on plant conditions and in-plant process radiological conditions to players which will allow them to project and evaluate offsite releases.</i></p> <p>Demonstrate the capability, if a release is underway, to promptly initiate on-site sampling and monitoring to confirm the composition of the release and compare with projected doses.</p> <p><i>Field radiological data and maps are available to provide simulated monitoring data for confirmation and adjustment of release rates as necessary.</i></p>	EOF

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<p>11. DISPATCH AND COORDINATION OF RADIOLOGICAL TEAMS</p> <p>Demonstrate the capability, to promptly brief and deploy teams</p> <p><i>RMTs must be briefed and deployed in accordance with procedures.</i></p> <p><i>One RMT will be deployed off-site to demonstrate coordination in downwind sectors.</i></p> <p><i>Monitoring air sampling and radio equipment must be functioning and appropriately used by RMT members.</i></p>	
<p>12. DISPATCH AND COORDINATION OF EMERGENCY TEAMS*</p> <p>Demonstrate the capability to initiate and perform actions promptly following the decision to conduct an operation and to fully brief teams on potential hazards.</p> <p><i>The OSC/TSC managers should coordinate and deploy the emergency teams team deployment. Teams dispatched to a pre-determined location with a mock-up of failed equipment or any plant location, shall have a controller at all times. Plant locations are limited to only areas specified in section VI, sub-scenarios.</i></p> <p>Demonstrate the capability to coordinate all corrective actions with simulator control room personnel.</p> <p><i>The Assistant Director of Technical Support will communicate with the MCRO and keep him informed of all in plant team emergency activities.</i></p> <p><i>Several PEOs and on-shift HP and Chem Tech will participate in the exercise. PEOs and on-shift personnel participating will be notified prior to the exercise to report to the U3 simulator for a brief the morning of the exercise.</i></p> <p><i>is limited to only areas specified in section VI, sub-scenarios.</i></p>	<p>OSC/TSC C</p>

* Indicates NRC identified improvement item from the 1994 exercise.

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EXTENT OF PLAY	ERFs
<p>13. NEWS MEDIA</p> <p>Demonstrate the capability to implement emergency procedures in response to an event which requires interface with the news media.</p> <p><i>The public information officer will develop and disseminate news releases to all ERFs in accordance with procedures. The release of information to actual media will be simulated.</i></p> <p><i>Media Managers will react to rumors provided by controllers as part of the scenario.</i></p>	<p>ARMORY</p>
<p>14. USE OF SECURITY PERSONNEL TO PROVIDE PROMPT ACCESS FOR EMERGENCY EQUIPMENT AND SUPPORT</p> <p>Demonstrate the for security personnel to control access to the site without undue hindrance to emergency response efforts.</p> <p><i>A security control point will be established at Gate #2 and SERO Exercise participants personnel will be processed in accordance with procedures. Non-participants will be unaffected. Security will designate several players to participate on-site during the exercise.</i></p>	<p>GATE #2</p>
<p>15. POST ACCIDENT SAMPLING/ANALYSIS</p> <p>Demonstrate the capability to implement the PASS emergency response procedure and take and analyze a post accident sample.</p> <p><i>A PASS sample will be simulated after a thorough walk-thru at the PASS Panel.</i></p>	<p>OSC/ In-Plant PASS Station</p>
<p>16. INJURED/CONTAMINATED INDIVIDUAL</p> <p>Demonstrate the capability to implement emergency procedures in response to an event which requires interface with the news media.</p> <p><i>A separate scenario is being developed for demonstration of this objective (See Appendix C - Medical scenario).</i></p>	<p>HOSPITAL</p>

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<p>17. INSPECTOR FOLLOW ITEMS/AREA FOR POTENTIAL IMPROVEMENT</p> <p>Demonstrate the capability to address as many as possible of the areas for potential improvement from previous drills or inspections.</p> <p><i>The NRC Inspection Report for Millstone partial-participation exercise on November 17, 1994, 50-245/94-33, 50-331/94-32 and 50-423/94-30, dated 12/6/94.</i></p>	<p>As Applicable</p>
<p>18. CONDUCT EXERCISE CRITIQUE</p> <p>Demonstrate the capability for each facility to hold a debrief at the end of the exercise which details are fresh. The preliminary critiques should be followed by formal critique that evaluates the overall performance and the interaction of facility representatives and players with one another.</p> <p><i>The Controller/Observer organization is established and trained on the exercise objectives. An opportunity is provided from C/O's to Observer player activities and discuss performance following the exercise. C/O's will meet with lead controller's and provide written comments prior to the lead controller meeting. The lead controllers meeting provides an integrated look at player performance and development of exercise critique report. A critique will be scheduled with station management to provide a self-assessment of performance.</i></p>	<p>ALL</p>

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SCOPE/OBJECTIVES

Exercise Guidelines and Simulation Points

MILLSTONE UNIT 3
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Section III

SCOPE/OBJECTIVES

EXERCISE GUIDELINES AND SIMULATION LIST

A. Purpose

The manual provides guidance for conducting the 1995 Millstone Annual Exercise. It provides the framework for demonstrating emergency response capabilities, conducting the exercise and evaluating response activities.

B. Concepts of Operations and Control of the Exercise

The Exercise Coordinator is the Director of Emergency Preparedness or his designee. The coordinator oversees all exercise activities. The Exercise Coordinator is responsible for development and conduct of the exercise scenario as delineated in EPDP-07, dated 3/24/95.

The Scenario Development Group is responsible for the development of exercise events.

The Exercise Planning committee is responsible for resolving all logistics problems.

The Management Conceptual Review Group is responsible for reviewing the scenario sequence of events.

C. Exercise Termination

The exercise will be terminated by the Exercise Coordinator when all emergency response actions are completed in accordance with the exercise timeline, objectives and lead controller observations.

The exercise may also be terminated under the following circumstances:

- An actual plant emergency condition develops coincident with the exercise.
- An actual off-site situation impacts the response actions of Millstone Station exercise participants.

In the event that the above items should occur, the following actions are taken:

1. Request the affected Unit Shift Supervisor contact the DSEO and inform them of the unit status.
2. The DSFO will inform the Executive Spokesperson at the State.

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Section III

SCOPE/OBJECTIVES

EXERCISE GUIDELINES AND SIMULATION LIST

3. Concurrent with the notification in Step 2, the affected unit will make the appropriate announcements.

D) Player's Simulation List

The following describes those specific actions which do not have to be performed and shall be simulated by exercise participants. All other actions are to be performed in accordance with emergency procedures. NO ACTION WILL BE ALLOWED WHICH ALTERS OR AFFECTS ACTUAL OPERATIONS OF THE PLANT.

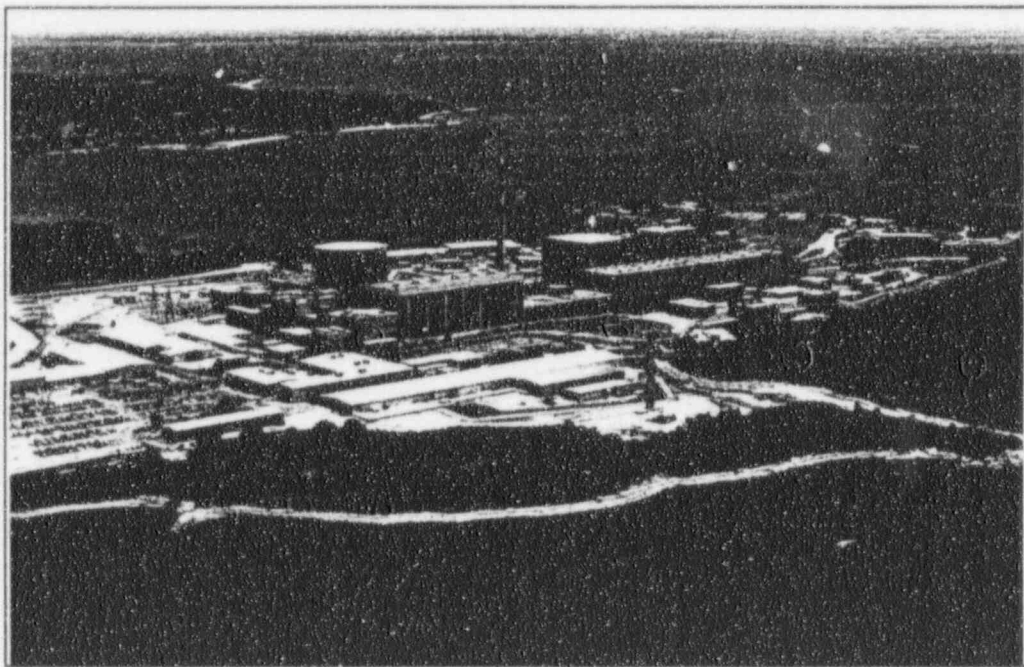
1. Simulated meteorological data will be provided to the EDAN II operator for use during the exercise. No meteorological data will be on OFIS.
2. Pre-designated players will respond to the exercise. Some additional players may be activated by the MOR.
3. Radiation Work Permits (RWPs) for simulated rad conditions will not be issued for the exercise.
4. Station evacuation alarm will only be sounded in the simulator and no actual personnel will assemble or leave the station.
5. Station accountability will be simulated.
6. The actions of the four normal on-shift PEOs will be simulated by one PEO of the simulator.
7. The actions of the On-shift Chem Technician will be simulated at the simulator by one chem Technician and one HP Technician. These players will relocate to the OSC at the MCROs discretion.
8. The usage of the SPDS system in the TSC will be simulated.

MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995

(PART II)



Exercise Manual

Northeast Utilities Service Company

MILLSTONE UNIT 3
EXERCISE
OCTOBER 1995

LEAD CONTROLLER PHONES

ERFs

<u>Name</u>	<u>Extension</u>	<u>Telephone</u>
Bill Cote (SCR Booth)	2760 or 2553	437-2760
Dan Aloï (SCR Floor)	2761	
Dennis Emborsky (OSC)	6559	
Tom McCance (TSC)	6504	
John Deveau (EOF - DSEO)	2917	
Jim Hawxhurst (EOF - RAD)	2716	
NRC Control Cell	2715	

State EOC

<u>Name</u>	<u>Telephone</u>	<u>Pager ID</u>
Mark White (EOC)	566-3376	8505
Steve Jackson	439-5612	8501

Pager 1-800-542-5154

SCR PLAYER PHONES

<u>Position</u>	<u>Extension</u>
Shift Supervisor	2752
SSSA	2762
CRDC	2764
ODSEO	2849
SCO	2753
ROs	2754
PEOs (Booth)	2754
Kaman (Floor)	2764
HP Tech (Briefing Room)	2563

**MILLSTONE UNIT 3
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SCENARIO

Initial Conditions
Narrative Summary
Timeline

SCENARIO

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MILLSTONE UNIT 3
OCTOBER 1995

Section IV

EXERCISE SCENARIO

Initial Conditions

- 1) The scenario begins with Unit 3 reactor power at 100%. The plant has been operating for 250 days with no problems. There is no equipment out of service and the reactor coolant boron concentration is 998 ppm.
- 2) The following conditions will remain unknown to the operators until the crew identifies the specific fault:
 - The "A" CHS pump will trip with a breaker fault.
 - The "B" CHS pump will trip upon Safety Injection (SI) initiation due to coupling failure.
 - The Containment (CTMT) Purge exhaust piping inside CTMT will have defects that lead to a breach.
 - The CTMT Purge exhaust outboard valve has defects which allow it to drift open later in scenario.
- 3) Units 1 and 2 conditions are "AS IS" on the day of the exercise.
- 4) All other power generating and safety system equipment is operable.
- 5) The following on-site meteorological conditions exist at 700:

Wind Speed, mph (lower/middle/upper)	9.6/11/13
Wind Direction, degrees (lower/middle/upper)	260/262/263
Delta Temperature, °F (lower/upper)	-.03/-0.7
Ambient Temperature, °F	64
Precipitation, inches	0.0
- 6) The Regional Meteorological Forecast Information:
Partly sunny today with west southwestern winds at 5-6 mph. High Temperatures of 66° with no precipitation expected.

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OCTOBER 1995

Section IV

EXERCISE SCENARIO

Narrative Summary

At 7:00 AM, the crews will take the shift with the plant at 100% power with no evolutions in progress. Shortly after turnover, the 'A' Charging system (CHS) pump will trip due to a breaker malfunction. The shift will start the 'B' CHS pump which causes the #1 seal on the 'C' RCP to start to fail. The degrading seal will require a plant trip and securing of the RCP. The crew will be unable to trip the reactor from the Control Room and will enter FR-S.1 "Response to ATWS." However while in this procedure, a crud burst and a small amount of fuel failure will occur. When the PEO opens the reactor trip breakers locally, the reactor trips with the exception of 2 adjacent rods further enhancing the probability of fuel failure.

At ~7:30, the Shift Supervisor or Onsite Director of Emergency Organization will classify a **Site Area Emergency** due to the ATWS. The basis for the **SAE** is entry into FR-S.1. The SSSA will complete notification of the SERO and Offsite ERO ~15 minutes later. The station and offsite emergency organization will activate.

While in FR-S.1, the operators will complete steps 1-14 of E-0 "Reactor Trip or Safety Injection". The shift will align systems for 'Immediate Boration'. Safety injection (SI) will initiate automatically or manually while the crew waits for the PEO to open the reactor trip breakers. The 'B' CHS pump coupling fails when SI initiates. SI actuation causes the Containment Air Recirculation system to shift to a warmer cooling water supply. This will result in a slow increase in CTMT pressure and temperature. FR-S.1 will direct the crew to assess potential fuel damage. A chemistry sample will be requested. After the reactor is tripped, the crew will go to E-0 and continue with step 15 or return to step 1 (supervisor discretion). When E-0 is complete, the crew will enter ES-1.2, "Post LOCA Cooldown and Depressurization."

In response to the loss of two CHS pumps, the crew will attempt to align the 'C' CHS pump to Train 'B'. Problems with transferring the 'B' CHS pump breaker to the 'C' breaker cubicle will delay the availability of the 'C' CHS pump. When the 'C' pump is started at ~8:50 AM, all 3 seals on the 'C' RCP fail completely resulting in ~190 gpm RCS leak, some of which goes to the CTMT atmosphere. CTMT rad monitors start increasing - indication of LOCA with fuel clad failure. The ATWS and two adjacent control rods which fail to insert, result in about 10% fuel clad failure. The CTMT purge outboard exhaust valve will drift partially open and an individual will call the Control Room and report a noise and visible damage to an expansion joint in the CTMT purge exhaust ducting. This creates a breach in the CTMT structure. CTMT pressure will start trending to atmospheric pressure as the CTMT equalizes with the Aux Building. Once equalized at ~9:00 AM, air flow will be into the Aux Building from CTMT. Aux Building rad monitors will start trending up and a trace offsite release will begin.. The MCRO/ADTS will recommend to the DSEO a classification upgrade to **General Emergency Alpha** due to loss of three barriers.

The **GE** is based on loss of RCS, CTMT breach and fuel failure as indicated by either CTMT Rad monitors or confirmed chemistry sample taken earlier in FR-S.1

At ~9:15, the DSEO classifies the event as a **General Emergency Alpha**. Approximately 15 minutes later, the ADEOF/SSSA completes notification of Offsite ERO. At ~9:30 a large break LOCA will occur, releasing the RCS gap activity to CTMT and then to the Aux Bldg via the CTMT purge exhaust ducting and ultimately to the environment via the Unit 1 stack and the Unit 3 vent. This will cause a significant increase in onsite radiation levels to greater than 1 R/Hr in the vicinity of the Aux building. The release offsite is significantly less due to the filtered and elevated release pathway.

Quench Spray will initiate at 23# in CTMT and will reduce CTMT pressure to approximately atmospheric at ~9:40 AM. Aux Building radiation levels will peak at this time. CTMT release will continue since SLCRS is creating a negative pressure in the Aux Building. Releases to the Aux Building will continue until the Outboard Purge Exhaust line valve is closed at ~10:15. The offsite release will continue until the exercise is terminated. However, the release will diminish steadily after the CTMT & Aux Building pressures equalize.

State and municipal responders complete their exercise objectives at ~11:15 and the exercise ends at ~11:30.

**MILLSTONE UNIT 3
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Section IV

EXERCISE SCENARIO

Timeline

	Clock Time	Elapsed		Significant Event*
		HH:M	Mins	
**	7:00	0:00	0	Event 1 , Start of Exercise Defects pre-exist with CTMT Purge Exhaust Pipe inside CTMT, and Purge Exhaust Valve Outside of CTMT.
	7:02	0:02	2	A-Chg Pmp Fails, B Pump Started.
**	7:06	0:06	6	Event 2 , C-RCP, Seal #1 Fails (~ 6 gpm leak to CDTT).
	7:14	0:14	14	Leak Increases to force Rx trip.
	7:15	0:15	15	Event 3 , Operators enter FR-S.1 due to inability to trip Rx (ATWS).
	7:18	0:18	18	PEO Opens Rx Trip Breakers, 2 rods stick out.
	7:19	0:19	19	Event 4 , SI is initiated, crud burst and failed fuel clad occurs
	7:20	0:20	20	B-Chg Pmp Fails.
	7:30	0:30	30	Event 5 , SS/ODSEO Classify Event as Site Area Emergency, posture code Charlie-2
	7:45	0:45	45	SS / SSSA Completes Notification of SERO and Off-site ERO.
**	8:50	1:50	110	Event 6 , Seals #2 & #3 Fail, (~190 gpm to CDTT and CTMT Atmosphere)
	8:58	1:58	118	Purge Exhaust Duct work collapses, flow into CTMT from Aux. Bldg.
**	9:00	2:00	120	Event 7 , CTMT Pressure Exceeds Aux Bldg. Pressure, flow into Aux. Bldg
	9:15	2:15	135	Event 8 , DSEO Classify Event as General Emergency, posture code Alpha.
	9:30	2:30	150	ADEOF / SSSA Complete Notification of Off-site ERO.
**	9:30	2:30	150	Event 9 , Large Break LOCA occurs, CTMT Sprays Start
	9:40	2:40	160	CTMT Pressure Equalizes, Aux. Bldg Rad Levels Peak.
**	10:15	3:15	195	Event 10 , Purge Exhaust Line Valve (Outboard) Remotely Closed by ERT
	11:15	4:15	255	State and Municipal Responders Complete Their Exercise Objectives.
**	11:30	4:30	270	Event 11 , End of Exercise.

* - All times are approximate Unless Otherwise indicated.

** - Every effort will be made to keep these events on schedule. Other events occur at player discretion.

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SUB-SCENARIOS

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CHG-A Pump Failure

CHG-B Pump Failure

CTMT Purge Line Failures

CHG-C Pump Problem

PASS

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SUB-SCENARIOS

**MILLSTONE UNIT 3
U3 EXERCISE
OCTOBER, 1995**

Section V

SUB-SCENARIOS

INDEX

Activity	Probable Start to Completion Times	Probable Repair/ERT Personnel	Scenario Activity-Corrective Action Allowed	Success Path Comments
1. "A" Charging System Pump Breaker Failure	07:02-END	None	No	Hard failure broke.
2. "B" Charging Pump Coupling Failure	07:20-END	Mechanic and PEO	YES	Coupling repairs pursued
3. CTMT Purge Outboard Exhaust Valve	07:00-10:15	Electrician and TSC staff	YES	Fuse repairs and valve is closed
4. "C" Charging Pump Breaker	07:25-08:50	Electrician and PEO	YES	Breaker from "B" charging pump in service for "C" Pump
5. PASS Sample	08:30-11:00	Chem Tech and HP	YES	
6. RCS Liquid Sample	07:30-08:15	Chem Tech and HP	YES	

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SUB-SCENARIOS

"A" Charging Pump Breaker Failure

SUBSCENARIO NARRATIVE.

At 0710, the "A" charging pump will trip. The operators will receive a low flow alarm in the simulator control room and the indicating lights for the pump handswitch will be out. They will start the "B" charging pump to reestablish flow to the RCS. A PEO will be sent to investigate the trip. When he arrives at the breaker cubicle, he will find the 86E lockout relay and the 50GS relay target have operated. This will indicate that there has been a phase current differential. The control room should contact electrical maintenance and/or Generation Test at this time to aid in the investigation. If a recommendation to reset the relays is made (this is not expected) and followed up on, the relays will trip again when the Operators attempt to start the pump. If a PEO is sent to the pump, there will be no indication of damage. By this time, the "B" Charging pump will fail and the operating shift should redirect their focus to powering the "C" Charging pump from train "B". If the PEO is instructed to rack down the breaker, he will notice that the breaker is not coming down smoothly and there will be broken pieces of breaker stab insulation laying on top of the breaker. One breaker stab will have visible damage. Damage will not be repairable during the exercise, but may be pursued.

SUBSCENARIO CLOSEOUT

This scenario may end when the shift decides to align the "C" Charging pump to train "B". The TSC/OSC may continue to pursue the "A" Charging pump breaker problem during the remainder of the Exercise.

SUB-SCENARIO and SUCCESS PATH

Title: A Charging Purge Breaker Malfunction

- 1 Problem 3CHS*P3A trips
- 2 Indications are, CR annunciator CHS 34-1
86E lockout relay operated
50GS relay target operated
- 3 Cause Breaker cubicle (24C21) B phase load side 4160v contact
fingers broken off.
- 4 Resulting in; Phase current differential
50GS and 86E relay operation
Damage to both cubicle and breaker
- 5 Interim problems Breaker hangs up when attempt is made to lower.
Damage to breaker due to arcing will not allow
installation into Chg. C cubicle
- 6 Success Path None in time allowed

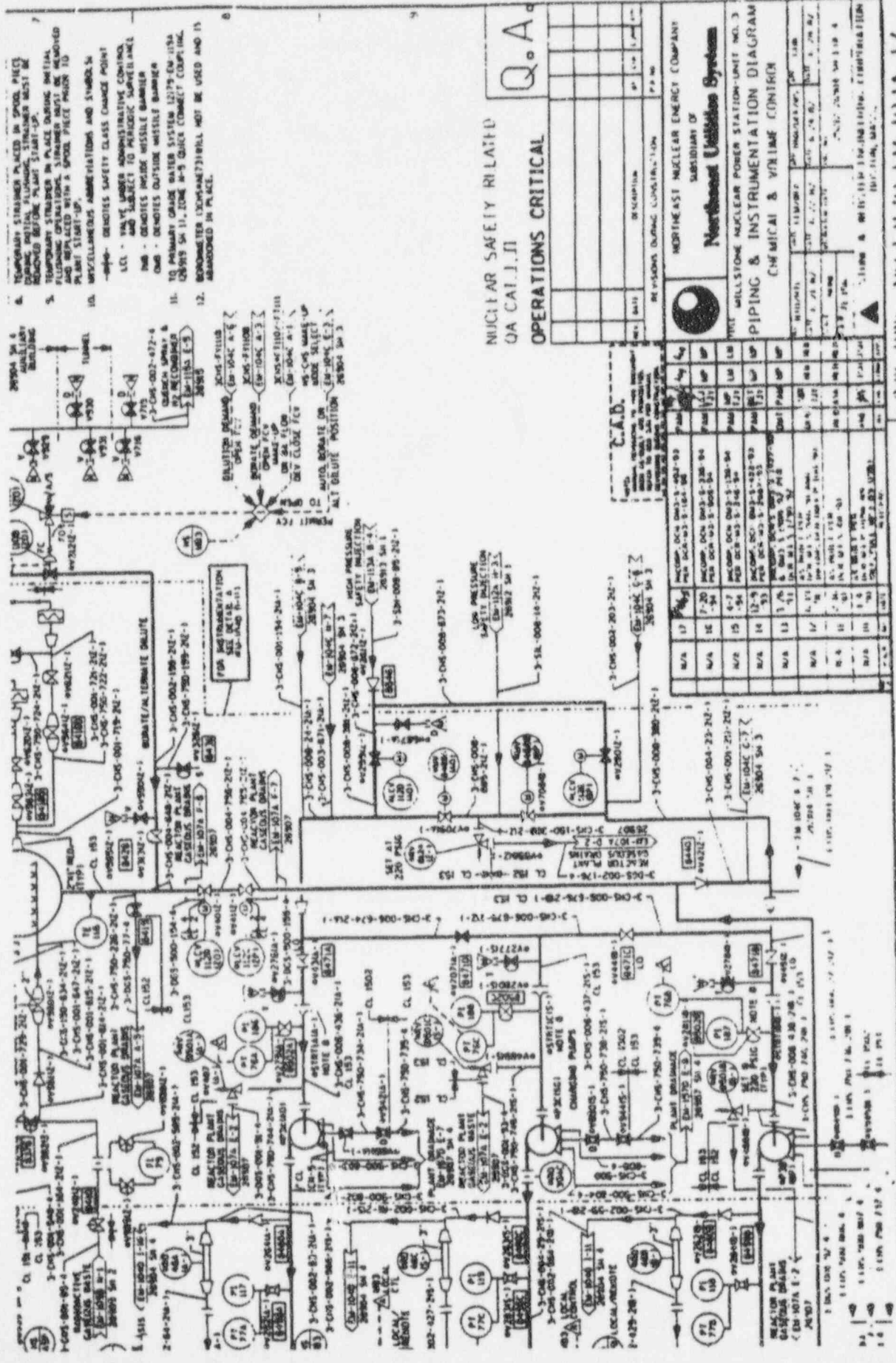
"B" Charging Pump Coupling Failure

SUBSCENARIO 2 NARRATIVE

Upon initiation of safety injection, the "B" charging pump will lose flow. The PEO responding to the pump will find the motor running and the motor to reduction gear coupling housing damaged and the coupling failed. The operating shift will stop the motor. There will be no other damage to the pump or motor assembly. If this repair is not identified by the SERO as a priority item, the simulator controller will issue a contingency message to the Simulator Shift Supervisor to initiate repair efforts. The purpose of this is to satisfy the objective of demonstrating dispatch and coordination of emergency teams. The expected response by the OSC is to tagout the motor and pump and dispatch a mechanical ERT to evaluate repair needs. They will determine that the motor and pump rotate freely by hand. They should identify the need to obtain a new coupling and should actually locate the new coupling in the warehouse. The team should identify and obtain all necessary tools and procedures to complete repairs. No delays will be built into the process.

Subscenario Closeout

This scenario will be completed if repair efforts described above and undertaken and progress is made on the repair process. It is not necessary to complete repairs and return the pump to service.



4. TEMPORARY STRAINER PLACED IN SPOOL PIECE DURING INITIAL FLOWING. STRAINER MUST BE REMOVED BEFORE PLANT START-UP.
5. TEMPORARY STRAINER IN PLACE DURING INITIAL OPERATIONS. STRAINER MUST BE REMOVED AND REPLACED WITH A SPOOL PIECE PRIOR TO PLANT START-UP.
10. -MISC- IDENTIFY ADMINISTRATIONS AND SYMBOLS UNDER SAFETY CLASS CHANGE POINT.
11. -MISC- HAVE UNDER ADMINISTRATIVE CONTROL AND SUBJECT TO PERIODIC INSPECTION.
12. -MISC- IDENTIFY OUTSIDE MISSILE BARRIER TO PRIMARY GRADE WATER SYSTEM 12179-EN-113A (EN-113A 11, ZONE A-9 QUICK CONNECT COMP, INC. RECOMMENDATION 1204-04-27) WILL NOT BE USED AND IS DISALLOWED IN PLACE.

NUCLEAR SAFETY RELATED
QA CAT. 1, II
OPERATIONS CRITICAL

REVISIONS DURING CONSTRUCTION	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
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NORTHWEST NUCLEAR ENERGY COMPANY	
SUBSIDIARY OF	
Northwest Utilities System	
MILLSTONE NUCLEAR POWER STATION UNIT NO. 3	
PIPING & INSTRUMENTATION DIAGRAM	
CHEMICAL & INSTRUMENT CONTROL	
NO.	DESCRIPTION
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Containment Outboard Purge Damper Drift & Fuse Problem

SUBSCENARIO 3 NARRATIVE

The operators will determine that the release path from containment to the Auxiliary Building is via the CTMT Purge Outboard Exhaust Damper. They will be given a simulated call at 8:58 a.m. from a security officer that a duct in the Auxiliary Building has failed and the sound of rushing air can be heard. At this time, the damper indication in the simulator control room will have dual indication meaning that the damper is partially open. When the operators attempt to close the damper, the fuse in the control circuit will fail. The TSC/OSC is expected to pursue this failure. The manual operator on the damper will not be accessible due to the radioactive release into the Aux Bldg. Any individual sent to the cabinet containing the fuses will be given a photo of the inside of the cabinet with indication of smoke stain near the fuse (ckt 21 3HVU • CTV32 A&B) for the damper. A fuse block mockup containing 1 good fuse and 1 bad fuse will be available for the ERT to 'fix'. They should assess the condition of the fuses using necessary test equipment, identify the bad fuse and obtain a new fuse to place in the supplied mockup. The TSC may access procedure WC-5 "Fuse Control" and PA 92-037 "Fuse Control Evaluation."

Subscenario Closeout

Repairs to the fuse circuit will be allowed to be completed by approximately 10:15. The control room operators will then close the damper and terminate the release from the CTMT to the Aux Bldg.

"C" Charging Pump Breaker Swap

SUBSCENARIO 4 NARRATIVE

The "A" charging pump will fail due to an electrical malfunction. The operating shift will start the "B" pump to reestablish charging system flow. The "B" pump fails upon initiation of safety injection. The shift may start to align the "C" pump to the "A" train. When the "B" pump fails, the PEO should be directed to align the "C" pump to the "B" train since it is normally mechanically aligned to this train and will, therefore, take less time to get the pump in service. The PEO may be directed to obtain HP coverage for the evolution. The expected sequence will be to mechanically align the pump and then take the breaker out of the "B" pump breaker cubicle and place it in the "B" train, "C" pump breaker cubicle. When the PEO attempts to lower the breaker in cubicle 34D20 ('B' Charging Pump breaker), the elevator motor will not energize due to a blown "EL" fuse. The PEO should obtain another motor and control cable with elevating box. This motor will not work due to the blown fuse. The TSC/OSC may pursue investigating the electrical problem or may elect to lower the breaker manually. If the manual option is chosen, they will successfully lower the breaker. If repairs are pursued, the electrician will find a short between pins 2 and 3 in the triploc receptacle for the "EL" fuse. No plant equipment will be actually manipulated. All steps of this scenario will be simulated.

Subscenario Closeout

The PEO can successfully complete this scenario if the manual lowering option is chosen. Regardless of ERT efforts, the 'C' Charging pump will be given to the operating shift on the simulator no earlier than 0845.

SUB-SCENARIO and SUCCESS PATH

Title: C Charging Pump Breaker Swap

- 1 Problem 3CHS*P3B has failed and Breaker from 34D20 must be put into 34D21 but can not be lowered.
- 2 Indications are, No elevator action
"EL" Fuse blown
- 3 Cause A short between pins 2 and 3 in the triploc receptacle on 34D20
- 4 Resulting in; "EL" Fuse blown
- 5 Interim problems "EL" Fuse blows on each attempt to lower breaker, even with new motor and control cable with elevating box
For personnel safety, Breaker will have to be lowered manually only after new motor and control cable with elevating box have been tried. (Attempts to find problem will continue until the problem is found or accident scenario time dictates)
- 6 Success Path Breaker manually lowered

Reactor Coolant System Sample

Subscenario 5 Narrative

At ~0720 while in procedure FR-S.1, "Response to ATWS", the operating shift will be directed by procedure to obtain a Reactor Coolant sample to assess the potential of fuel damage due to the ATWS and subsequent Safety Injection actuation. The Chemistry Technician will be contacted by the operating shift and directed to obtain the sample. He may be given instruction to have HP accompany him. If the Chem Tech is not directed to draw a PASS sample, he should follow his normal RCS sampling procedure (see Subscenario 6).

If the normal RCS sample system is used to obtain the reactor coolant sample and the SERO does not subsequently request a liquid or containment air PASS sample, the Controller organization will issue a Contingency Message requiring that a PASS sample be drawn. This is necessary to meet one of the stated objectives for this exercise. The Chem Tech will be directed to obtain a PASS sample. He should be directed to ensure that he has HP coverage for this evolution. The Chem Tech will walkthrough his procedure and simulate all activities. The controller will provide all Chem and Rad data.

Subscenario Closeout

This scenario is completed when the Chem Tech has completed a walkthrough of drawing a sample using the PASS system.

Normal Reactor Coolant System Sample

Subscenario 5 Narrative

At ~0720 while in procedure FR-S.1, "Response to ATWS", the operating shift will be directed by procedure to obtain a Reactor Coolant sample to assess the potential of fuel damage due to the ATWS and subsequent Safety Injection actuation. The Chemistry Technician will be contacted by the operating shift and directed to obtain the sample. He may be given instruction to have HP accompany him. The Chem Tech will walk through obtaining the sample. When he reaches the point where he would actually start collecting the sample, he will be given a message stating that he has to stop the evolution due to increasing sample sink radiation levels. His simulated 10 ml sample will read 600 mr/hr at 1 foot. The controller for the Chem Tech will provide all necessary Rad and Chemistry data.

Subscenario Closeout

This scenario is completed when the Chem Tech has completed a walkthrough of drawing a sample using the normal RCS sample procedures.

SECTION VI

MESSAGE INDEX AND MESSAGES
PROVIDED SEPARATELY

6

MESSAGES

MILLSTONE UNIT 3
OCTOBER 1995

SECTION VII

OPERATIONAL DATA

7

OPERATIONAL DATA

**MILLSTONE UNIT 3
OCTOBER 1995**

OPERATIONAL DATA

The following tables and charts with information about important plant parameters during the transient are provided for the controllers.

It should be noted that the simulator will be providing the actual data for use on the day of the exercise. This data is for informational use by the controllers and only in the event that the simulator is unavailable the day of the exercise will it be used to drive scenario events.

Millstone Unit III Operational Data

Rev 1

TIME	RCST411A	RCS-Y411B	CVTAVG	CVCETMX	CVCSUBCOOL	CPWRGE	CVRCSPRES	CVPZRLVL	CV	IDLVLB	RMS-R04A	RMS-R04B	CVCTPRESS	CWATERLVL	CVCTAVG
7:00	559.6	559.6	588.3	621.4	32.8	98.5	2271	60.1	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:01	559.6	559.6	588.3	621.4	32.8	98.5	2271	60.1	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:02	559.6	559.6	588.3	621.4	32.8	98.5	2271	60.1	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:03	559.6	559.6	588.3	621.4	32.8	98.5	2271	60.1	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:07	559.6	559.6	588.3	621.4	32.8	98.5	2271	60.1	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:08	559.6	559.6	588.4	621.4	32.8	98.5	2272	59.6	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:09	559.6	559.6	588.4	621.4	32.8	98.5	2272	59.5	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:13	559.6	559.6	588.4	621.4	32.8	98.5	2272	59.5	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:14	578.2	578.2	588.3	624.5	29.3	72.2	2266	66.3	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:15	575.6	575.6	597.1	620.4	25.5	66.3	2141	72.6	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:18	575.6	575.6	597.1	620.4	25.5	66.3	2141	72.6	100.0	1.00E+00	1.00E+00	13.46	1.00	103.3	
7:19	545.3	545.3	553.8	549.7	68.9	0.6	1759	18.7	100.0	1.00E+01	1.00E+01	13.46	1.00	103.3	
7:20	551.3	551.3	549.8	553.0	68.0	0.1	1789	20.2	100.0	1.00E+01	1.00E+01	13.47	1.00	103.3	
7:25	553.3	553.3	553.7	554.7	64.0	0.0	1759	22.1	100.0	1.00E+01	1.00E+01	13.59	1.00	105.7	
7:26	553.4	553.4	553.8	555.5	63.1	0.0	1758	22.3	100.0	1.00E+01	1.00E+01	13.60	1.00	105.7	
7:27	554.2	554.2	554.4	555.5	63.1	0.0	1759	23.0	100.0	1.00E+01	1.00E+01	13.62	1.00	105.7	
7:28	555.0	555.0	555.1	556.4	62.4	0.0	1760	23.8	100.0	1.00E+01	1.00E+01	13.64	1.00	105.7	
7:29	555.9	555.9	556.0	557.3	61.6	0.0	1763	24.8	100.0	1.00E+01	1.00E+01	13.66	1.00	105.7	
7:30	556.6	556.6	556.9	558.1	60.9	0.0	1764	25.7	100.0	9.80E+00	9.80E+00	13.68	1.00	105.7	
7:35	557.1	557.1	557.5	559.1	57.6	0.0	1734	26.3	100.0	9.80E+00	9.80E+00	13.78	1.00	105.7	
7:36	557.1	557.1	557.5	559.1	57.4	0.0	1732	26.3	100.0	9.80E+00	9.80E+00	13.78	1.00	105.7	
7:37	557.1	557.1	557.5	559.1	57.0	0.0	1726	26.3	100.0	9.80E+00	9.80E+00	13.80	1.00	105.7	
7:38	557.1	557.1	557.5	559.1	56.5	0.0	1721	26.2	100.0	9.80E+00	9.80E+00	13.81	1.00	105.7	
7:39	557.1	557.1	557.5	559.1	56.1	0.0	1715	26.2	100.0	9.80E+00	9.80E+00	13.82	1.00	105.7	
7:40	557.1	557.1	557.5	559.1	56.0	0.0	1714	26.1	100.0	9.80E+00	9.80E+00	13.83	1.00	105.7	
7:45	557.0	557.0	557.4	559.1	53.7	0.0	1686	25.7	100.0	9.60E+00	9.60E+00	13.87	1.00	105.7	
7:46	557.0	557.0	557.4	559.1	53.5	0.0	1683	25.7	100.0	9.60E+00	9.60E+00	13.88	1.00	105.7	
7:47	557.0	557.0	557.4	559.1	53.1	0.0	1679	25.6	100.0	9.60E+00	9.60E+00	13.89	1.00	105.7	
7:48	557.0	557.0	557.3	559.1	52.7	0.0	1674	25.5	100.0	9.60E+00	9.60E+00	13.90	1.00	105.7	
7:49	557.0	557.0	557.3	559.1	52.3	0.0	1669	25.4	100.0	9.60E+00	9.60E+00	13.90	1.00	105.7	
7:50	557.0	557.0	557.3	559.1	52.0	0.0	1665	25.3	100.0	9.60E+00	9.60E+00	13.91	1.00	105.7	
7:55	557.3	557.3	557.4	559.1	50.1	0.0	1642	25.0	100.0	9.40E+00	9.40E+00	13.94	1.00	105.7	
7:56	557.4	557.4	557.5	559.1	49.9	0.0	1640	25.0	100.0	9.40E+00	9.40E+00	13.94	1.00	105.7	
7:58	557.4	557.4	557.5	559.1	49.9	0.0	1640	25.0	100.0	9.40E+00	9.40E+00	13.94	1.00	105.7	
7:59	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.40E+00	9.40E+00	13.94	1.00	105.7	
8:00	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7	
8:05	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7	
8:06	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7	
8:07	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7	
8:08	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7	

Millstone Unit III Operational Data

Rev 1

TIME	RCST411A	RCS-T411B	CVTAVG	CVCEMX	CVCSUBCOOL	CPWRGE	CVRCSPRES	CVPZRLVL	CVHDLVLB	RMS-R04A	RMS-R04B	CVCTPRESS	CWATERLVL	CVCTAVG
8:09	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.20E+00	9.20E+00	13.94	1.00	105.7
8:10	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.00E+00	9.00E+00	13.94	1.00	105.7
8:15	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.00E+00	9.00E+00	13.94	1.00	105.7
8:16	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.00E+00	9.00E+00	13.94	1.00	105.7
8:17	557.4	557.4	557.4	558.9	50.0	0.0	1639	24.9	100.0	9.00E+00	9.00E+00	13.94	1.00	105.7
8:18	557.1	557.1	557.1	558.9	42.9	0.0	1556	23.0	100.0	9.00E+00	9.00E+00	14.03	1.00	105.7
8:19	557.0	557.0	557.1	558.9	42.8	0.0	1555	23.3	100.0	9.00E+00	9.00E+00	14.03	1.00	105.7
8:20	557.0	557.0	557.0	558.9	42.7	0.0	1554	23.7	100.0	8.80E+00	8.80E+00	14.03	1.00	105.7
8:25	557.1	557.1	557.0	558.9	42.5	0.0	1552	27.0	100.0	8.80E+00	8.80E+00	14.05	1.00	126.5
8:26	557.1	557.1	557.0	558.9	42.5	0.0	1552	27.4	100.0	8.80E+00	8.80E+00	14.05	1.00	126.5
8:27	557.1	557.1	557.0	558.9	42.5	0.0	1552	28.1	100.0	8.80E+00	8.80E+00	14.05	1.00	126.5
8:28	557.1	557.1	557.0	558.9	42.5	0.0	1552	28.8	100.0	8.80E+00	8.80E+00	14.06	1.00	126.5
8:29	557.2	557.2	557.1	558.9	42.5	0.0	1552	29.6	100.0	8.60E+00	8.60E+00	14.06	1.00	126.5
8:30	557.2	557.2	557.1	558.9	42.5	0.0	1552	30.3	100.0	8.40E+00	8.40E+00	14.06	1.00	126.5
8:49	557.2	557.2	557.1	558.9	42.5	0.0	1552	30.3	100.0	8.00E+00	8.00E+00	14.06	1.00	126.5
													1.00	
8:50	557.1	557.1	557.3	558.9	51.4	0.0	1655	49.2	100.0	8.00E+00	8.00E+00	14.08	1.00	126.5
8:51	557.1	557.1	557.3	558.9	52.1	0.0	1664	50.8	100.0	9.00E+00	9.00E+00	14.08	1.00	126.5
8:52	557.1	557.1	557.3	558.9	53.3	0.0	1679	53.6	100.0	1.00E+01	1.00E+01	14.41	1.00	126.5
8:53	557.2	557.2	557.3	558.9	54.4	0.0	1692	56.4	100.0	1.10E+01	1.10E+01	14.70	1.00	126.5
8:54	557.2	557.2	557.3	558.9	55.4	0.0	1704	58.8	100.0	1.20E+01	1.20E+01	14.70	1.00	126.5
8:59	557.2	557.2	557.3	558.9	55.4	0.0	1704	58.8	100.0	1.30E+01	1.30E+01	14.70	1.00	126.5
													1.00	
9:00	557.1	557.1	557.3	558.9	56.2	0.0	1714	61.1	100.0	1.30E+01	1.30E+01	14.70	1.00	126.5
9:05	557.1	557.1	557.3	558.9	58.5	0.0	1743	70.9	100.0	1.40E+01	1.40E+01	14.70	1.00	126.5
9:06	557.1	557.1	557.3	558.9	58.7	0.0	1746	71.7	100.0	1.50E+01	1.50E+01	14.70	1.00	126.5
9:07	557.1	557.1	557.3	558.9	59.1	0.0	1751	73.2	100.0	1.60E+01	1.60E+01	14.70	1.00	126.5
9:08	557.1	557.1	557.3	558.9	59.5	0.0	1756	74.6	100.0	1.60E+01	1.60E+01	14.70	1.00	126.5
9:09	557.1	557.1	557.3	558.9	59.9	0.0	1761	76.1	100.0	1.70E+01	1.70E+01	14.70	1.00	126.5
9:10	557.2	557.2	557.3	558.9	60.2	0.0	1764	77.2	100.0	1.80E+01	1.80E+01	14.70	1.00	126.5
9:16	557.6	557.6	557.7	558.9	62.8	0.0	1797	86.4	100.0	1.90E+01	1.90E+01	14.70	1.00	126.5
9:17	557.5	557.5	557.7	558.9	63.1	0.0	1802	87.8	100.0	1.90E+01	1.90E+01	14.70	1.00	126.5
9:18	557.5	557.5	557.7	558.9	63.5	0.0	1806	89.1	100.0	2.00E+01	2.00E+01	14.70	1.00	126.5
9:19	557.5	557.5	557.7	558.9	63.8	0.0	1811	90.4	100.0	2.10E+01	2.10E+01	14.70	1.00	126.5
9:20	557.5	557.5	557.7	558.9	63.9	0.0	1811	91.6	100.0	2.20E+01	2.20E+01	14.70	1.00	126.5
9:26	557.2	557.2	557.3	558.9	60.6	0.0	1769	94.7	100.0	2.20E+01	2.20E+01	14.70	1.00	126.5
9:27	557.2	557.2	557.3	558.9	59.5	0.0	1756	94.4	100.0	2.30E+01	2.30E+01	14.70	1.00	126.5
9:28	557.2	557.2	557.3	558.9	58.5	0.0	1743	94.2	100.0	2.40E+01	2.40E+01	14.70	1.00	126.5
9:29	557.2	557.2	557.3	558.9	58.5	0.0	1743	94.2	100.0	2.50E+01	2.50E+01	14.70	1.00	126.5
													1.00	
9:30	557.2	557.2	557.3	558.9	57.6	0.0	1731	94.0	100.0	1.00E+03	1.00E+03	45.00	1.00	126.5
9:31	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	9.71E+02	9.71E+02	39.00	1.00	126.5
9:37	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	8.00E+02	8.00E+02	33.00	1.00	126.5
9:38	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	7.75E+02	7.75E+02	27.00	1.00	126.5

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TIME	RCST411A	RCS-T411B	CVTAVG	CVCEYMX	CVCSUBCOOL	CPWRGE	CVRCSPRES	CVPZRLVL	CVHDLVLB	RMS-R04A	RMS-R04B	CVCTPRESS	CWATERLVL	CVCTAVG
9:39	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	7.50E+02	7.50E+02	21.00	1.00	126.5
9:40	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	7.21E+02	7.21E+02	15.00	1.00	126.5
9:41	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	6.00E+02	6.00E+02	14.70	1.00	126.5
9:47	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.98E+02	4.98E+02	14.70	1.00	196.8
9:48	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.95E+02	4.95E+02	14.70	1.00	196.8
9:49	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.93E+02	4.93E+02	14.70	1.00	196.8
9:50	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.92E+02	4.92E+02	14.70	1.00	196.8
9:51	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.90E+02	4.90E+02	14.70	1.00	196.8
9:57	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.85E+02	4.85E+02	14.70	1.00	196.8
9:58	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.83E+02	4.83E+02	14.70	1.00	196.8
9:59	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.80E+02	4.80E+02	14.70	1.00	196.8
10:00	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.78E+02	4.78E+02	14.70	1.00	196.8
10:01	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.75E+02	4.75E+02	14.70	1.00	196.8
10:07	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.73E+02	4.73E+02	14.70	1.00	196.8
10:08	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.70E+02	4.70E+02	14.70	1.00	196.8
10:09	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.68E+02	4.68E+02	14.70	1.00	196.8
10:10	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.65E+02	4.65E+02	14.70	1.00	196.8
10:11	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.63E+02	4.63E+02	14.70	1.00	196.8
													1.00	
10:12	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.60E+02	4.60E+02	14.70	1.00	196.8
10:13	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.58E+02	4.58E+02	14.70	1.00	196.8
10:14	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.55E+02	4.55E+02	14.70	1.00	196.8
10:15	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.53E+02	4.53E+02	14.70	1.00	196.8
10:16	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.50E+02	4.50E+02	14.70	1.00	196.8
10:17	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.48E+02	4.48E+02	14.70	1.00	196.8
10:18	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.45E+02	4.45E+02	14.70	1.00	196.8
10:19	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.43E+02	4.43E+02	14.70	1.00	196.8
10:20	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.40E+02	4.40E+02	14.70	1.00	196.8
10:21	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.38E+02	4.38E+02	14.70	1.00	196.8
10:22	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.35E+02	4.35E+02	14.70	1.00	196.8
10:23	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.33E+02	4.33E+02	14.70	1.00	196.8
10:24	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.30E+02	4.30E+02	14.70	1.00	196.8
10:25	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.28E+02	4.28E+02	14.70	1.00	196.8
10:26	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.25E+02	4.25E+02	14.70	1.00	196.8
10:27	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.23E+02	4.23E+02	14.70	1.00	196.8
10:28	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.20E+02	4.20E+02	14.70	1.00	196.8
10:29	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.18E+02	4.18E+02	14.70	1.00	196.8
10:30	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.15E+02	4.15E+02	14.70	1.00	196.8
10:31	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.13E+02	4.13E+02	14.70	1.00	196.8
10:32	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.10E+02	4.10E+02	14.70	1.00	196.8
10:33	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.08E+02	4.08E+02	14.70	1.00	196.8
10:34	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.05E+02	4.05E+02	14.70	1.00	196.8
10:35	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.03E+02	4.03E+02	14.70	1.00	196.8
10:36	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	4.00E+02	4.00E+02	14.70	1.00	196.8
10:37	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.98E+02	3.98E+02	14.70	1.00	196.8

Millstone Unit III Operational Data

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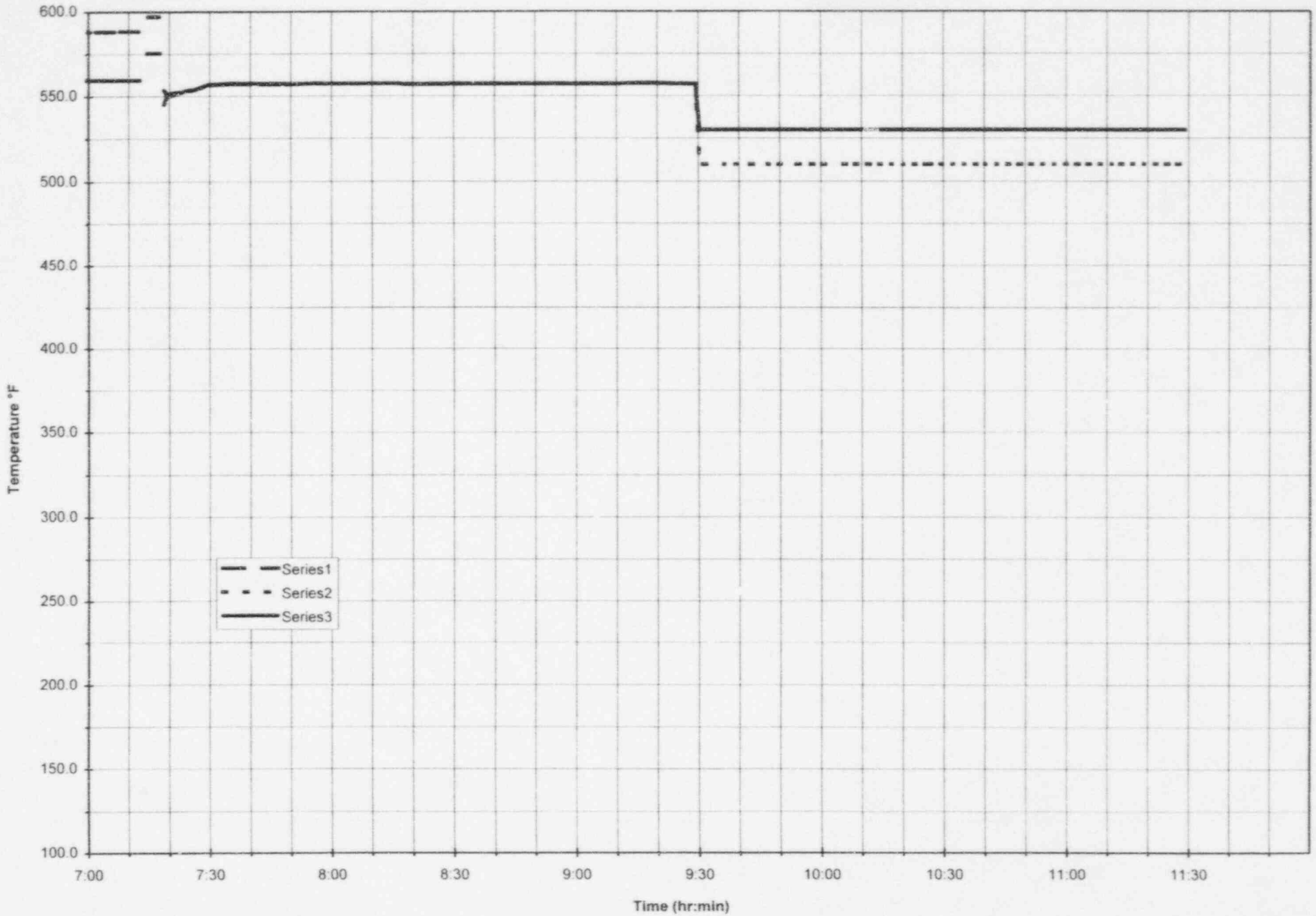
TIME	RCST411A	RCS-T411B	CVTAVG	CVCETMX	CVCSUBCOOL	CPWRGE	CVRCSPRES	CVPZRLVL	CVHDLVLB	RMS-R04A	RMS-R04B	CVCTPRESS	CWATERLVL	CVCTAVG
10:38	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.95E+02	3.95E+02	14.70	1.00	196.8
10:39	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.93E+02	3.93E+02	14.70	1.00	196.8
10:40	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.90E+02	3.90E+02	14.70	1.00	196.8
10:41	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.88E+02	3.88E+02	14.70	1.00	196.8
10:41	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.85E+02	3.85E+02	14.70	1.00	196.8
10:42	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.83E+02	3.83E+02	14.70	1.00	196.8
10:43	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.80E+02	3.80E+02	14.70	1.00	196.8
10:44	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.78E+02	3.78E+02	14.70	1.00	196.8
10:45	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.75E+02	3.75E+02	14.70	1.00	196.8
10:46	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.73E+02	3.73E+02	14.70	1.00	196.8
10:47	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.70E+02	3.70E+02	14.70	1.00	196.8
10:48	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.68E+02	3.68E+02	14.70	1.00	196.8
10:49	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.65E+02	3.65E+02	14.70	1.00	196.8
10:50	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.63E+02	3.63E+02	14.70	1.00	196.8
10:51	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.60E+02	3.60E+02	14.70	1.00	196.8
10:52	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.58E+02	3.58E+02	14.70	1.00	196.8
10:53	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.55E+02	3.55E+02	14.70	1.00	196.8
10:54	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.53E+02	3.53E+02	14.70	1.00	196.8
10:55	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.50E+02	3.50E+02	14.70	1.00	196.8
10:56	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.48E+02	3.48E+02	14.70	1.00	196.8
10:57	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.45E+02	3.45E+02	14.70	1.00	196.8
10:58	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.43E+02	3.43E+02	14.70	1.00	196.8
10:59	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.40E+02	3.40E+02	14.70	1.00	196.8
11:00	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.38E+02	3.38E+02	14.70	1.00	196.8
11:01	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.35E+02	3.35E+02	14.70	1.00	196.8
11:02	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.33E+02	3.33E+02	14.70	1.00	196.8
11:03	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.30E+02	3.30E+02	14.70	1.00	196.8
11:04	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.28E+02	3.28E+02	14.70	1.00	196.8
11:05	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.25E+02	3.25E+02	14.70	1.00	196.8
11:06	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.23E+02	3.23E+02	14.70	1.00	196.8
11:07	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.20E+02	3.20E+02	14.70	1.00	196.8
11:08	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.18E+02	3.18E+02	14.70	1.00	196.8
11:09	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.15E+02	3.15E+02	14.70	1.00	196.8
11:10	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.13E+02	3.13E+02	14.70	1.00	196.8
11:11	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.10E+02	3.10E+02	14.70	1.00	196.8
11:12	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.08E+02	3.08E+02	14.70	1.00	196.8
11:12	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.05E+02	3.05E+02	14.70	1.00	196.8
11:13	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.03E+02	3.03E+02	14.70	1.00	196.8
11:14	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	3.00E+02	3.00E+02	14.70	1.00	196.8
11:15	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.98E+02	2.98E+02	14.70	1.00	196.8
11:16	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.95E+02	2.95E+02	14.70	1.00	196.8
11:17	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.93E+02	2.93E+02	14.70	1.00	196.8
11:18	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.90E+02	2.90E+02	14.70	1.00	196.8
11:19	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.88E+02	2.88E+02	14.70	1.00	196.8
11:20	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.85E+02	2.85E+02	14.70	1.00	196.8

Millstone Unit III
Operational Data

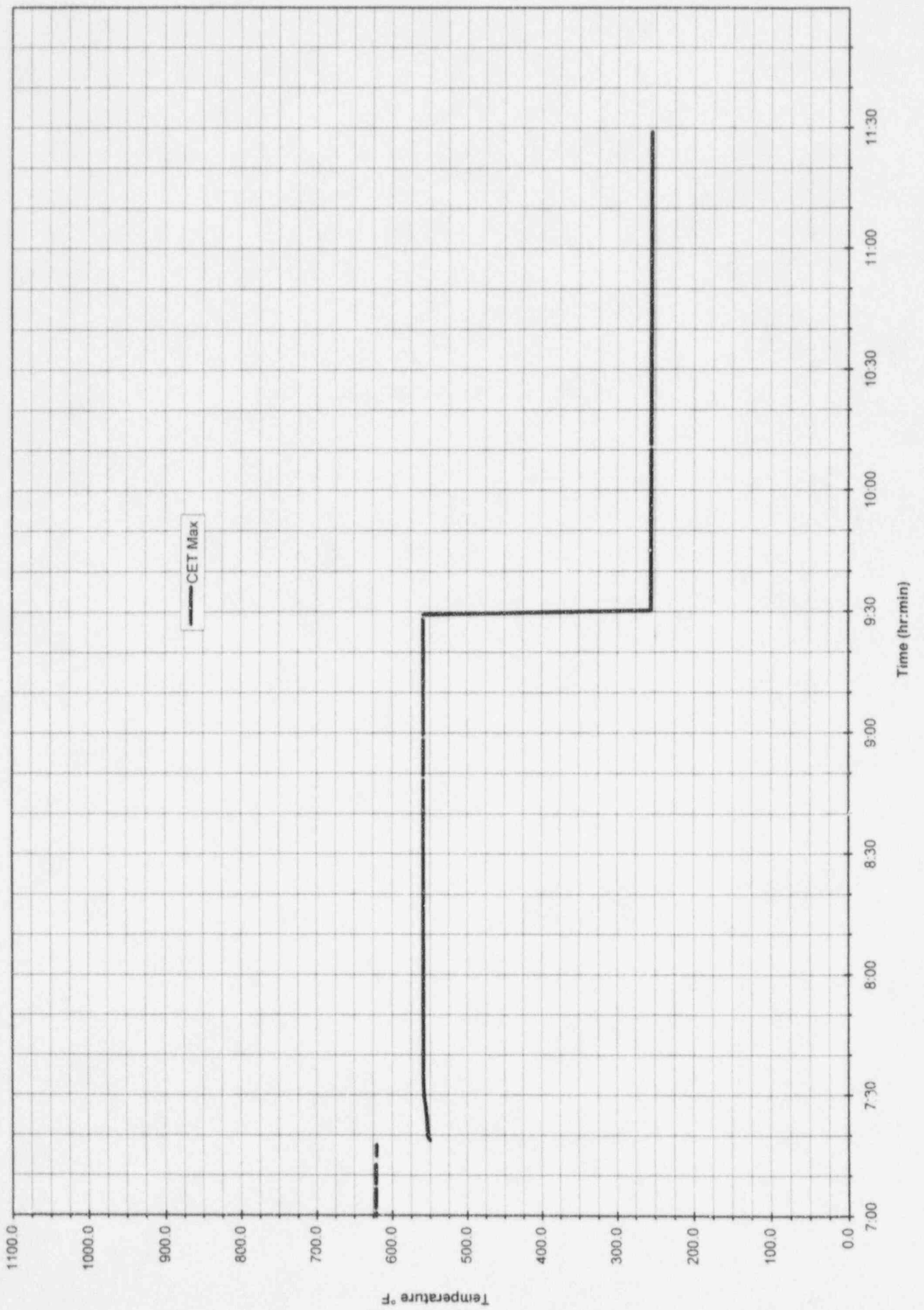
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TIME	RCST411A	RCS-T411B	CVTAVG	CVCETMX	CVCSUBCOOL	CPWRGE	CVRCSPRES	CVPZRLVL	CVHDLVLB	RMS-R04A	RMS-R04B	CVCTPRESS	CWATERLVL	CVCTAVG
11:21	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.83E+02	2.83E+02	14.70	1.00	196.8
11:22	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.80E+02	2.80E+02	14.70	1.00	196.8
11:23	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.78E+02	2.78E+02	14.70	1.00	196.8
11:24	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.75E+02	2.75E+02	14.70	1.00	196.8
11:25	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.73E+02	2.73E+02	14.70	1.00	196.8
11:26	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.70E+02	2.70E+02	14.70	1.00	196.8
11:27	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.68E+02	2.68E+02	14.70	1.00	196.8
11:28	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.65E+02	2.65E+02	14.70	1.00	196.8
11:29	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.63E+02	2.63E+02	14.70	1.00	196.8
11:30	530.0	510.0	530.0	255.2	11.2	0.0	39	0.0	0.0	2.58E+02	2.58E+02	14.70	1.00	196.8

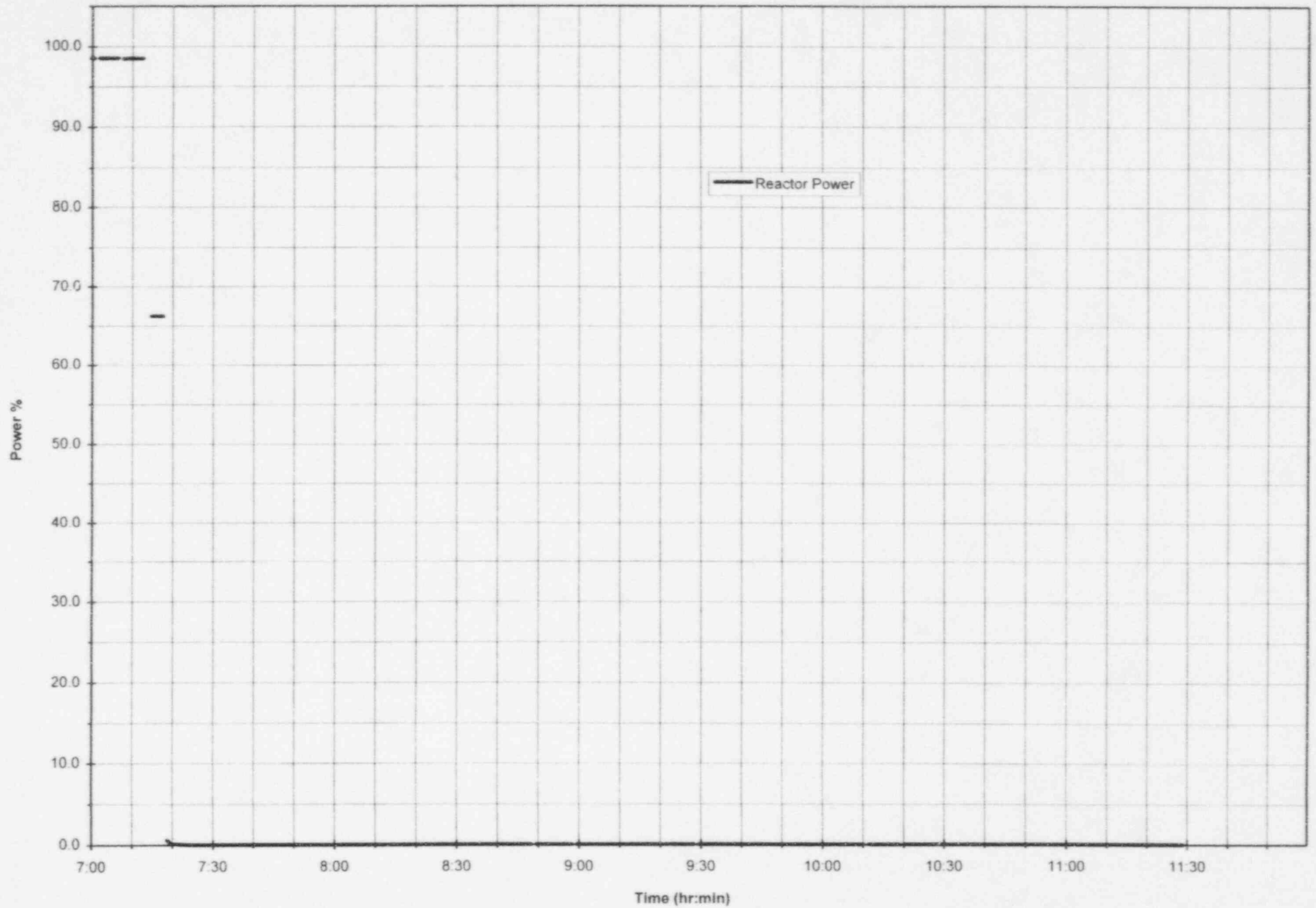
Northeast Nuclear Energy Company - Millstone Unit Three



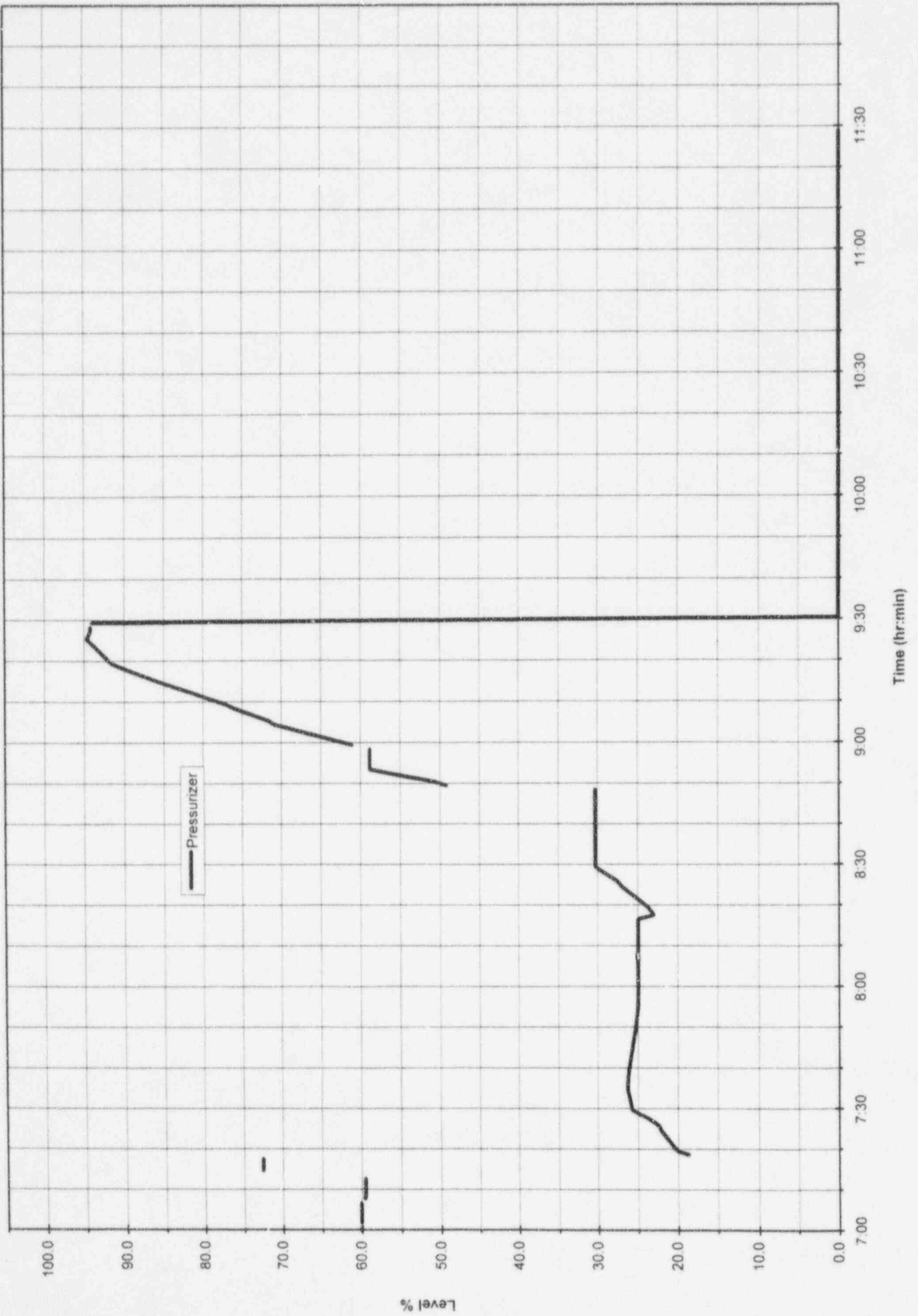
Northeast Nuclear Energy Company - Millstone Unit Three



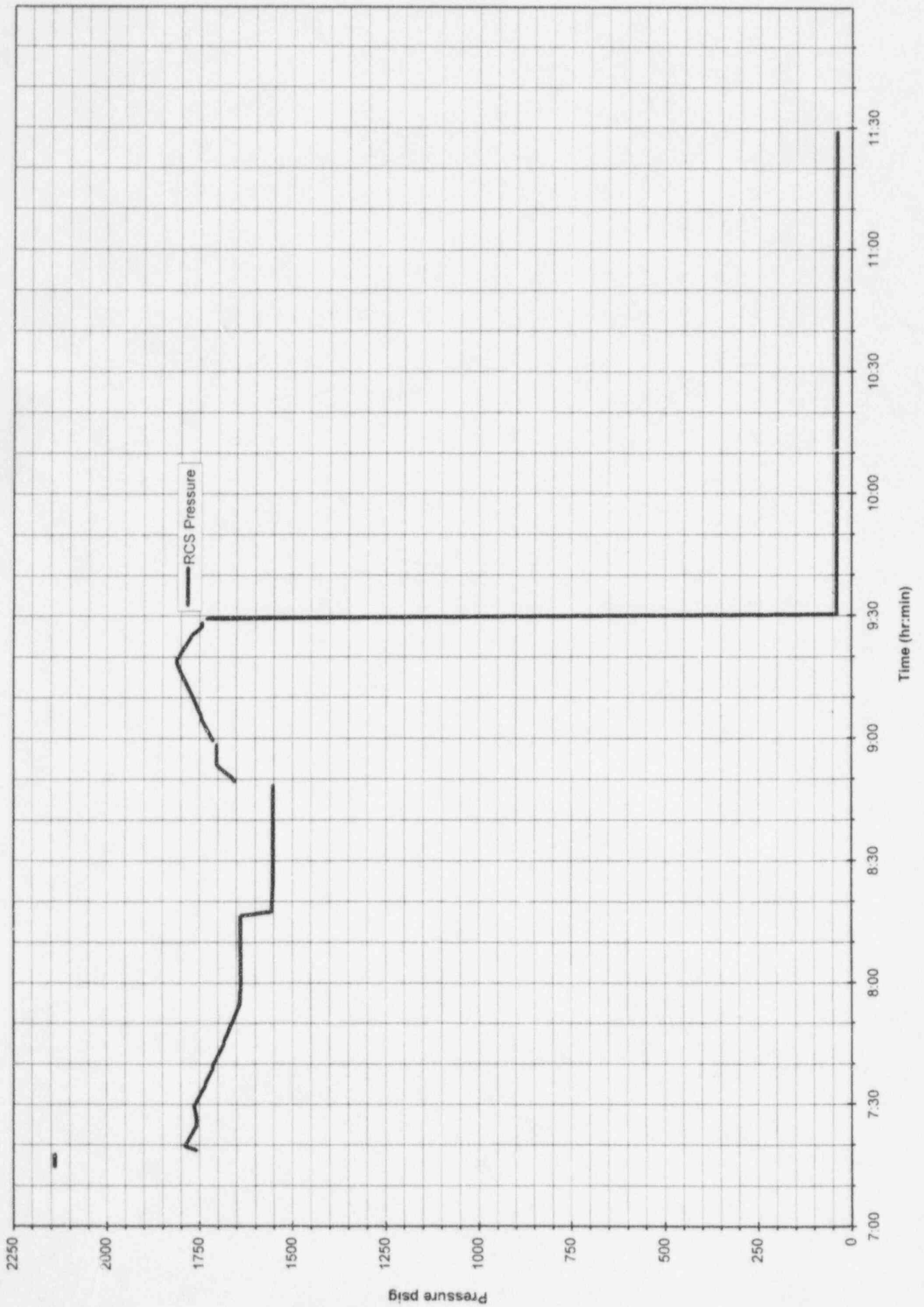
Northeast Nuclear Energy Company - Millstone Unit Three



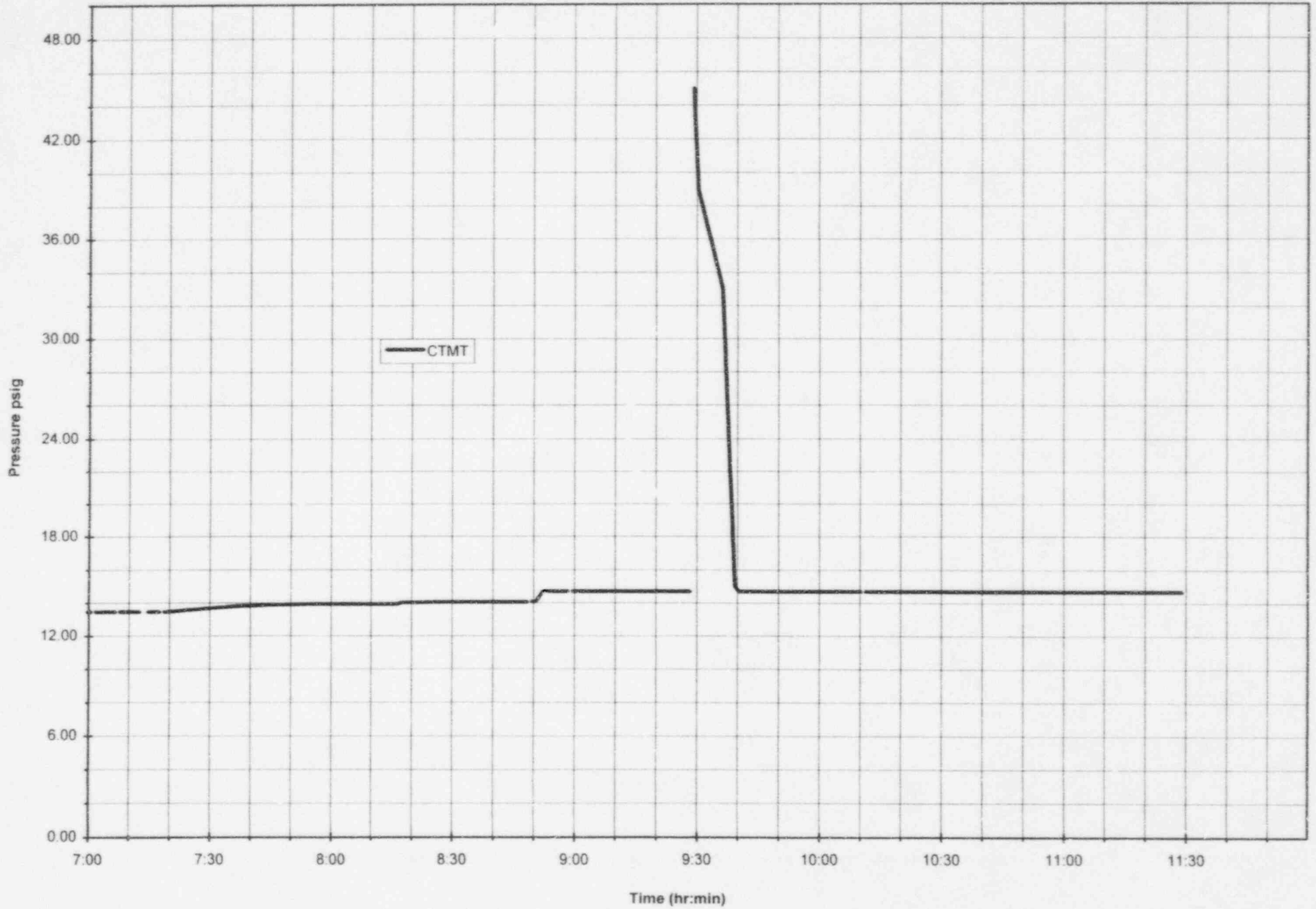
Northeast Nuclear Energy Company - Millstone Unit Three



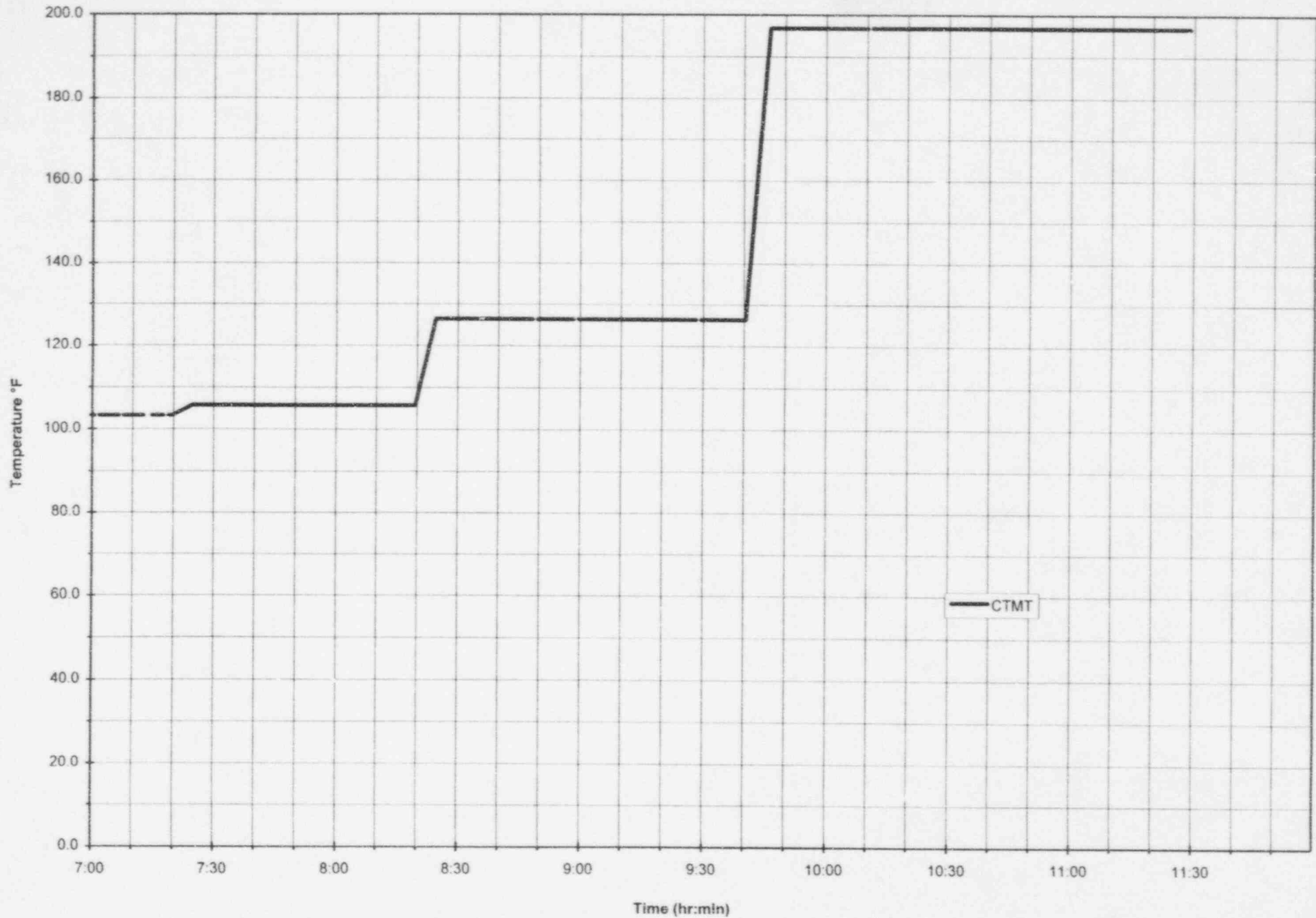
Northeast Nuclear Energy Company - Millstone Unit Three



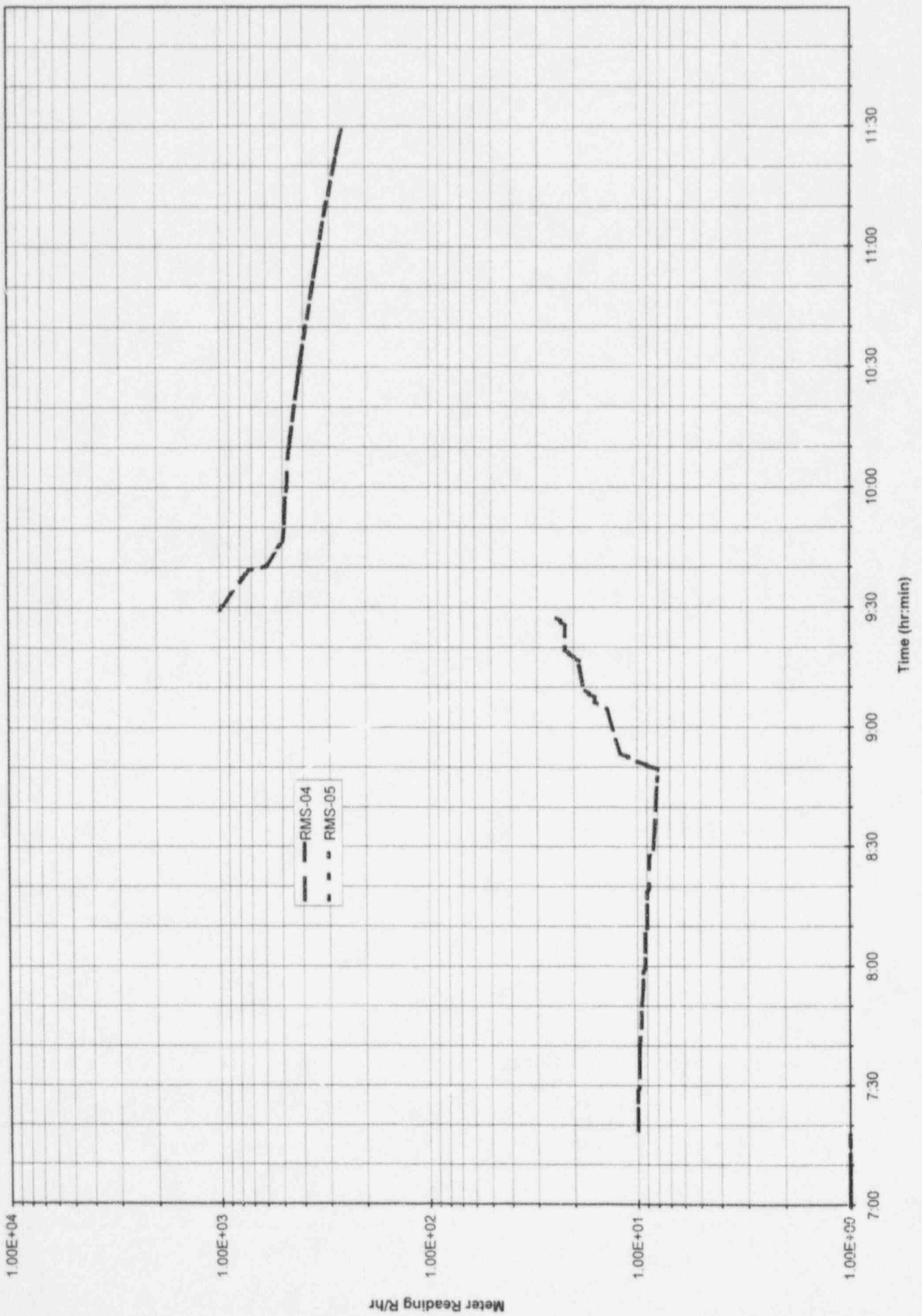
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Meter Reading R/hr

**RADIOLOGICAL AND
CHEMISTRY DATA**

In-Plant Monitor Data
In-Plant Radiation Levels
On-site Radiological Data
Off-site Radiological Data
Chemistry Data

**RADIOLOGICAL AND
CHEMISTRY DATA**

Radiological Assumptions

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Section VIII RADIOLOGICAL AND CHEMISTRY DATA

Radiological Assumptions

The purpose of this calculation is to analyze and produce the radiological conditions that would exist for the proposed hypothetical MP3 Exercise scenario. The objective is to provide offsite and onsite radiological data and supporting information that will enable the scenario to be played out in as real a situation/condition as possible.

Method:

This analysis is driven by the sequence of events as proposed in Table 1. The radiological conditions caused by this sequence have underlying assumptions:

1. The ATWS causes 10% fuel clad failure
2. The gap in the fuel contains 3% noble gases, 2% iodines and 5% cesiums.
3. 10% clad failure contained within the RCS will cause a shine dose in containment of ~ 10 R/hr.
4. Based on the MP3 EAL TECHNICAL BASIS DOCUMENT, a 5% fuel clad failure will cause a coolant sample radiation reading of 30 mR/hr/ml at 1 foot from the sample.
5. The RCS leak into containment from RCP #3 seal is 50 gpm.
6. Upon LOCA all noble gases will release into containment.
7. Due to rapid pressure drop through 42" purge valve, 50% of the noble gases in containment will transfer into the Auxiliary Building in the first 15 minutes. In subsequent 15 minute periods, 10% of what remains in containment will be transferred into the auxiliary building due to ventilation drawdown from SLCRS and Aux. Bldg ventilation.
8. The auxiliary building is not sealed, therefore radiation under pressure will flow into the Enclosure, Main Steam Valve and ESF buildings.
9. Building integrities are assumed intact.
10. SLCRS draws typically 8500 cfm through one train, both trains will be in service. However HVAC engineers estimate total flow around 12000 cfm.
11. Ventilation vent will draw 2000 cfm from Aux. Bldg general area 24' elevation.
12. Upon LOCA, containment pressure spikes causing tremendous flow through purge valve into Aux. Bldg; at the same time sprays turn on. With the 50% of noble gases that transfer into the Aux. Bldg in 15 minutes, only 10% of the 50% of available iodine in the containment atmosphere will transfer into the Aux. Bldg unaffected by sprays (DF=1000).
13. Ventilation filtration of iodine and particulates (DF=100).

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Radiological Assumptions

Based on the sequence timeline as specified in Table 1, the reactor will fail to trip at 07:13. The ATWS will cause 10% of the fuel clad to fail. $\sim 3.5E6$ curies of noble gases, $1.5E6$ curies of iodine and $1.5E6$ curies of particulates (Cs, Rb, etc.) release into the RCS. For calculational purposes, even though the reactor has not tripped, decay begins at time of clad failure due to release from the fuel, therefore reactor shutdown is at time of ATWS.

The shine produced from this radioactivity entrained in the primary system will cause radiation levels of ~ 10 R/hr in containment. This prompt activity will decay off at a rate of $\sim 10\%$ per hour. The concentrations in the reactor coolant would be 770 uCi/cc I-131 DEQ and $1.1E4$ uCi/cc NG. A one ml sample of reactor coolant would read 60 mR/hr at 1 foot.

Approximately 100 minutes following the ATWS (08:50) RCP #3 seal will start leaking 50 gpm into containment. This will cause containment dose rates to increase from the flashed gases and noble gases now in the containment atmosphere. Dose rates will increase by 0.5 R/hr per minute due to this leakage. Therefore, based on containment shine doses reading ~ 8 R/hr at the time of the seal leak, the containment dose rates will increase to 28 R/hr by the time the LOCA occurs 140 minutes into the event.

Approximately 115 minutes into the event, 5 minutes after RCP #3 seal failure, the 42" purge exhaust valve will fail. For a minute or two, air flow will be into containment and it is assumed that an expansion joint in the purge ventilation line will fail in the southwest corner of the aux. bldg near CMS RE22 on the 66'-6" elevation. Once at equilibrium, the drawdown of Aux. Bldg ventilation will begin to suck containment atmosphere from the containment at a rate comparable to the seal failure. Of what leaks into the aux. bldg, 50 % is conservatively assumed to get sucked into the ventilation systems.

The very small release of radioactivity into the aux. bldg will cause various rad monitors to increase and possibly alarm. This process will continue until the LOCA occurs approximately 150 minutes into the event (9:30). Pressure in containment spikes up very quickly up to 25 psi but just as quickly returns back to nearly atmospheric due to spray operation and tremendous flow out the 42" purge valve. This increase in pressure lasts for about 10 minutes. At an average pressure of 20 psi through a 42" opening a flow of $5E5$ cfm will escape the containment for 10 minutes. This equates to a volume release of $5E6$ ft³. The MP3 containment volume is $2.3E6$ ft³, therefore, 2 containment volumes will escape before pressure equalizes. This tremendous flow will

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RADIOLOGICAL AND CHEMISTRY DATA

Radiological Assumptions

cause 50% of the contained noble gas radioactivity to escape into the aux. bldg. Sprays will be on at this time so only 10% of the possible 50% pass-through of iodine and particulates will be assumed to flow through the valve in the first 10 minutes. Thereafter, all iodines and particulates still in containment will be reduced by a DF=1000.

Of the radioactivity and volume that flow into the aux. bldg, all will be contained in the aux. bldg, enclosure bldg, ESF bldg and main steam valve building envelopes. In the first 10 minutes 9E5 curies of noble gas, and 1.2E4 curies each of iodine and particulates enter the building envelope of 3E6 ft³. A DF=10 is credited for plateout of iodine and particulates once they pass into the aux. bldg.

At this time the aux. bldg ventilation will draw 2000 cfm of contaminated air through filtration to the ventilation vent and 12000 cfm through SLCRS filtration to the MP1 stack. The purge valve is closed 45 minutes after the LOCA stopping further containment leakage into the aux. bldg.

Analysis

A. Fuel Failure Curies

Based on EPOP 4435 Attachment 3 (Drywell/Containment Curie Level Estimate), 1.15E9 curies of noble gas are contained in the core at t=0:00. The gap contains 3% noble gases and we are assuming 10% gap release, therefore:

$$(1.15E9 \text{ curies}) \times 0.003 = \sim 3.5E6 \text{ curies NG}$$

Based on EPOP 4226 Table 4.2 (Unit 3 Core Damage Estimate Procedure), 7.9E8 curies of iodine are contained in the core at t=0:00. The gap contains 2% iodine and we are assuming 10% gap release therefore:

$$(7.9E8 \text{ curies}) \times 0.002 = \sim 1.5E6 \text{ curies Iodine}$$

Based on EPOP 4226 Table 4.2 (Unit 3 Core Damage Estimate Procedure), 3E8 curies of contained particulates in the gap are available in the core at t=0:00. The gap contains 5% cesium and we are assuming 10% gap release therefore:

$$(3E8 \text{ curies}) \times 0.005 = \sim 1.5E6 \text{ curies Particulates}$$

B. Reactor Coolant Isotopics and Concentrations

Based on EPOP 4226 Table 4.2 (Unit 3 Core Damage Estimate Procedure) 9.21E7 curies of I-131 are contained in the core at equilibrium.

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$$(9.21E7 \text{ curies}) \times 0.002 = 1.8E5 \text{ curies I-131}$$

These curies are contained in 3.31E8 cc of Rx coolant:

$$(1.8E5 \text{ curies}) / 3.31E8 \text{ cc} = 550 \text{ uCi/cc I-131}$$

$$\boxed{\text{I-131 DEQ uCi/cc} = \text{uCi/cc}_{131} + 0.17 \text{ uCi/cc}_{132} + 0.03 \text{ uCi/cc}_{135}}$$

From EPOP 4226 the following abundances of each iodine isotope exist at equilibrium:

Isotope	Curies
I-131	9.21E7
I-132	1.30E8
I-133	1.88E8
I-134	2.01E8
I-135	1.74E8

Based on these curies the following iodine concentrations and I-131 DEQ would exist at the time of the ATWS:

$$\text{uCi/cc}_{132} = 550 \text{ uCi/cc}_{131} \times (1.30E8/9.21E7) = 775 \text{ uCi/cc}_{132}$$

$$\text{uCi/cc}_{133} = 550 \text{ uCi/cc}_{131} \times (1.88E8/9.21E7) = 1100 \text{ uCi/cc}_{133}$$

$$\text{uCi/cc}_{134} = 550 \text{ uCi/cc}_{131} \times (2.01E8/9.21E7) = 1200 \text{ uCi/cc}_{134}$$

$$\text{uCi/cc}_{135} = 550 \text{ uCi/cc}_{131} \times (1.74E8/9.21E7) = 1000 \text{ uCi/cc}_{135}$$

$$\text{I-131 DEQ} = 550 + 0.17(1100) + 0.03(1000) = 770 \text{ uCi/cc I-131 DEQ}$$

Also the 3.5E6 curies of noble gas will release into the coolant to yield:

$$(3.5E6 \text{ curies}) / (3.31E8 \text{ cc}) = 1.1E4 \text{ uCi/cc NG}$$

C. RCP #3 Seal Leakage and Resulting Radiation

50 gpm of RCS liquid begins to leak approximately 100 minutes into the event. The RCS concentration of noble gases at this time is:

$$(2E6 \text{ curies}) / (3.31E8 \text{ cc Rx coolant}) = \sim 6000 \text{ uCi/cc NG}$$

Curies of noble gases releasing into containment per minute (not correcting for P and T):

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Radiological Assumptions

$$(50 \text{ gpm}) \times (231 \text{ in}^3/\text{gal}) \times (16.4 \text{ cm}^3/\text{in}^3) \times (6\text{E-}3 \text{ Ci/cc}) \\ = \sim 1000 \text{ Ci/min}$$

Based on EPOP 4435 Attachment 3 (Drywell/Containment Curie Level Estimate), approximately 1.5 hours into an event 1000 Ci of noble gas will increase the containment high range monitors RE-04A and RE-05A by 600 mR/hr. For simplicity, we will assume 0.5 R/hr increase per minute upon seal failure.

NO DEPOSITION/PLATEOUT ON MONITOR SURFACES ARE ASSUMED.

D. RCP Seal Radioactivity Leakage into Aux. Bldg from Cont.

Once the pressure equilibrizes between containment and aux. bldg, the drawdown of aux. building ventilation will suck containment atmosphere through the 42" purge valve assuming expansion joint is damaged. The drawdown from containment will be:

$$(50 \text{ gpm}) \times (231 \text{ in}^3/\text{gal}) \times (16.4 \text{ cm}^3/\text{in}^3) = 1.9\text{E}5 \text{ cc/min} \\ = \sim 7 \text{ cfm}$$

Containment concentration starts at,

$$(1000 \text{ Curies}) / (6.5\text{E}10 \text{ cc cont. vol.}) = 1.5\text{E-}2 \text{ uCi/cc}$$

and increases every minute by this same amount.

ASSUME INSTANTANEOUS MIXING AND EQUILIBRIUM IN CONTAINMENT

At this rate, the following release of curies into the aux. bldg on the 66' level will occur:

$$\begin{aligned} t=120 & \quad (1.5\text{E-}2 \text{ uCi/cc}) \times (1.9\text{E}5 \text{ cc/min}) = 2.85\text{E-}3 \text{ Ci/min} \\ t=130 & \quad (1.5\text{E-}1 \text{ uCi/cc}) \times (1.9\text{E}5 \text{ cc/min}) = 2.85\text{E-}2 \text{ Ci/min} \\ t=140 & \quad (1.5\text{E-}0 \text{ uCi/cc}) \times (1.9\text{E}5 \text{ cc/min}) = 2.85\text{E-}1 \text{ Ci/min} \end{aligned}$$

Over the first 15 minute buffer, an average containment concentration of $\sim 1.5\text{E-}1 \text{ uCi/cc}$ will be releasing into the aux. bldg under one of the intakes of SLCRS. 50% of what leaks in will be assumed to be drawn into SLCRS in order to have measureable radioactivity.

$$\begin{aligned} \text{NG Rel. rate} & = 0.5(1.5\text{E-}1) \times 12000 \text{ cfm} \times 5\text{E-}4 \\ & = 0.5 \text{ Ci/sec} \end{aligned}$$

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Radiological Assumptions

E. Plant Radiological Conditions Post LOCA

The following pressures were taken from the simulator for post LOCA conditions in containment:

Time	Pressure psig
LOCA t=0	14
1 min	18
2	25
3	23
4	22
5	21
6	20
7	19
8	17
9	16
10	14

Over this 10 minute period an average pressure of 20 psig will be assumed to exist in containment. At this pressure flow through a 42" opening would be 5E5 cfm per EPOP 4428E Worksheet #7 (Post Accident Release Rates).

The curies of noble gas released into containment from the LOCA approximately 140 minutes since the ATWS would be 1.7E6 curies from EPOP 4435 Attachment 3 item 4.

The initial containment air concentration would be

$$(1.7E6 \text{ curies NG}) / (6.5E10 \text{ cc cont. vol.}) = 26 \text{ uCi/cc}$$

This concentration will cause containment high range monitors to initially read 1000 R/hr. Because 50% of this activity (9E5 curies of NG) is assumed to flow into the aux. building in the first 10 minutes following the LOCA, containment high range monitors will be responding at 500 R/hr by the next 15 minute buffer. Thereafter we assume 10% of remaining activity in containment escapes per 15 minutes, the high range responses will ramp down accordingly.

Similarly, volatile iodines and particulates contained in the reactor coolant will release from the LOCA in containment. Only 25% of what was released from the core to the coolant will be assumed to be released to the containment atmosphere. The curies of iodine and particulates contained in the coolant at time of the LOCA are assumed to be 70% of that which they were when released from the core based on EPOP 4428E, therefore in containment there would be:

$$(1E6 \text{ curies}) \times 0.25 = 2.5E5 \text{ curies of iodine} \\ \text{and} \\ = 2.5E5 \text{ curies of particulates}$$

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Radiological Assumptions

Like the noble gases where 50% of the radioactivity is assumed to pass through the purge valve in the first 10 minutes, only 10% of 50% is assumed to escape due to spray operation, (1.2E4 curies). A plateout DF=10 is assumed for iodines and particulates thereafter.

F. Auxiliary Building Concentrations and Releases

Based on the assumptions and information above the following radiological conditions are assumed to exist in the aux. bldg. The radioactivity that leaks into the aux. bldg is assumed to eventually distribute through the four building volume (3E6 ft³) due to pressurization. SLCRS intakes are on opposite sides of the aux. bldg at the ceiling level of the 66'-6" elevation. One of the intakes is directly above the exhaust of the leaking purge line. In this area, we will assume a concentration equal to that leaking out of the containment to credit for the time it will take for the activity to diffuse throughout the entire building envelope.

Building	volume ft ³
Auxiliary	1.66E6
Enclosure	8.2E5
MSV	3.4E5
ESF	1.5E5
Total	3E6

1. Aux. Bldg Atmosphere Noble Gas Concentration

$$(9E5 \text{ curies NG}) / [(3E6 \text{ ft}^3)(28317\text{cc/ft}^3)] = \sim 10 \text{ uCi/cc}$$

Noble Gases

Time	Curies In	Aux. bldg curies	Bldg. Conc. uCi/cc	Cont. Conc. uCi/cc	Vent Rel. rate Ci/sec	Vent Curies Out	MP1 Stk Rel. rate Ci/sec	MP1 Stk Curies Out
LOCA	9E5	9.0E5	10	26	10	9000	160	1.4E5
LOCA + 15	9E4	8.4E5	10	13	10	9000	80	7.2E4
LOCA + 30	8E4	8.4E5	10	10	10	9000	60	5.4E4
LOCA + 45	0	7.8E5	9	9	9	8100	54	4.9E4
LOCA + 60	0	7.2E5	8.5	9	8.5	7700	51	4.6E4
LOCA + 75	0	6.7E5	7.8	8	7.8	7000	47	4.2E4
LOCA + 90	0	6.2E5	7.3	8	7.3	6500	44	3.9E4

Based on the concentration of 10 uCi/cc, the following dose rates would be typical for the entire four building environment; this is based on an enclosed room environment such as that on the 66'-6" elevation in the aux. bldg with the dimensions of 120'W x 120'L x 21'H:

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Radiological Assumptions

$$\text{Room volume} = 120 \times 120 \times 21 = 3.0\text{E}5 \text{ ft}^3$$

The dose rate in an enclosed environment can be approximated by reducing an infinite cloud dose of noble gases by the following equation (QA Category #1 calc. 79-223-30RA).

$$\begin{aligned} \text{PF} = D_a/D_r &= [1.091\text{E}3 / (V)^{0.3386}] \\ &= 15.2 \end{aligned}$$

where V is in ft^3 .

The infinite dose from a noble gas concentration of 10 uCi/cc would be approximately

$$\begin{aligned} D_a &= (10 \text{ uCi/cc}) \times [(10500)e^{-0.15T} (\text{mrem-m}^3/\text{min-Ci})] \\ &= (10 \text{ uCi/cc}) \times (7800 \text{ mrem-m}^3/\text{min-Ci}) \times (60 \text{ min/hr}) \\ &= 4.7\text{E}6 \text{ mrem/hr} \end{aligned}$$

Solving for the room dose rate D_r :

$$\begin{aligned} D_r = D_a/\text{PF} &= (4.7\text{E}6) / 15.2 = 3\text{E}5 \text{ mrem/hr} \\ &= 300 \text{ rem/hr} \end{aligned}$$

2. Aux. Bldg Atmosphere Iodine Concentration

$$(1.2\text{E}4 \text{ curies NG}) / [(3\text{E}6 \text{ ft}^3)(28317\text{cc}/\text{ft}^3)] = .14 \text{ uCi/cc}$$

Of this iodine concentration, plateout on surfaces is assumed in the building (DF=10), therefore conc. = .014 uCi/cc.

Iodines

Time	Curies In	Aux. bldg curies	Bldg. Conc. uCi/cc	Cont. Conc. uCi/cc	Vent Rel. rate Ci/sec	Vent Curies Out	MP1 Stk Rel. rate Ci/sec	MP1 Stk Curies Out
LOCA	1.2E4	1.2E4	.014	4	.00014	.13	.24	215
LOCA + 15	1.2E1	1.2E4	.014	.0002	.00014	.13	8E-4	.8
LOCA + 30	1.2E1	1.2E4	.014	.0001	.00014	.13	8E-4	.8
LOCA + 45	0	1.1E4	.013	.0001	.00013	.12	7.8E-4	.7
LOCA + 60	0	1.1E4	.013	.0001	.00013	.12	7.8E-4	.7
LOCA + 75	0	1.1E4	.013	.00009	.00013	.12	7.8E-4	.7
LOCA + 90	0	1.0E4	.012	.00007	.00012	.11	7.E-4	.6

A DF=100 is accounted for ventilation filtration of the exhausted air from the aux. bldg environments. The rapid

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Section VIII RADIOLGICAL AND CHEMISTRY DATA

Radiological Assumptions

decrease in containment iodine concentration is due to plateout, removal and sprays, total DF=10000.

Levels of contamination that would be expected in the aux. bldg would be based on 90% of the activity plating out on surfaces and a typical area of deposition would be the 66'-6" elevation in the aux. bldg (i.e., 120'x120'x(1.5 factor to account for irregular surface areas):

$$\begin{aligned} & (1E4 \text{ Ci}) / (2.2E4 \text{ ft}^2) \times (1E6 \text{ uCi/Ci}) \times (1E-3 \text{ ft}^2/\text{cm}^2) \\ & = .450 \text{ uCi/cm}^2 \text{ or } 45000 \text{ uCi}/100 \text{ cm}^2 \\ & = (0.045 \text{ Ci}) \times (3.7E10 \text{ dps/Ci}) \times (.1 \text{ cps/dps}) \times 60 \text{ s} \\ & = 1E10 \text{ cpm}/100 \text{ cm}^2 \end{aligned}$$

3. Aux. Bldg Atmosphere Particulate Concentration

$$(1.2E4 \text{ curies NG}) / [(3E6 \text{ ft}^3)(28317 \text{ cc}/\text{ft}^3)] = .14 \text{ uCi}/\text{cc}$$

Of this concentration, immediate plateout on surfaces is assumed in the building (DF=10), therefore conc. = .014 uCi/cc.

Particulates

Time	Curies In	Aux. bldg curies	Bldg. Conc. uCi/cc	Cont. Conc. uCi/cc	Vent Rel. rate Ci/sec	Vent Curies Out	MPI Stk Rel. rate Ci/sec	MPI Stk Curies Out
LOCA	1.2E4	1.2E4	.014	.4	.00014	.13	.24	215
LOCA + 15	1.2E1	1.2E4	.014	.0002	.00014	.13	8E-4	.8
LOCA + 30	6E0	1.2E4	.014	.0001	.00014	.13	8E-4	.8
LOCA + 45	0	1.1E4	.013	.00008	.00013	.12	7.8E-4	.7
LOCA + 60	0	1.1E4	.013	.00004	.00013	.12	7.8E-4	.7
LOCA + 75	0	1.1E4	.013	.000001	.00013	.12	7.8E-4	.7
LOCA + 90	0	1.0E4	.012	.000008	.00012	.11	7.E-4	.6

G. On-site and Building Dose Rates

Based on the accident sequence and the assumptions detailed above the following onsite radiological conditions will exist.

When the ATWS occurs and causes 10% fuel clad failure, the radioactivity released will get entrained in the reactor coolant. Shine from the primary system piping and the core will be 10 R/hr in containment.

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Radiological Assumptions

When the reactor coolant pump seal starts leaking 50 gpm into containment, containment dose rates begin to rise 500 mR/hr per minute.

When the purge valve begins to leak containment atmosphere into the aux. bldg a release of approximately .1 Ci/min were assumed to enter the aux. bldg 66' level. Over the 20 minute period of release into the aux. bldg ~4 Ci get mixed with the 120x120x21 66' elev. air. Therefore a concentration of approximately 2E-4 uCi/cc NG exists in the 66' level. This corresponds to about 5 mR/hr.

When the LOCA occurs the containment dose rates increase momentarily to 1000 R/hr dropping quickly to 500 R/hr due to the massive leak through the 42" purge valve into the aux. bldg. The high volume of leakage causes high pressure in the 4 bldg aux. bldg environment (ESF, Aux, MSV and Enclosure buildings). The aux. building size creates dose rates of 300 R/hr, the other smaller buildings will have dose rates of 50 R/hr. These high dose rates will shine through 2 ft concrete exterior walls, non-shielded doorways and through the 2 ft concrete ceilings. A conservative shielding factor reduction of 10 per foot of concrete was assumed. This would cause an exterior dose rate of 3 R/hr outside of the aux. bldg walls and roof. Skyshine was applied. The skyshine creates a circular isodose 1 R/hr field out to about 200-300 ft surrounding unit 3.

Rad monitor responses were calculated with shine affecting the detector. Shine was calculated by taking the ambient dose rate surrounding the detector, reducing it by any shielding factor and multiplying by 3000 cpm/mR/hr to get the detector response. Multiplying by the calibration factor of the monitor gives the uCi/cc that would be displayed in the control room.

Radiation fields onsite were reduced by a factor of 2 for every 100 feet of distance from the source.

**RADIOLOGICAL AND
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In-Plant Monitor Data

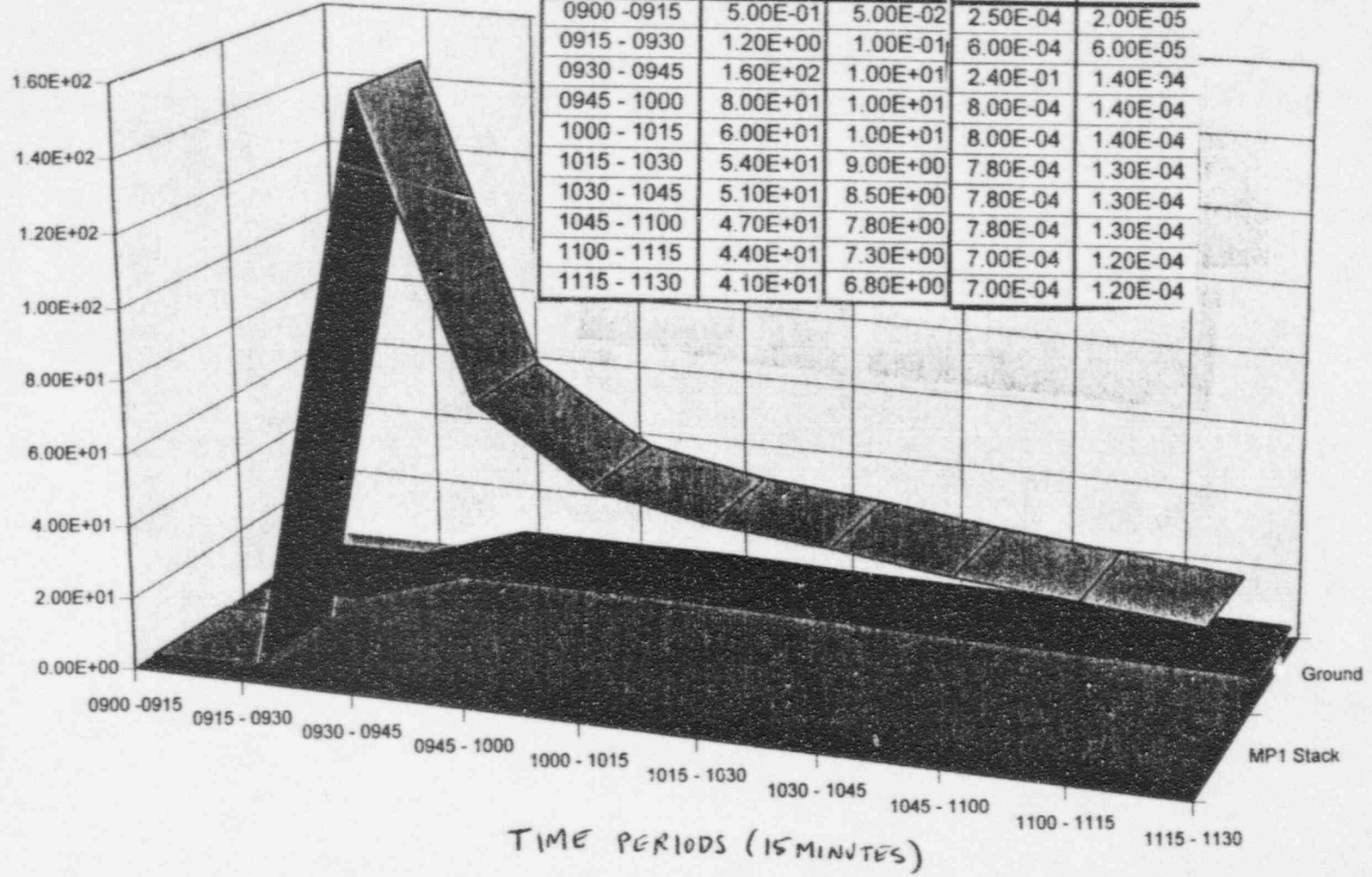
1995 MP3 EXERCISE

Dose Assessment Inputs to ADAM

Time of Rx Shutdown = 10/05/95 @ 0713

Time Period	Noble Gas Rel. Rate		Iodine Rel. Rate	
	MP1 Stack	Ground	MP1 Stack	Ground
0900 - 0915	5.00E-01	5.00E-02	2.50E-04	2.00E-05
0915 - 0930	1.20E+00	1.00E-01	6.00E-04	6.00E-05
0930 - 0945	1.60E+02	1.00E+01	2.40E-01	1.40E-04
0945 - 1000	8.00E+01	1.00E+01	8.00E-04	1.40E-04
1000 - 1015	6.00E+01	1.00E+01	8.00E-04	1.40E-04
1015 - 1030	5.40E+01	9.00E+00	7.80E-04	1.30E-04
1030 - 1045	5.10E+01	8.50E+00	7.80E-04	1.30E-04
1045 - 1100	4.70E+01	7.80E+00	7.80E-04	1.30E-04
1100 - 1115	4.40E+01	7.30E+00	7.00E-04	1.20E-04
1115 - 1130	4.10E+01	6.80E+00	7.00E-04	1.20E-04

Ci/sec



**RADIOLOGICAL AND
CHEMISTRY DATA**

In-Plant Radiation Levels

MILLSTONE UNIT 3
OCTOBER 1995

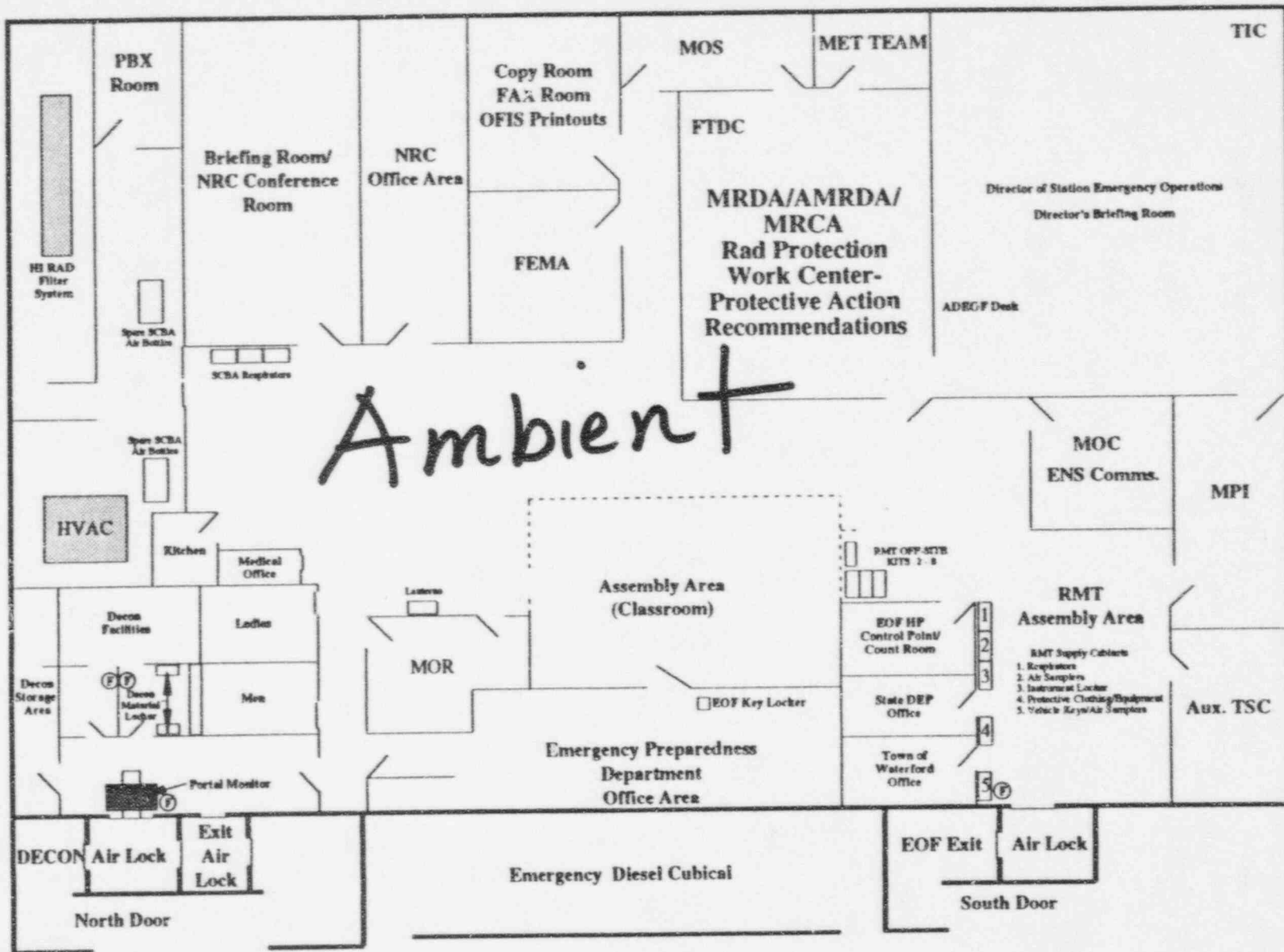
Section VIII

RADIOLOGICAL AND CHEMISTRY DATA

IN-PLANT FIGURE	RADIATION LEVELS*
EOF	Ambient
TSC/OSC	1 mR/Hr to Ambient
OSC Assembly Area	500 mR/Hr
MP3 Control Room	1 to 0.1 mR/Hr
Roof Survey	25 to 3 R/Hr
Aux Bldg 4',24',43'6",66'	300 R/hr
Main Steam Valve Bldg. 41',49',71'	50 R/Hr
Hydrogen Recombiner Bldg.38',24'	50 R/hr to 1 mR/Hr
Fuel Building 11', 24',52'4"	3 to 1 R/Hr
Waste Bldg. 4',24',43',66'	150 to 1 R/Hr
Service Bldg. 24' (Chem Lab), 38'6"	200 to 0.3 mR/Hr
Service Bldg. 24' (H.P. Offices)	3 R/Hr to 300 mR/Hr
Turbine Bldg. 14'6"N&S,38'N&S,64'N&S	5 to 1 R/Hr
Radiation Monitor List RE01 - RE38	Alarm Setpoints

*DETAILED FIGURES ARE ON THE FOLLOWING PAGES

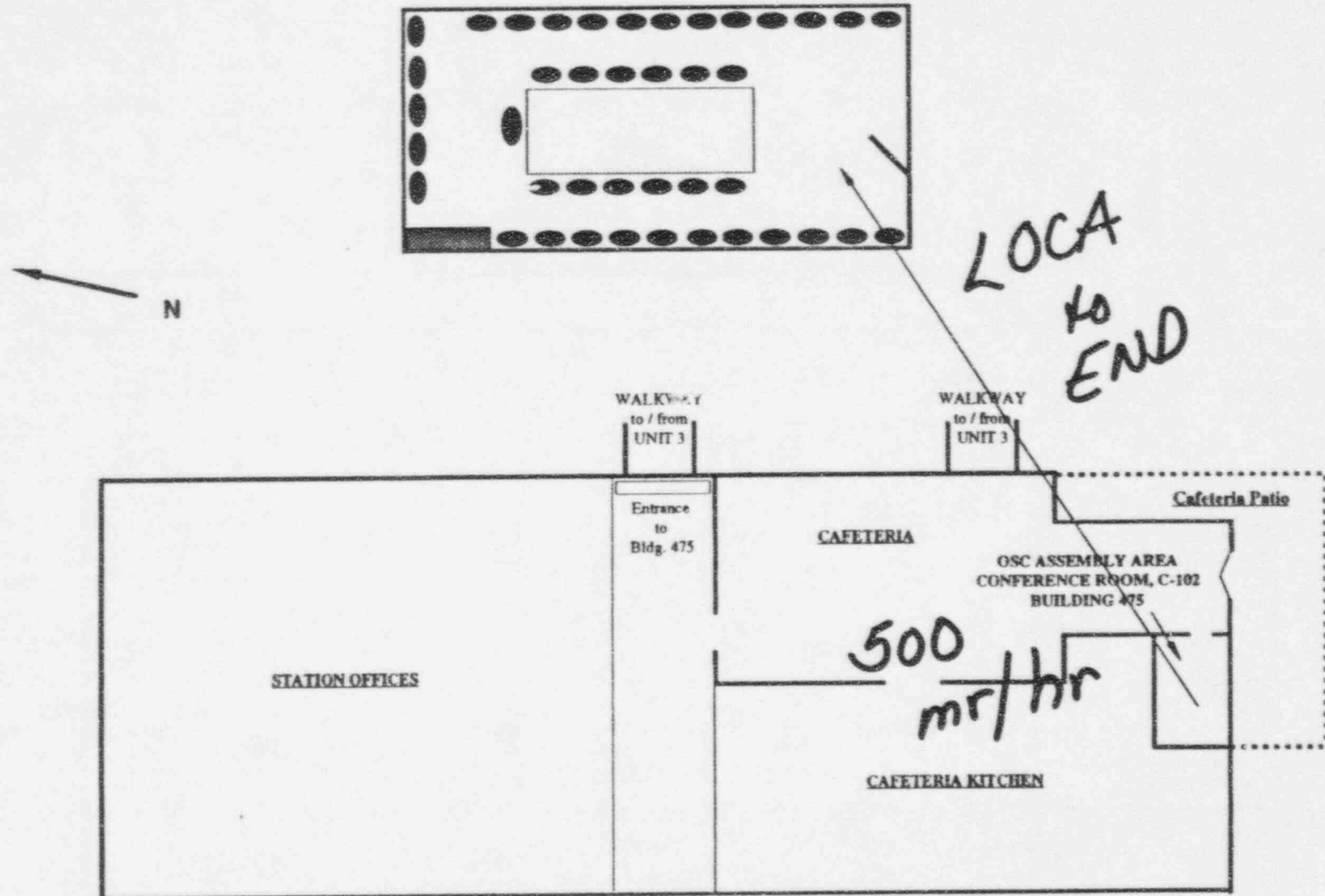
MILLSTONE STATION EMERGENCY OPERATIONS FACILITY



Page 184 of 78

Legend:
 Ⓢ = Frisker
 Not Drawn to Scale

MILLSTONE STATION OPERATIONAL SUPPORT CENTER - ASSEMBLY AREA



Page 19 of 78

© = Frisker

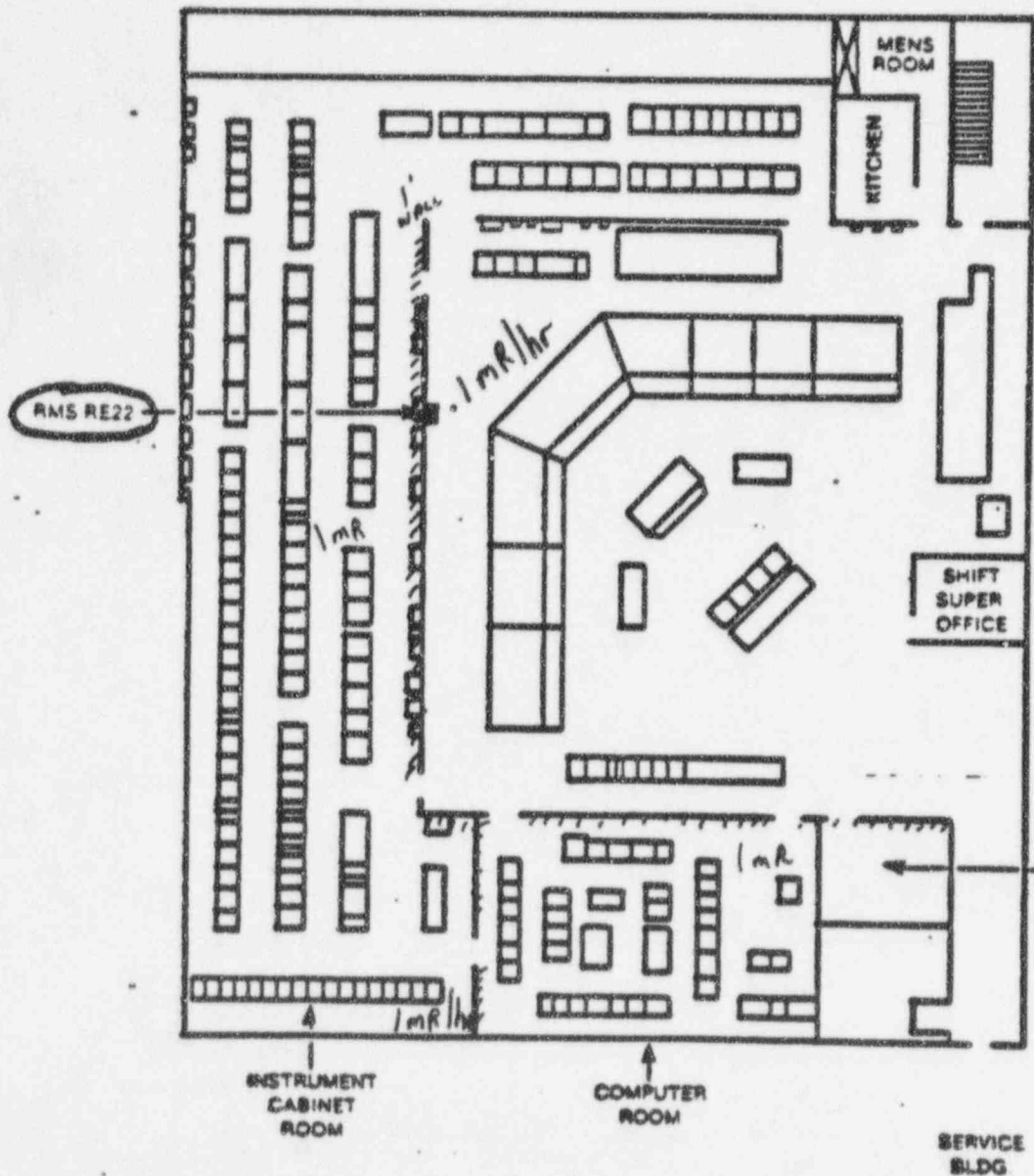
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ELLIS TECHNICAL SUPPORT CENTER BUILDING 475

Figure F-4

DIAGRAM 21

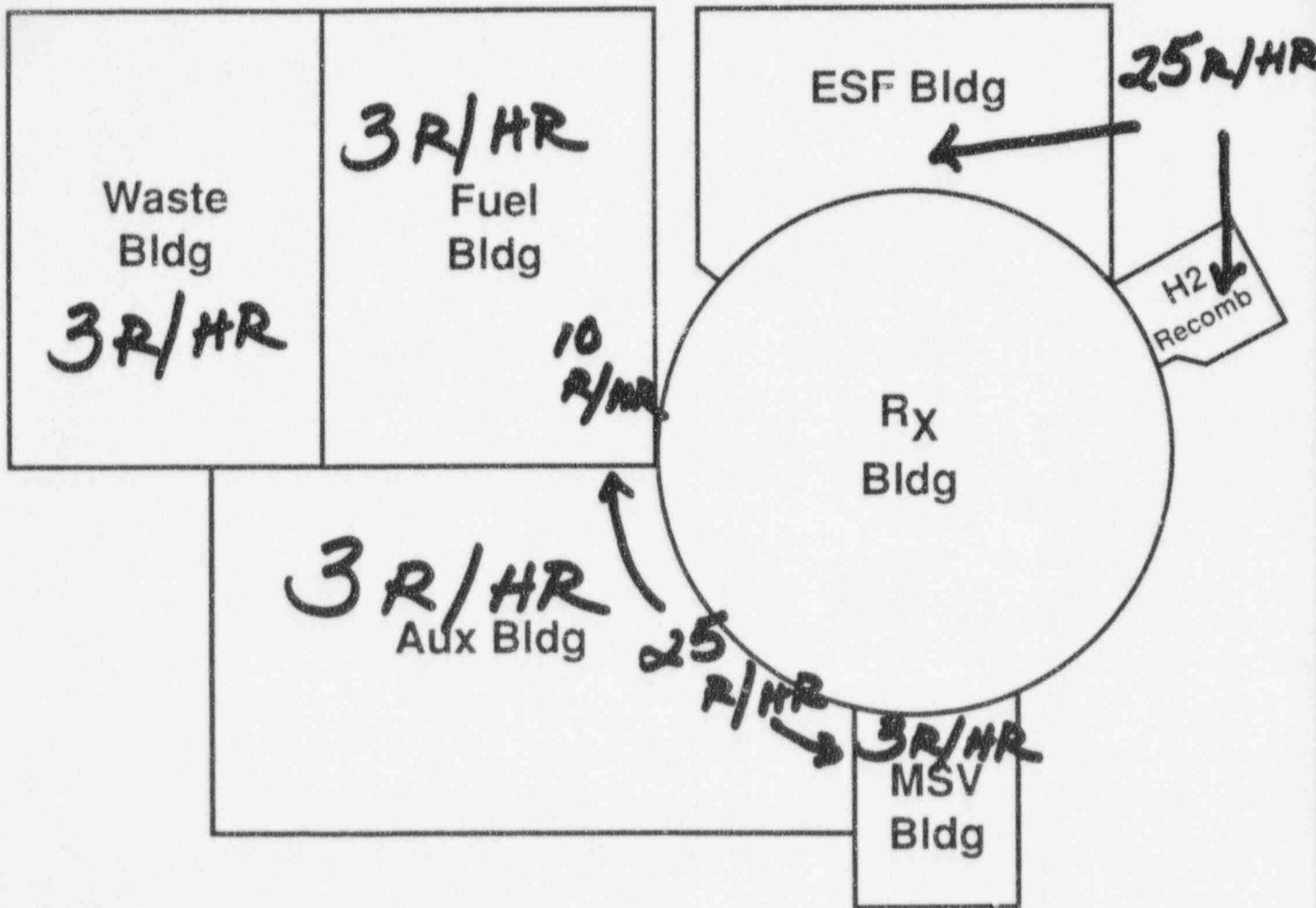
CONTROL ROOM @ 478'



Date		Survey By Signature		Reviewed By		Type Of Survey <input type="checkbox"/> Routine <input type="checkbox"/> Special	
Time		Print Name		% Reactor Power		<input type="checkbox"/> RWP #	
Type	Instrument Type	Serial Number	1/Efficiency	Background	Calibration Due Date		
γ			N/A	N/A			
n			N/A	N/A			
α							
β ⁻ γ							

ROOF SURVEY

LOCA to End of drill



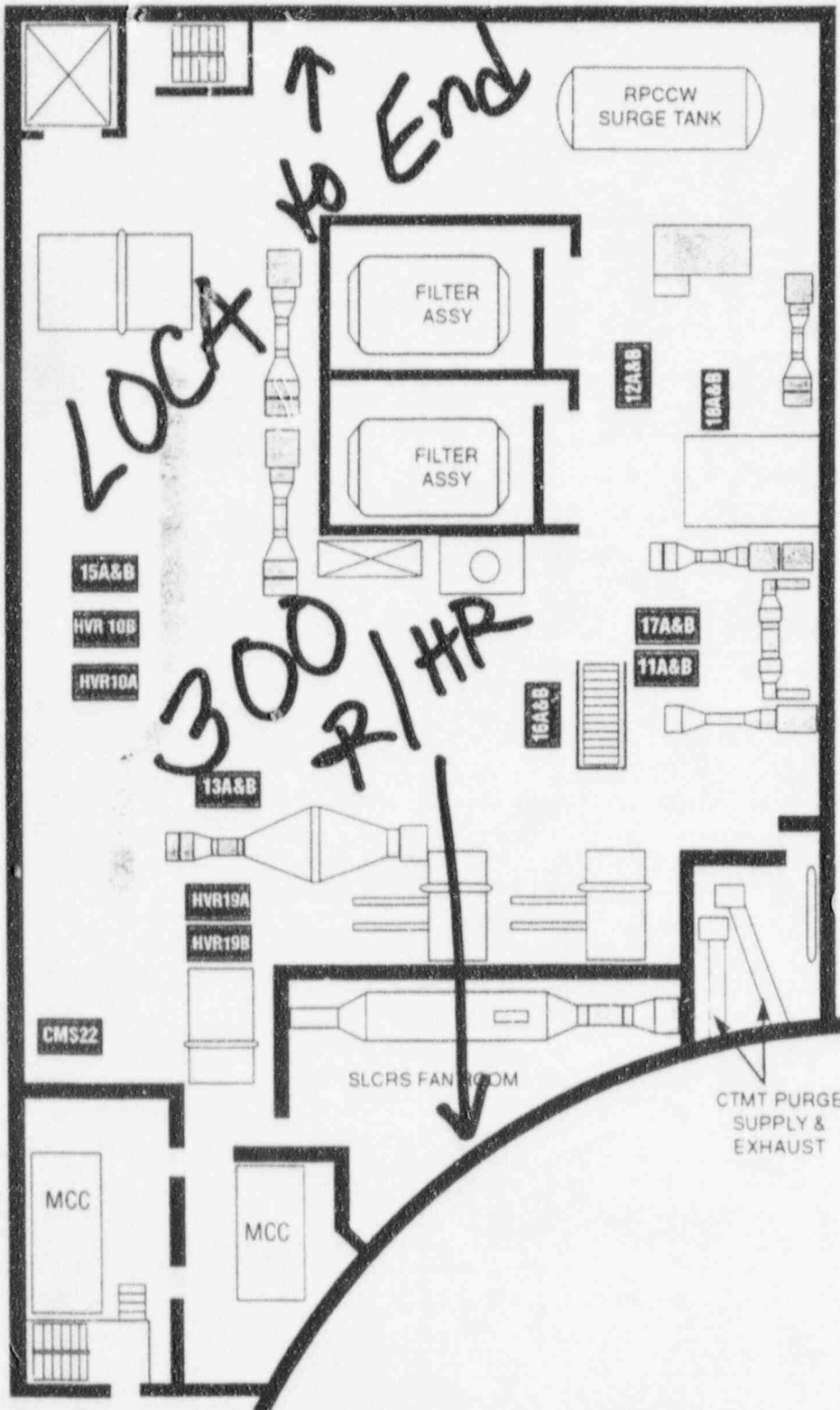
100 - gamma(γ) at waist level in mrem/hr
 ② - contamination survey point

100* - gamma(γ) contact in mrem/hr
 50 mrad - beta(β) reading in mrad/hr

25n - neutron(₀n¹) in mrem/hr

Date		Survey By Signature		Reviewed By		Type Of Survey <input type="checkbox"/> Routine <input type="checkbox"/> Special	
Time		Print Name		% Reactor Power		<input type="checkbox"/> RWP # _____	
Type	Instrument Type	Serial Number	1/Efficiency	Background	Calibration Due Date		
γ			N/A	N/A			
η'			N/A	N/A			
α							
β γ							

AUX BLDG 66' Elev.



SMEAR RESULTS	
No.	dpm/100cm ²
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

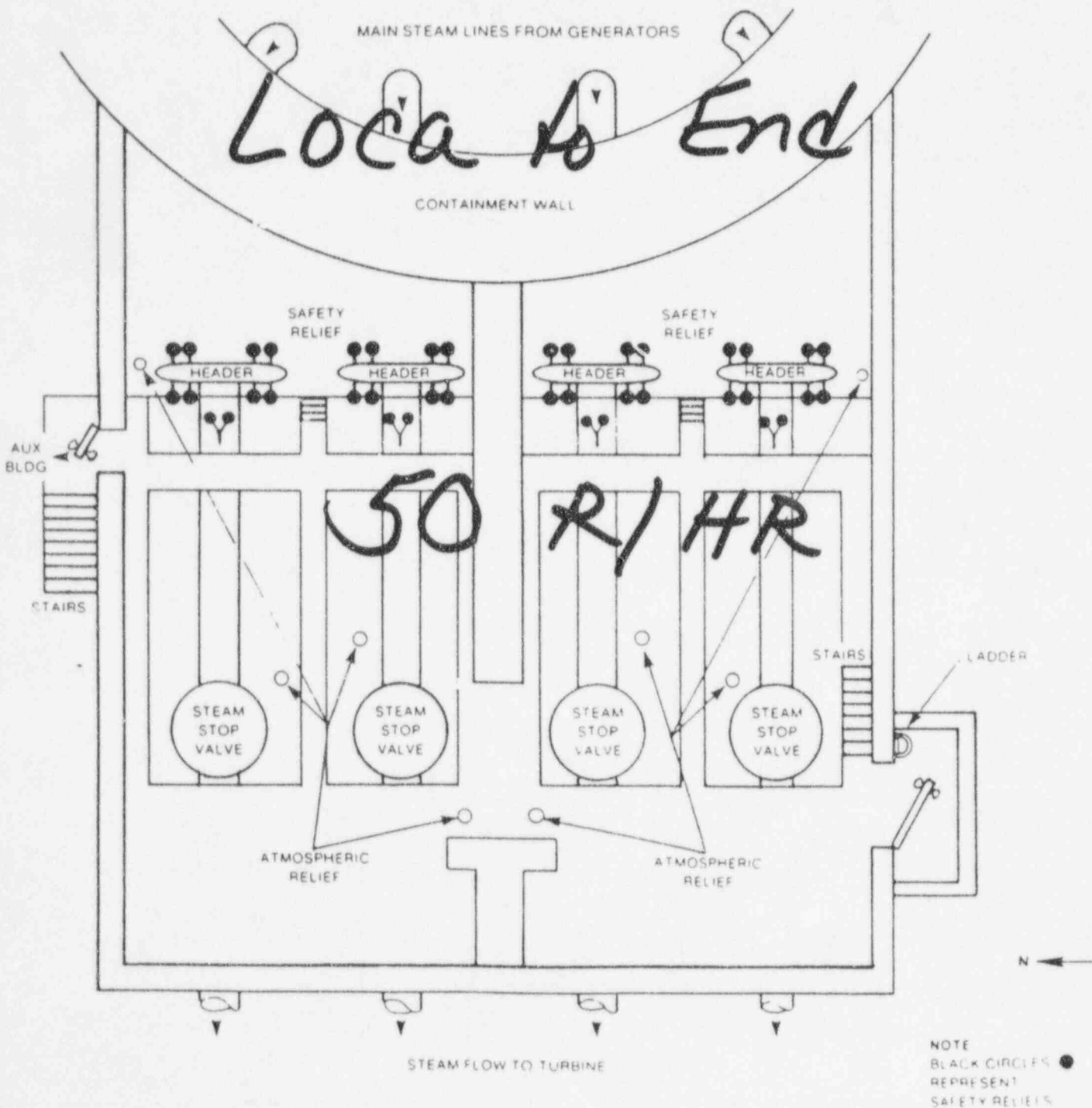
100 - gamma(γ) at waist level in mrem/hr
 ② - contamination survey point

100* - gamma(γ) contact in mrem/hr
 50 mrad - beta(β) reading in mrad/hr

25η - neutron(η') in mrem/hr

Date	Survey By Signature	Reviewed By	Type Of Survey		
Time	Print Name	% Reactor Power	<input type="checkbox"/> Routine <input type="checkbox"/> Special <input type="checkbox"/> RWP #		
Type	Instrument Type	Serial Number	1/Efficiency	Background	Calibration Due Date
γ			N/A	N/A	
n			N/A	N/A	
α					
β γ					

MAIN STEAM VALVE BUILDING # 71



NOTE
 BLACK CIRCLES ●
 REPRESENT
 SAFETY RELIEFS

100 - gamma(γ) at waist level in mrem/hr
 > - contamination survey point

100* - gamma(γ) contact in mrem/hr
 50 mrad - beta(β) reading in mrad/hr

25n - neutron(n) in mrem/hr

Table 1

MONITOR LIST

MONITOR	TYPE	LOCATION			DIAGRAM NO.	ALARM SETPOINT (mR/hr)
RE01	1	Containment	51' 4"	Manipulator Crane	1	~4.0 x Normal
RE02	1	Containment	3' 8"	Fuel Transfer Tube	3	100
RE03	1	Containment	24' 6"	Incore Instrument Area	2	100
RE06	.1	Fuel Bldg.	24' 6"	Decontamination Area	13	2.5
RE07	.1	Aux. Bldg.	66' 6"	HVAC Area	6	2.5
RE09	.1	Aux. Bldg.	18' 6"	Piping Cubicle Area	9	15
RE10	.1	Aux. Bldg.	4' 6"	Letdown Heat Exchanger	9	2.5
RE11	.1	Aux. Bldg.	4' 6"	Boron Recovery Area	9	2.5
RE12	.1	Aux. Bldg.	24' 6"	Demineralizer Area	8	2.5
RE13	.1	Aux. Bldg.	24' 6"	Heat Exchanger Area	8	2.5
RE14	.1	Aux. Bldg.	24' 6"	Charging Pump Area	8	2.5
RE15	.1	Aux. Bldg.	43' 6"	Area Above Demins	7	2.5
RE16	.1	Aux. Bldg.	43' 6"	VCT Cubicle	7	100
RE17	.1	Waste Bldg.	4' 6"	Test Tank Pump Area	11	2.5
RE18	.1	Waste Bldg.	4' 6"	Sample Sink	11	2.5
RE19	.1	Waste Bldg.	24' 6"	Solid Waste Storage	10	~4.0 x Normal
RE20	.1	Aux. Bldg.	43' 6"	Sample Room	7	40
RE21	.01	Service Bldg.	24' 6"	Rad. Chem. Lab	22	~4.0 x Normal
RE22	.01	Control Bldg.	47' 6"	Control Room	21	~4.0 x Normal
RE24	.1	Waste Bldg.	24' 6"	Control Area	10	2.5
RE25	.1	Waste Bldg.	24' 6"	Truck Bay	10	2.5
RE28	.1	Fuel Bldg.	11' 0"	Pipe Rack	14	100
RE29	.1	Fuel Bldg.	52' 4"	Spent Fuel Cask Area	12	2.5
RE31	1	Containment	24' 6"	Fuel Transfer Tube Area	2	100
RE32	1	Containment	-24' 6"	Containment Sump Area	4	~4.0 x Normal
RE33	.1	ESF Bldg.	4' 6"	RHR Cubicles	17	100
RE34	.1	ESF Bldg.	4' 6"	RHR Cubicles	17	100
RE35	1	Containment	3' 8"	Thimble Area	3	~4.0 x Normal
RE37	.01	Condensate Polishing	14' 6"	Demineralizer Area	26	2.5
RE38	.01	Condensate Polishing	38' 6"	Regeneration Area	25	2.5

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RADIOLOGICAL AND CHEMISTRY DATA

On-site Radiological Data

Note: On-site radiological data is provided as a function of time and location. The data was generated using ADAM and radiological engineering estimates as necessary. During the exercise, monitoring teams will be providing information as they demonstrate their ability to monitor the release.

Tables and Maps are provided from 0900-1130

1. The iodine concentration (Ci/m^3) is provided only after an air sample has been analyzed by the laboratory. The values in most cases are therefore "informational use only".
2. The survey meter readings are for both waist and ground level.
3. The term background reflects current ambient conditions.

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 09:00 - 09:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	1.7E-03	8.60E-04	2.6E+00	0	0.0E+00
B 0.1	3.6E-02	1.80E-02	5.4E+01	0	0.00E+00	0
C 0.1	4.2E-01	2.10E-01	6.3E+02	0	6.40E-11	30
C 0.2	2.6E-02	1.30E-02	3.9E+01	0	4.10E-12	0
G 0.1	4.2E-02	2.10E-02	6.3E+01	0	0	0
H 0.1	2.0E-02	9.80E-03	2.9E+01	0	0	0
J 0.1	1.7E-02	8.50E-03	2.6E+01	0	0	0
K 0.1	2.8E-02	1.40E-02	4.2E+01	0	0	0
P 0.1	1.1E-02	5.40E-03	1.6E+01	0	0	0
Q 0.1	7.4E-04	3.70E-04	1.1E+00	0	0	0
R 0.1	3.4E-03	1.70E-03	5.1E+00	0	0	0





Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

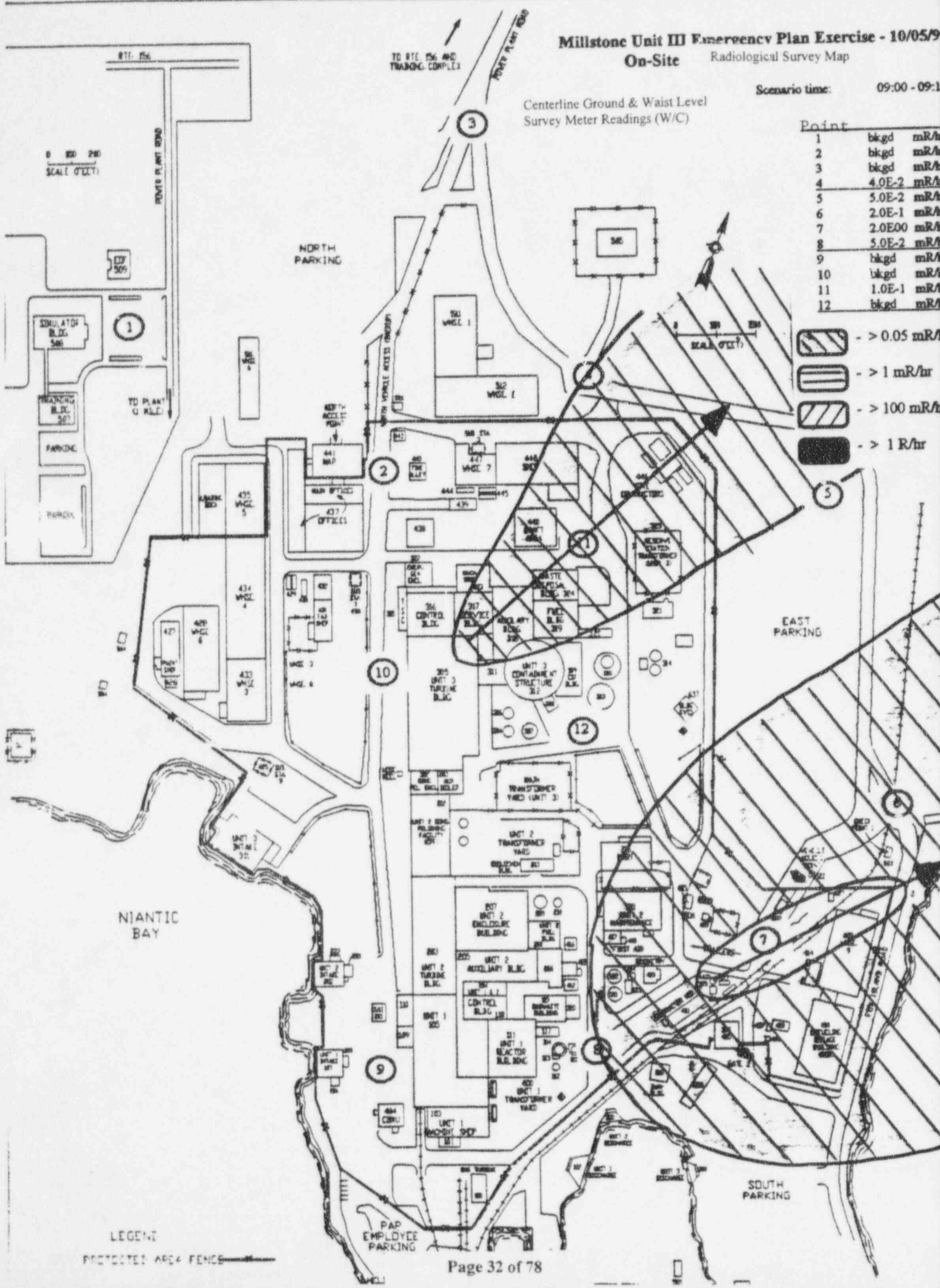
Millstone Unit III Emergency Plan Exercise - 10/05/79
On-Site Radiological Survey Map

Scenario time: 09:00 - 09:15

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	bkgd mR/hr
3	bkgd mR/hr
4	4.0E-2 mR/hr
5	5.0E-2 mR/hr
6	2.0E-1 mR/hr
7	2.0E0 mR/hr
8	5.0E-2 mR/hr
9	bkgd mR/hr
10	bkgd mR/hr
11	1.0E-1 mR/hr
12	bkgd mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 09:15 - 09:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	3.4E-03	1.70E-03	5.1E+00	0	0	0
B 0.1	8.8E-02	4.40E-02	1.3E+02	0	0	0
C 0.1	1.0E+00	5.20E-01	1.6E+03	15	3.50E-10	150
C 0.2	2.2E-02	1.10E-02	3.3E+01	0	2.10E-12	0
G 0.1	8.0E-02	4.00E-02	1.2E+02	0	0	0
H 0.1	3.8E-02	1.90E-02	5.7E+01	0	0	0
J 0.1	3.4E-02	1.70E-02	5.1E+01	0	0	0
K 0.1	5.4E-02	2.70E-02	8.1E+01	0	0	0
P 0.1	2.2E-02	1.10E-02	3.3E+01	0	0	0
Q 0.1	1.5E-03	7.30E-04	2.2E+00	0	0	0
R 0.1	6.6E-03	3.30E-03	9.9E+00	0	0	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

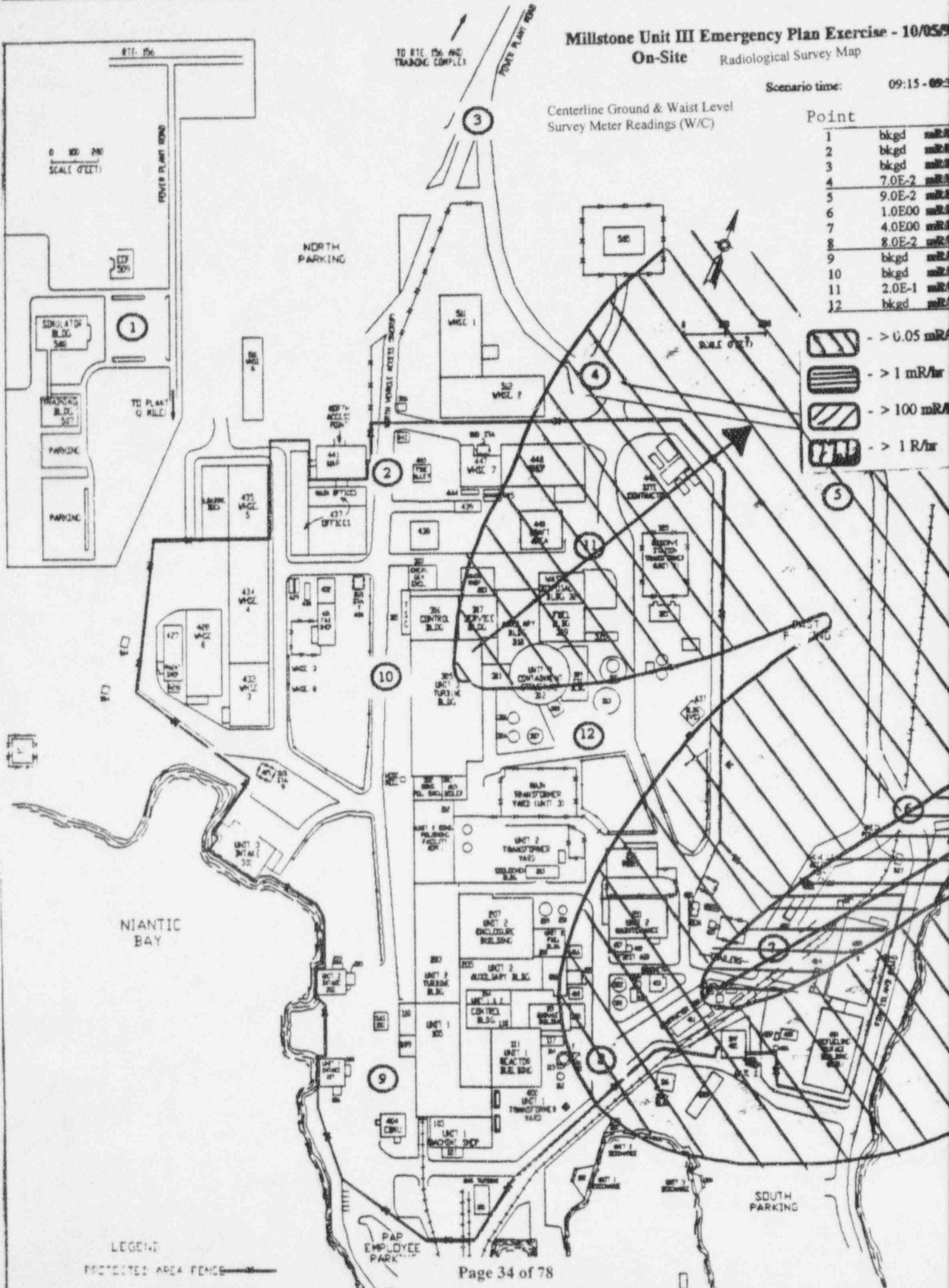
Millstone Unit III Emergency Plan Exercise - 10/05/99
On-Site Radiological Survey Map

Scenario time: 09:15 - 09:30

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	bkgd mR/hr
3	bkgd mR/hr
4	7.0E-2 mR/hr
5	9.0E-2 mR/hr
6	1.0E00 mR/hr
7	4.0E00 mR/hr
8	8.0E-2 mR/hr
9	bkgd mR/hr
10	bkgd mR/hr
11	2.0E-1 mR/hr
12	bkgd mR/hr

	- > 0.05 mR/hr
	- > 1 mR/hr
	- > 100 mR/hr
	- > 1 R/hr



LEGEND
 PROTECTED AREA FENCE

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 09:30 - 09:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	3.0E-01	1.50E-01	4.5E+02	0	0	0
B 0.1	6.2E+00	3.10E+00	9.3E+03	0	6.00E-13	0
C 0.1	3.8E+01	1.90E+01	5.7E+04	5	9.20E-11	400
C 0.2	9.6E-01	4.80E-01	1.4E+03	0	3.20E-12	0
G 0.1	1.6E+01	8.20E+00	2.5E+04	0	0.00E+00	0
H 0.1	6.6E+00	3.30E+00	9.9E+03	0	0	0
J 0.1	5.2E+00	2.60E+00	7.8E+03	0	0	0
K 0.1	8.0E+00	4.00E+00	1.2E+04	0	0	0
P 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
Q 0.1	1.6E-01	7.90E-02	2.4E+02	0	0	0
R 0.1	6.4E-01	3.20E-01	9.6E+02	0	0	0





Notes
 LLD for an RO-2A is 2.0 mR/hr (< 0 mR/hr = As Read)
 LLD for an RO-2 is 0.2 mR/hr (< 0.2 mR/hr = As Read)
 LLD for an ASP-1 is 0.04 mR/hr (< 0.04 mR/hr = As Read)
 Ci/m**3 is same as uCi/cc

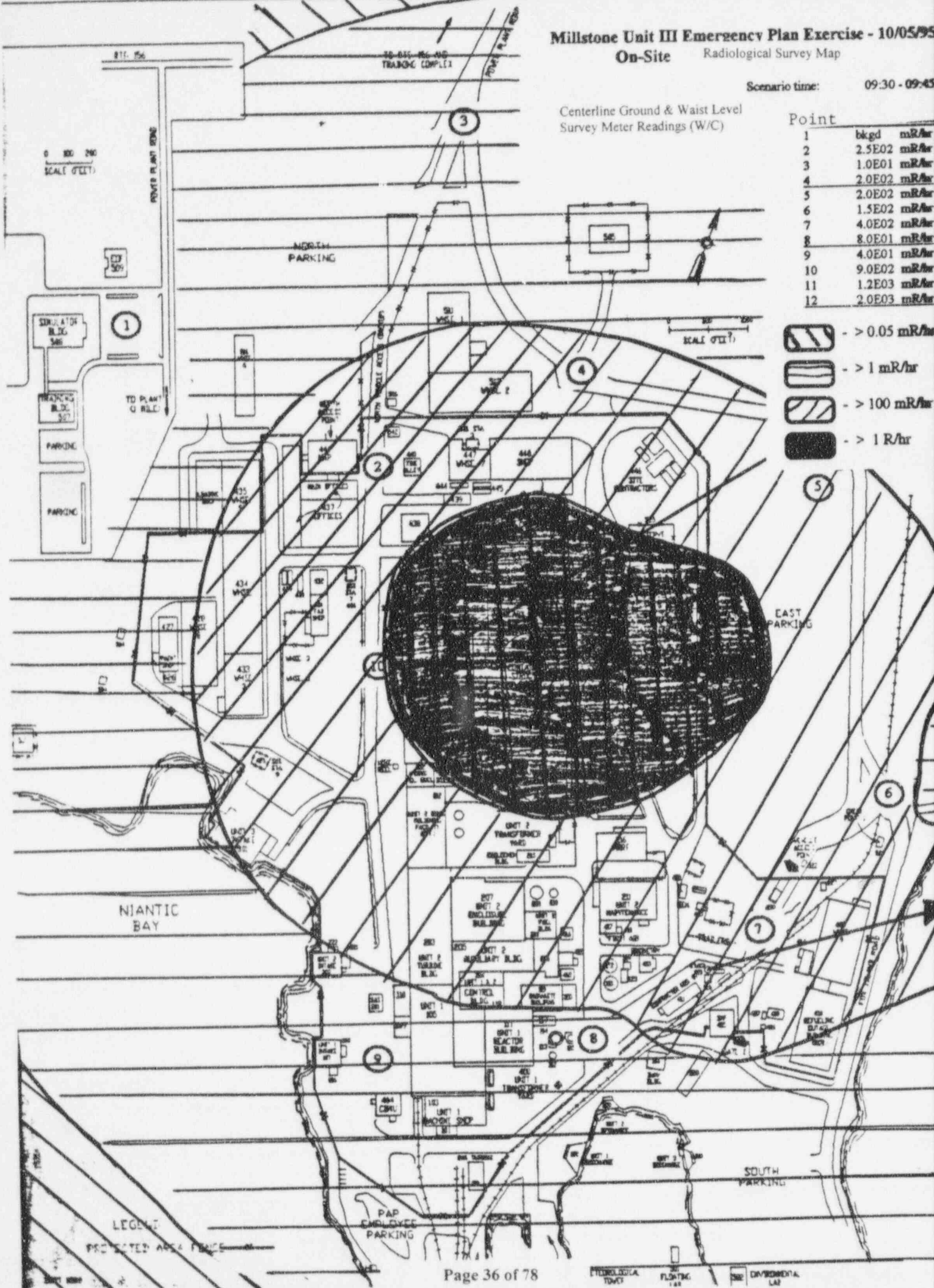
Millstone Unit III Emergency Plan Exercise - 10/05/95
On-Site Radiological Survey Map

Scenario time: 09:30 - 09:45

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	bkgd	mR/hr
1		
2	2.5E02	mR/hr
3	1.0E01	mR/hr
4	2.0E02	mR/hr
5	2.0E02	mR/hr
6	1.5E02	mR/hr
7	4.0E02	mR/hr
8	8.0E01	mR/hr
9	4.0E01	mR/hr
10	9.0E02	mR/hr
11	1.2E03	mR/hr
12	2.0E03	mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



LEGEND

PROTECTED AREA FENCE

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 09:45 - 10:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.00E+00	0
B 0.1	3.6E+00	1.80E+00	5.4E+03	0	9.80E-13	0
C 0.1	2.6E+01	1.30E+01	3.9E+04	5	1.10E-10	500
C 0.2	9.6E-01	4.80E-01	1.4E+03	0	4.10E-11	0
G 0.1	9.0E+00	4.50E+00	1.4E+04	0	0.00E+00	0
H 0.1	3.6E+00	1.80E+00	5.4E+03	0	0	0
J 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
K 0.1	4.4E+00	2.20E+00	6.6E+03	0	0	0
P 0.1	1.5E+00	7.70E-01	2.3E+03	0	0	0
Q 0.1	9.0E-02	4.50E-02	1.4E+02	0	0	0
R 0.1	3.8E-01	1.90E-01	5.7E+02	0	0.00E+00	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc





Millstone Unit III Emergency Plan Exercise - 10/05/95

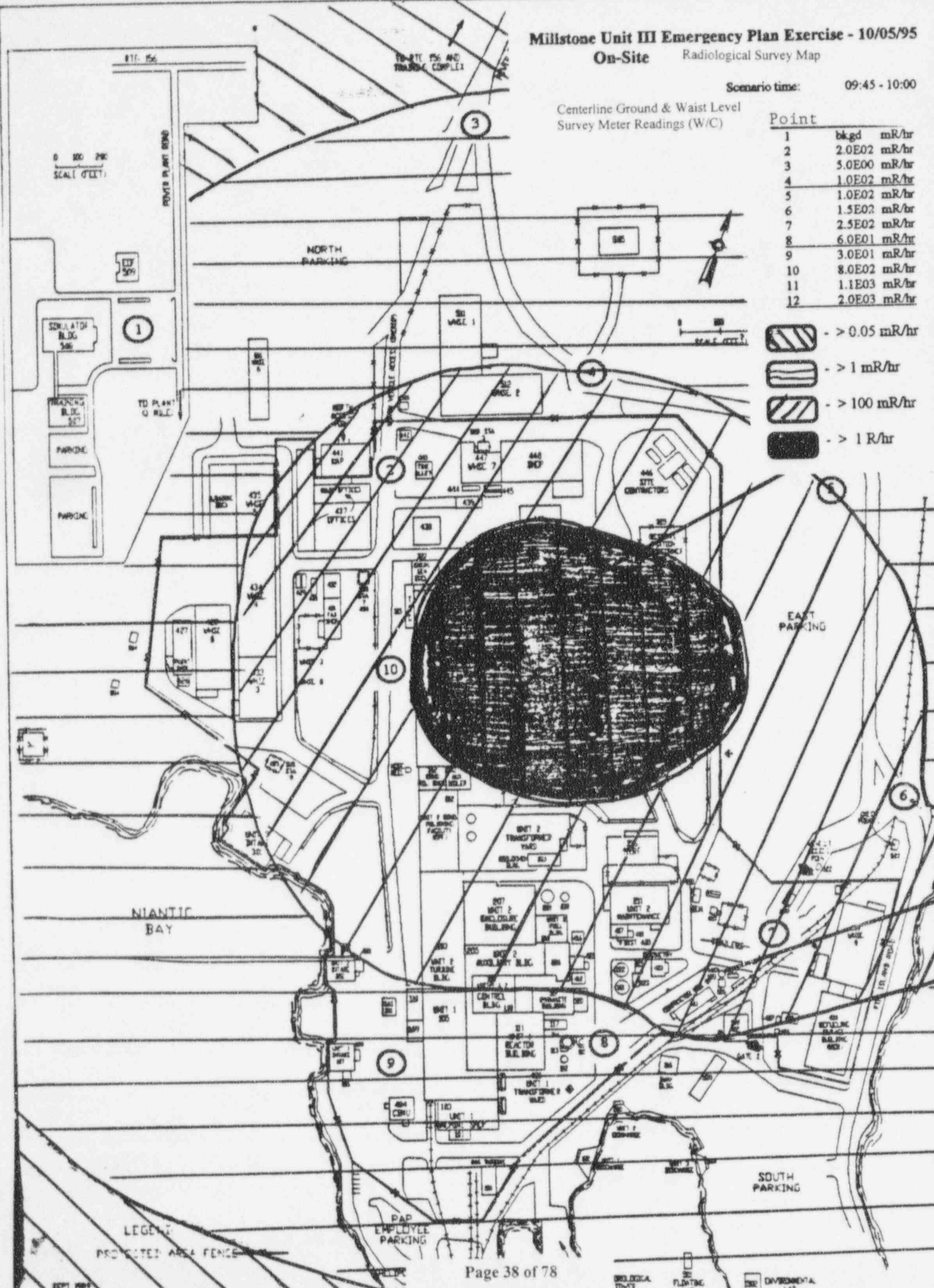
On-Site Radiological Survey Map

Scenario time: 09:45 - 10:00

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	2.0E02 mR/hr
3	5.0E00 mR/hr
4	1.0E02 mR/hr
5	1.0E02 mR/hr
6	1.5E02 mR/hr
7	2.5E02 mR/hr
8	6.0E01 mR/hr
9	3.0E01 mR/hr
10	8.0E02 mR/hr
11	1.1E03 mR/hr
12	2.0E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



LEGEND
PROJECTED AREA FENCE

Milistone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 10:00 - 10:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.0E+00	0
B 0.1	2.1E+00	2.10E+00	6.3E+03	0	1.1E-11	0
C 0.1	3.4E+01	1.70E+01	5.1E+04	5	1.4E-10	500
C 0.2	3.0E+00	1.50E+00	4.5E+03	0	2.9E-11	100
G 0.1	4.0E+00	2.00E+00	6.0E+03	0	0.0E+00	0
H 0.1	1.9E+00	9.50E-01	2.9E+03	0	0.0E+00	0
J 0.1	1.7E+00	8.40E-01	2.5E+03	0	0.0E+00	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0.0E+00	0
P 0.1	1.1E+00	5.30E-01	1.6E+03	0	0.0E+00	0
Q 0.1	7.4E-02	3.70E-02	1.1E+02	0	0.0E+00	0
R 0.1	3.6E-01	1.80E-01	5.4E+02	0	0.0E+00	0





Notes:
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m **3 is same as uCi/cc

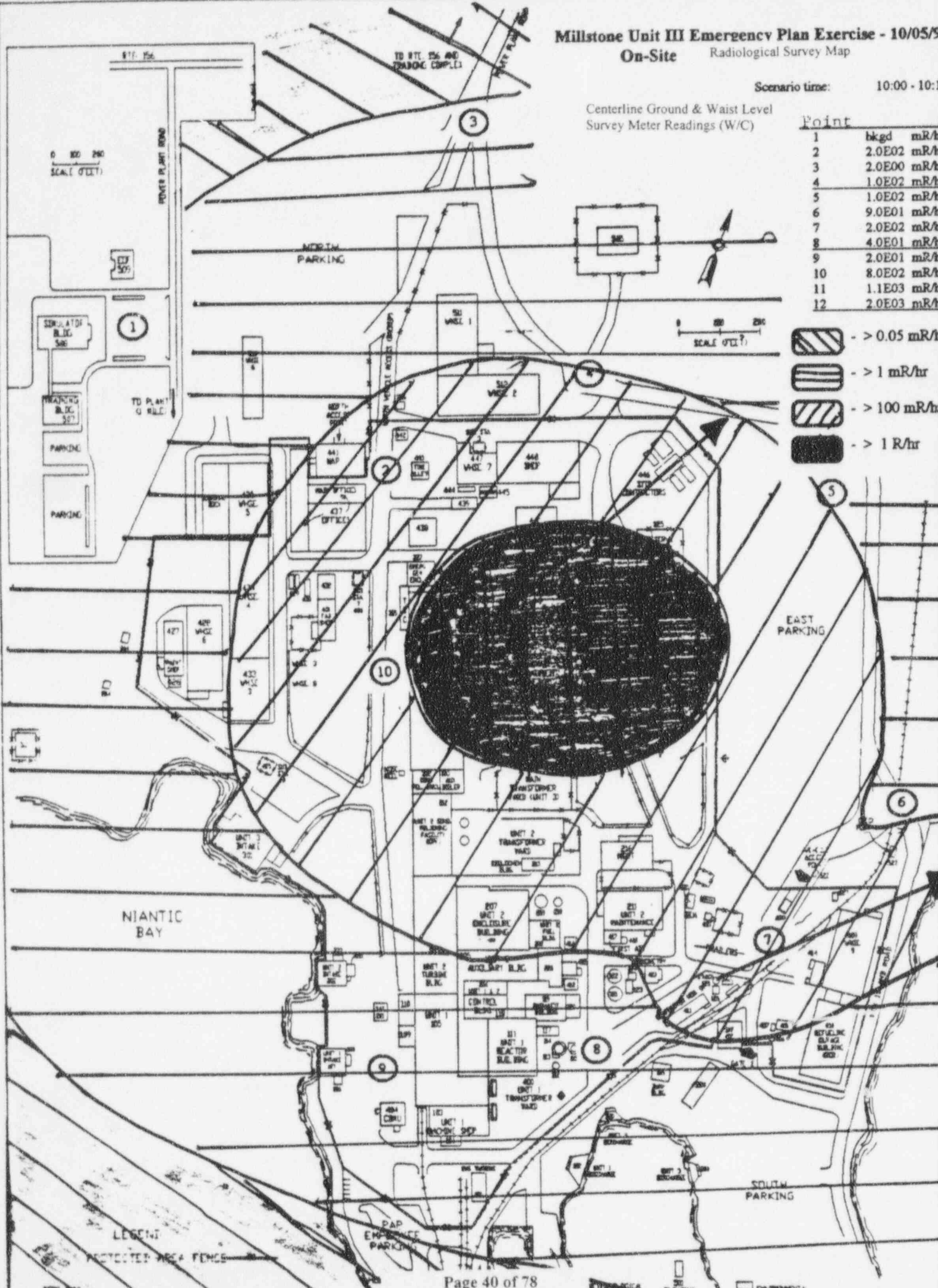
Millstone Unit III Emergency Plan Exercise - 10/05/99
On-Site Radiological Survey Map

Scenario time: 10:00 - 10:10

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	bkgd	mR/hr
1		
2	2.0E02	mR/hr
3	2.0E00	mR/hr
4	1.0E02	mR/hr
5	1.0E02	mR/hr
6	9.0E01	mR/hr
7	2.0E02	mR/hr
8	4.0E01	mR/hr
9	2.0E01	mR/hr
10	8.0E02	mR/hr
11	1.1E03	mR/hr
12	2.0E03	mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 10:15 - 10:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	2.4E-01	1.20E-01	3.6E+02	0	1.30E-13
B 0.1	7.0E+00	3.50E+00	1.1E+04	0	3.10E-11	100
C 0.1	4.6E+01	2.30E+01	6.9E+04	5	1.10E-10	400
C 0.2	4.2E+00	2.10E+00	6.3E+03	0	3.20E-11	100
G 0.1	3.6E+00	1.80E+00	5.4E+03	0	0	0
H 0.1	1.8E+00	9.00E-01	2.7E+03	0	0	0
J 0.1	1.7E+00	8.30E-01	2.5E+03	0	0	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
P 0.1	1.2E+00	5.80E-01	1.7E+03	0	0	0
Q 0.1	9.0E-02	4.50E-02	1.4E+02	0	0.00E+00	0
R 0.1	4.2E-01	2.10E-01	6.3E+02	0	0.00E+00	0





Notes:
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m**3 is same as uCi/cc

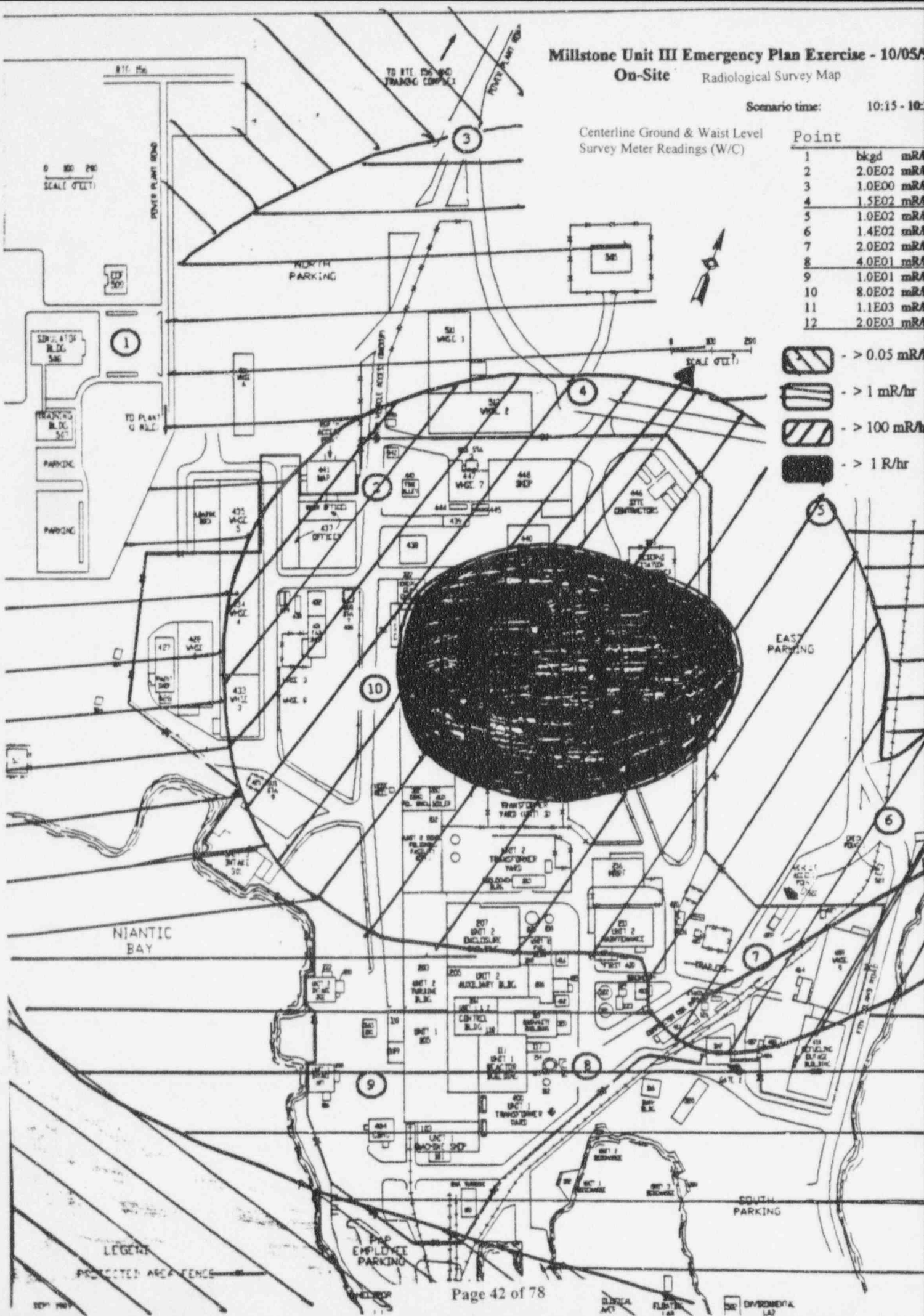
Millstone Unit III Emergency Plan Exercise - 10/05/01
On-Site Radiological Survey Map

Scenario time: 10:15 - 10:30

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	2.0E02 mR/hr
3	1.0E00 mR/hr
4	1.5E02 mR/hr
5	1.0E02 mR/hr
6	1.4E02 mR/hr
7	2.0E02 mR/hr
8	4.0E01 mR/hr
9	1.0E01 mR/hr
10	8.0E02 mR/hr
11	1.1E03 mR/hr
12	2.0E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 10:30 - 10:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.00E+00
B 0.1	4.4E+00	2.20E+00	6.6E+03	0	1.20E-11	0
C 0.1	3.4E+01	1.70E+01	5.1E+04	3	1.10E-10	300
C 0.2	2.6E+00	1.30E+00	3.9E+03	1	1.90E-11	100
G 0.1	4.0E+00	2.00E+00	6.0E+03	0	0	0
H 0.1	1.9E+00	9.30E-01	2.8E+03	0	0	0
J 0.1	1.6E+00	8.20E-01	2.5E+03	0	0	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
P 0.1	1.1E+00	5.30E-01	1.6E+03	0	0	0
Q 0.1	7.4E-02	3.70E-02	1.1E+02	0	0	0
R 0.1	3.4E-01	1.70E-01	5.1E+02	0	0.00E+00	0

Notes:
 LLD for an RO-2A is .0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is .2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

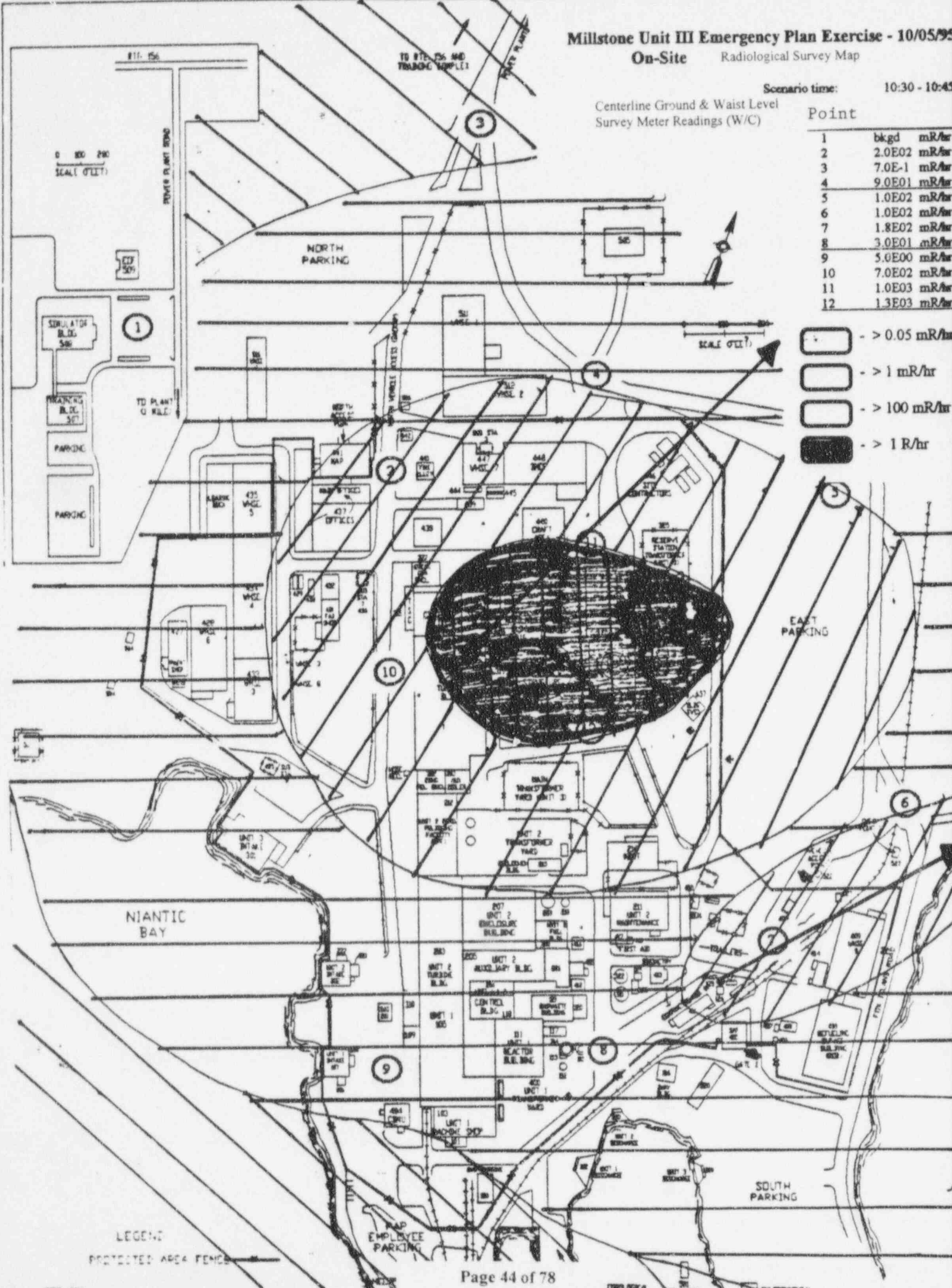
Millstone Unit III Emergency Plan Exercise - 10/05/95
On-Site Radiological Survey Map

Scenario time: 10:30 - 10:45

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	2.0E02 mR/hr
3	7.0E-1 mR/hr
4	9.0E01 mR/hr
5	1.0E02 mR/hr
6	1.0E02 mR/hr
7	1.8E02 mR/hr
8	3.0E01 mR/hr
9	5.0E00 mR/hr
10	7.0E02 mR/hr
11	1.0E03 mR/hr
12	1.3E03 mR/hr

- > 0.05 mR/hr
- > 1 mR/hr
- > 100 mR/hr
- > 1 R/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 10:45 - 11:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.5E-01	7.40E-02	2.2E+02	0	0.00E+00	0
B 0.1	3.6E+00	1.80E+00	5.4E+03	0	6.90E-12	0
C 0.1	3.6E+01	1.80E+01	5.4E+04	0	1.20E-10	300
C 0.2	2.2E+00	1.10E+00	3.3E+03	0	1.50E-11	0
G 0.1	2.6E+00	1.30E+00	3.9E+03	0	0	0
H 0.1	1.3E+00	6.60E-01	2.0E+03	0	0	0
J 0.1	1.2E+00	6.00E-01	1.8E+03	0	0	0
K 0.1	2.0E+00	1.00E+00	3.0E+03	0	0	0
P 0.1	8.2E-01	4.10E-01	1.2E+03	0	0	0
Q 0.1	5.8E-02	2.90E-02	8.7E+01	0	0	0
R 0.1	2.8E-01	1.40E-01	4.2E+02	0	0.00E+00	0





Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

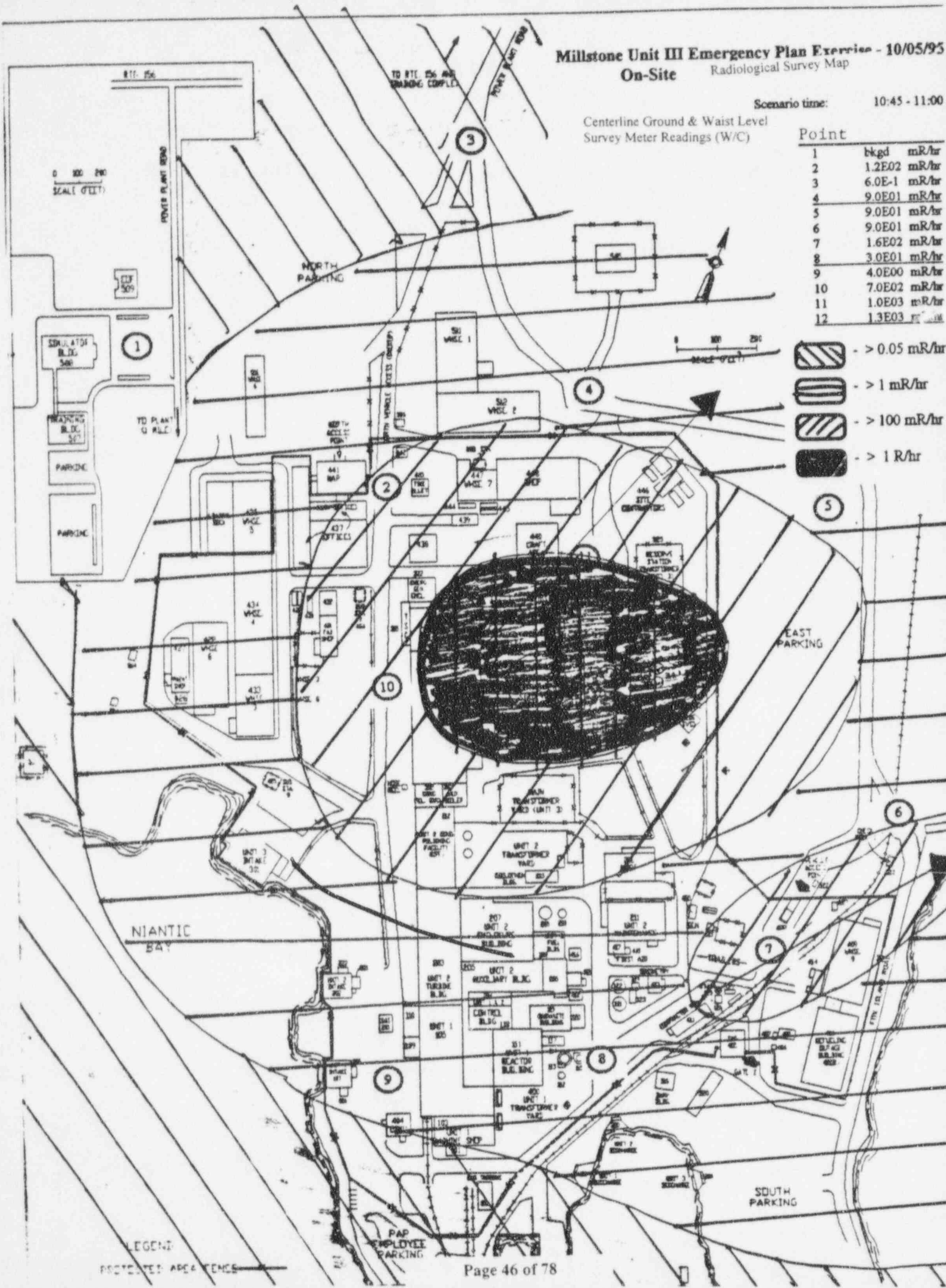
Millstone Unit III Emergency Plan Exercise - 10/05/95
On-Site Radiological Survey Map

Scenario time: 10:45 - 11:00

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	Reading
1	bkgd mR/hr
2	1.2E02 mR/hr
3	6.0E-1 mR/hr
4	9.0E01 mR/hr
5	9.0E01 mR/hr
6	9.0E01 mR/hr
7	1.6E02 mR/hr
8	3.0E01 mR/hr
9	4.0E00 mR/hr
10	7.0E02 mR/hr
11	1.0E03 mR/hr
12	1.3E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



LEGEND
 PROTECTED AREA FENCE

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 11:00 - 11:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.6E-01	8.10E-02	2.4E+02	0	0	0
B 0.1	4.0E+00	2.00E+00	6.0E+03	0	2.30E-12	0
C 0.1	5.4E+01	2.70E+01	8.1E+04	10	3.60E-10	100
C 0.2	5.0E+00	2.50E+00	7.5E+03	0	4.90E-11	0
G 0.1	2.0E+00	9.80E-01	2.9E+03	0	0	0
H 0.1	1.0E+00	5.10E-01	1.5E+03	0	0	0
J 0.1	9.8E-01	4.90E-01	1.5E+03	0	0	0
K 0.1	1.7E+00	8.50E-01	2.6E+03	0	0	0
P 0.1	7.2E-01	3.60E-01	1.1E+03	0	0	0
Q 0.1	5.6E-02	2.80E-02	8.4E+01	0	0	0
R 0.1	3.0E-01	1.50E-01	4.5E+02	0	0	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 11:15 - 11:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.6E-01	8.20E-02	2.5E+02	0	0.00E+00	0
B 0.1	5.2E+00	2.60E+00	7.8E+03	0	1.80E-11	0
C 0.1	4.8E+01	2.40E+01	7.2E+04	3	1.10E-10	300
C 0.2	4.2E+00	2.10E+00	6.3E+03	1	2.20E-11	100
G 0.1	1.5E+00	7.70E-01	2.3E+03	0	0	0
H 0.1	8.4E-01	4.20E-01	1.3E+03	0	0	0
J 0.1	8.4E-01	4.20E-01	1.3E+03	0	0	0
K 0.1	1.5E+00	7.50E-01	2.3E+03	0	0	0
P 0.1	6.6E-01	3.30E-01	9.9E+02	0	0	0
Q 0.1	5.6E-02	2.80E-02	8.4E+01	0	0	0
R 0.1	3.0E-01	1.50E-01	4.5E+02	0	0.00E+00	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

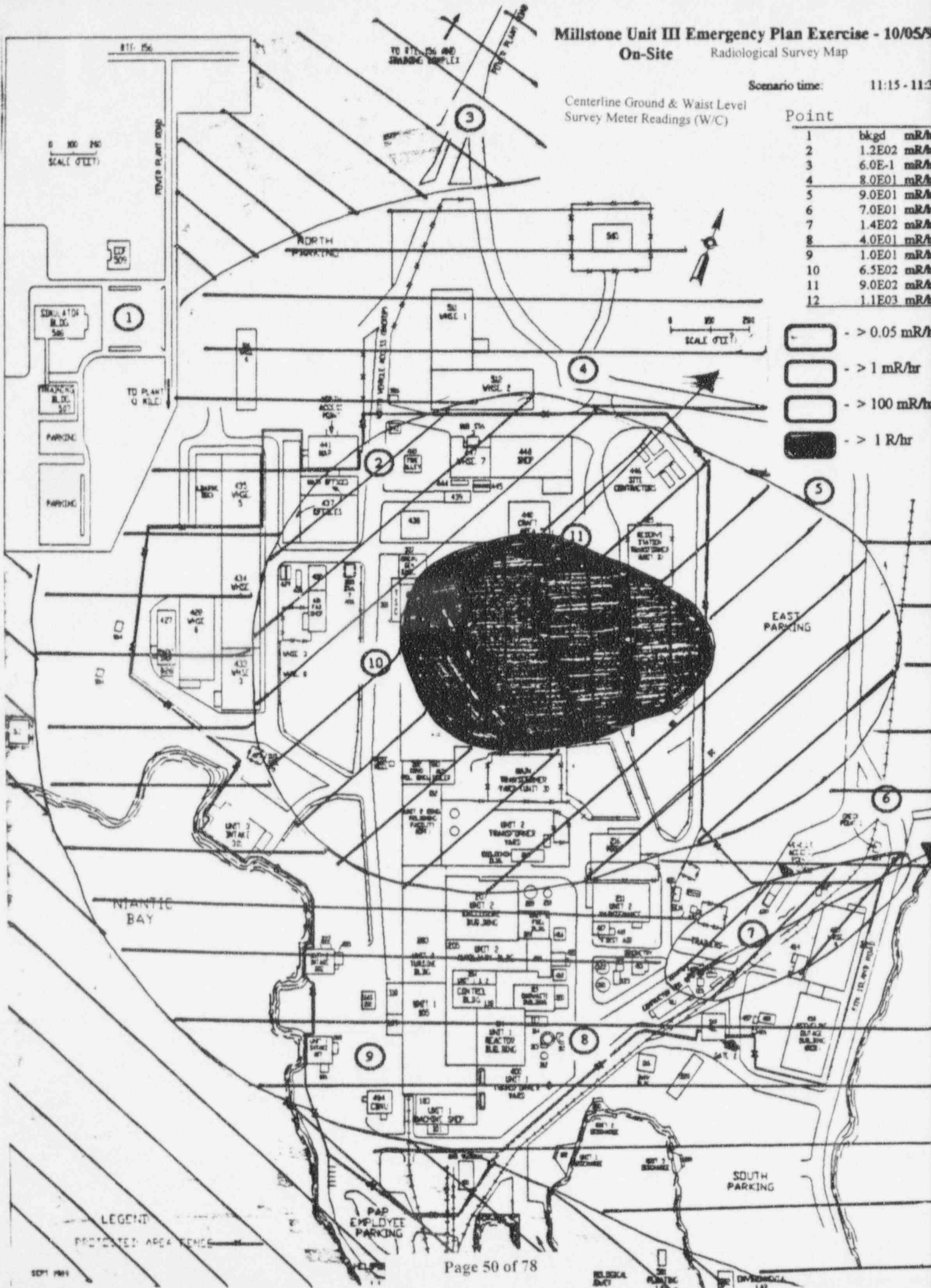
Millstone Unit III Emergency Plan Exercise - 10/05/99
On-Site Radiological Survey Map

Scenario time: 11:15 - 11:30

Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Point	bkgd	mR/hr
1		
2	1.2E02	mR/hr
3	6.0E-1	mR/hr
4	8.0E01	mR/hr
5	9.0E01	mR/hr
6	7.0E01	mR/hr
7	1.4E02	mR/hr
8	4.0E01	mR/hr
9	1.0E01	mR/hr
10	6.5E02	mR/hr
11	9.0E02	mR/hr
12	1.1E03	mR/hr

- > 0.05 mR/hr
- > 1 mR/hr
- > 100 mR/hr
- > 1 R/hr



LEGEND
 PROTECTED AREA FENCE

RADIOLOGICAL AND CHEMISTRY DATA

Off-site Radiological Data

Note: Off-site radiological data is provided as a function of time and location. The data was generated using ADAM and radiological engineering estimates. During the exercise, monitoring teams will be providing information as they demonstrate their monitoring capability.

Tables and Maps are provided from 0900-1130

1. The iodine concentration ($C_{i,m}^{**3}$) is provided only after an air sample has been analyzed by the laboratory. The values in most cases are therefore "informational use only".
2. The survey meter readings are for both waist and ground level.
3. The term background reflects current ambient conditions.

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 09:00 - 09:15

Sample Point	GROUND AND WAIST LEVEL SURVY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	C 1.1	2.2E-01	1.1E-01	3.3E+02	0	3.40E-11
C 1.2	1.4E-01	7.0E-02	2.1E+02	0	2.10E-11	10
D 1.1	1.6E-01	3.0E-02	2.4E+02	0	2.60E-13	0




Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

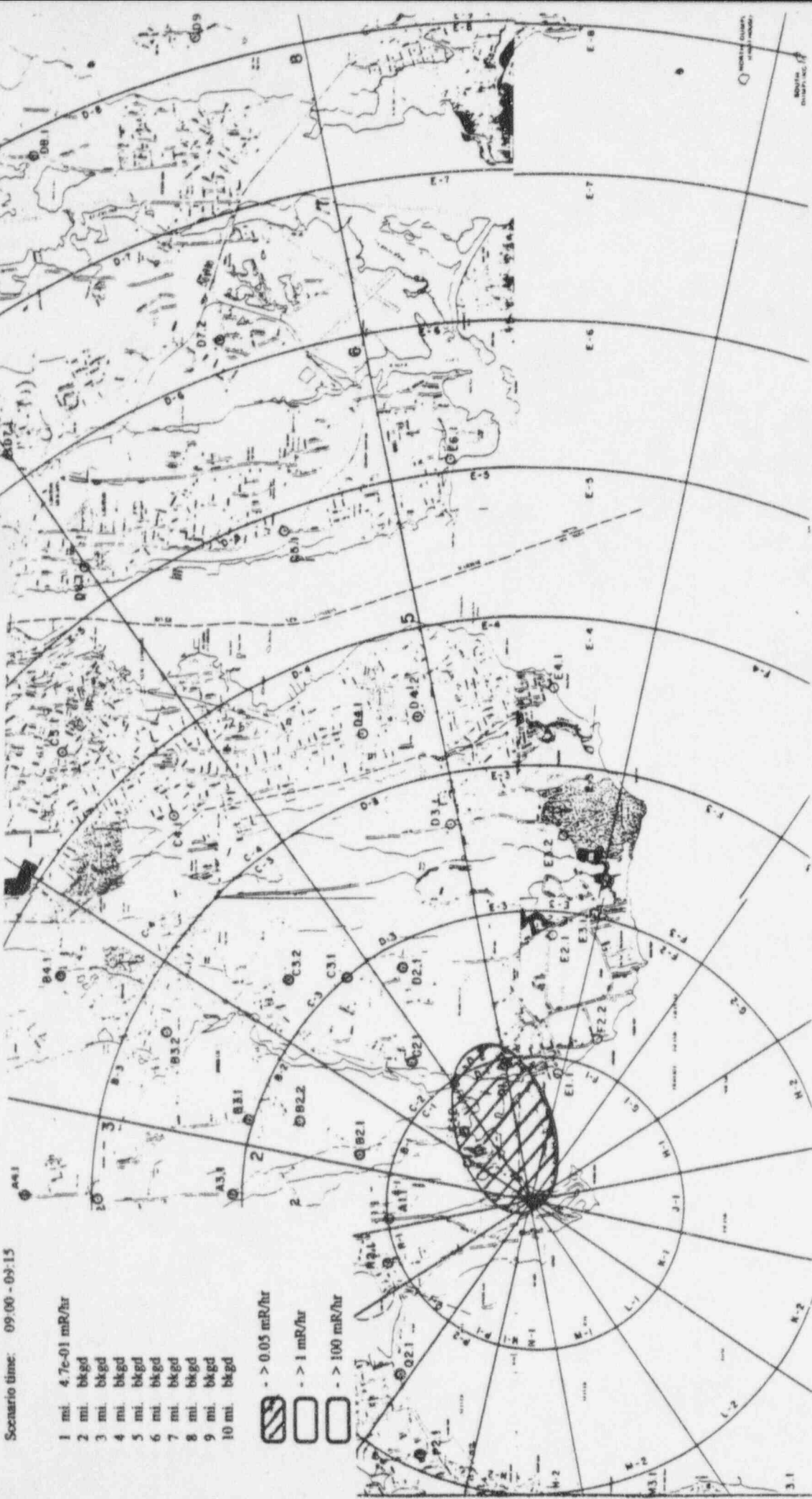
Milestone Unit III Emergency Plan Exercise - 10/05/95
Radiological Survey Map

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Scenario time: 09:00 - 09:15

- 1 mi. 4.7e-01 mR/hr
- 2 mi. bkgd
- 3 mi. bkgd
- 4 mi. bkgd
- 5 mi. bkgd
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 09:15 - 09:30




Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Background	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
C 1.1	4.6E-01	2.3E-01	6.9E+02	5	1.30E-10	50
C 1.2	3.0E-01	1.5E-01	4.5E+02	0	9.40E-11	40
C 2.1	2.0E-01	1.0E-01	3.0E+02	0	5.80E-11	20
D 1.1	2.4E-01	1.2E-01	3.6E+02	0	1.50E-13	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

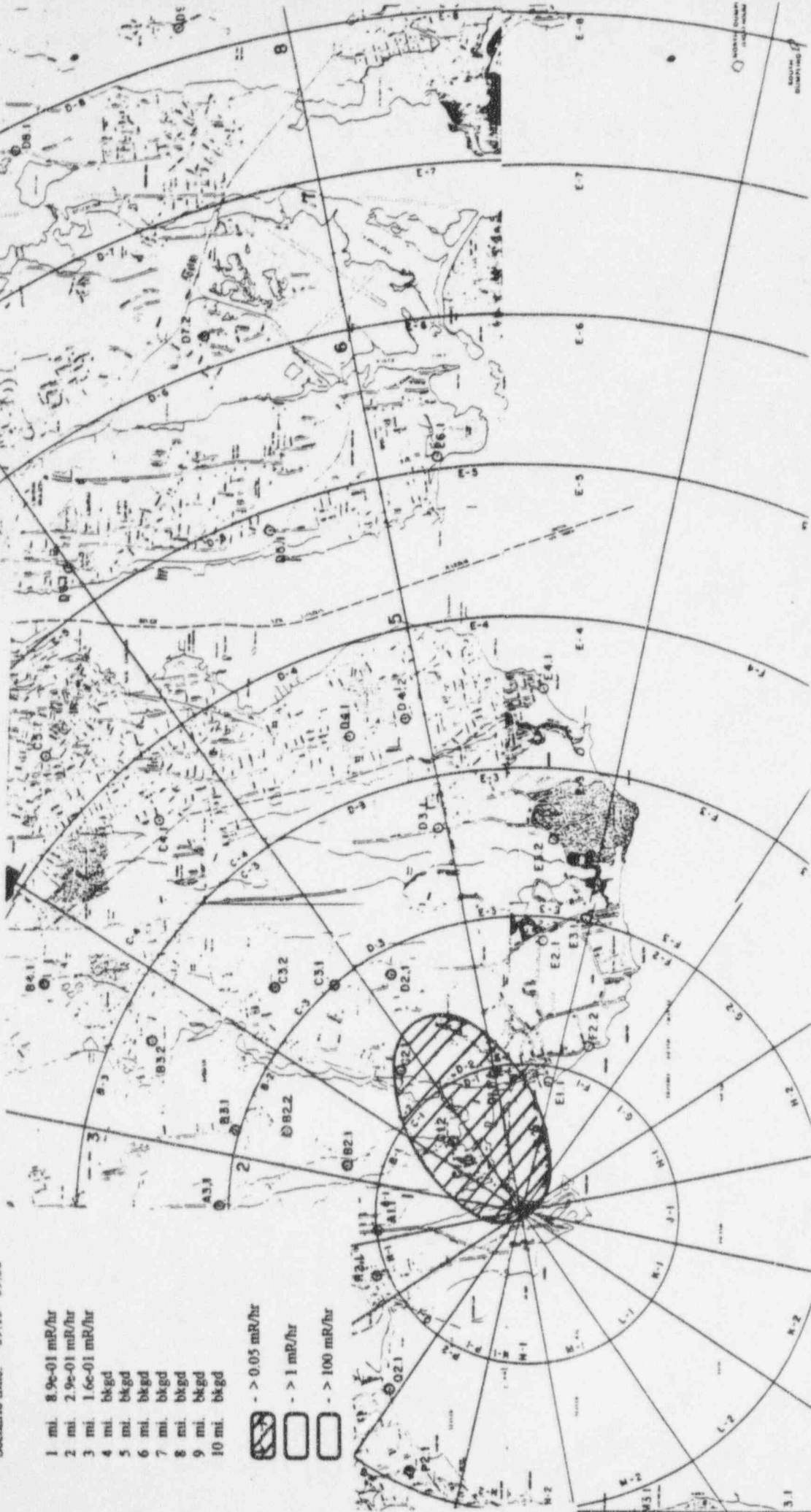
Scenario time: 09:15 - 09:30

- 1 mi. 8.9e-01 mR/hr
- 2 mi. 2.9e-01 mR/hr
- 3 mi. 1.6e-01 mR/hr
- 4 mi. bkgd
- 5 mi. bkgd
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map



Millstone Unit III Emergency Plan Exercise - 10/05/85

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 09:30 - 09:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	C 1.1	1.5E+01	7.4E+00	2.2E+04	0	3.80E-11
C 1.2	7.0E+00	3.5E+00	1.1E+04	0	2.20E-11	10
C 2.1	7.8E-01	3.9E-01	1.2E+03	0	5.00E-12	0
D 1.1	2.4E+02	1.2E+02	3.6E+05	190	4.90E-09	10000
D 2.1	2.4E-01	1.2E-01	3.6E+02	0	3.50E-12	0
D 3.1	1.4E-01	7.0E-02	2.1E+02	0	8.80E-11	30
D 4.1	2.0E-01	1.0E-01	3.0E+02	5	1.10E-10	40
E 1.1	9.0E+00	4.5E+00	1.4E+04	0	2.30E-13	0
E 2.1	5.0E-01	2.5E-01	7.5E+02	0	0.00E+00	0
F 2.2	3.8E-01	1.9E-01	5.7E+02	0	0.00E+00	0




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Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

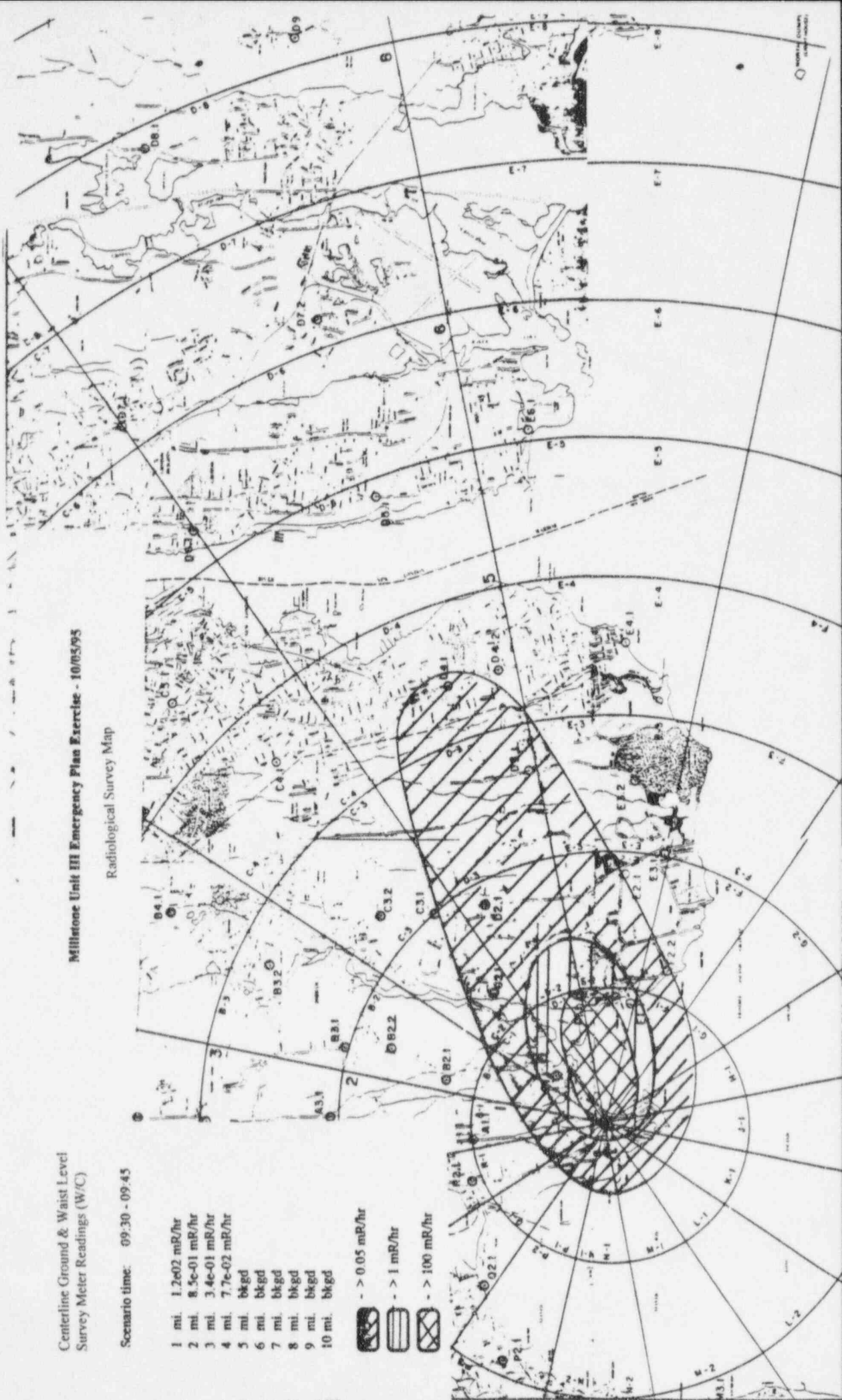
Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Scenario time: 09:30 - 09:45

- 1 mi. 1.2e02 mR/hr
- 2 mi. 8.5e-01 mR/hr
- 3 mi. 3.4e-01 mR/hr
- 4 mi. 7.7e-02 mR/hr
- 5 mi. bkgd
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Survey Map



Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 09:45 - 10:00

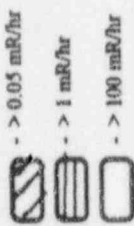
Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Oper:	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
C 1.1	1.1E+01	5.3E+00	1.6E+04	0	5.30E-11	20
C 1.2	5.6E+00	2.8E+00	8.4E+03	0	5.70E-11	20
C 2.1	2.0E+00	1.0E+00	3.0E+03	15	3.70E-10	130
C 3.1	1.1E+00	5.3E-01	1.6E+03	10	2.00E-10	70
C 3.2	3.0E-01	1.5E-01	4.5E+02	0	5.40E-11	20
D 1.1	1.2E+02	6.1E+01	1.8E+05	5	1.40E-10	50
D 2.1	2.6E+00	1.3E+00	3.9E+03	15	4.10E-10	150
D 3.1	9.0E+01	4.5E+01	1.4E+05	950	2.60E-08	*****
D 4.1	1.9E-01	9.7E-02	2.9E+02	5	1.70E-10	60
D 4.2	2.6E+00	1.3E+00	3.9E+03	100	2.80E-09	1000
E 1.1	4.6E+00	2.3E+00	6.9E+03	0	4.30E-12	0
E 2.1	1.5E+00	7.5E-01	2.3E+03	0	1.50E-11	10
E 3.1	9.6E-02	4.8E-02	1.4E+02	0	4.60E-13	0
E 3.2	1.9E-01	9.6E-02	2.9E+02	0	5.60E-13	0
F 2.2	2.0E-01	1.0E-01	3.0E+02	0	3.50E-13	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

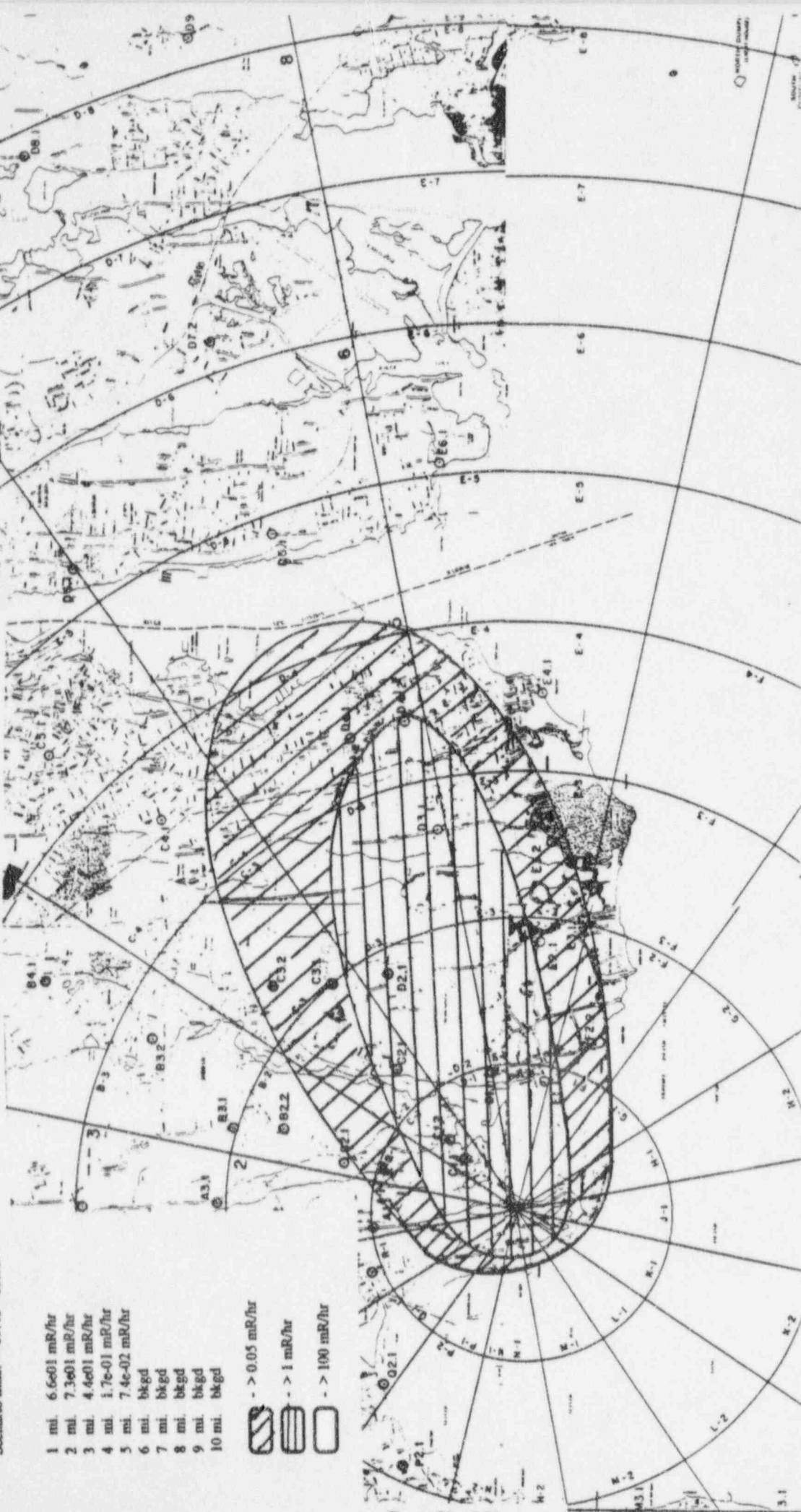
Scenario time: 09:45 - 10:00

- 1 mi. 6.6e-01 mR/hr
- 2 mi. 7.3e-01 mR/hr
- 3 mi. 4.4e-01 mR/hr
- 4 mi. 1.7e-01 mR/hr
- 5 mi. 7.4e-02 mR/hr
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd



Milestone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map



Mistone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:00 - 10:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.2	1.2E-01	6.2E-02	1.9E+02	0	2.30E-11	10
B 3.2	9.2E-02	4.6E-02	1.4E+02	0	1.50E-11	10
C 1.1	1.7E+01	8.3E+00	2.5E+04	0	8.00E-11	30
C 1.2	9.2E+00	4.6E+00	1.4E+04	0	4.60E-11	20
C 2.1	3.0E+00	1.5E+00	4.5E+03	5	1.40E-10	50
C 3.1	2.6E+00	1.3E+00	3.9E+03	20	5.00E-10	180
C 3.2	2.2E+00	1.1E+00	3.3E+03	15	4.10E-10	150
C 4.1	9.4E-01	4.7E-01	1.4E+03	5	1.40E-10	50
C 5.1	1.8E-01	8.8E-02	2.6E+02	0	2.60E-11	10
D 1.1	1.6E+01	8.1E+00	2.4E+04	0	4.70E-12	0
D 2.1	4.0E+00	2.0E+00	6.0E+03	30	8.20E-10	300
D 3.1	4.0E+00	2.0E+00	6.0E+03	150	3.90E-09	1000
D 4.1	1.6E+01	7.9E+00	2.4E+04	600	1.60E-08	6000
D 4.2	1.4E+01	7.0E+00	2.1E+04	550	1.50E-08	5000
D 5.1	3.2E+00	1.6E+00	4.8E+03	90	2.40E-09	900
D 7.2	1.1E-01	5.5E-02	1.7E+02	0	7.80E-11	30
E 1.1	7.4E-01	3.7E-01	1.1E+03	0	1.10E-13	0
E 6.1	1.6E-01	8.1E-02	2.4E+02	5	1.10E-10	40

Notes
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

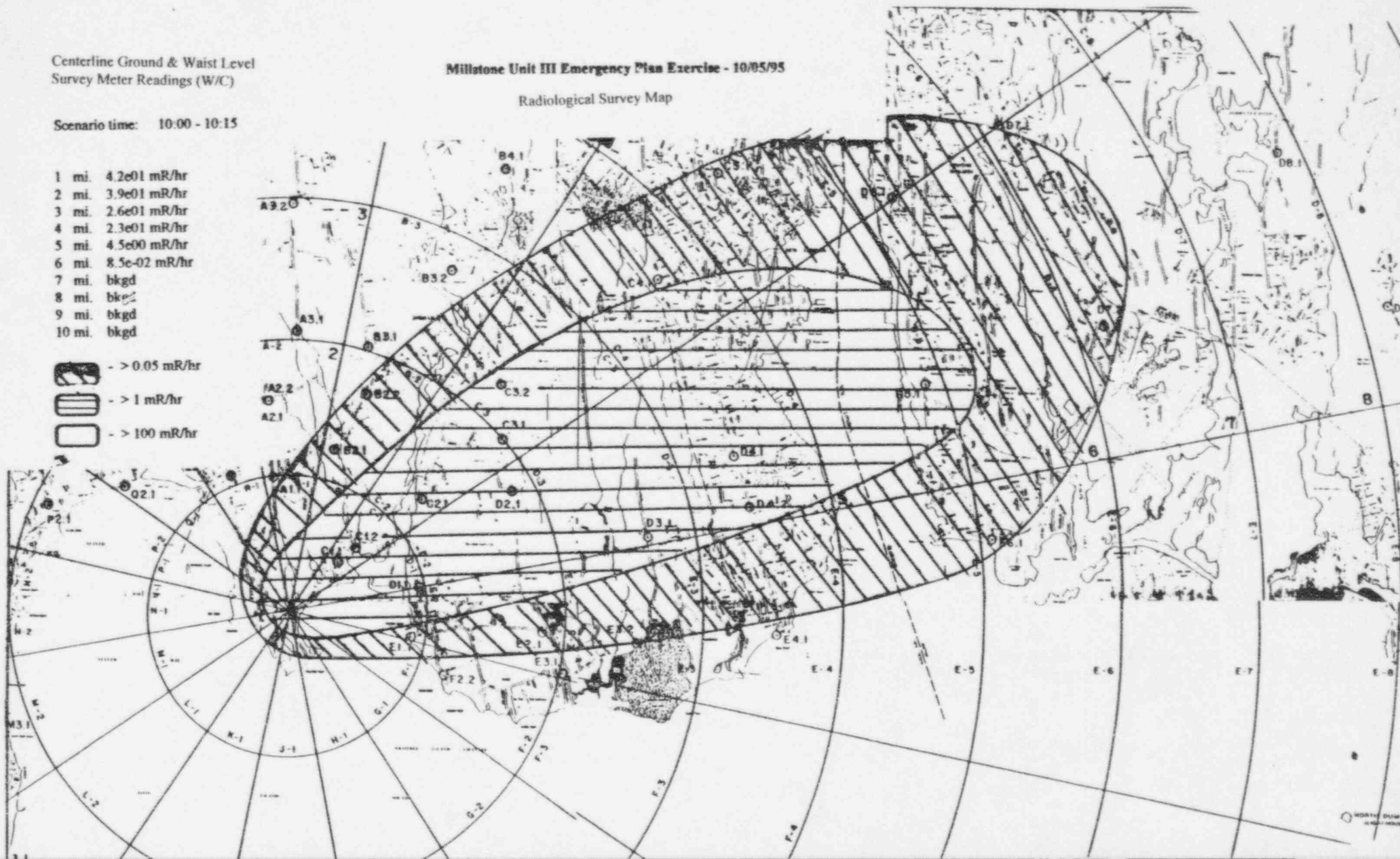
Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map

Scenario time: 10:00 - 10:15

- 1 mi. 4.2e01 mR/hr
- 2 mi. 3.9e01 mR/hr
- 3 mi. 2.6e01 mR/hr
- 4 mi. 2.3e01 mR/hr
- 5 mi. 4.5e00 mR/hr
- 6 mi. 8.5e-02 mR/hr
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:15 - 10:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.1	2.8E-01	1.4E-01	4.2E+02	0	1.30E-11	0
B 2.2	3.4E-01	1.7E-01	5.1E+02	0	5.70E-11	20
B 3.1	1.6E-01	8.0E-02	2.4E+02	0	3.50E-11	10
B 3.2	4.4E-01	2.2E-01	6.6E+02	0	8.30E-11	30
B 4.1	3.0E-01	1.5E-01	4.5E+02	0	4.90E-11	20
C 1.1	2.4E+01	1.2E+01	3.6E+04	0	7.20E-11	20
C 1.2	1.3E+01	6.6E+00	2.0E+04	0	3.90E-11	10
C 2.1	3.5E+00	1.8E+00	5.4E+03	0	6.70E-11	20
C 3.1	1.5E+00	7.4E-01	2.2E+03	10	2.60E-10	80
C 3.2	1.7E+00	8.3E-01	2.5E+03	10	3.60E-10	100
C 4.1	1.3E+00	6.5E-01	2.0E+03	10	2.10E-10	70
C 5.1	1.0E+00	5.1E-01	1.5E+03	5	1.60E-10	50
C 6.1	3.8E-01	1.9E-01	5.7E+02	0	6.10E-11	20
D 1.1	7.2E+00	3.6E+00	1.1E+04	0	8.60E-13	0
D 2.1	1.1E+01	5.7E+00	1.7E+04	250	7.60E-09	2500
D 3.1	1.8E-01	9.0E-02	2.7E+02	0	2.80E-11	10
D 4.1	1.1E+01	5.6E+00	1.7E+04	320	1.00E-08	20000
D 4.2	2.0E-01	1.0E-01	3.0E+02	10	3.90E-10	150
D 5.1	2.6E+01	1.3E+01	3.9E+04	580	1.80E-08	50000
D 7.1	1.2E-01	6.0E-02	1.8E+02	0	1.80E-11	10
D 7.2	8.6E+00	4.3E+00	1.3E+04	210	6.40E-09	2000
E 1.1	4.0E-01	2.0E-01	6.0E+02	0	2.00E-14	0




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Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-1 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

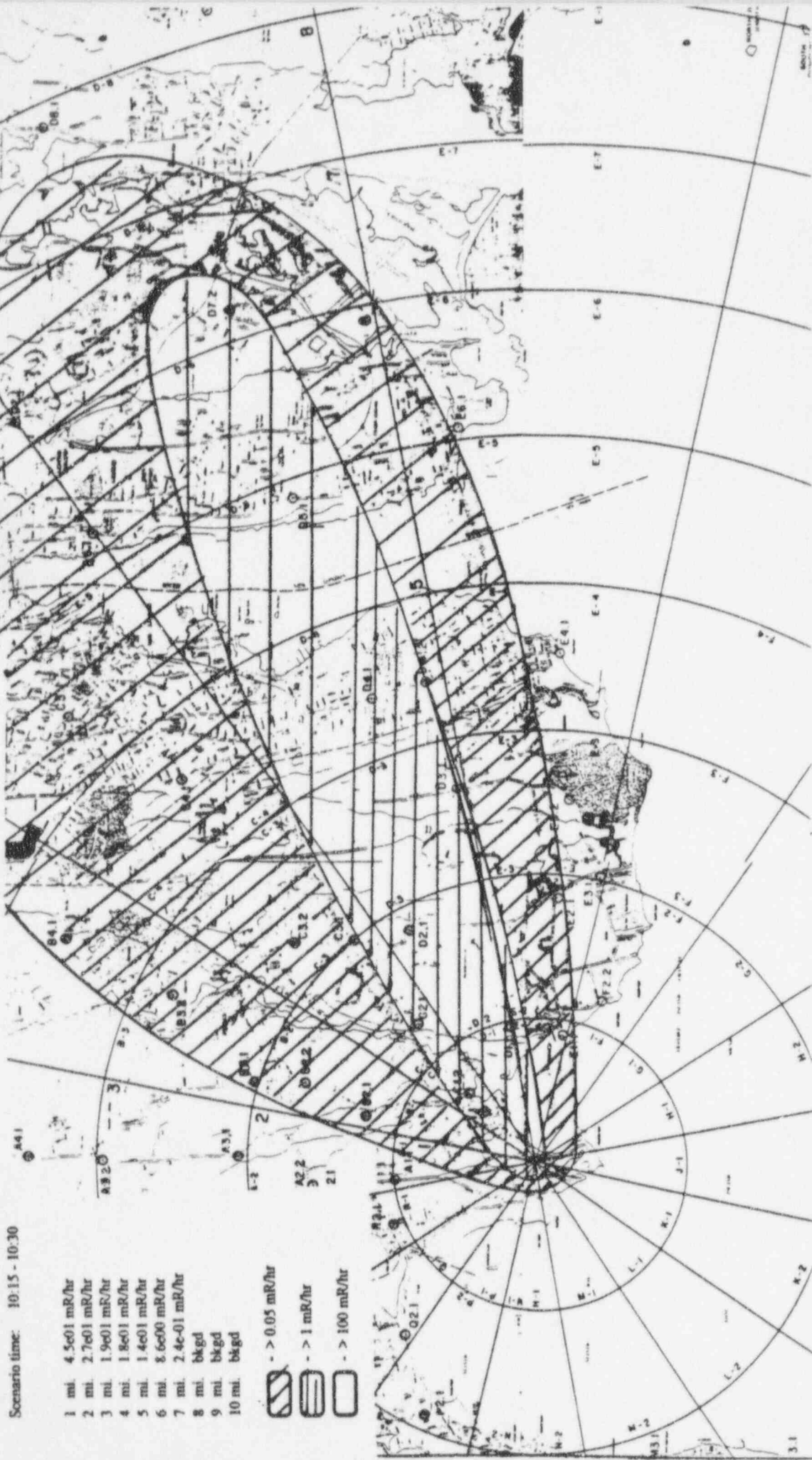
Scenario time: 10:15 - 10:30

- 1 mi. 4.5e01 mR/hr
- 2 mi. 2.7e01 mR/hr
- 3 mi. 1.9e01 mR/hr
- 4 mi. 1.8e01 mR/hr
- 5 mi. 1.4e01 mR/hr
- 6 mi. 8.6e00 mR/hr
- 7 mi. 2.4e-01 mR/hr
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 10:30 - 10:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.1	1.0E-01	5.0E-02	1.5E+02	0	2.10E-12	0
B 2.2	1.6E-01	8.0E-02	2.4E+02	0	1.30E-11	0
B 3.1	1.0E-01	5.0E-02	1.5E+02	0	1.40E-11	0
B 3.2	3.6E-01	1.8E-01	5.4E+02	0	8.00E-11	20
B 4.1	3.4E-01	1.7E-01	5.1E+02	0	6.20E-11	20
B 6.1	3.4E-01	1.7E-01	5.1E+02	0	5.60E-11	20
C 1.1	1.7E+01	8.3E+00	2.5E+04	0	6.60E-11	20
C 1.2	9.0E+00	4.5E+00	1.4E+04	0	3.60E-11	10
C 2.1	2.4E+00	1.2E+00	3.6E+03	0	1.90E-11	10
C 3.1	1.4E+00	7.1E-01	2.1E+03	5	1.30E-10	40
C 3.2	1.5E+00	7.4E-01	2.2E+03	10	2.30E-10	70
C 4.1	8.6E-01	4.3E-01	1.3E+03	5	1.60E-10	50
C 5.1	9.4E-01	4.7E-01	1.4E+03	5	1.60E-10	50
C 6.1	4.4E-01	2.2E-01	6.6E+02	0	7.40E-11	20
C 7.1	5.6E-01	2.8E-01	8.4E+02	0	9.40E-11	30
D 1.1	1.2E+01	6.2E+00	1.9E+04	0	8.70E-13	0
D 2.1	7.8E+00	3.9E+00	1.2E+04	130	4.30E-09	1300
D 3.1	1.4E-01	7.0E-02	2.1E+02	0	1.20E-11	0
D 4.1	2.2E+00	1.1E+00	3.3E+03	120	4.10E-09	1200
D 5.1	1.4E+01	6.8E+00	2.0E+04	340	1.10E-08	3000
D 7.1	3.4E-01	1.7E-01	5.1E+02	0	5.70E-11	20
D 7.2	2.4E+01	1.2E+01	3.6E+04	520	1.70E-08	5000
D 8.1	2.4E-01	1.2E-01	3.6E+02	5	1.50E-10	50
D 9.1	6.2E-01	3.1E-01	9.3E+02	15	4.60E-10	150
E 1.1	6.2E-01	3.1E-01	9.3E+02	0	1.10E-14	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meier Readings (W/C)

Millstone Unit III Emergency Plan Exercise - 10/05/95

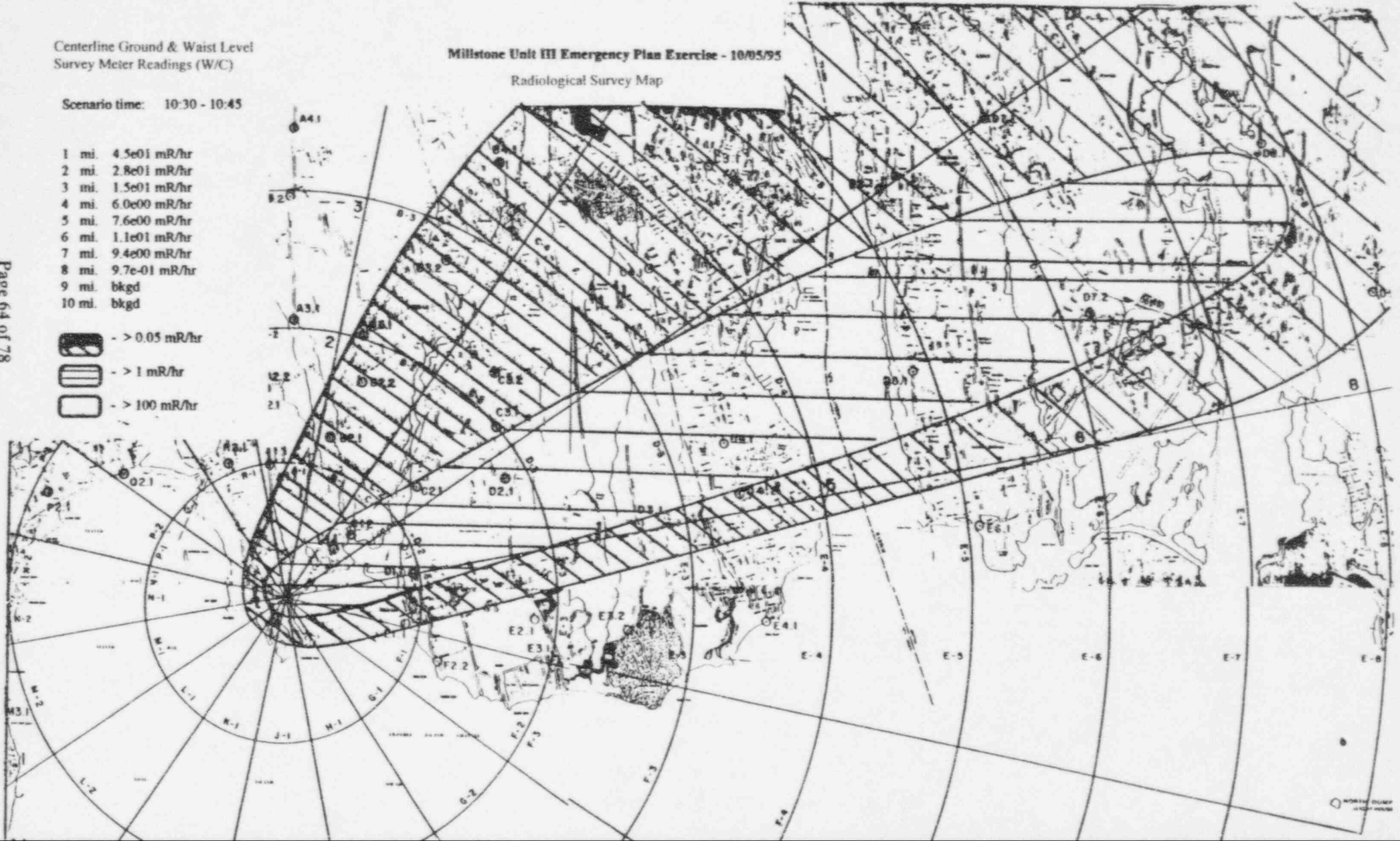
Radiological Survey Map

Scenario time: 10:30 - 10:45

- 1 mi. 4.5e01 mR/hr
- 2 mi. 2.8e01 mR/hr
- 3 mi. 1.5e01 mR/hr
- 4 mi. 6.0e00 mR/hr
- 5 mi. 7.6e00 mR/hr
- 6 mi. 1.1e01 mR/hr
- 7 mi. 9.4e00 mR/hr
- 8 mi. 9.7e-01 mR/hr
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr

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Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:45 - 11:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 3.2	1.6E-01	8.0E-02	2.4E+02	0	2.90E-11	10
B 4.1	1.6E-01	8.0E-02	2.4E+02	0	3.30E-11	10
B 6.1	3.2E-01	1.6E-01	4.8E+02	0	5.60E-11	20
C 1.1	1.7E+01	8.6E+00	2.6E+04	0	6.60E-11	20
C 1.2	1.0E+01	5.0E+00	1.5E+04	0	3.70E-11	10
C 2.1	3.2E+00	1.6E+00	4.8E+03	0	1.40E-11	0
C 3.1	1.4E+00	7.0E-01	2.1E+03	0	4.70E-11	10
C 3.2	1.1E+00	5.4E-01	1.6E+03	0	8.80E-11	30
C 4.1	8.2E-01	4.1E-01	1.2E+03	5	1.70E-10	50
C 5.1	8.0E-01	4.0E-01	1.2E+03	5	1.50E-10	40
C 6.1	3.8E-01	1.9E-01	5.7E+02	0	8.50E-11	20
C 7.1	6.2E-01	3.1E-01	9.3E+02	0	1.10E-10	30
C 9.1	2.8E-01	1.4E-01	4.2E+02	0	4.80E-11	10
C 9.2	2.2E-01	1.1E-01	3.3E+02	0	3.70E-11	10
C 9.3	3.2E-01	1.6E-01	4.8E+02	0	5.40E-11	20
D 1.1	5.2E+00	2.6E+00	7.8E+03	0	7.40E-13	0
D 2.1	1.7E+01	8.4E+00	2.5E+04	10	4.40E-10	130
D 3.1	1.2E-01	6.0E-02	1.8E+02	0	1.10E-11	0
D 4.1	9.8E-01	4.9E-01	1.5E+03	75	2.60E-09	750
D 5.1	4.2E+00	2.1E+00	6.3E+03	100	3.30E-09	1000
D 7.1	3.2E-01	1.6E-01	4.8E+02	0	7.30E-11	20
D 7.2	5.6E+00	2.8E+00	8.4E+03	120	4.20E-09	1200
D 8.1	5.2E+00	2.6E+00	7.8E+03	110	3.70E-09	1000
D 9.1	6.2E+00	3.1E+00	9.3E+03	130	4.50E-09	1300
D10.1	5.8E+00	2.9E+00	8.7E+03	120	4.20E-09	1200
D10.2	2.0E-01	1.0E-01	3.0E+02	5	1.30E-10	40
E 1.1	2.8E-01	1.4E-01	4.2E+02	0	1.10E-14	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

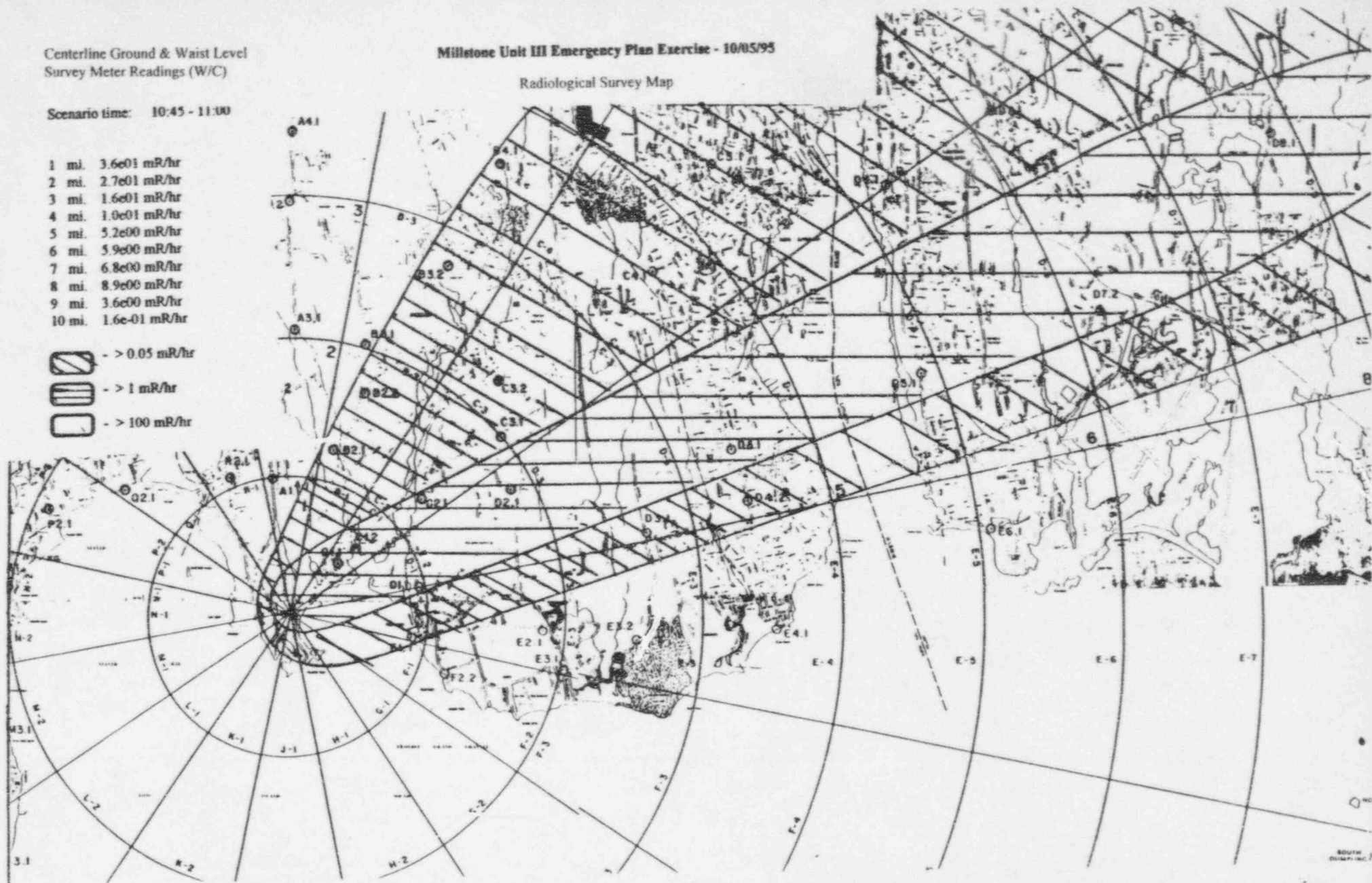
Milestone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map

Scenario time: 10:45 - 11:00

- 1 mi. 3.6e01 mR/hr
- 2 mi. 2.7e01 mR/hr
- 3 mi. 1.6e01 mR/hr
- 4 mi. 1.0e01 mR/hr
- 5 mi. 5.2e00 mR/hr
- 6 mi. 5.9e00 mR/hr
- 7 mi. 6.8e00 mR/hr
- 8 mi. 8.9e00 mR/hr
- 9 mi. 3.6e00 mR/hr
- 10 mi. 1.6e-01 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 11:00 - 11:15

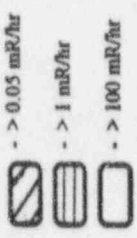
Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	B 6.1	2.2E-01	1.1E-01	3.3E+02	0	3.90E-11
C 1.1	3.2E+01	1.6E+01	4.8E+04	5	2.30E-10	60
C 1.2	2.0E+01	9.8E+00	2.9E+04	5	1.40E-10	40
C 2.1	6.8E+00	3.4E+00	1.0E+04	0	3.70E-11	10
C 3.1	2.2E+00	1.1E+00	3.3E+03	0	6.90E-11	20
C 3.2	1.5E+00	7.7E-01	2.3E+03	0	2.80E-11	10
C 4.1	7.4E-01	3.7E-01	1.1E+03	5	1.70E-10	50
C 5.1	7.0E-01	3.5E-01	1.1E+03	5	1.40E-10	40
C 6.1	7.6E-01	3.8E-01	1.1E+03	10	4.20E-10	120
C 7.1	6.0E-01	3.0E-01	9.0E+02	0	1.10E-10	30
C 9.1	3.4E-01	1.7E-01	5.1E+02	0	6.20E-11	20
C 9.2	2.4E-01	1.2E-01	3.6E+02	0	4.70E-11	10
C 9.3	4.0E-01	2.0E-01	6.0E+02	0	7.10E-11	20
D 1.1	2.0E+00	1.0E+00	3.0E+03	0	3.90E-14	0
D 2.1	3.4E+01	1.7E+01	5.1E+04	20	6.50E-10	180
D 3.1	2.0E-02	1.0E-02	3.0E+01	0	3.40E-13	0
D 4.1	1.2E-01	6.0E-02	1.8E+02	10	2.40E-10	70
D 5.1	1.1E+00	5.3E-01	1.6E+03	25	8.90E-10	250
D 7.1	7.4E-01	3.7E-01	1.1E+03	10	4.40E-10	120
D 7.2	5.8E-01	2.9E-01	8.7E+02	10	4.40E-10	120
D 8.1	9.2E+00	4.6E+00	1.4E+04	190	6.80E-09	1900
D 9.1	3.4E-01	1.7E-01	5.1E+02	10	2.60E-10	70
D10.1	3.6E+00	1.8E+00	5.4E+03	80	2.80E-09	800
D10.2	6.8E+00	3.4E+00	1.0E+04	150	5.20E-09	1500
E 1.1	1.2E-01	6.0E-02	1.8E+02	0	0.00E+00	0

Notes:
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m**3 is same as uCi/cc

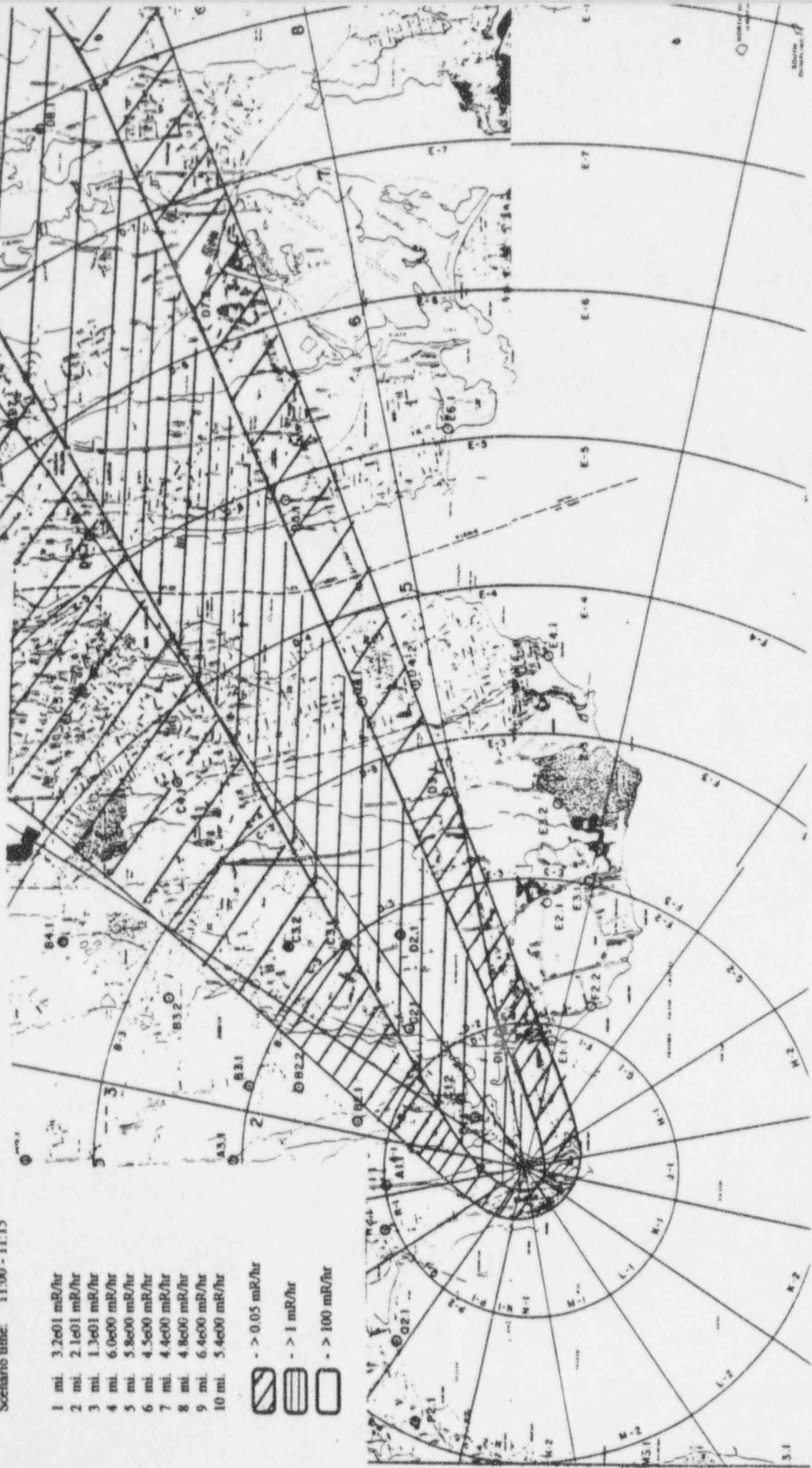
Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Scenario time: 11:00 - 11:15

- 1 mi. 3.2e01 mR/hr
- 2 mi. 2.1e01 mR/hr
- 3 mi. 1.3e01 mR/hr
- 4 mi. 6.0e00 mR/hr
- 5 mi. 5.8e00 mR/hr
- 6 mi. 4.5e00 mR/hr
- 7 mi. 4.4e00 mR/hr
- 8 mi. 4.8e00 mR/hr
- 9 mi. 6.4e00 mR/hr
- 10 mi. 5.4e00 mR/hr



Milestone Unit III Emergency Plan Exercise - 10/05/95
Radiological Survey Map



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 11:15 - 11:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.1	1.0E-01	5.0E-02	1.5E+02	0	9.70E-13	0
B 2.2	1.2E-01	6.0E-02	1.8E+02	0	1.20E-12	0
B 3.2	1.4E-01	7.0E-02	2.1E+02	0	1.60E-11	0
B 4.1	1.2E-01	6.0E-02	1.8E+02	0	2.70E-11	10
B 6.1	1.8E-01	9.0E-02	2.7E+02	0	3.60E-11	10
C 1.1	2.8E+01	1.4E+01	4.2E+04	0	6.90E-11	20
C 1.2	1.8E+01	9.1E+00	2.7E+04	0	3.70E-11	10
C 2.1	1.0E+01	5.1E+00	1.5E+04	0	2.40E-11	10
C 3.1	4.0E+00	2.0E+00	6.0E+03	0	5.90E-11	20
C 3.2	1.1E+00	5.3E-01	1.6E+03	0	3.20E-11	10
C 4.1	6.6E-01	3.3E-01	9.9E+02	10	3.10E-10	80
C 5.1	6.2E-01	3.1E-01	9.3E+02	0	1.30E-10	30
C 6.1	3.8E+00	1.9E+00	5.7E+03	80	3.10E-09	800
C 7.1	4.6E-01	2.3E-01	6.9E+02	0	9.00E-11	20
C 9.1	3.0E-01	1.5E-01	4.5E+02	0	5.70E-11	20
C 9.2	5.2E-01	2.6E-01	7.8E+02	10	2.80E-10	70
C 9.3	3.4E-01	1.7E-01	5.1E+02	0	6.40E-11	20
D 1.1	8.4E-01	4.2E-01	1.3E+03	0	2.00E-13	0
D 2.1	5.2E+00	2.6E+00	7.8E+03	0	5.10E-11	10
D 7.1	3.4E+00	1.7E+00	5.1E+03	70	2.60E-09	700
D 8.1	4.4E+00	2.2E+00	6.6E+03	90	3.40E-09	900
D10.1	1.2E-01	6.0E-02	1.8E+02	0	8.40E-11	20
D10.2	7.6E+00	3.8E+00	1.1E+04	150	5.60E-09	1500

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc.




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

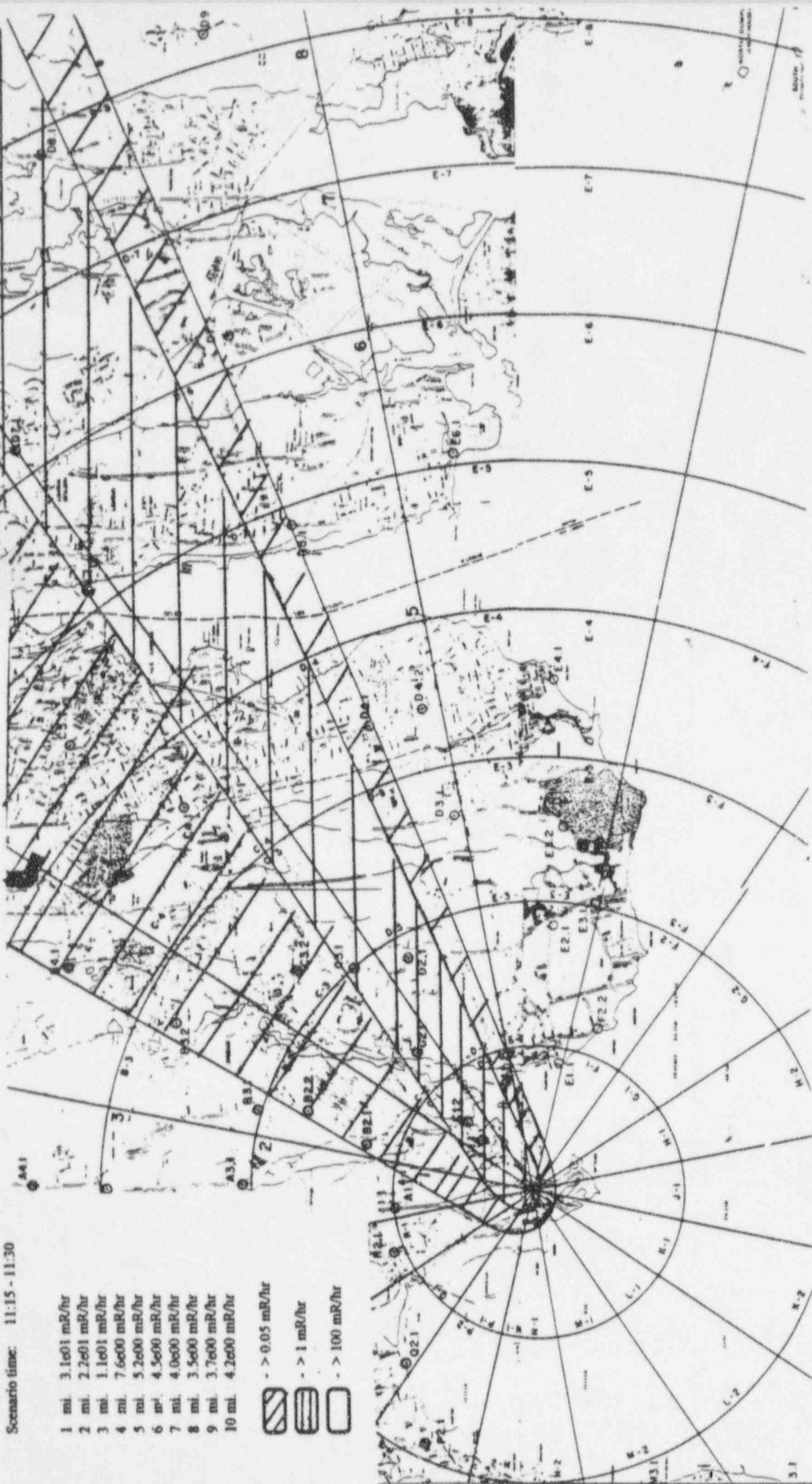
Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map

Scenario time: 11:15 - 11:30

- 1 mi. 3.1e01 mR/hr
- 2 mi. 2.2e01 mR/hr
- 3 mi. 1.1e01 mR/hr
- 4 mi. 7.6e00 mR/hr
- 5 mi. 5.2e00 mR/hr
- 6 mi. 4.5e00 mR/hr
- 7 mi. 4.0e00 mR/hr
- 8 mi. 3.5e00 mR/hr
- 9 mi. 3.7e00 mR/hr
- 10 mi. 4.2e00 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



**RADIOLOGICAL AND
CHEMISTRY DATA**

Chemistry Data

Intentionally Blank

1

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*****
* HILLSTONE NUCLEAR POWER STATION - UNIT 43 17-JUL-1995 17:37:50.47 *
*****
* Sample date/time.....: 17-JUL-1995 17:03:00.00
* Sample identification.: RCSD
* Sample quantity.....: 9.43000E+00 GM
* Sample geometry.....: 03
* Operator.....: GG
* Acquire Date...: 17-JUL-1995 17:15:36.86 | Dead Time (%)...: 7.00000E+00
* Prompt live time.....: 0 00:20:00.00 | Sensitivity.....: 4.00000
* Elapsed real time.....: 0 00:21:32.48 | Gaussian fit.....: 10.00000
* Elapsed live time.....: 0 00:20:00.00 | NPR Iterations...: 10
* Calib Date...: 28-JUL-1993 08:22:01.31 | NID Library.....: LIB1
* KeV/channel.....: 5.00599E-01 | Half life ratio..: 8.00000
* Offset from 0 energy...: -3.62786E-01 | Abundance limit..: 90.00000
* Quadratic coefficient...: -1.23505E-07 | Tolerance (keV)..: 1.00000
*****

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2. Normal RCS 100% Power

Review...: GG

Post-NID Peak Search Report

It	Energy	Area	Pkand	FWHM	Channel	Left	Pw	NErr	Fit	Nuclides
0	249.70	3487	28523	1.27	499.58	496	9	8.6		XE-135
0	307.17	854	22078	1.24	614.42	611	7	29.1		TC-101
0	364.71	530	9982	1.87	729.40	737	6	30.0		I-131
0	401.63	159	7417	1.03	803.17	802	7	90.2		SR-87
0	405.35	649	4991	1.35	810.61	809	7	21.7		I-134
0	408.96	381	7775	1.12	817.83	815	8	40.5		CS-132
0	433.44	380	7638	0.83	866.70	864	8	39.6		I-134
										I-135
0	462.70	2284	8128	1.45	925.23	921	10	7.7		CS-132
0	510.95	575723	17925	2.64	1021.66	1013	20	0.1		I-132
0	522.54	893	1724	1.23	1014.83	1041	9	9.0		I-132
3	526.56	529	951	1.19	1052.86	1050	16	9.6	9.30E-01	XF-135M
										I-135
3	529.88	3405	1420	1.37	1059.43	1050	16	2.6		I-133
0	540.83	531	1915	1.38	1081.38	1075	12	17.0		I-134
0	546.58	986	1891	1.48	1092.84	1089	12	9.4		I-135
										CS-132
										I-132
0	590.79	128	991	0.90	1181.23	1178	8	43.4		
0	595.33	725	1402	1.30	1190.31	1185	11	10.7		I-134
0	621.65	750	1335	1.48	1242.92	1238	10	9.8		I-132
										I-134
										RU-106
0	629.65	768	1813	1.66	1258.91	1251	14	12.3		I-132
0	650.49	96	1075	1.59	1300.57	1296	9	62.5		I-135
										I-132
3	657.53	195	994	1.98	1314.64	1310	18	30.8	1.52E+00	RR-89
										AC-110M
										NR-97
3	661.60	299	1074	1.91	1322.78	1310	18	23.0		CS-137
8	667.64	4303	896	1.45	1334.86	1330	17	2.0	2.85E+00	I-132
8	670.43	464	1450	2.69	1340.41	1330	17	22.6		I-132

It	Energy	Area	Bkand	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	677.42	572	971	2.00	1354.41	1349	29	11.0	8.62E+00	I-134 AG-110M
3	680.72	127	882	1.50	1361.00	1349	29	45.1		I-133
3	685.73	321	893	1.51	1371.00	1349	29	18.2		
0	727.21	243	634	1.44	1453.93	1450	9	19.7		I-132
0	766.40	325	685	1.49	1532.28	1526	12	17.0		I-132 RP-89
0	772.56	2878	760	1.52	1544.58	1538	13	2.7		I-132
0	810.86	1994	775	1.63	1621.14	1614	15	3.8		CO-60
0	835.70	921	797	3.01	1670.82	1662	18	7.9		HN-54 I-134
0	846.97	4716	713	1.55	1693.35	1688	13	1.9		I-134
0	857.11	385	485	1.88	1713.62	1708	11	12.2		I-134
5	871.51	310	533	2.52	1742.41	1735	21	17.6	4.39E+00	CS-138
5	875.84	211	436	2.23	1751.07	1735	21	19.8		I-133 I-132
0	883.96	3197	710	1.64	1767.31	1758	17	2.6		I-134 AG-110M
0	898.22	199	396	1.42	1795.80	1791	11	20.6		RP-89
6	948.00	355	353	2.68	1895.34	1889	27	11.8	1.64E+00	I-134
6	954.50	560	291	1.60	1908.33	1889	27	7.1		I-132
0	975.04	128	249	1.53	1949.40	1947	7	22.6		I-134
0	1009.69	941	531	1.53	2018.68	2013	15	6.2		CS-138
0	1031.95	381	487	1.67	2063.21	2055	15	13.6		RP-89
0	1038.96	333	397	1.84	2077.21	2071	13	13.5		I-135
0	1072.54	598	257	1.70	2144.37	2139	11	6.6		I-134
0	1124.42	121	442	2.50	2248.12	2238	18	42.1		I-135
2	1131.44	803	237	1.83	2262.15	2256	24	5.2	8.08E-01	I-135
2	1136.04	481	269	1.79	2271.37	2256	24	7.9		I-132 I-134
0	1173.26	197	346	1.97	2345.80	2339	13	20.8		I-132 CO-60
0	1248.19	269	230	1.87	2495.65	2491	13	13.1		RP-89
0	1260.37	912	205	1.91	2520.02	2514	16	4.8		I-135
0	1283.00	80	134	1.09	2545.28	2539	12	31.1		I-132
0	1332.30	162	141	1.60	2663.89	2658	15	17.9		CO-60
0	1368.62	1049	153	1.86	2736.54	2730	17	4.1		I-135 NA-24
0	1398.59	170	109	1.83	2796.50	2791	12	14.6		I-132
0	1435.64	1935	158	2.04	2870.61	2864	14	2.7		CS-138
0	1457.12	298	153	1.97	2913.57	2904	18	11.3		I-135
0	1502.12	52	63	1.41	3003.60	2998	11	32.9		I-135
0	1613.97	145	104	1.37	3227.37	3220	17	18.0		I-134
0	1642.49	209	41	2.62	3284.43	3275	21	10.4		CL-38
0	1677.77	210	115	1.96	3355.03	3350	17	13.3		I-135
0	1706.47	126	60	2.78	3412.45	3406	17	16.7		I-135
0	1731.57	101	57	2.02	3462.67	3455	17	20.1		NA-24
0	1740.68	104	51	1.96	3480.90	3472	16	18.3		I-134
0	1790.86	155	46	2.41	3581.32	3577	11	11.7		I-135
0	1806.95	194	64	2.29	3613.52	3604	21	12.5		I-134

3

It	Energy	Area	Band	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1835.57	146	34	1.25	3670.81	3664	12	11.4		RP-88

NID Zerror limit = 50

Summary of Nuclide Activity

Total number of lines in spectrum	66
Number of unidentified lines	1
Number of lines tentatively identified by NID	65 98.49%

Nuclide Type : activation

Nuclide	Hlife	Decay	Decay Corr uCi/gM	Decay Corr 1-Sigma Error	1-Sigma %Error	Flags
NA-24	15.00H	1.018	1.368E-03	0.056E-03	4.13	
CL-38	37.30M	1.534	1.504E-03	0.156E-03	10.37	
MN-54	312.50D	1.000	7.860E-04	0.622E-04	7.92	
CO-58	70.80D	1.000	1.667E-03	0.063E-03	3.78	
CO-60	5.27Y	1.000	2.055E-04	0.368E-04	17.90	
AG-110H	252.20D	1.000	3.924E-03	0.102E-03	2.60	A
Total Activity :			9.455E-03			

Nuclide Type : fission prod

Nuclide	Hlife	Decay	Decay Corr uCi/gM	Decay Corr 1-Sigma Error	1-Sigma %Error	Flags
XE-135	9.09H	1.030	1.177E-03	0.101E-03	8.60	
Total Activity :			1.177E-03			

Nuclide Type : fission

Nuclide	Hlife	Decay	Decay Corr uCi/gM	Decay Corr 1-Sigma Error	1-Sigma %Error	Flags
RP-88	17.80M	2.414	2.998E-03	0.618E-03	20.62	
RP-89	15.20M	2.791	1.833E-03	0.250E-03	13.64	A
RP-95	35.15D	1.000	9.395E-05	4.396E-05	46.79	
TC-101	14.20M	2.992	1.023E-03	0.297E-03	29.07	
I-131	8.04D	1.001	2.686E-04	0.807E-04	30.03	
I-132	2.30H	1.124	3.452E-03	0.069E-03	1.99	A
I-133	20.80H	1.013	2.275E-03	0.059E-03	2.58	
I-134	52.60M	1.356	5.748E-03	0.107E-03	1.87	A
I-135	6.61H	1.042	4.021E-03	0.194E-03	4.82	A
CS-137	30.17Y	1.000	2.459E-04	0.542E-04	22.03	
CS-138	32.20M	1.640	5.647E-03	0.150E-03	2.66	A
Total Activity :			2.761E-02			

Grand Total Activity : 3.824E-02

RCS 0

(excluding Nuclide Type : natural)

MILLSTONE UNIT 3
OCTOBER 1995

Section VIII RADIOLOGICAL AND CHEMISTRY DATA

Chemistry Data

Prior to SI

2. Dose Rates for Sample

1000m/liquid sample

contact dose rate: 25mR/hr

MILLSTONE UNIT 3
OCTOBER 1995

Section VIII RADIOLGICAL AND CHEMISTRY DATA

Chemistry Data

1. RCS Sample:

Time: SI to LOCA

Noble Gas

<u>Isotope</u>	<u>uci/cc</u>
Kr 83m	2.11 E+02
Kr 85m	6.76 E+02
K 85	2.12 E+01
K 87	8.25 E+02
K 88	1.52 E+03
K 89	-
Xe 131	2.22 E+01
Xe 133	8.45 E+01
Xe 133	3.42 E+03
Xe 135m	4.75 E+02
Xe135	3.17 E+03
Xe137	-
Xe138	1.58 E+02

<u>Isotope</u>	<u>uci/cc</u>	<u>D.E.</u>
I 131	4.80 E+02	4.8 E+02
I 132	7.29 E+02	7.29 E+00
I 133	1.08 E+03	1.94 E+02
I 134	1.26 E+03	3.15 E+00
I 135	9.78 E+02	3.72 E+01

<u>Isotope</u>	<u>uci/cc</u>
Cs 137	2.9 E+01
Cs 138	1.47 E-01
Rb 87	3.54 E+02
Rb 89	2.17 E+02
Ra 105	4.0 E-01
Ce 144	5.0 E+00
NB 95	4.3 E+01

MILLSTONE UNIT 3
OCTOBER 1995

Section VIII RADIOLOGICAL AND CHEMISTRY DATA

Chemistry Data

2. Dose Rates for Sample:

Time: SI to LDCA

MR/hr per ml

one foot dose rate: 60 mR/hr

Note: If a 10ml sample is taken
take the dose rate is 600 mR/hr

Ambient Dose Rates of 10 mR/hr is sample room.

**METEOROLOGICAL
DATA/FORECASTS**

**EDAN Millstone Data
Met Team Forecasts**

9

METEOROLOGICAL DATA

MILLSTONE UNIT 3 OCTOBER 1995

IX. METEOROLOGICAL DATA INITIAL CONDITIONS

TIME	HH:MM	JUL	AT033	WD033	WS033	PS033	WD142	WS142	PS142	DT142	SC	WD374	WS374	PS374	DT374
LOCAL	EST	DAY	(DEG)	(M/S)	(M/S)	(DEG)	(M/S)	(M/S)	(M/S)	(C)		142 (DEG)	(M/S)	(M/S)	(C)
715PM	18:15	277	17.2	458.3	9.5	999.9	456.1	10.5	999.9	-0.8		99.2	11.7	999.9	-1.2
730PM	18:30	277	17.2	456.3	8.5	999.9	453.6	9.5	999.9	-0.8		98.1	11	999.9	-1.2
745PM	18:45	277	17.1	453.8	9.2	999.9	451.5	10.1	999.9	-0.7		95.4	11.2	999.9	-1.1
800PM	19:00	277	17.1	456.7	8.1	999.9	452.5	8.7	999.9	-0.7		93.5	9.9	999.9	-1.1
815PM	19:15	277	17.1	453.4	5.8	999.9	450.8	6.3	999.9	-0.6		95	8.3	999.9	-1
830PM	19:30	277	17.2	459.5	8.4	999.9	456.3	9.3	999.9	-0.7		103.8	10.4	999.9	-1
845PM	19:45	277	17.3	458.8	8.2	999.9	455.6	9.1	999.9	-0.8		100.4	10.2	999.9	-1.1
900PM	20:00	277	17.2	454.8	6.9	999.9	450.8	7.4	999.9	-0.7		97.4	9	999.9	-1
915PM	20:15	277	17.1	450.1	6.7	999.9	447.5	7.4	999.9	-0.6		95.5	8.9	999.9	-0.8
930PM	20:30	277	17.3	451.6	7.1	999.9	449.2	7.9	999.9	-0.6		97.7	9	999.9	-0.9
945PM	20:45	277	17.2	449.8	6.2	999.9	447.7	6.8	999.9	-0.5		96.5	8.1	999.9	-0.7
1000PM	21:00	277	17.3	450.3	5.9	999.9	448.2	6.3	999.9	-0.5		97.5	7.6	999.9	-0.8
1015PM	21:15	277	17.5	454	5.2	999.9	452.1	5.8	999.9	-0.5		105.8	7	999.9	-0.7
1030PM	21:30	277	17.6	453.9	5.7	999.9	453.8	6.3	999.9	-0.4		111.3	6.8	999.9	-0.3
1045PM	21:45	277	17.9	455	5.3	999.9	456.2	6	999.9	-0.5		120.4	6.2	999.9	-0.2
1100PM	22:00	277	17.9	451.5	4.5	999.9	452.8	5	999.9	-0.5		118.4	5.8	999.9	-0.2
1115PM	22:15	277	18	450.3	4.6	999.9	453.7	5.3	999.9	-0.4		118.3	5.8	999.9	-0.3
1130PM	22:30	277	18	447	4.6	999.9	453.6	5.5	999.9	-0.3		118.8	5.8	999.9	-0.3
1145PM	22:45	277	18.2	442.6	4.6	999.9	452.2	5.1	999.9	-0.2		121.3	5.1	999.9	-0.3
1200AM	23:00	277	18.4	459.4	3.9	999.9	470.6	4.2	999.9	-0.3		141.6	4.4	999.9	-0.3
1215AM	23:15	277	18.6	461.5	2.8	999.9	475.1	3	999.9	-0.3		150.3	3.7	999.9	-0.4
1230AM	23:30	277	18.1	392.1	1.4	999.9	410.6	1.7	999.9	-0.2		119.2	2.4	999.9	-0.2
1245AM	23:45	277	18.1	351.1	1.5	999.9	371.1	1.9	999.9	-0.2		274.2	1.5	999.9	-0.4
100AM	00:00	278	18.7	294.2	2.3	999.9	249.5	3.7	999.9	-0.1		207.7	4.8	999.9	-0.1
115AM	00:15	278	19	202.5	1.8	999.9	198.2	3	999.9	-0.2		206.6	3.4	999.9	-0.5
130AM	00:30	278	19	179.5	1.1	999.9	188.3	2.2	999.9	-0.2		205.7	3.6	999.9	-0.6
145AM	00:45	278	19.2	206.4	2.6	999.9	213.4	4.1	999.9	-0.4		217.2	4.7	999.9	-0.7
200AM	01:00	278	19.3	205.6	3.3	999.9	213.6	4.7	999.9	-0.5		219.1	5.8	999.9	-0.8
215AM	01:15	278	19.1	210.8	2.9	999.9	217	4.6	999.9	-0.4		223.5	6.2	999.9	-0.6
230AM	01:30	278	19	200	2.2	999.9	209	4.6	999.9	-0.4		224.1	5.6	999.9	-0.5
245AM	01:45	278	18.8	212.6	2.1	999.9	217.3	4.1	999.9	-0.3		228	5.8	999.9	-0.5
300AM	02:00	278	18.9	222.6	2.3	999.9	227.2	3.9	999.9	-0.4		231	5.8	999.9	-0.6
315AM	02:15	278	18.9	227	3.1	999.9	232.3	4.9	999.9	-0.5		245.7	5.9	999.9	-0.6
330AM	02:30	278	18.9	238.1	2.5	999.9	242.9	4.3	999.9	-0.5		249.8	5.5	999.9	-0.7
345AM	02:45	278	18.9	243.9	2.3	999.9	247.2	3.6	999.9	-0.5		252.7	4.7	999.9	-0.7
400AM	03:00	278	18.8	240.3	1.9	999.9	244	2.8	999.9	-0.5		243.8	3.6	999.9	-0.8
415AM	03:15	278	18.7	240	2.2	999.9	239.9	3.4	999.9	-0.5		241.2	4.9	999.9	-0.7
430AM	03:30	278	18.7	236.1	2.9	999.9	238.3	4.3	999.9	-0.4		245	5.4	999.9	-0.6
445AM	03:45	278	18.7	245.7	3.1	999.9	249.4	4.7	999.9	-0.1		252.8	6.3	999.9	-0.6
500AM	04:00	278	18.8	257.7	4.1	999.9	260.6	5.3	999.9	-0.4		257.5	6.7	999.9	-0.6
515AM	04:15	278	18.9	267.1	4	999.9	270.3	4.5	999.9	-0.5		265.5	5.4	999.9	-0.9
530AM	04:30	278	18.8	264.5	3.5	999.9	267	3.9	999.9	-0.5		262.8	4.7	999.9	-1.1
545AM	04:45	278	18.7	266.5	3.2	999.9	270.4	3.5	999.9	-0.4		267.4	4.3	999.9	-1.2
600AM	05:00	278	18.6	257.5	2.8	999.9	260.6	3.6	999.9	-0.3		263.8	4	999.9	-1.2
615AM	05:15	278	18.3	252.9	3.3	999.9	254.4	4.5	999.9	-0.2		260.7	4.5	999.9	-0.8
630AM	05:30	278	18.2	256.9	3.5	999.9	259.1	4.3	999.9	-0.2		259.7	4.9	999.9	-0.6
645AM	05:45	278	18.1	262	4.6	999.9	263.6	5.3	999.9	-0.3		261	6.1	999.9	-0.7
700AM	06:00	278	18	260.3	4.3	999.9	262.3	5	999.9	-0.3		263.1	5.9	999.9	-0.7

** TIME IS 0900 EST 10/5/1995 JULIAN DAY 278
 NORTHEAST UTILITIES MILLSTONE PT (MP25) METEOROLOGICAL TOWER DATA

DEFINITIONS :

- ATXYZ = AMBIENT AIR TEMPERATURE AT "XYZ" HEIGHT (FT) IN DEGREES CELSIUS (C)
 (TO CONVERT DEGREES C TO DEGREES F : F = (1.8 X C) + 32)
- WDXYZ = WIND DIRECTION AT "XYZ" HEIGHT (FT) IN COMPASS DEGREES
 (THIS IS THE DIRECTION THE WIND IS BLOWING FROM 0 = TRUE NORTH)
- WSXYZ = WIND SPEED AT "XYZ" HEIGHT (FT) IN METERS PER SECOND (M/S)
 (TO CONVERT M/S TO MILES PER HOUR (MPH) : MPH = 2.2 X M/S)
- PSXYZ = PEAK WIND SPEED AT "XYZ" HEIGHT (FT) IN METERS PER SECOND (M/S)
- DTXYZ = TEMPERATURE DIFFERENCE BETWEEN "XYZ" HEIGHT AND 33 FT. IN DEGREES C
 (FOR EXAMPLE, DT142 IS AT142 MINUS AT033)
 (TO CONVERT DTXYZ IN DEGREES C TO DEGREES F, MULTIPLY DTXYZ BY 1.8)
- SCXYZ = STABILITY CLASS AT "XYZ" HEIGHT (FT)
 (FIRST LETTER IS PASQUILL CLASS / SECOND LETTER IS GENERAL CLASS)
- DWDXYZ = DOWNWIND DIRECTION COMPASS SECTOR AT "XYZ" HEIGHT (FT)
- DVXYZ = WIND DIRECTION VARIANCE AT XYZ HEIGHT (FT) IN DEGREES SQUARED
- SOLAR = SOLAR RADIATION IN LANGLEYS/MIN (MP TOWER ONLY)

NOTE ... MISSING DATA INDICATED BY 999.9
 NOTE ... MISSING STABILITY CLASS INDICATED BY Z/Z

- * PLEASE NOTE.....EDAN IS ALWAYS ON EASTERN STANDARD TIME (EST) *
- * IF THE DAY IS BETWEEN THE FIRST SUNDAY IN APRIL (AT 2 AM) AND THE LAST *
- * SUNDAY IN OCTOBER (AT 2 AM) ,THEN ADD ONE HOUR TO EST TIMES PRINTED BELOW *
- * TO GET EASTERN DAYLIGHT TIME (EDT). *

HH:MM	JUL	AT033	WD033	WS033	PS033	WD142	WS142	PS142	DT142	SC	WD374	WS374	PS374	DT374	SC	DWD	DWD	DWD	DV033	DV142	DV374	
EST	DAY	(C)	(DEG)	(M/S)	(M/S)	(DEG)	(M/S)	(M/S)	(C)		142 (DEG)	(M/S)	(M/S)	(C)		374	33	142	374			
06:00	278	17.7	262.1	4.7	999.9	262.9	5.2	999.9	-0.3	D/N	266.4	6	999.9	-0.6	D/N	E	E	E	10	6.8	8.8	
06:15	278	17.7	266.1	4.3	999.9	268.8	4.7	999.9	-0.2	D/N	265.1	5.8	999.9	-0.4	E/N	E	E	E	7.3	4	4.6	
06:30	278	17.6	262.8	3.1	999.9	268	3.6	999.9	-0.3	D/N	264.7	5	999.9	-0.3	E/N	E	E	E	21.5	12.8	2.1	
06:45	278	17.6	258.5	2.9	999.9	262.5	3.8	999.9	-0.3	D/N	259.8	5.4	999.9	-0.2	E/N	ENE	E	E	32.5	8.7	1.4	
07:00	278	17.7	258.1	3.6	999.9	257.7	4.8	999.9	-0.3	D/N	260.2	5.3	999.9	-0.2	E/N	ENE	ENE	E	27.3	10.4	1.8	
07:15	278	17.8	253.4	3	999.9	255.7	4.1	999.9	-0.4	D/N	264.1	4.6	999.9	-0.3	E/N	ENE	ENE	E	27.4	4.4	9.1	
07:30	278	17.9	253.4	2.6	999.9	254.5	3.6	999.9	-0.4	D/N	267.9	3.9	999.9	-0.5	E/N	ENE	ENE	E	39.4	7	4.2	
07:45	278	18.1	246	1.9	999.9	249.2	2.7	999.9	-0.5	C/N	265.9	2.8	999.9	-0.8	D/N	ENE	ENE	E	108.3	34.5	9.8	
08:00	278	18.1	232.4	2	999.9	238.9	2.5	999.9	-0.5	C/N	253.9	2.3	999.9	-0.9	D/N	NE	ENE	ENE	70.8	8.3	16.1	
08:15	278	18.2	229.9	2.6	999.9	236.4	3.2	999.9	-0.6	B/U	249	2.8	999.9	-1	D/N	NE	ENE	ENE	33.3	8.9	17.4	
08:30	278	18.2	232	3.1	999.9	240.1	3.9	999.9	-0.5	C/N	247.2	3.2	999.9	-0.8	D/N	NE	ENE	ENE	41.4	17.4	29.5	
08:45	278	18.6	241.2	2.1	999.9	248.3	3.2	999.9	-0.7	A/U	258.2	3	999.9	-1.1	D/N	ENE	ENE	ENE	74.6	4.3	12.3	

LISTED ABOVE ARE ALL AVAILABLE DATA FOR THE PAST 3 HOURS.
 CURRENT DATA WILL BE AUTOMATICALLY PRINTED EVERY 15 MINUTES.
 TYPE - "STOP" THEN PRESS "RETURN" TO TERMINATE THE AUTOMATIC REPORTS

**MILLSTONE UNIT 3
OCTOBER 1995**

IX. METEOROLOGICAL DATA EXERCISE DAY

LOCAL TIME	HHMM EST	JUL DAY	AT033 (C)	WD033 (DEG)	WS03 (M/S)	PS033 (M/S)	WD142 (DEG)	WS14 (M/S)	PS142 (M/S)	DT142 (C)	SC 142	WD374 (DEG)	WS374 (M/S)	PS374 (M/S)	DT374 (C)	SC 374	DWD 33	DWD 142	DWD 374	DV033	DV142	DV374
700AM	06:00	278	17.7	262.1	4.7	999.9	262.9	5.2	999.9	-0.3	D/N	266.4	6	999.9	-0.6	D/N	E	E	E	10	6.8	8.8
715AM	06:15	278	17.7	266.1	4.3	999.9	268.8	4.7	999.9	-0.2	D/N	265.1	5.8	999.9	-0.4	E/N	E	E	E	7.3	4	4.6
730AM	06:30	278	17.6	262.8	3.1	999.9	268	3.6	999.9	-0.3	D/N	264.7	5	999.9	-0.3	E/N	E	E	E	21.5	12.8	2.1
745AM	06:45	278	17.6	258.5	2.9	999.9	262.5	3.8	999.9	-0.3	D/N	259.8	5.4	999.9	-0.2	E/N	ENE	E	E	32.5	8.7	1.4
800AM	07:00	278	17.7	256.1	3.6	999.9	257.7	4.8	999.9	-0.3	D/N	260.2	5.3	999.9	-0.2	E/N	ENE	ENE	E	27.3	10.4	1.8
815AM	07:15	278	17.8	253.4	3	999.9	255.7	4.1	999.9	-0.4	D/N	264.1	4.6	999.9	-0.3	E/N	ENE	ENE	E	27.4	4.4	9.1
830AM	07:30	278	17.9	253.4	2.6	999.9	254.5	3.6	999.9	-0.4	D/N	267.9	3.9	999.9	-0.5	E/N	ENE	ENE	E	39.4	7	4.2
845AM	07:45	278	18.1	246	1.9	999.9	249.2	2.7	999.9	-0.5	C/N	265.9	2.8	999.9	-0.8	D/N	ENE	ENE	E	108.3	34.5	9.8
900AM	08:00	278	18.1	232.4	2	999.9	238.9	2.5	999.9	-0.5	C/N	253.9	2.3	999.9	-0.9	D/N	NE	ENE	ENE	70.8	8.3	16.1
915AM	08:15	278	18.2	229.9	2.6	999.9	236.4	3.2	999.9	-0.6	B/U	249	2.8	999.9	-1	D/N	NE	ENE	ENE	33.3	8.9	17.4
930AM	08:30	278	18.2	232	3.1	999.9	240.1	3.9	999.9	-0.5	C/N	247.2	3.2	999.9	-0.8	D/N	NE	ENE	ENE	41.4	17.4	29.5
945AM	08:45	278	18.6	241.2	2.1	999.9	248.3	3.2	999.9	-0.7	A/U	258.2	3	999.9	-1.1	D/N	ENE	ENE	ENE	74.6	4.3	12.3
1000AM	09:00	278	18.9	240.1	2	999.9	246.5	3.3	999.9	-0.9	A/U	258.3	2.8	999.9	-1.3	D/N	ENE	ENE	ENE	66.9	6.2	12.2
1015AM	09:15	273	18.7	225.4	2.9	999.9	237.5	3.5	999.9	-0.8	A/U	249.3	3	999.9	-1.1	D/N	NE	ENE	ENE	18.9	9.1	11.4
1030AM	09:30	278	18.7	218.7	2.7	999.9	228.4	3.3	999.9	-0.8	A/U	244.2	2.4	999.9	-1.1	D/N	NE	NE	ENE	27.1	22.5	53.5
1045AM	09:45	278	18.9	223.7	3.4	999.9	228.1	3.4	999.9	-0.7	A/U	247.7	2.3	999.9	-1	D/N	NE	NE	ENE	4.3	2	15.1
1100AM	10:00	278	19	227.3	3.3	999.9	231.8	3.8	999.9	-0.7	A/U	244.2	2.7	999.9	-1	D/N	NE	NE	ENE	27	12	9
1115AM	10:15	278	19.1	225.2	3.6	999.9	235.4	3.8	999.9	-0.6	B/U	239	2.8	999.9	-1	D/N	NE	NE	ENE	20.7	4.1	27.2
1130AM	10:30	278	19.3	221.4	3.1	999.9	230.3	3.4	999.9	-0.7	A/U	234.9	2.8	999.9	-0.7	D/N	NE	NE	NE	19	3.7	18
1145AM	10:45	278	19.4	220.5	3.1	999.9	230.3	3.5	999.9	-0.6	B/U	236.4	3.5	999.9	-0.8	D/N	NE	NE	ENE	27.9	9	3.8
1200PM	11:00	278	19.6	216.7	2.9	999.9	227.3	4.1	999.9	-0.8	A/U	234.6	4.1	999.9	-0.9	D/N	NE	NE	NE	26.1	6.3	5.4
1215PM	11:15	278	19.9	214.1	3.1	999.9	222.9	4.1	999.9	-0.9	A/U	230.5	4.3	999.9	-1	D/N	NE	NE	NE	24.5	10	1
1230PM	11:30	278	19.9	216.8	3.2	999.9	222.7	4.1	999.9	-1	A/U	231.3	4.8	999.9	-1.1	D/N	NE	NE	NE	23.7	13.5	2.1
1245PM	11:45	278	19.7	218.2	3.2	999.9	224.9	4.1	999.9	-0.7	A/U	234.1	4.8	999.9	-0.9	D/N	NE	NE	NE	27.6	10.7	5.1
100PM	12:00	278	19.8	221.5	3.3	999.9	227.4	3.9	999.9	-0.8	A/U	235.9	4.2	999.9	-1.1	D/N	NE	NE	NE	23.7	10	6.6
115PM	12:15	278	19.8	218.2	3	999.9	227	3.7	999.9	-0.8	A/U	230.1	3.8	999.9	-1.1	D/N	NE	NE	NE	31.1	26.5	11.4
130PM	12:30	278	19.8	223.9	2.5	999.9	234.5	3.1	999.9	-0.6	B/U	241.7	3.3	999.9	-1.1	D/N	NE	NE	ENE	67	30.4	17.2
145PM	12:45	278	20.5	233.9	2.1	999.9	239.4	2.8	999.9	-1.1	A/U	238.8	3.2	999.9	-1.7	C/U	NE	NE	ENE	93.1	43.7	29.4
200PM	13:00	278	20.5	206.2	2.3	999.9	213.2	2.7	999.9	-1.1	A/U	226.7	2.6	999.9	-1.7	C/U	NNE	NNE	NE	80.4	44.5	34.2
215PM	13:15	278	20.4	202.3	2.1	999.9	209.3	2.6	999.9	-1	A/U	220.5	2.4	999.9	-1.6	C/U	NNE	NNE	NE	63.4	34.3	46.7
230PM	13:30	278	20.3	184.6	1.7	999.9	191.1	2.6	999.9	-1	A/U	196	2.5	999.9	-1.7	C/U	N	N	NNE	219.4	151.5	149.3
245PM	13:45	278	20.3	165.1	1.4	999.9	167.7	2.3	999.9	-1.3	A/U	176.8	2.3	999.9	-1.8	B/U	NNW	NNW	N	501.3	20.1	60.3
300PM	14:00	278	20.1	170.3	1.1	999.9	166	1.6	999.9	-1.1	A/U	171	1.8	999.9	-1.7	C/U	N	NNW	N	491.7	27.1	21.9
315PM	14:15	278	20.1	173.8	1	999.9	165.1	1.7	999.9	-1.1	A/U	173.1	2.1	999.9	-1.6	C/U	N	NNW	N	334.4	25.3	51.6
330PM	14:30	278	20.3	173	1	999.9	171.8	1.8	999.9	-1.2	A/U	181.4	2.2	999.9	-1.6	C/U	N	N	N	615.7	77.9	59.7
345PM	14:45	278	19.6	153.5	1.3	999.9	154.4	2.1	999.9	-0.5	C/N	161.7	3	999.9	-0.9	D/N	NNW	NNW	NNW	249.5	25.6	6.4
400PM	15:00	278	19.6	132.6	2.2	999.9	137.4	2.6	999.9	-0.6	B/U	164.2	3.7	999.9	-0.5	E/N	NW	NW	NNW	58.8	5.6	26.2

ATTACHMENT 8.B

MILLSTONE POINT METEOROLOGICAL DATA SHEET (Sheet 1 of 1)

CURRENT MILLSTONE MET TOWER DATA AT: _____ Release Elevation _____

AT030 (C)	W0300 (deg)	W0300 (m/s)	W0142 (deg)	W0142 (m/s)	DT142 (C)	STAB 142	W0374 (deg)	W0374 (m/s)	DT374 (C)	STAB 374	PRECIP TYPE	PRECIP INTENS	HTC SECT

FORECAST FOR MILLSTONE SITE

FOR PERIODS	AT030 (C)	W0300 (deg)	W0300 (m/s)	W0142 (deg)	W0142 (m/s)	W0374 (deg)	W0374 (m/s)	STABILITY CLASS	CLOUD COVER	PRECIP TYPE	PRECIP INTENS	HTC SECT
1000 TO 1200	20	220	3.5	230	4.0	240	3.0	N	PC	N	-	
1200 TO 1400	20	220	3.0	230	3.0	230	3.0	N	PC	N	-	
1400 TO 1600	20	200	2.0	200	2.0	200	2.0	V	PC	N	-	
TO _____												
TO _____												
TO _____												

PLAIN LANGUAGE VERSION OF ABOVE DATA FOR PUBLIC DISSEMINATION

At _____ the wind at the site is blowing from the _____ into the _____ at _____ mph. It is
(true) (ss. WNW) (ss. ESE)
 expected to remain in this direction until _____. After this time it is expected to shift and blow from the _____
(true) (ss. ESE)
 into the _____ at _____ mph.
(ss. NWW)

METEOROLOGICAL DATA TO BE POSTED ON EMERGENCY STATUS BOARD

CURRENT SITE WIND

MET DATA LEVEL: _____ FT.

UPDATE TIME: _____

FROM _____ INTO _____

AT _____ MPH.

FORECAST SITE WIND

MET DATA LEVEL: _____ FT.

WIND WILL SHIFT AT _____

ON _____ AND BLOW _____

FROM _____ INTO _____

AT _____ MPH.

NOTES:

Prepared by _____
 Approved by (MRDA) _____
 Route to: State EOC; DEP

Date _____ Time _____
 Date _____ Time _____
 NU Executive NU Comm. Rep

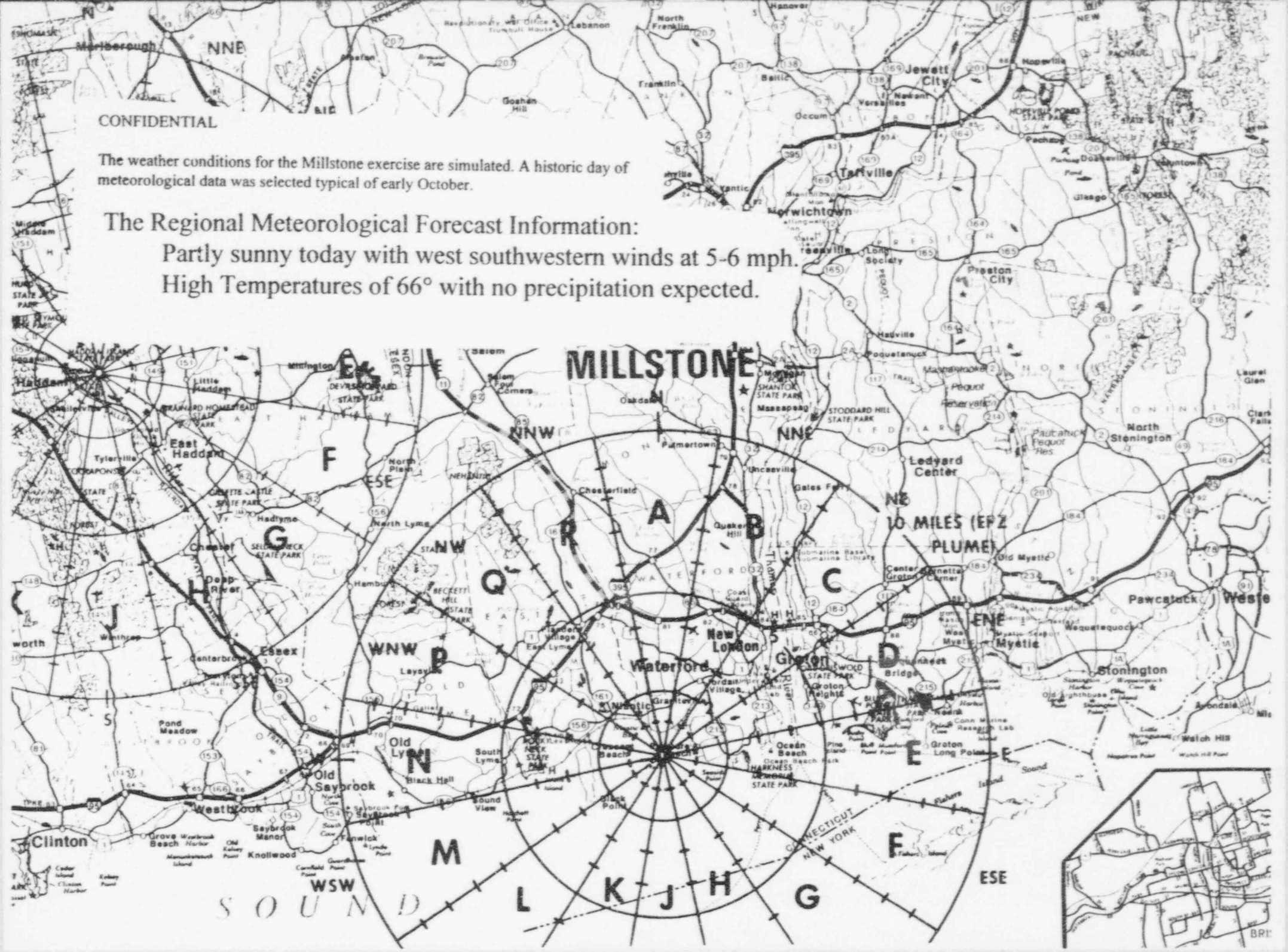
Level of Use
General

EPIP 1.5-37D EPOP 4428D
 Rev. 0 Rev. 0
 11 of 13 11 of 13

CONFIDENTIAL

The weather conditions for the Millstone exercise are simulated. A historic day of meteorological data was selected typical of early October.

The Regional Meteorological Forecast Information:
Partly sunny today with west southwestern winds at 5-6 mph.
High Temperatures of 66° with no precipitation expected.



MILLSTONE 1995 EXERCISE									
MET DATA (ENGLISH UNITS)									
LOCAL	WS033	WS142	WS374	WD033	WD142	WD374	DT142	DT372	TEMP
TIME	mph	mph	mph				F	F	F
800AM	8.1	10.8	11.9	256.1	257.7	260.2	-0.54	-0.36	63.9
815AM	6.7	9.2	10.3	253.4	255.7	264.1	-0.72	-0.54	64.0
830AM	5.8	8.1	8.7	253.4	254.5	267.9	-0.72	-0.90	64.2
845AM	4.3	6.0	6.3	246	249.2	265.9	-0.90	-1.44	64.6
900AM	4.5	5.6	5.2	232.4	238.9	253.9	-0.90	-1.62	64.6
915AM	5.8	7.2	6.3	229.9	236.4	249	-1.08	-1.80	64.8
930AM	6.9	8.7	7.2	232	240.1	247.2	-0.90	-1.44	64.8
945AM	4.7	7.2	6.7	241.2	248.3	258.2	-1.26	-1.98	65.5
1000AM	4.5	7.4	6.3	240.1	246.5	258.3	-1.62	-2.34	66.0
1015AM	6.5	7.8	6.7	225.4	237.5	249.3	-1.44	-1.98	65.7
1030AM	6.0	7.4	5.4	218.7	228.4	244.2	-1.44	-1.98	65.7
1045AM	7.6	7.6	5.2	223.7	228.1	247.7	-1.26	-1.80	66.0
1100AM	7.4	8.5	6.0	227.3	231.8	244.2	-1.26	-1.80	66.2
1115AM	8.1	8.5	6.3	225.2	235.4	239	-1.08	-1.80	66.4
1130AM	6.9	7.6	6.3	221.4	230.3	234.9	-1.26	-1.26	66.7

SECTION X

CONTROLLER/OBSERVER GUIDE

FOR

EMERGENCY PREPAREDNESS

DRILLS AND EXERCISES

1994/1995

DEFINITIONS

AREA OF

IMPROVEMENT: A drill/exercise finding that indicates a procedure/facility or performance issue. The finding is evaluated to determine if corrective action could improve performance.

DEFICIENCY: Failure to fully meet an objective or satisfy a written emergency program commitment. An identified deficiency may indicate that overall response during the drill was less than adequate to protect public health and safety.

STRENGTH: An observed good practice that goes beyond procedural compliance.

VISITOR: A person invited to view the drill/exercise activities with no additional responsibilities as evaluator, observer, controller, or player.

WEAKNESS: Less than effective emergency program implementation, which does not alone constitute overall response inadequacy. Failure to partially meet an objective. An identified weakness does not of itself indicate that overall response was inadequate to protect public health and safety.

SUMMARY OF OBSERVATIONS FORM

Instructions: Record all findings below and circle the appropriate comment category, indicate which objective the comment is in reference to (see objective section of your scenario manual for a listing of specific objectives). Proposed corrective actions can be provided (optional) on a separate sheet of paper and attached.

Name: _____ Phone: _____ Date: _____		
Location Assigned: _____ Unit: _____		
The following objectives _____ were observed and adequately addressed by players see observation log attached; except for the items noted below.		
Signature _____		Date _____
Obj. #	Description	Circle One
		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency

SUMMARY OF OBSERVATIONS FORM

Instructions: Record all findings below and circle the appropriate comment category, indicate which objective the comment is in reference to (see objective section of your scenario manual for a listing of specific objectives). Proposed corrective actions can be provided (optional) on a separate sheet of paper and attached.

Name: _____ Phone: _____ Date: _____		
Location Assigned: _____ Unit: _____		
The following objectives _____ were observed and adequately addressed by players see observation log attached; except for the items noted below.		
Signature _____	Date _____	
Obj. #	Description	Circle One
		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency
_____		Strength
		Improvement
		Weakness
		Deficiency

ATTACHMENT 1

MILLSTONE UNIT 3
 EXERCISE
 Controller/Observer List

<u>Simulator Control Room</u>	<u>TSC</u>	<u>OSC</u>	<u>EOF (EOC)</u>	<u>EOF (PARs/Rad Assessment)</u>	<u>State/Locals</u>
*D. Aloï	*T. McCance	*D. Emborsky	*J. Deveau	*J. Hawxhurst	*S. Jackson
B. Cote, B. Landon J. Grogan E. Lee-McCaffrey** P. Bauchmann J. Walker NRC Control Cell	K. Burton, R. Faye B. McDonald B. O'Connell	B. King, B. Kreiling J. Dudas, J. Plourde B. Williams, M. Avery K. Burgess, F. Mueller J. Watson, B. Gustafson D. Robinson	G. Pitman, G. Wilson S. Strong, T. Dembek P. Bauchmann E. MacLean C. Palmer B. Pawlicki (Wethersfield)	B. Eakin, J. Kangley J. Althouse L. Chamberlain K. Hajnal, P. Burke B. Parker S. Mathias J. McHugh A. Klotz**, RMT Team Control Cell	M. White G. Van Noordennenn R. Rodgers C. Manner

*Leads for the Exercise
 **Support Personnel

STATE OF CONNECTICUT

HARTFORD EOC

TELEPHONE NUMBERS

NU EXECUTIVE SPOKESPERSON	548-9524
	548-9536
NU FAX	549-1499

TECHNICAL ASSISTANT	246-8789
	246-7841

NUCLEAR NEWS MANAGER	548-9557
	293-0457
	548-9524
	548-9536

DEP RAD AREA	249-4239
	293-0462
	293-0471
	246-6371

POSL

PRODUCTION OPERATION	850-8-304-3175
SERVICES LABORATORY	638-3180
	638-3175

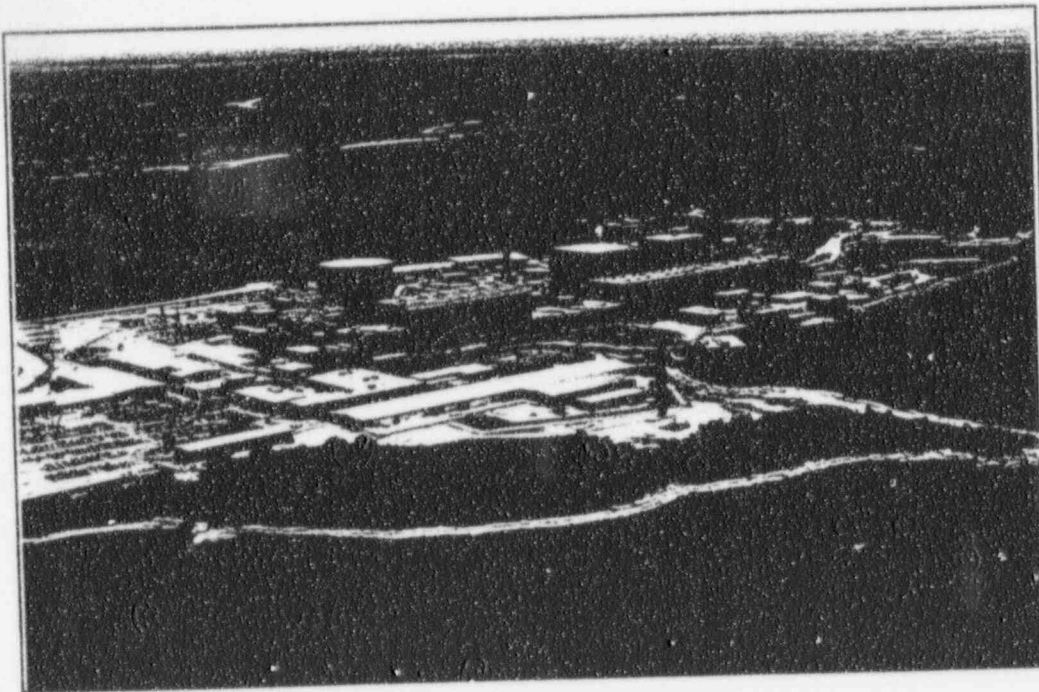
1	INTRODUCTION
2	SCHEDULE
3	SCOPE/OBJECTIVES
4	SCENARIO
5	SUB-SCENARIOS
6	MESSAGES
7	OPERATIONAL DATA
8	RADIOLOGICAL AND CHEMISTRY DATA
9	METEOROLOGICAL DATA
10	CONTROLLER/OBSERVER INFORMATION

MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995

CONFIDENTIAL



Exercise Manual

**APPENDIX A-
STATE/LOCAL EPZ**

CONFIDENTIAL

Northeast Utilities Service Company

Objective 1. MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

Extent of Play - General

- Each responsible organization shall demonstrate capabilities to alert, notify and mobilize appropriate emergency personnel per plans and procedures in accordance with the exercise scenario classification.
- Activities associated with the activation of emergency facilities will be demonstrated as during an actual emergency.

Extent of Play - Specific

1. Notification of State, Local and Utility officials will be initiated through use of the Emergency Notification and Response System (ENRS). State and Local emergency staff will then mobilize appropriate emergency personnel to notify them of EOC activation and direct them to report to the EOC.
2. Activation of State and Local EPZ community EOC's will be driven by the exercise scenario Emergency Classification Level (ECL). The state Radiological Emergency Response Plan (RERP) requires EOC activation at the Site Area Emergency (SAE) classification, however the decision to activate may occur at the Alert classification if there are extenuating circumstances concurrent to the incident in progress.
3. Prepositioning of some operations e.g. Host Community, Reception Center, state field monitoring teams and U.S. Coast Guard will be accomplished in accordance with prior arrangements with FEMA.

ARCAs Requiring Demonstration for Closeout

93-1 Fishers' Island EMD was only individual mobilized.

Objective 2. FACILITIES - EQUIPMENT DISPLAYS AND WORK ENVIRONMENT

Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

Extent of Play - General

- Following activation, the adequacy of emergency facilities, equipment and displays will be demonstrated during performance of activities involved in responding to the exercise scenario.

Extent of Play - Specific

1. This objective will be fully demonstrated by state and local EOC's and the participating Host Community to include; plans, procedures, radiological emergency status board, classification schemes and communications equipment. The facility activation will be appropriate for a one (1) day operation. Backup power and food supplies will not be demonstrated.
2. Each EOC will maintain access control appropriate to the size and location of the facility.

ARCAs Requiring Demonstration for Closeout

93-3	<i>State EOC</i>	Main Status Board did not provide adequate detail.
93-5	<i>Fishers' Island</i>	Status Board did not post ECL changes.
93-5	<i>Old Saybrook</i>	Site Area Emergency not posted on status board (administrative closeout required- Old Saybrook removed from RERP as of 7/31/95).
93-5	<i>Town of Groton</i>	Status Boards not updated consistently, outdated information not removed from previous drill.

Objective 3. DIRECTION AND CONTROL
--

Demonstrate the capability to direct and control emergency operations.

Extent of Play - General

- Direction and Control activities will be demonstrated by participating organizations in accordance with the Radiological Emergency Response Plan (RERP).

Extent of Play - Specific

1. Direction and Control activities will be demonstrated using verbal instructions, briefings, decision making, coordination efforts and protective action implementation by state, local and host community government.

ARCAs Requiring Demonstration for Closeout

93-7	<i>Fishers' Island</i>	CEO was sole participant
93-8	<i>Town of Groton</i>	Incoming information not processed and acted on in a timely manner.
93-9	<i>Town of Groton</i>	Insufficient coordination of school evacuation with OEM Area IV.
93-9	<i>New London</i>	Shelter PA ordered without coordination with OEM Area IV.
93-9	<i>Old Lyme</i>	EOC ordered evacuation without coordination with OEM Area IV.
93-10	<i>Old Saybrook</i>	Lack of clear command and control authority (administrative closeout required- Old Saybrook removed from RERP as of 7/31/95).

Objective 4. COMMUNICATIONS

Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Extent of Play - General

- Communications equipment and procedures for facilities and field personnel will be demonstrated during the transmission and reception of exercise messages, as specified by their plans and procedures.

Extent of Play - Specific

1. Communications from the State to the EPZ communities will be relayed via the respective State Office of Emergency Management (OEM) Area Coordinators. Direct communications between the State and the Utility will be established between the Site EOF and the State EOC.
2. Northeast Utilities also dispatches a Company Officer to act as liaison to the State EOC in Hartford.
3. Injects via the controller network will be used to initiate demonstration of communications equipment, as appropriate.

Objective 5. EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency personnel.

Extent of Play - General

- Procedures to monitor, control and document radiation exposure to emergency workers will be demonstrated during the exercise. Dosimetry will be issued and exposure administratively controlled in accordance with the RERP.

Extent of Play - Specific

1. Each community has been provided with a stockpile of Emergency Worker Dosimetry Packets. These packets include: a thermoluminescent dosimeter (TLD) and two self-reading dosimeters (SRDs) in the 0 R to 5 R and the 0 R to 20 R ranges. The State capability to provide dosimetry in an emergency will be demonstrated by the issue of at least one (1) dosimetry packet, from community and agency stockpiles on hand, to a representative number of state and local emergency workers. The State Office of Emergency Management maintains a bulk stock of Emergency Worker Dosimetry Packets, which would be issued in the event of an emergency, however, for cost-benefit reasons, all kits will not be issued to the field for exercises. The State OEM also conducts an approved calibration and testing program for all dosimetry. Documentation of this activity is available at OEM Headquarters.
2. Emergency Worker exposure control training will be demonstrated through interviews of field workers by evaluators, to include basic knowledge of exposure control procedures (turn-back values, call-in values, periodic monitoring, etc.). At least one exposure control coordinator or supervisor will demonstrate administrative control of dosimetry to include; determination of accumulated dose, recording of dose, rezero of dosimeter and preparation for reissue.
3. During the exercise, at least one emergency worker will demonstrate procedures to be followed in the event that exposure limits or turn-back values are received. Controller inject may be use to prompt demonstration of these procedures, if insufficient simulated exposure levels are available. Emergency Worker training requires immediate termination of an assignment should turn-back exposure values be received. Workers are **not** required to contact their supervisor under this condition.

ARCAs Requiring Demonstration for Closeout

- | | |
|----------------------|---|
| 93-14 Groton City | RDO uncertain of emergency worker turnback values. |
| 93-15 Waterford | School bus guide instructed driver on reading and recording DRD values. |
| 93-16 Town of Groton | Police did not read or record dosimeter values. |
| 93-18 Old Lyme | Trooper assigned to TCP not aware of exposure limits. |

Objective 6.	FIELD RADIOLOGICAL MONITORING- AMBIENT RADIATION MONITORING
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Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.

Extent of Play - General

- Teams using provided equipment and procedures will demonstrate field radiation measurements in accordance with the Radiological Emergency Response Plan.
- Field monitoring teams will be dispatched from their normal workstations or from a prepositioned location near the affected site.

Extent of Play - Specific

1. Demonstration of Field team activities will include inventory, operational checks and verification of calibration intervals of assigned radiation monitoring instruments. Exposure control for workers will be demonstrated in accordance with the Objective #5 extent of play agreement.
2. The extent of monitoring team deployment to be demonstrated will be dependent upon variables such as; accessibility of the areas, availability of motor vehicles, equipment and/or personnel, weather conditions, location of stationary monitors that must be visited by survey teams, and projected exposure to survey team members. A minimum of two (2) state teams (consisting of 2 persons each) will be deployed for determination of plume characteristics.
3. The number of pre-selected reference points demonstrated during the exercise in a given area will be a function of wind speed and direction, distance from the facility, area topography, population density, and accessibility by road. Radiation measurements will be taken at a minimum of six pre-selected reference points.
4. The State Department of Environmental Protection (DEP) monitoring teams will demonstrate plume monitoring for skin exposures, particulates and iodine per the State Radiological Emergency Response Plan. Field teams will be activated via phone call and assembled at the Montville State Police Barracks to obtain equipment and await instructions.

Objective 7.	PLUME DOSE PROJECTION
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Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

Extent of Play - General

- Activities associated with plume location and development of dose projections through the use of models, data from the field, data supplied by the utility, and the development of appropriate protective action recommendations will be demonstrated in accordance with the State Radiological Emergency Response Plan

Extent of Play - Specific

1. State DEP staff will perform dose projections at the State EOC with site specific input from Northeast Utilities (NU). The NU staff at the site EOF will perform parallel dose calculations for comparison and discussion with the State staff. The State DEP dose calculation staff will also receive frequently updated meteorological and radiological data via the NU radiological staff.
2. Dose calculations will be demonstrated using the "ADAM" computer code.

Objective 8.	FIELD RADIOLOGICAL MONITORING-- AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING
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Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 1×10^{-7} uCi/cm³ in the presence of noble gases and obtain samples of particulate activity in the airborne plume.

Extent of Play - General

- Activities associated with the field monitoring of airborne radioiodine and particulate activity will be demonstrated to include; sampling equipment, procedures, vehicles, and transmission of data. Sample collection activities will be conducted in accordance with existing procedures.

Extent of Play - Specific

1. A representative number of samples, including one or more from the plume center-line (or an area where the exposure rate as indicated by controller inject is at least 100 mR/hr) will be obtained. Transportation of samples to the State laboratory will not be demonstrated.
2. Equipment and procedures used by off-site teams are standardized between the State and Northeast Utilities. All equipment used by the teams will be available for inspection by the evaluators.
3. Air sample cartridges used during the exercise have been specifically designated for drill or exercise use only. These cartridges may be used more than once during the exercise.

Objective 9. PLUME PROTECTIVE ACTION DECISION MAKING

Demonstrate the capability to make timely and appropriate protective action decisions (PAD).

Extent of Play - General

- Protective Action decision making activities will be demonstrated by appropriate agencies in accordance with the Radiological Emergency Response Plan.

Extent of Play - Specific

1. Initial plume protective action decisions will be based on the exercise scenario Emergency Classification Level and State Posture Codes as specified in the Radiological Emergency Response Plan (RERP). The RERP provides preplanned recommended actions for State and Local officials, which may be utilized during rapidly developing events. Specific decision making criterion are provided in the RERP for both state and local officials, including the influence of extenuating factors such as environmental conditions, plant conditions and established radiological thresholds. Input such as utility protective action recommendations will also be used in decision making.
2. When activated, the Site EOF will forward utility protective action recommendations to the State EOC.
3. The State EOC, as specified in the RERP, will direct and coordinate protective action implementation through State and local agencies.

Objective 10. ALERT AND NOTIFICATION

Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State and local officials.

Extent of Play - General

- Simulated activation of the Public Alerting System will occur for an incident class "Site Area Emergency" or higher level. The initial and subsequent public notifications will encompass the entire 10-mile EPZ radius.
- The State of Connecticut employs a siren system as the primary means of public notification. As a backup, in the event of a siren failure, a route alerting system would be employed. Simulated activation of sirens in the affected towns will be demonstrated during the exercise. Annual siren activation is performed as an out-of-sequence activity.
- Alert and Notification activities leading to Emergency Broadcast System (EBS) activation and the release of EBS messages will be demonstrated, however actual transmission of EBS messages to the public will be simulated. The State RERP does not permit activation of EBS by local CEOs after the Governor's "State of Emergency" declaration.
- Demonstration of EBS activities will include; selection of the EBS message to be broadcast, transmission of hard copy message to the towns via the OEM Area Coordinators and arranging communications with the appropriate EBS station for message transmission.

Extent of Play - Specific

1. The initial alerting of the public as well as subsequent notifications in connection with the scenario will be simulated.

Objective 11.	PUBLIC INSTRUCTIONS AND EMERGENCY COMMUNICATIONS
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Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Extent of Play - General

- Activities associated with the development of clear, concise public information and instructional messages to implement protective actions will be demonstrated. This activity will be demonstrated in conjunction with preparation of EBS message releases, and will include coordination with all appropriate agencies and jurisdictions.
- The capability to coordinate message release with appropriate agencies, and organizations will be demonstrated. These activities in general, will be demonstrated concurrent with each EBS message release.
- The Connecticut RERP does not require any automatic protective actions by the public.

Extent of Play - Specific

1. Protective action implementation will be initiated and coordinated by the State OEM through transmission to the OEM area offices, and subsequent relaying to the affected local governments. The local officials would then simulate activation of their local Public Alerting System (PAS) to precede an EBS message release. Activation of the EBS will occur at the State Office of Emergency Management only. The State RERP does not authorize local activation of EBS during a declared "State of Emergency". Local governments *may* choose to develop and simulate release of Local News Advisories.

Objective 12. EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

Extent of Play - General

- Activities to establish a primary information facility for the coordinating of media information will be demonstrated.
- Activities demonstrated will include a media briefing and the generation of press releases. Demonstration of in-person or telephone interaction with media representatives may be demonstrated by the use of actual media representatives or players simulating the role during the briefings.

Extent of Play - Specific

1. Activation of the Joint Media Center at the State Armory will be demonstrated and a representative from the Governor's Press Office and the utility public information group will be present. This activity will also include; distribution of media kits, detailed discussion of protective actions, site remedial actions, EBS message and press release copy distribution, use of plant equipment graphic displays during briefings, and the internal coordination of media information prior to release.

ARCAs Requiring Demonstration for Closeout

- | | |
|-----------------|---|
| 93-23 State EOC | Media Briefings, news releases and telephone books did not provide instructions for transients. |
| 93-24 State EOC | Governor's briefing explained entire population of towns to evacuate, EBS messages and news release indicated only partial evacuations. |

Objective 13. EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control activities in a coordinated and timely manner.

Extent of Play - General

- Rumor Control activities will be established and demonstrated as in an actual emergency.

Extent of Play - Specific

1. The State EOC will activate the Rumor Control Desk for demonstration. A control cell will be utilized to initiate rumors into the system at the state and utility level. The control cell will demonstrate this objective by the insertion of at least six (6) rumors per hour to *each* rumor control staff person, **after** the Governor's declaration of a state of emergency. Rumor control activities to be demonstrated include; securing of current information, receiving updates, relaying information to callers, activities and equipment for the monitoring of media news coverage. The control cell provided calls will be developed and released in a manner to indicate trends, for analysis and action by the EOC public information staff.

Objective 14.	IMPLEMENTATION OF PROTECTIVE ACTIONS- USE OF KI FOR EMERGENCY WORKERS, INSTITUTIONALIZED INDIVIDUALS, AND THE GENERAL PUBLIC
----------------------	---

Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and if the State plan specifies, the general public.

Extent of Play - General

- The implementation of Potassium Iodide protective actions for emergency workers will be demonstrated in accordance with the State RERP.

Extent of Play - Specific

1. The RERP permits State and Town of Waterford emergency workers assigned to duties within the EPZ to be administered KI during an incident with a classification of General Emergency.
2. Decision making regarding administration of Potassium Iodide to identified emergency workers will be performed in accordance with the RERP.
3. The State RERP does not permit Potassium Iodide to be issued to institutionalized persons or members of the general public. (Refer to RERP Volume I)

Objective 15.	IMPLEMENTATION OF PROTECTIVE ACTIONS - SPECIAL POPULATIONS
----------------------	---

Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.

Extent of Play - General

- Implementation activities for special populations will be demonstrated by appropriate staff as they would in an actual emergency.

Extent of Play - Specific

1. This objective will be demonstrated in general, by table top discussions involving state personnel. These discussions will establish the need for protective action implementation for the special needs population, securing transportation resources, mobilizing transportation resources and utilizing the Evacuation Resource Inventory (Volume 6) of the State RERP.
2. Local Communities will demonstrate this objective by table top discussion to include; identification of special needs populations, transportation requirements and the coordination of activities with the State OEM to obtain additional transportation resources as necessary.

Objective 16. IMPLEMENTATION OF PROTECTIVE ACTIONS-SCHOOLS

Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).

Extent of Play - General

- Three selected communities will demonstrate the ability and resources necessary to implement protective actions for school children within the EPZ. Activities associated with demonstration of this objective may be performed out-of-sequence. Demonstration of this objective will include participation of state and local emergency management officials, school officials and the vehicle dispatch office.

This objective will be demonstrated by the following communities:

- Town of Montville
- Hamlet of Fishers Island, New York
- Town of Groton

Extent of Play - Specific

1. All activities associated with the implementation of school protective actions will be demonstrated to simulate an emergency occurring during the school day. A simulated message will be transmitted, recommending evacuation of schools within the community selected. The local EOC staff will review and approve the recommendation, then direct the School Superintendent to simulate evacuation of the selected school. The School Superintendent will notify the school Principal and make arrangements for transportation.
2. The selected School Principal will review plans, select a bus guide and coordinate other activities, as necessary.
3. The evacuee vehicle driver will proceed to the selected school, embark the bus guide and simulated evacuees, then proceed to the host community. The vehicle will be driven along the evacuation route prescribed in the plan. Communications will be demonstrated between the driver and dispatcher by use of controller inject as necessary.
4. All public school systems within the EPZ will participate in the demonstration of this objective to the extent that they receive notification from the responsible agencies during the full scale exercise.
5. The Hamlet of Fishers Island does not utilize bus transportation for school evacuation. Evacuation plans will be demonstrated by the simulation of activities to obtain emergency ferry service from the Island.

Objective 17. TRAFFIC AND ACCESS CONTROL

Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and control access to evacuated and sheltered areas.

Extent of Play - General

- Activities at the State and Local EOC's to establish *initial* traffic access and control points will be demonstrated.
- Activities to establish traffic control for rail, water and air traffic may be demonstrated by request through a control cell in the absence of federal agency participation.
- In the State of Connecticut overall coordination and implementation of the Traffic Management Plan is the responsibility of the State Police. The State Police EOC Liaison at the State EOC in Hartford, would direct implementation of the plan to the State Police Barracks in the affected area. The local Barracks in turn, will assign Troopers or Officers to control points within their jurisdiction. The local Barracks will also coordinate with and provide assistance to local law enforcement agencies in manning appropriate access points within their jurisdiction. Traffic and access control responsibilities for EPZ towns without independent law enforcement agencies is delegated to the local State Police barracks. The barracks will coordinate access control activities within the town through the CEO, Resident Trooper or Police Liaison as required.

Extent of Play - Specific

1. Activities to establish traffic control points will be demonstrated by the deployment of personnel to Traffic/Access control points specified in the plan.

Note : Normal traffic flow will not be impeded at the designated points and all activities will be conducted in a manner to assure safety of players and evaluators.

2. EOC staff (State and local barracks) will discuss the process of securing additional resources, such as wreckers, to remove traffic impediments, as required.
3. The State Police in coordination with the Department of Transportation will demonstrate providing necessary barriers for traffic and access control points. The Connecticut State Police in coordination with the Department of Transportation will demonstrate access control for two (2) locations within the EPZ. Local communities will not demonstrate traffic and access control.

Objective 18.	RECEPTION CENTER - MONITORING, DECONTAMINATION, AND REGISTRATION
----------------------	---

Demonstrate the adequacy of procedures, facilities, equipment and personnel for the radiological monitoring, decontamination, and registration of evacuees.

Extent of Play - General

- Radiological monitoring, registration and decontamination procedures for evacuated individuals, vehicles and equipment will be demonstrated at selected facilities. A reception center will be activated and players simulating evacuees will be processed by the facility.

Extent of Play - Specific

1. The designated Reception Center will conduct a limited activation of personnel and resources for demonstration purposes in the interest of cost reduction.
2. The following capabilities will be demonstrated by the Reception Center activated for exercise play:
 - a) Registration of incoming Evacuees
 - b) Personnel radiological monitoring activities using hand-held equipment or portal monitors as available at the facility. A minimum of six (6) persons will be monitored for the demonstration.
Note : If portal monitors are used during the demonstration, at least one (1) staff radiological monitor will demonstrate hand-held instrument monitoring techniques for personnel.
 - c) Contamination control measures and decontamination techniques for at least one (1) male and one (1) female will be demonstrated.
 - d) One (1) vehicle will be externally monitored and parked in a designated clean or contaminated area.
3. The communities of UConn/Storrs and Wethersfield will activate their Reception Center facilities for demonstration of this objective. These activities will occur out-of-sequence from the exercise scenario with a simulated notification from the State Office of Emergency Management Area Coordinator.

Objective 19. CONGREGATE CARE

Demonstrate the adequacy of facilities, equipment, supplies and personnel and procedures for congregate care of evacuees.

Extent of Play - General

- Organizations responsible for operation of identified care facilities will be contacted by the appropriate EOC staff.
- Demonstration of this objective will be performed out-of-sequence with the exercise scenario by a walk-through of the facility by evaluators.
- Congregate care facility staffing will be demonstrated by presentation of a current roster to evaluators.
- Availability of equipment and material for center operation may be demonstrated by the presentation of a list of resources detailing their location and quantity.

Extent of Play - Specific

Wethersfield and Storrs

1. The Red Cross will demonstrate the congregate care of evacuees at the Silas Deane Middle School in Wethersfield and the Mansfield Middle School in Storrs. Both congregate care facilities will be made available for walk-through inspection by evaluators.
2. The Red Cross will provide shelter survey documentation for inspection by evaluators.

Objective 20.	MEDICAL SERVICES-TRANSPORTATION
----------------------	--

Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured, or exposed individuals.

Extent of Play - General

- Demonstrate control of the spread of contamination from individuals who may be contaminated and injured.
- Address priorities of care between control of contamination and the need for prompt transportation to a medical facility for care of an urgent condition.
- Transportation to a medical facility equipped to deal with a contaminated, injured individual.
- Communications with the medical facility by the vehicle crew while en route.
- Monitoring of emergency vehicle and determination of the need for decontamination.
- Demonstrate adequacy of plans and procedures for the care and transportation of contaminated or exposed individuals.

Extent of Play - Specific

1. This objective will be demonstrated by licensee personnel and emergency medical personnel from the Town of Waterford and Lawrence and Memorial Hospital.
2. An individual having simulated injuries will be assessed medically and radiologically. Priorities of care will be determined based on injuries and the magnitude of radioactive contamination.
3. The individual will receive appropriate first aid using contamination control measures, prepared for transport and transported to a medical facility for treatment.
4. A member of the licensee health physics staff will accompany the patient and vehicle to the facility designated to receive the individual.
5. Communications will be demonstrated with the medical facility en route, by use of the vehicle dedicated medical radio equipment (Med Radio). This equipment is required in all ambulances in the State of Connecticut and provides duplex radio communication to all emergency medical facilities.
6. Medical procedures will be conducted in accordance with State, Local and hospital protocols and will **not** be evaluated.

Objective 21. MEDICAL SERVICES-FACILITIES

Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for the treatment of contaminated, injured, or exposed individuals.

Extent of Play - General

- Demonstrate the ability to control the spread of contamination from individuals who may be contaminated and injured.
- Demonstrate setting priorities between the need to address radioactive contamination and the prompt diagnosis and treatment of medical conditions.
- Demonstrate the appropriate decontamination of individuals

Extent of Play - Specific

1. The Lawrence and Memorial Hospital in the City of New London will demonstrate this objective.
2. An area for the diagnosis and treatment of a contaminated or exposed, injured individual will be established in accordance with hospital plans. The radiological emergency area has been predesignated and will contain or have immediate access to all equipment necessary for this function, including decontamination of patients.
3. Designated hospital personnel, assisted by licensee health physics will receive, diagnose, treat and decontaminate, as necessary, a simulated patient.
4. Actual decontamination techniques may be demonstrated by discussions with the evaluator.
5. Simulated patient treatment activities will be carried out in accordance with existing hospital plans.

ARCAs Requiring Demonstration for Closeout

93-31 *L&M Hospital*

Medical team members continuously crossed contamination boundaries without regard for cross contamination.

List of Objectives not demonstrated for this Exercise

Objective #	Description
22	Emergency Workers, Equipment and Vehicles- Monitoring and Decon
23	Supplementary Assistance (Federal / Other)
24	Post Emergency Sampling
25	Laboratory Operations
26	Ingestion Exposure Pathway - Dose Projection and Protective Action Decision Making
27	Ingestion Exposure Pathway - Protective Action Implementation
28	Relocation, Re-entry, and Return - Decision Making
29	Relocation, Re-entry, and Return - Implementation
30	Continuous, 24-Hour Staffing
31	Off-Site Support for the Evacuation of On-Site Personnel
32	Unannounced Exercise or Drill
33	Off-Hours Exercise or Drill
34	Licensee Offsite Response Organizations

Note: The Town of Old Saybrook will not participate in exercise activities. Refer to June 30, 1995 letter to Louis Elisa, FEMA Region I Director from Robert Plant, Director Connecticut OEM reclassifying Old Saybrook as a non-EPZ community.

Millstone Nuclear Power Station 1995 Full Scale Exercise Offsite Objectives 6-Jul-95	Y E A R	S T A T E O F C T	R E C E P C N T R S	E A S T L Y M E	F I S H E R S I S L E Y	G R O T O N C I T Y	G R O T O N T O W N	L E D Y A R D	L Y M E	M O N T V I L L E	N E W L O N D O N	O L D L Y M E	W A T E R F O R D
1. Demonstrate ability to fully alert and mobilize personnel for both emergency facilities and field based emergency operations.	Last												
	Credited	93	91	93	93	93	93	93	*	93	93	93	93
	1988	C	*	C	C	C	C	C	*	C	C	C	C
	1991	P	C	C	C	C	C	C	*	I	C	C	C
	1993	C	*	C	93-1	C	C	C	*	C	C	C	C
	1995	P	P	P	D	P	P	P	*	P	P	P	P
2. Demonstrate adequacy of facilities and their equipment, displays, and other materials to support emergency operations.	Last												
	Credited	93	91	93	93	93	93	93	*	93	93	93	93
	1988	I	*	C	C	I	C	C	*	C	C	C	C
	1991	C	C	C	C	C	C	C	*	C	C	C	C
	1993	93-3	*	C	93-5	C	93-5	C	*	C	C	C	C
	1995	D	P	P	D	P	D	P	*	P	P	P	P
3. Demonstrate ability to direct, coordinate and control emergency activities. Demonstrate the ability to activate and staff emergency facilities for emergency operations.	Last												
	Credited	93	91	93	93	93	93	93	*	93	93	93	93
	1988	I	*	C	C	I	C	C	*	C	C	I	C
	1991	P	C	I	C	C	C	C	*	C	I	C	C
	1993	C	*	C	93-7	C	93-8	C	*	C	93-9	93-9	C
	1995	P	P	P	D	P	93-8	P	*	P	D	D	P
4. Demonstrate ability to communicate with all appropriate organizations and field personnel.	Last												
	Credited	93	91	93	93	93	93	93	*	93	93	93	93
	1988	I	*	C	C	I	C	C	*	C	C	C	C
	1991	P	C	C	C	C	C	C	*	C	C	C	C
	1993	C	*	C	C	C	C	C	*	C	C	C	C
	1995	P	*	P	P	P	P	P	*	P	P	P	P

Millstone Nuclear Power Station 1995 Full Scale Exercise Offsite Objectives 6-Jul-95	Y E A R	S T A T E O F C T	R E C E P C N T R S		E A S T L Y M E	F I S H E R S I S L E	G R O T O N C I T Y	G R O T O N T O W N	L E D Y A R D	L Y M E	M O N T V I L L E	N E W L O N D O N	O L D L Y M E	W A T E R F O R D
19. Demonstrate adequacy of facilities, equipment, supplies and personnel for congregate care of evacuees.	Last				*	*	*	*	*	*	*	*	*	*
	Credited													
	1988	*	C		*	*	*	*	*	*	*	*	*	*
	1991	*	C		*	*	*	*	*	*	*	*	*	*
	1993	*	C		*	*	*	*	*	*	*	*	*	*
	1995	*	UC		*	*	*	*	*	*	*	*	*	*
		*	WH		*	*	*	*	*	*	*	*	*	*
20. Demonstrate adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.	Last													
	Credited	93	*		*	*	*	*	*	*	*	*	*	*
	1988	C	*		*	*	*	*	*	*	*	*	*	*
	1991		*		*	*	*	*	*	*	*	*	*	*
	1993	C			*	*	*	*	*	*	*	*	*	*
	1995	*	*		*	*	*	*	*	*	MD	*	*	*
21. Demonstrate adequacy of equipment, supplies, procedures and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals.	Last													
	Credited	93	*		*	*	*	*	*	*	*	*	*	*
	1988	C	*		*	*	*	*	*	*	*	*	*	*
	1991	*	*		*	*	*	*	*	*	*	*	*	*
	1993	*	*		*	*	*	*	*	93-31	*	*	*	*
	1995	*	*		*	*	*	*	*	*	MD	*	*	*

Millstone Nuclear Power Station 1995 Full Scale Exercise Offsite Objectives 6-Jul-95	Y E A R	S T A T E O F C T	R E C E P C N T R S	E A S T L Y M E	F I S H E R S I S L E	G R O T O N C I T Y	G R O T O N T O W N	L E D Y A R D	L Y M E	M O N T V I L L E	N E W L O N D O N	O L D L Y M E	W A T E R F O R D
22. Demonstrate adequacy of procedures for decontamination of emergency workers, equipment, materials and for waste disposal of contaminated water.	Last Credited	93	93	91	84	91	91	91	*	88	91	84	91
23. Demonstrate ability to identify the need for external assistance and to request such assistance from Federal agencies or other support organizations. (GM-17-32)	Last Credited	93	*	*	*	*	*	*	*	*	*	*	*
24. Demonstrate the use of equipment and procedures or the collection and transport of ingestion samples.	Last Credited	93	*	*	*	*	*	*	*	*	*	*	*
	1988		*	*	*	*	*	*	*	*	*	*	*
	1991		*	*	*	*	*	*	*	*	*	*	*
	1993	C	*	*	*	*	*	*	*	*	*	*	*
	1995	*	*	*	*	*	*	*	*	*	*	*	*

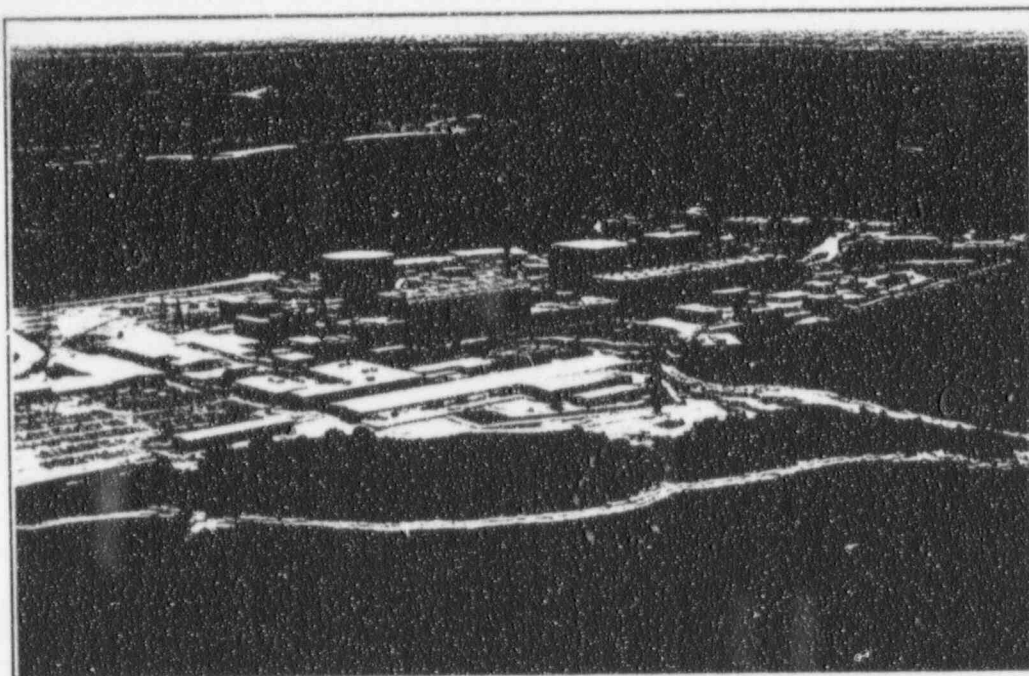
Millstone Nuclear Power Station 1995 Full Scale Exercise <i>Offsite Objectives</i> 6-Jul-95	Y E A R	S T A T E O F C T	R E C E P C N T R S	E A S T L Y M E	F I S H E R S I S L E	G R O T O N C I T Y	G R O T O N T O W N	L E D Y A R D	L Y M E	M O N T V I L L E	N E W L O N D O N	O L D L Y M E	W A T E R F O R D
28. Demonstrate ability to determine appropriate measures for controlled reentry and recovery.	Last												
	Credited	91	*	84	84	84	84	84	*	84	84	84	84
	1988		*	*	*	*	*	*	*	*	*	*	*
	1991	P	*	*	*	*	*	*	*	*	*	*	*
	1993		*	*	*	*	*	*	*	*	*	*	*
	1995	*	*	*	*	*	*	*	*	*	*	*	*
29. Demonstrate ability to implement appropriate measures for controlled reentry and recovery.	Last												
	Credited	91	*	84	84	84	84	84	*	84	84	84	84
	1988		*	*	*	*	*	*	*	*	*	*	*
	1991	P	*	*	*	*	*	*	*	*	*	*	*
	1993		*	*	*	*	*	*	*	*	*	*	*
	1995	*	*	*	*	*	*	*	*	*	*	*	*
30. Demonstrate ability to maintain staffing on a continuous 24-hour basis by an actual shift change.	Last												
	Credited	93	*	91	93	91	91	91	*	93	93	93	91
	1988		*	*	*	*	*	*	*	*	*	*	I
	1991	C	*	C	I	C	C	C	*	C	C	C	C
	1993	C	*	*	C	*	*	*	*	C	C	C	*
	1995	*	*	*	*	*	*	*	*	*	*	*	*

Millstone Nuclear Power Station		Y E A R	S T A T E O F C T	R E C E P T R S	E A S T L Y M E	F I S H E R S I S L E	G R O T O N C I T Y	G R O T O N T O W N	L E D Y A R D	L Y M E	M O N T V I L L E	N E W L O N D O N	O L D L Y M E	W A T E R F O R D
1995 Full Scale Exercise	Offsite Objectives													
6-Jul-95														
33. Demonstrate the ability to carry out emergency response functions during an off-hours exercise or drill.	Last Credited		93	*	93	93	93	93	93	*	93	93	93	93
	1988	C	*		C	C	C	C	C	*	C	C	C	C
	1991			*	*	*	*	*	*	*	*	*	*	*
	1993	C	*		C	C	C	C	C	C	I	C	C	C
	1995			*	*	*	*	*	*	*	*	*	*	*
34. Mobilization	*		*	*	*	*	*	*	*	*	*	*	*	*
<p>Legend</p> <p>'P' = Planned</p> <p>'C' = Completed</p> <p>'I' = Incomplete</p> <p>'*' = Not Applicable</p> <p>'Shaded Box' = Deficiency Noted (ARCA/ARFI)</p> <p>C(1) = Requirement met 2/94 as approved by FEMA Region 1</p> <p>'D' = Demonstration for ARCA closure</p> <p>'PG' = Preston Bus Garage</p> <p>'WH' = Wethersfield</p> <p>'UC' = Storrs</p> <p>'MD' = Medical Drill</p>														

MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995



Exercise Manual

**APPENDIX B-
HOST COMMUNITIES/RECEPTION CENTERS**

Northeast Utilities Service Company

UCONN/Storrs and WETHERSFIELD
HOST COMMUNITY EXERCISE SCENARIO
 Saturday, September 30, 1995 and Friday, October 6, 1995

Approx. TIME	EVENT	REP OBJ.	CONTROLLER MESSAGE	PLAYER
Uc-9:00am We- 4:00pm	Area 3 Coordinator calls to notify Host Community via telephone call to Dispatcher.	Obj. # 1	#1 Lead Controller (Command)	To OEM Area 3 Coordinator.
Uc-9:10am We- 4:10pm	Dispatcher requests authorization to make calls to key department heads to respond to EOC. Dispatcher notes time of call and ETA. This information is provided to the EOC Director within 1 hour or as requested.	Obj. # 1	#2 Lead Controller (Default)	Fire/Police Dispatcher
Uc-9:30- 10:00 We-4:30- 5:00	★EOF staff begin to arrive at EOC. EOC is activated.	Obj. #1		Department Heads, EOC Director
Uc-10:00 -10:15 We-5:00- 5:15	Communication check is made to Area 3 Office.	Obj. #4	#3 EOC Controller (Default)	To Communications Officer or EOC Director

Approx. TIME	EVENT	REP OBJ.	CONTROLLER MESSAGE	PLAYER
Uc-10:15am We-5:15pm	★EOC Director briefing to department heads. Determination is made to prepare for arrival of evacuees by activating a Reception Center and shelter.	Obj. #3	#4 EOC Controller (Default)	To Director and EOC staff.
Uc-10:00-10:30am We-5:00-5:30pm	EOC staff calls out staff for activation of the Reception Center. Pre-positioned at Fire Stations.	Obj. #1	#5 EOC Controller (Default)	To EOC staff.
Uc-10:30-10:45am We-5:30-5:45pm	Emergency response staff begins to arrive at Reception Center to set-up monitoring, decontamination and registration areas.	Obj. #1,18		Reception Manager to EOC Communications Officer.
Uc-10:00-10:30 We-5:00-5:30	Shelter Manager discusses opening shelter with EOC Director.	Obj. #2,19	#6 EOC Controller (Default)	EOC Director
Uc-11:00 We-6:00	Communications check from Reception Center to EOC is conducted.	Obj. #4	#7 Reception Center Controller	To Reception Center Manager
Uc-11:00-11:30 We-6:00-6:30	Communications check at Reception Center between Reception Center Manager and remote stations.	Obj. #4	#8 Reception Center Controller (Default)	To Reception Center Manager

Approx. TIME	EVENT	REP OBJ.	CONTROLLER MESSAGE	PLAYER
Uc-11:00-11:30am We-6:00-6:30pm	★CDV-700 survey instruments are set up and operationally checked for distribution to RM's in accordance with procedure HCP 4.4.	Obj. #18	#9 Reception Center Controller (Default)	To Reception Center Manager
Uc-11:00-11:30am We-6:00-6:30pm	★Dosimetry Packets are prepared for issue to emergency workers in accordance with HCP 4.3.	Obj. # 5	#10 Reception Center Controller (Default)	To Reception Center Manager
Uc-11:00-11:30am We-6:00-6:30pm	★Portal Monitor operational check on one portal monitor is completed with Cs 137 source in accordance to procedure HCP 4.4.	Obj. #18	#11 Reception Center Controller (Default)	Reception Center Manager
Uc-11:30-12:00am We-6:30-7:00pm	Reception Center manager notifies EOC when Reception Center is adequately staffed for operations to begin.	Obj. #4	#12 Reception Center Controller (Default)	To Reception Manager.
Uc-11:30-12:00 We-6:30-7:00	EOC director notifies Area 3 Coordinator when Reception Center is ready.	Obj. #4	#13 EOC Controller (Default)	To EOC Director

Approx. TIME	EVENT	REP OBJ.	CONTROLLER MESSAGE	PLAYER
Uc-12:00-1:00pm We-7:00-8:00	★Vehicle Monitoring of arriving vehicles and parking in designated clean/contaminated parking areas is demonstrated.	Obj. #18	#14 & #15 Vehicle Monitor Controller (Command)	Vehicle Rad. Monitoring Team Demonstration for FEMA Region 1, evaluator.
Uc-12:00-1:00pm We-7:00-8:00pm	★★Alternate RM of individual not able to pass through portal monitor.		#16 Personnel RM Controller (Command)	Portal Monitor Attendant
Uc-12:00-1:00pm We-7:00-8:00pm	★Six individuals are consecutively monitored for evaluation of 12 hour criteria.	Obj. #18	#17 Personnel RM Controller (Command)	Portal Monitor Attendant
Uc-12:00-1:00pm We-7:00-8:00pm	★A contaminated individual is identified via controller message and is directed to the decontamination area.	Obj. #18	#18 Personnel RM Controller (Command)	Portal Monitor Attendant
Uc-12:00-1:00pm We-7:00-8:00	★Contamination and monitoring of identified contaminated individual is conducted through verbal explanation and actual pre and post monitoring in decon. station.	Obj. #18	#19A+B Personnel RM Controller (Command)	Decon. Station Attendant

Approx. TIME	EVENT	REP OBJ.	CONTROLLER MESSAGE	PLAYER
Uc-12:00-- 1:00pm We-7:00- 8:00pm	★Evacuees from the monitoring and decontamination areas are registered by registration staff and offered shelter.	Obj. #18	#20-24 Registration Area or Reception Center Controller (Command)	Evacuees hand carry message to registrars.
Uc-1:00pm We- 8:00pm	When all Reception Center objectives have been demonstrated and observed to the satisfaction of evaluators, a termination message is given to the Reception Center Manager and EOC Director.		#25 Lead Controller and EOC Controller (Command)	To EOC Director and Reception Center Manager.
Uc-1:05pm We-8:05pm	Staff is directed to collect all written notes, logs, etc to be provided to the EOC Director and Reception Manager.			To EOC Director and Reception Center Manager.
Uc-1:30- 2:00pm We-8:30- 9:00pm	Players conduct self-critique for comments and suggestions.			All Reception Center and EOC staff.

★ Must be observed by evaluators.

★★ Should be observed as alternate means of monitoring.

INDEX TO HOST COMMUNITY MESSAGES

MESSAGE #	CONTROLLER	TYPE	ISSUED (✓)
1	AREA COORDINATOR	COMMAND, FAX 1,2,3	
2	LEAD	CONTINGENCY	
3	EOC	CONTINGENCY	
4	EOC	CONTINGENCY	
5	EOC	CONTINGENCY	
6	EOC	CONTINGENCY	
7	RECEPTION CENTER	CONTINGENCY	
8	RECEPTION CENTER	CONTINGENCY	
9	RECEPTION CENTER	CONTINGENCY	
10	RECEPTION CENTER	CONTINGENCY	
11	RECEPTION CENTER	CONTINGENCY	
12	RECEPTION CENTER	CONTINGENCY	
13	EOC	CONTINGENCY	
14	VEHICLE	COMMAND (5)	
15	VEHICLE	COMMAND, 3 FORMS	
16	PERSONNEL MONITORING	COMMAND	
17	PERSONNEL MONITORING	COMMAND	
18	PERSONNEL MONITORING	CONTINGENCY	
19A	DECONTAMINATION AREA	COMMAND	
19B	DECONTAMINATION AREA	COMMAND	
20	REGISTRATION AREA	COMMAND	
21-24	REGISTRATION AREA	COMMAND	
25	RECEPTION CENTER/EOC	COMMAND	

COMMAND MESSAGE

TO: Area III Coordinator
FROM: Host Community Lead Exercise Controller
TIME: **U-9:00 a.m.**
W-4:00 p.m.

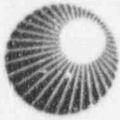
Call the UConn Fire Dispatcher and provide the following information:
Call the Wethersfield Police Dispatcher and provide the following information:

"THIS IS A DRILL

As part of the State of Connecticut Nuclear Exercise, an emergency at the Millstone Nuclear Power plant occurred earlier today. Due to radioactive release from the plant's nuclear reactor building presenting a potential threat to nearby residents, the Governor has declared a State of Emergency and recommended the evacuation of the (~~Zone~~ **Zone 3 affecting Town of Ledyard**) (Zone 1 affecting Town of Waterford) residents. Activate your emergency response organization in preparation to receive arriving evacuees from (**Ledyard**) (Waterford) in approximately two hours.

THIS IS A DRILL"

FAX# 1



Northeast Utilities System

This is a DRILL

NUCLEAR INCIDENT REPORT

OP4926 REV 12-93

PLEASE CHECK APPROPRIATE BOXES

1 THIS IS THE SHIFT SUPERVISOR'S STAFF ASSISTANT - MILLSTONE STATION *Kevin Higgins*

2 THIS REPORT CONCERNS AN INCIDENT AT
 MILLSTONE SITE MILLSTONE UNIT 1 MILLSTONE UNIT 2 MILLSTONE UNIT 3 HADDAM NECK PLANT

3 THIS IS
 A DRILL NOT A DRILL

INCIDENT CLASS	<input type="checkbox"/> A COMMUNICATIONS DRILL	POSTURE CODE	<input type="checkbox"/> A Communications Drill
	<input type="checkbox"/> A RADIOACTIVE MATERIALS INCIDENT		<input type="checkbox"/> Golf <input type="checkbox"/> Fox
	<input type="checkbox"/> A GENERAL INTEREST EVENT		<input type="checkbox"/> Echo
	<input type="checkbox"/> AN UNUSUAL EVENT		<input type="checkbox"/> Delta-One (No radiological release) <input type="checkbox"/> Delta-Two (Radiological release)
	<input type="checkbox"/> AN ALERT		<input type="checkbox"/> Charlie-One
	<input checked="" type="checkbox"/> A SITE AREA EMERGENCY		<input checked="" type="checkbox"/> Charlie-Two
<input type="checkbox"/> A GENERAL EMERGENCY	<input type="checkbox"/> Bravo <input type="checkbox"/> Alpha		

5 THE EVENT WAS CLASSIFIED ON DATE *9/30/95* AT *0830* HRS (USE MILITARY TIME)

6 THE EVENT INVOLVES
 NO RELEASE OF RADIOACTIVITY POTENTIAL RELEASE OF RADIOACTIVITY ONGOING RELEASE OF RADIOACTIVITY TERMINATED RELEASE OF RADIOACTIVITY

7 CURRENT SITE WIND AT *0830* HOURS (MILITARY TIME) WIND AT THE SITE IS FROM *SW* INTO THE *SE* AT *14* MPH NOT APPLICABLE

8 FORECASTED SITE WIND
 NOT APPLICABLE
 THE WIND IS EXPECTED TO SHIFT AT _____ HOURS (MILITARY TIME) AND BLOW FROM THE _____ INTO THE _____ AT _____ MPH (EXAMPLE NNW) (EXAMPLE SSE)

9 THE PLANT STATUS IS
 STABLE DEGRADING IMPROVING UNCHANGED SINCE LAST REPORT

10 ACCESS TO THE SITE
 HAS BEEN RESTRICTED HAS NOT BEEN RESTRICTED

11 THE FOLLOWING OFFSITE SERVICES HAVE BEEN REQUESTED:
 POLICE FIRE AMBULANCE NONE OTHER

12 A FURTHER REPORT:
 WILL BE GIVEN WILL NOT BE GIVEN *non-essential*

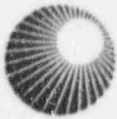
13 ADDITIONAL INFORMATION (PROVIDED WITH UPDATE REPORTS ONLY):
An evaluation of plant personnel due to significant damage to reactor cooling system with a loss of on-site power. Concern for a potential release of steam may affect decision to ~~plan~~ local population. ~~etc~~

14 NAME (PERSON FILLING OUT REPORT): *evaluate* DATE: *This is a drill 9/30/95 08:30A* TIME

15 AUTHORIZATION SIGNATURE FOR RELEASE OF MESSAGE:

16 AND IS BEING REPORTED ON DATE: *Controller* (USE MILITARY TIME) HRS: *mirando to Host Asm minutes #1*

FAX # 3



Northeast Utilities System

This is a DRILL.

NUCLEAR INCIDENT REPORT

OP4926 REV 12-93

-PLEASE CHECK APPROPRIATE BOXES-

1 THIS IS THE SHIFT SUPERVISOR'S STAFF ASSISTANT - MILLSTONE STATION

THIS REPORT CONCERNS AN INCIDENT AT

2 MILLSTONE SITE MILLSTONE UNIT 1 MILLSTONE UNIT 2 MILLSTONE UNIT 3 HADDAM NECK PLANT

THIS IS

3 A DRILL NOT A DRILL

INCIDENT CLASS	<input type="checkbox"/> A COMMUNICATIONS DRILL	POSTURE CODE	<input type="checkbox"/> A Communications Drill
	<input type="checkbox"/> A RADIOACTIVE MATERIALS INCIDENT		<input type="checkbox"/> Golf <input type="checkbox"/> Fo:
	<input type="checkbox"/> A GENERAL INTEREST EVENT		<input type="checkbox"/> Echo
	<input type="checkbox"/> AN UNUSUAL EVENT		<input type="checkbox"/> Delta-One (No radiological release) <input type="checkbox"/> Delta-Two (Radiological release)
	<input type="checkbox"/> AN ALERT		<input type="checkbox"/> Charlie-One
	<input type="checkbox"/> A SITE AREA EMERGENCY		<input type="checkbox"/> Charlie-Two
	<input checked="" type="checkbox"/> A GENERAL EMERGENCY		<input checked="" type="checkbox"/> Bravo <input type="checkbox"/> Alpha

5 THE EVENT WAS CLASSIFIED ON DATE 9/30/95 AT 1045 HRS. (USE MILITARY TIME)

6 THE EVENT INVOLVES NO RELEASE OF RADIOACTIVITY POTENTIAL RELEASE OF RADIOACTIVITY ONGOING RELEASE OF RADIOACTIVITY TERMINATED RELEASE OF RADIOACTIVITY

7 CURRENT SITE WIND: 1045 HOURS (MILITARY TIME) WIND AT THE SITE IS FROM SW INTO THE SE AT 10 MPH. NOT APPLICABLE

8 FORECASTED SITE WIND: NOT APPLICABLE THE WIND IS EXPECTED TO SHIFT AT _____ HOURS (MILITARY TIME) AND BLOW FROM THE _____ INTO THE _____ AT _____ MPH (EXAMPLE NNW) (EXAMPLE SSE)

9 THE PLANT STATUS IS STABLE DEGRADING IMPROVING UNCHANGED SINCE LAST REPORT

10 ACCESS TO THE SITE: HAS BEEN RESTRICTED HAS NOT BEEN RESTRICTED

11 THE FOLLOWING OFFSITE SERVICES HAVE BEEN REQUESTED: POLICE FIRE AMBULANCE NONE OTHER

12 A FURTHER REPORT: WILL BE GIVEN WILL NOT BE GIVEN

13 ADDITIONAL INFORMATION (PROVIDED WITH UPDATE REPORTS ONLY):
Operators have ~~successfully~~ stopped the steam release to the atmosphere. On-site power has been restored and recirculation of Reactor cooling water is ongoing. A state of emergency remains in ~~place~~ effect.

14 NAME (PERSON FILLING OUT REPORT) DATE TIME

15 AUTHORIZATION SIGNATURE FOR RELEASE OF MESSAGE: *This is a drill*

16 AND IS BEING REPORTED ON DATE AT *Host Community Message.*

DEFAULT MESSAGE

TO: POLICE/FIRE DISPATCHER

FROM: LEAD CONTROLLER

TIME: U-9:10 a.m.
W-4:10 p.m.

THIS IS A DRILL.

NOTIFY THE EMD (PUBLIC SAFETY) FOR AUTHORIZATION TO START
CALL-OUT NOTIFICATIONS TO EMERGENCY ORGANIZATION ON
CALL-OUT LIST. PERFORM ACTIONS AS DESCRIBED IN THE
DISPATCHER'S PROCEDURE CHECKLIST.

THIS IS A DRILL

UCONN

Radiological Emergency Response Organization Call-Out List*

POSITION	NAME	WORK TEL.#	HOME TEL.#	TIME NOTIFIED	EST. TIME OF ARRIVAL
Associate Finance Vice-President/OFA	Dr. William Hagen	486-4429			
Alternate	William Barrett	486-4429	429-1642		
Police Dept.	Robert Hudd	486-4806	228-9768		
Alternate	Donn Harandeen	"			
Communications Officer	Kenneth Fargo	486-4806	376-6166		
Fire/Ambulance Dept.	Fran Williams	486-4925	228-9649		
Alternate	Paul Gworek	486-4925	873-1894		
Radiation Safety Office	Ed Wilds	486-3613	376-3469		
University Student Health Services	Mike Kurland	486-0744	487-0165		
Dept. of Personnel	John Toller	486-2067	646-7603		
	Dennis Dion Sandy Mayhew Judy Lock	486-2580	456-8174 423-9674 684-3913		
Transportation Services	William Barrett	486-4429	429-1642		
Office of Facilities/ Physical Plant	Larry Schilling	486-3116			
Student Health Services	Mike Kurland	Beeper 1-800-512-2808			
Alternate	Bev. Beckwith	486-4700	875-8312		
Department of Residential Life	Carmen Vance	486-3030	228-4509		
University Public Relations	Karen Williams Rich Beilleux	486-3530/ 486-6397 353-0486	n/a 546-6983		
Alternate	Luis Mocete	486-3530	870-3957		
Mansfield Fire Marshal/CPD	John Jackman	429-3228	487-1905 pager 340-6019		
Mansfield Vol. Fire Co.	Fire Chief	429-5290			
Local Red Cross Red Cross Headquarters	Robin Mullaney Lois-Grady Wesbecher	423-4748 24 hr. 678-2825			

*Provide this list to the EOC Director as soon as calls are completed or within 1 hour.

*Exercise Call-out
only*

WETHERSFIELD

POLICE DISPATCHER EMERGENCY ORGANIZATION CALL-OUT LIST

POSITION	NAME	WORK TEL. NO.	HOME TEL. .	TIME NOTIFIED	EST. TIME OF ARRIVAL
TOWN MANAGER	Lee Erdmann	721-2800 930-2293 cellular 939-2080 pager	721-1860		
EMERGENCY MANAGEMENT DIRECTOR/Physical Services Director	Joe Hart	721-2845	529-9376		
Physical Services Admin.	Tony Martino	721-2845	563-2512		
POLICE DIVISION	John Karagekas	721-2909	563-0032		
FIRE MARSHAL/RO	Gary Santoro	721-2806			
FIRE DIVISION	John McAuliffe	721-2830	529-9958		
BOARD OF ED.	Stan Rasslion				
HEALTH DEPT.	Paul Hutcheon	721-2822	667-0700		
HUMAN SERVICES	John Cosker Peg Rooney	721-2814	563-7278		
PARKS & REC.	Kathleen Bagley	721-2890	666-5885		
AMERICAN RED CROSS Headquarters, Disaster Services	Melissa Bennett Lois-Grady Wesbecher	678-2825 678-2825	651-6295 pager 842-0634		

*Provide this list to the EOC Director as soon as calls are completed.

CONTROLLER MESSAGE #3

CONTINGENCY MESSAGE

TO: EOC DIRECTOR

FROM: EOC CONTROLLER

TIME: U-10:00-10:15 a.m.
W-5:00-5:15 p.m.

THIS IS A DRILL.

CONDUCT A RADIO COMMUNICATIONS CHECK WITH THE AREA III
COORDINATORS OFFICE.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: EOC DIRECTOR

FROM: EOC CONTROLLER

TIME: U-10:15 a.m.
W-5:15 p.m.

THIS IS A DRILL

CONDUCT A BRIEFING TO DEPARTMENT HEADS ON THE STATUS OF
THE EMERGENCY AS PROVIDED BY OEM AREA III OFFICE.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: EOC DIRECTOR (FOR EOC STAFF)

FROM: EOC CONTROLLER

TIME: U-10:00-10:30 a.m.
W-5:00-5:30 p.m.

THIS IS A DRILL

REQUEST CALL OUT OF SUPPORT STAFF TO ACTIVATE THE
RECEPTION CENTER .

THIS IS A DRILL

Contingency
COMMAND MESSAGE

TO: RED CROSS

FROM: EOC CONTROLLER

TIME: **U-10:00-10:30 a.m.**
W-5:00-5:30 p.m.

THIS IS A DRILL.

DISCUSS THE OPENING SHELTER(S) IN COORDINATION WITH EOC DIRECTOR. DETERMINE SHELTERING NEEDS AND SHELTER CAPACITIES IF (**ZONE 3**) (ZONE 1) WERE EVACUATED. SIMULATE OPENING OF SHELTER. KEEP EOC INFORMED OF RED CROSS RESOURCES.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: RECEPTION CENTER MANAGER

FROM: RECEPTION CENTER CONTROLLER

TIME: U-11:00 a.m.
W-6:00 p.m.

THIS IS A DRILL

CONDUCT A RADIO COMMUNICATIONS CHECK WITH THE EOC.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: RECEPTION CENTER MANAGER AND STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-11:00-11:30 a.m.
W-6:00-6:30 p.m.

THIS IS A DRILL

CONDUCT A CHECK OF RADIO COMMUNICATIONS WITH RECEPTION
CENTER STAFF IN DECONTAMINATION STATIONS AND VEHICLE
MONITORING AREA.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: RECEPTION CENTER RADIOLOGICAL LEAD

FROM: RECEPTION CENTER CONTROLLER

TIME: U--11:00-11:30 a.m.
W--6:00-6:30 p.m.

THIS IS A DRILL.

CHECK CDV-700 SURVEY METERS AND DISTRIBUTE TO MONITORING
TEAMS.

THIS IS A DRILL

CONTROLLER MESSAGE #10

CONTINGENCY MESSAGE

TO: RECEPTION CENTER RADIOLOGICAL LEAD

FROM: RECEPTION CENTER CONTROLLER

TIME: U-11:00-11:30 a.m.
W-6:00-6:30 p.m.

THIS IS A DRILL.

PREPARE DOSIMETRY PACKETS FOR DISTRIBUTION.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: RECEPTION CENTER RADIOLOGICAL LEAD

FROM: RECEPTION CENTER CONTROLLER

TIME: U-11:00-11:30 a.m.
W-6:00-6:30 p.m.

THIS IS A DRILL.

SET UP AND OPERATIONALLY CHECK AT LEAST ONE PORTAL
MONITOR FOR EVACUEE MONITORING USING CS-137 SOURCE.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: RECEPTION CENTER MANAGER

FROM: RECEPTION CENTER CONTROLLER

TIME: U-11:30-12:00 a.m.
W-6:30-7:00 p.m.

THIS IS A DRILL

NOTIFY THE EOC WHEN THE RECEPTION CENTER IS ADEQUATELY STAFFED AND READY TO RECEIVE EVACUEES FOR MONITORING, DECONTAMINATION AND REGISTRATION.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: EOC DIRECTOR

FROM: EOC CONTROLLER

TIME: U-11:30-12:00 p.m.
W-6:30-7:00p.m.

THIS IS A DRILL

NOTIFY AREA III WHEN RECEPTION CENTER IS OPERATIONAL.

THIS IS A DRILL

COMMAND MESSAGE

TO: VEHICLE MONITOR TEAM

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00 p.m.
W-7:00-8:00 p.m.

THIS IS A DRILL.

THIS VEHICLE IS NOT CONTAMINATED, TAKE
APPROPRIATE ACTION.

THIS IS A DRILL.

COMMAND MESSAGE

TO: VEHICLE MONITOR TEAM

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00 p.m.
W-7:00-8:00 p.m.

THIS IS A DRILL.

THIS VEHICLE IS CONTAMINATED, TAKE APPROPRIATE
ACTION.

THIS IS A DRILL.

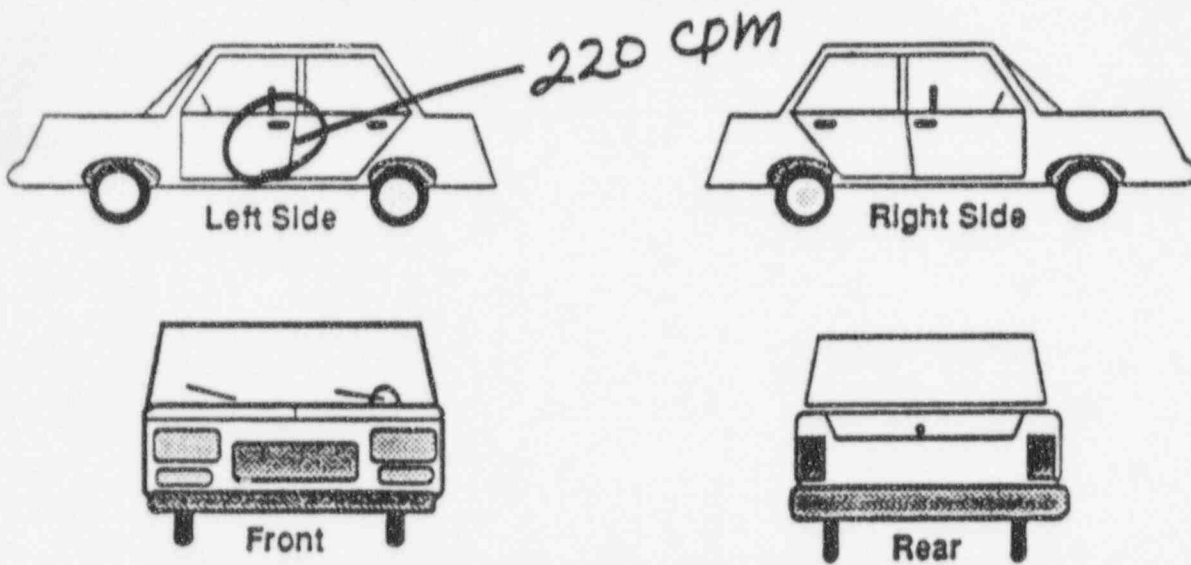
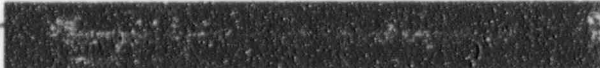
HOST MESSAGE ATTACHMENT 3

EMERGENCY PREPAREDNESS Vehicle Monitoring/Decontamination

PRIVATE VEHICLE EMERGENCY VEHICLE

OP6121 6-93

DRIVER'S NAME		SOCIAL SECURITY NO.		DATE	TIME
HOME ADDRESS (STREET)		CITY	STATE	ZIP CODE	
VEHICLE LICENSE PLATE NO.	STATE	VEHICLE MAKE	MODEL	YEAR	
LOCATION					



VEHICLE AREA (DESCRIBE)	INITIAL MONITOR	SECOND MONITOR
BACKGROUND	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM

FINAL ACTION

STATUS	LOCATION
<input type="checkbox"/> VEHICLE DECONTAMINATED <input type="checkbox"/> VEHICLE IMPOUNDED	
OTHER (DESCRIBE)	

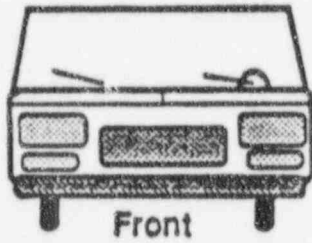
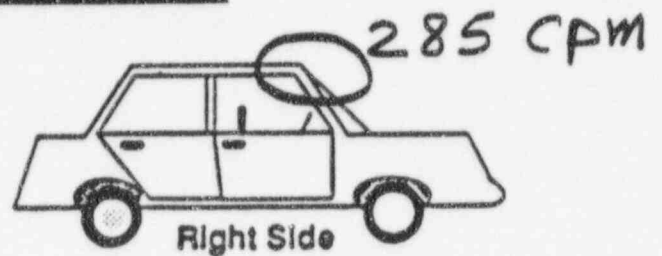
HOST MESSAGE ATTACHMENT 2

EMERGENCY PREPAREDNESS Vehicle Monitoring/Decontamination

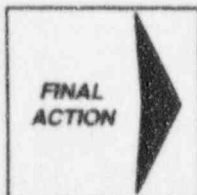
PRIVATE VEHICLE EMERGENCY VEHICLE

OP6121 6-83

DRIVER'S NAME		SOCIAL SECURITY NO		DATE	TIME
HOME ADDRESS (STREET)		CITY		STATE	ZIP CODE
VEHICLE LICENSE PLATE NO	STATE	VEHICLE MAKE	MODEL	YEAR	
LOCATION					



VEHICLE AREA (DESCRIBE)	INITIAL MONITOR	SECOND MONITOR
BACKGROUND	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM



STATUS	LOCATION
<input type="checkbox"/> VEHICLE DECONTAMINATED <input type="checkbox"/> VEHICLE IMPOUNDED	
OTHER (DESCRIBE)	

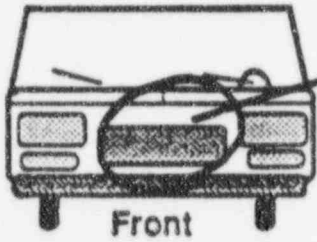
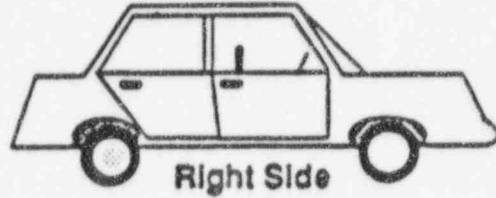
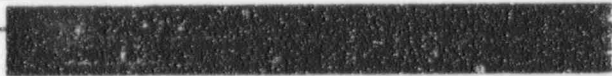
HOST MESSAGE ATTACHMENT 1

EMERGENCY PREPAREDNESS Vehicle Monitoring/Decontamination

PRIVATE VEHICLE EMERGENCY VEHICLE

OPG121 6-83

DRIVER'S NAME		SOCIAL SECURITY NO.		DATE	TIME
HOME ADDRESS (STREET)		CITY		STATE	ZIP CODE
VEHICLE LICENSE PLATE NO.	STATE	VEHICLE MAKE	MODEL	YEAR	
LOCATION					



185 CPM



VEHICLE AREA (DESCRIBE)	INITIAL MONITOR	SECOND MONITOR
BACKGROUND	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM
	CPM	CPM

FINAL ACTION	STATUS <input type="checkbox"/> VEHICLE DECONTAMINATED <input type="checkbox"/> VEHICLE RESPONDED	LOCATION
	OTHER (DESCRIBE)	

COMMAND MESSAGE

TO: VEHICLE MONITOR TEAM

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00 p.m.
W-7:00-8:00 p.m.

THIS IS A DRILL.

THIS VEHICLE IS CONTAMINATED, TAKE APPROPRIATE
ACTION.

THIS IS A DRILL.

COMMAND MESSAGE

TO: PORTAL MONITOR ATTENDANT

FROM: RECEPTION CENTER CONTROLLER

TIME: U 12:00-1:00 p.m.
W 7:00 - 8:00 p.m.

THIS IS A DRILL

THIS INDIVIDUAL IS UNABLE TO PASS THROUGH THE
PORTAL MONITOR. TAKE APPROPRIATE ACTION.

THIS IS A DRILL

COMMAND MESSAGE

TO: PORTAL MONITOR ATTENDANT

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00 p.m.
W-7:00-8:00 p.m.

THIS IS A DRILL

MONITOR SIX INDIVIDUALS, CONSECUTIVELY,
THROUGH THE PORTAL MONITOR TO DETERMINE THE
RATE OF MONITORING PER PORTAL MONITOR.

THIS IS A DRILL

CONTINGENCY MESSAGE

TO: PORTAL MONITOR ATTENDANT

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

~~MALE~~
THIS (FEMALE) INDIVIDUAL CAUSES PORTAL MONITOR
TO ALARM, TAKE APPROPRIATE ACTION. GIVE THIS
MESSAGE TO THE INDIVIDUAL TO TAKE TO
FEMALE/MALE DECON. STAFF.

THIS IS A DRILL

COMMAND MESSAGE

TO: DECONTAMINATION PERSONNEL

FROM: PERSONNEL RAD. MONITORING CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS CONTAMINATED. MARK THE
"PERSONNEL MONITORING AND DECONTAMINATION
FORM" AND TAKE APPROPRIATE ACTION PER
PROCEDURES.

Right Hand: 225 cpm

Ear on right side of Face: 125 cpm

THIS IS A DRILL

COMMAND MESSAGE

TO: DECONTAMINATION PERSONNEL

FROM: PERSONNEL RAD. MONITORING CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS CONTAMINATED. MARK THE
"PERSONNEL MONITORING AND DECONTAMINATION
FORM" AND TAKE APPROPRIATE ACTION PER
PROCEDURES.

FOREHEAD: 160 CPM

THIS IS A DRILL

COMMAND MESSAGE

TO: REGISTRATION STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.

W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS IN NEED OF A PLACE TO STAY FOR AT
LEAST ONE NIGHT, REGISTER AND PROVIDE SHELTER
INFORMATION.

THIS IS A DRILL

COMMAND MESSAGE

TO: REGISTRATION STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS IN NEED OF A PLACE TO STAY FOR AT
LEAST ONE NIGHT. REGISTER AND PROVIDE SHELTER
INFORMATION.

THIS IS A DRILL

COMMAND MESSAGE

TO: REGISTRATION STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS IN NEED OF A PLACE TO STAY FOR AT
LEAST ONE NIGHT. REGISTER AND PROVIDE SHELTER
INFORMATION.

THIS IS A DRILL

COMMAND MESSAGE

TO: REGISTRATION STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS IN NEED OF A PLACE TO STAY FOR AT
LEAST ONE NIGHT. REGISTER AND PROVIDE SHELTER
INFORMATION

THIS IS A DRILL

COMMAND MESSAGE

TO: REGISTRATION STAFF

FROM: RECEPTION CENTER CONTROLLER

TIME: U-12:00-1:00p.m.
W-7:00-8:00p.m.

THIS IS A DRILL

THIS EVACUEE IS IN NEED OF A PLACE TO STAY FOR AT
LEAST ONE NIGHT. REGISTER AND PROVIDE SHELTER
INFORMATION

THIS IS A DRILL

CONTROLLER MESSAGE #25

COMMAND MESSAGE

TO: RECEPTION CENTER MANAGER/EOC DIRECTOR

FROM: LEAD EXERCISE CONTROLLER/EOC CONTROLLER

TIME: U--1:00-1:30 p.m.
W--8:00-8:30 p.m.




THE DRILL IS TERMINATED.

NOTIFY RECEPTION CENTER STAFF TO BEGIN TO
DISASSEMBLE RECEPTION CENTER STATIONS. RETURN
AREAS TO NORMAL STATE, REUSABLE ITEMS TO KITS
AND PREPARE INSTRUMENTS FOR STORAGE. REPORT
TO SCHOOL CAFE FOR PLAYER COMMENT.

THE UNIVERSITY of CONNECTICUT

Storrs, Connecticut

PARKING LEGEND

-  STUDENT (A thru W)
-  STAFF (1 thru 9)
-  VISITOR (Metered) M



NUMERICAL LISTING

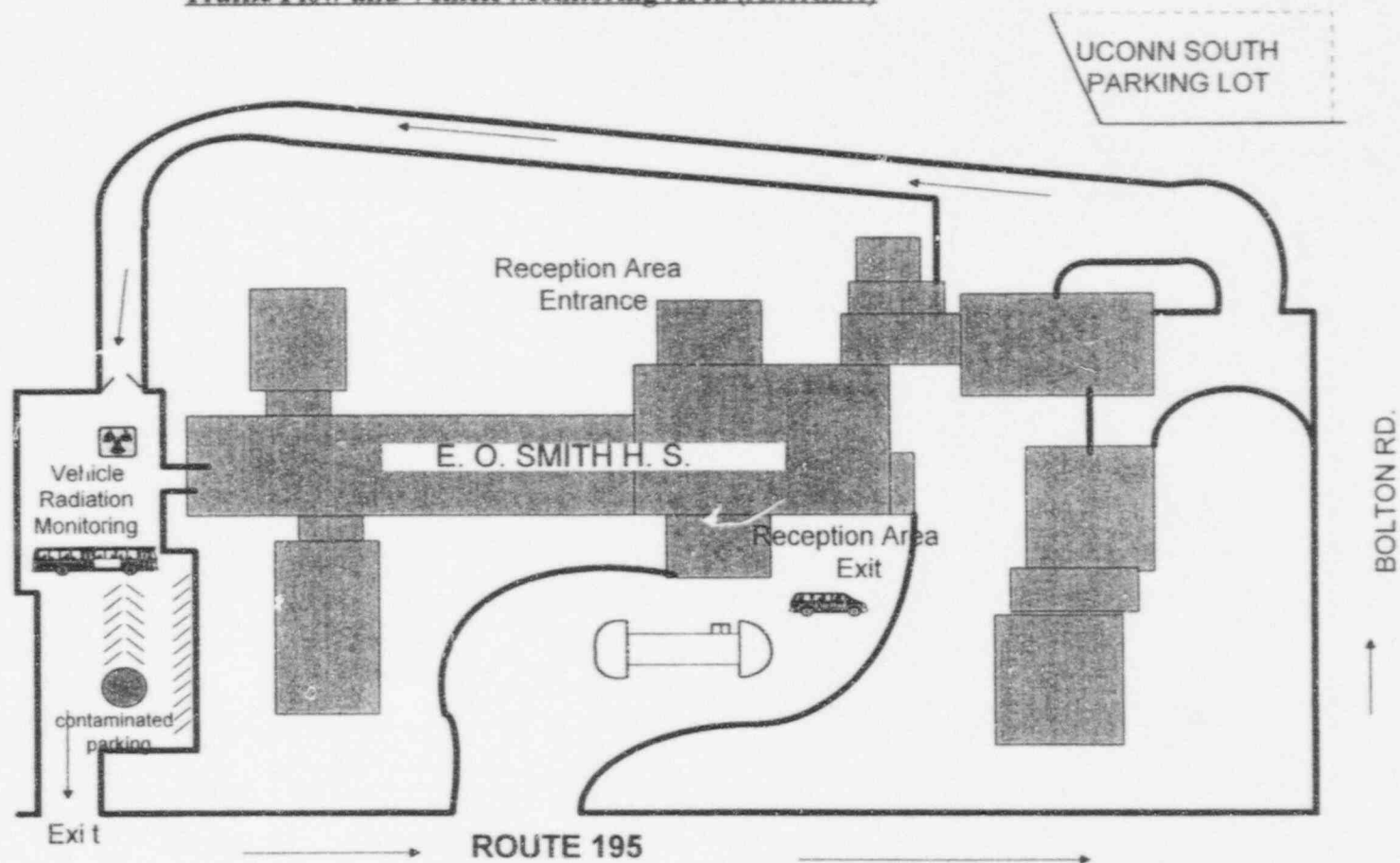
- 1 — E.O. Smith High School
- 2 — Dramatic Arts & Music
- 3 — Music Building (Studios, Library)
- 4 — Von der Mehden Recital Hall
- 5 — Art Building
- 6 — Human Development & Family Relations Bldg
- 7 — Communication Sciences Building
- a — Physical Plant, Facilities Bldg
- 8 — Information Booth
- 9 — South Campus Residences
- 0 — Alumni Quadrangle
- 1a — Internal Auditing, 606 Gilbert Road

- 13 — McMahon Hall
- 14 — Horticulture Storage
- 15 — West Campus Residences
- 16 — Graduate Residences
- 17 — Nathan L. Whetten Graduate Center
- 18 — Institute of Public and Urban Affairs
- 19 — Women's Center
- 19a — Governmental Relations/Attorney General's Office
- 20 — Counseling and Student Development Ctr
- 21 — Arizona Building (Humanities)
- 22 — Monteith Building (Social Sciences)
- 22a — Andre Schenker Lecture Hall (AS 55)
- 23 — International House
- 24 — Manchester Hall
- 25 — Design and Resource Management Building
- 26 — Budds Building (Administration)
- 27 — Hawley Armory
- 28 — Psychology Bldg
- 29 — Co-op Bookstore
- 30 — Homer Babbidge Library
- 31 — Beach Hall
- 34 — Storrs Hall
- 35 — Wilbur Cross Building
- 36 — Koons Hall
- 37 — Hall Dorm (Offices)
- 38 — William Benton Museum of Art
- 39 — Wood Hall
- 40 — Gentry Building (Education)
- 41 — Business Administration Bldg
- 42 — Pharmacy Research
- 43 — Pharmacy (H.G. Hewitt Bldg)
- 44 — Jonathans Restaurant
- 44-45 — Student Union
- 46 — Castleman Bldg. (Engineering II)
- 47 — Puerto Rican Center
- 48 — Field House (Athletics)
- 49 — Wolff-Zackin Natatorium
- 49a — Athletic Facilities Bldg. (Physical Education Bldg.)
- 50 — Harry A. Gampel Pavilion
- 50a — Memorial Stadium
- 51 — Putnam Refectory
- 52 — Hale Hall
- 53 — Ellsworth Hall
- 54 — Faculty-Alumni Center
- 54a — Centennial Alumni House
- 55 — Technical Services Center
- 56 — ROTC Building
- 57 — Transportation Services

- 59 — Engineering III (Arthur B. Bronwell Bldg)
- 60 — Engineering II
- 61 — United Technologies Building
- 62 — Facilities Maintenance Building
- 63 — Locksmith Services
- 64 — Central Warehouse
- 65 — Health Services (Infirmary)
- 66 — Nursing Building
- 67 — Planetarium
- 68 — Pathology Building
- 69 — Atwater Laboratory (Animal Genetics)
- 70 — Life Sciences (Torrey Bldg) & Annex
- 71 — Mathematical Sciences Building (E.V. Gant)
- 72 — Physics Building/E.V. Gant Complex
- 73 — Materials Science Building (E.V. Gant)
- 74 — Public Safety Complex
- 74a — UConnect
- 75 — Motor Pool
- 76 — Northwest Quadrangle
- 77 — North Campus Residences
- 78 — Hillie House
- 79 — Aquinas Center
- 80 — St. Thomas Aquinas Chapel
- 81 — St. Mark's Chapel
- 82 — Lakeside Apartments
- 83 — Admissions/Personnel
- 84 — Community House
- 85 — Storrs Congregational Church
- 86 — Floriculture (Greenhouse)
- 87 — Towers Student Activities Center

- 90 — Transportation and Parking Services
- 91 — Dairy Barn
- 92 — Agriculture Engineering Bldg. (Farm Machinery Storage)
- 93 — Animal Industries Bldg. (George White Bldg.)
- 94 — Grounds Maintenance
- 95 — Jones Building (Nutritional Sciences)
- 96 — W.B. Young Building (College of Agriculture)
- 97 — Ratcliffe Hicks Building
- 98 — Hicks Hall
- 99 — Grange Hall
- 100 — Holcomb, Whitney & Sprague Halls
- 101 — Commissary Warehouse
- 102 — Honors House
- 103 — President's Residence
- 104 — Bishop Continuing Education Center
- 105 — Shippee Hall
- 106 — Buckley Hall
- 107 — CDC Newspaper
- 108 — Publications Building (Public Relations)
- 109 — Commercial
- 110 — Art Printshop/Art Design Center
- 111 — Biobehavioral Sciences Buildings
- 112 — Diagnostic Testing Labs/Microchemistry

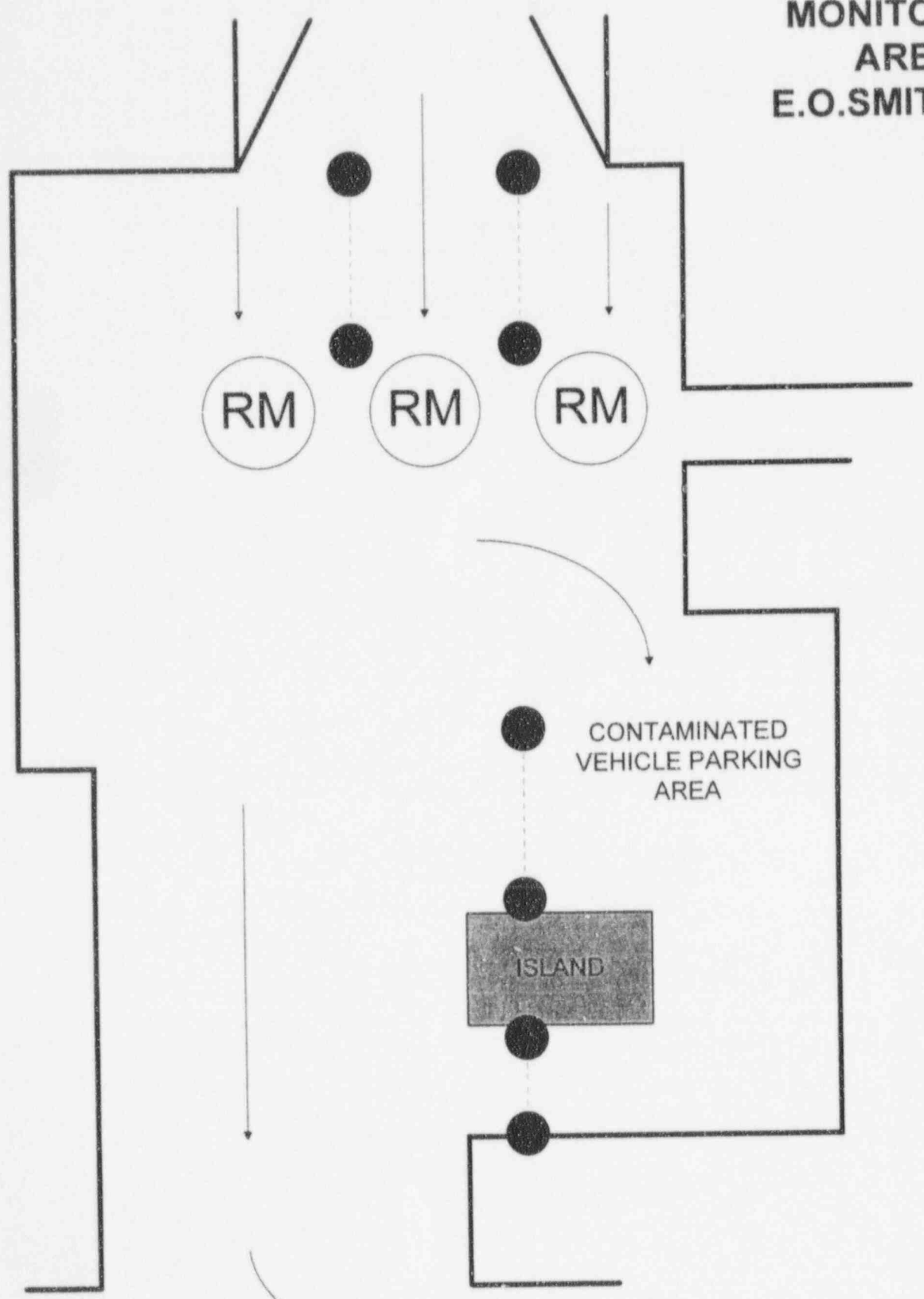
Figure 5
(Sheet 1 of 1)
Traffic Flow and Vehicle Monitoring Area (Alternate)



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HCP-5.1
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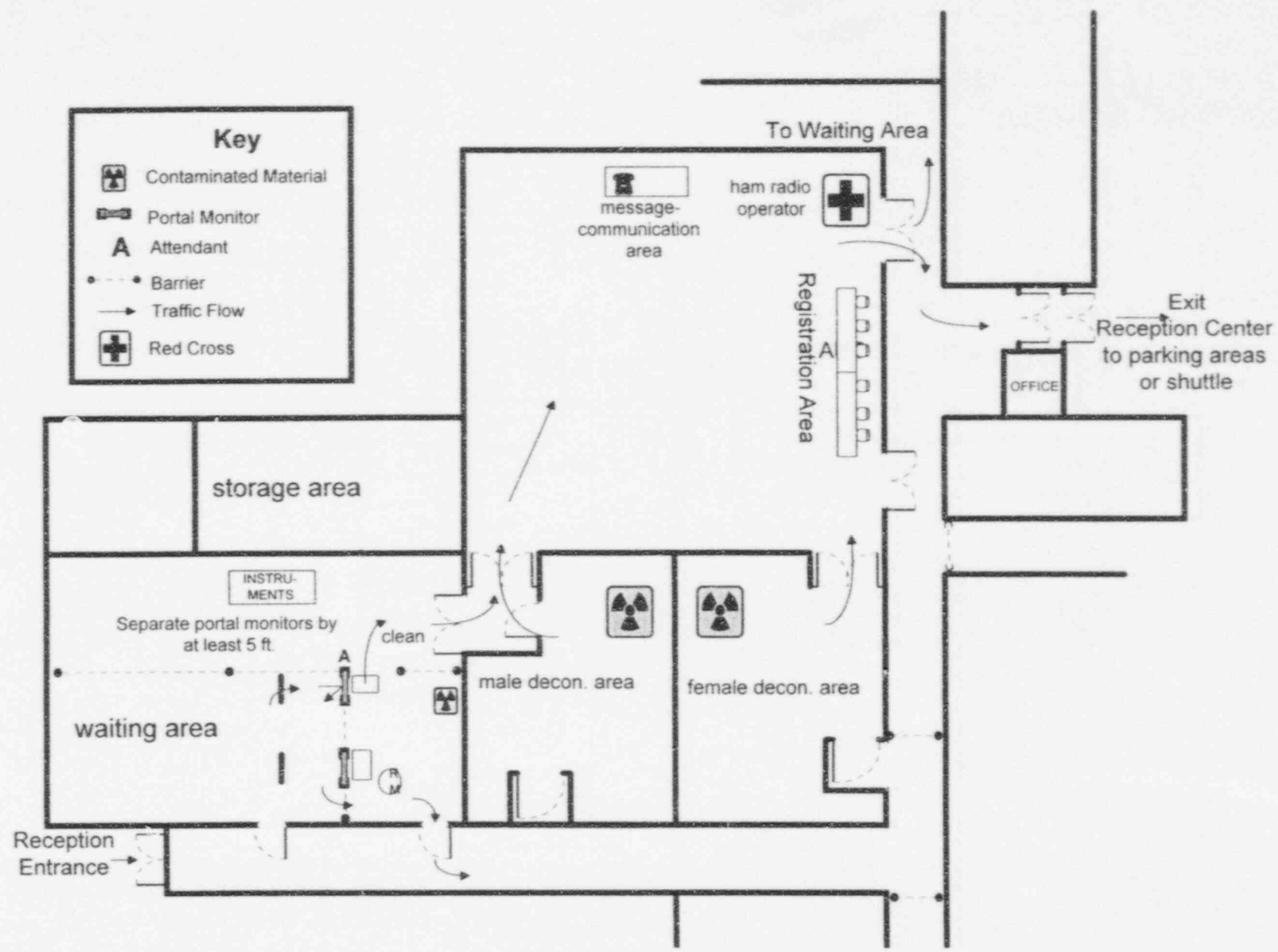
VEHICLE ENTRANCE

VEHICLE
MONITORING
AREA
E.O.SMITH H.S.








RT 195

TO SOUTH PARKING
AREA



Key

-  Contaminated Material
-  Portal Monitor
- A** Attendant
-  Barrier
-  Traffic Flow
-  Red Cross

storage area

INSTRUMENTS

Separate portal monitors by at least 5 ft.

waiting area

Reception Entrance

clean

male decon. area

female decon. area

message-communication area

ham radio operator

Registration Area

A

OFFICE

Exit
Reception Center
to parking areas
or shuttle

To Waiting Area

RADIOLOGICAL MONITORING AREA
(ENLARGED)
E.O. Smith H.S. Gymnasium

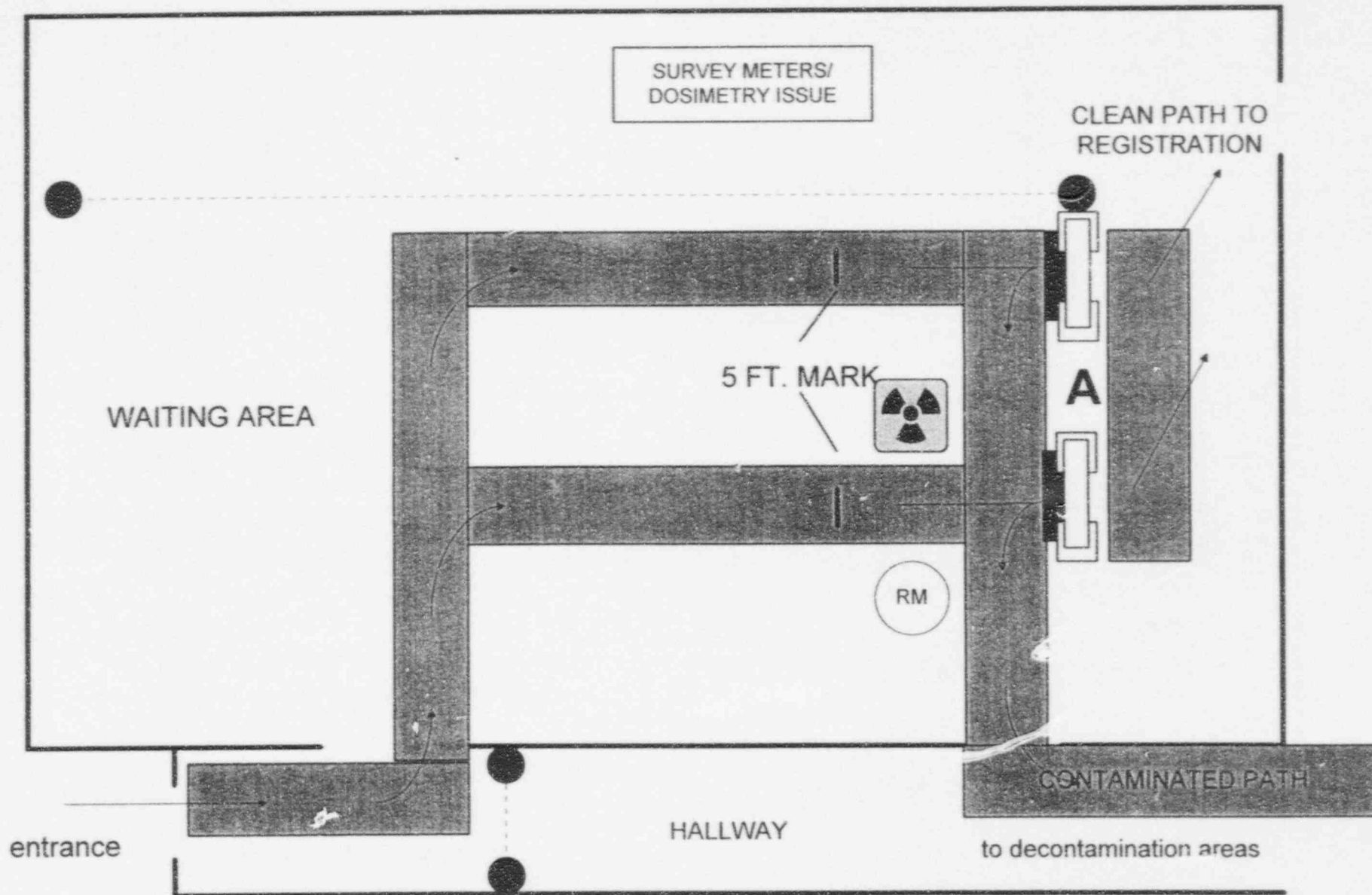
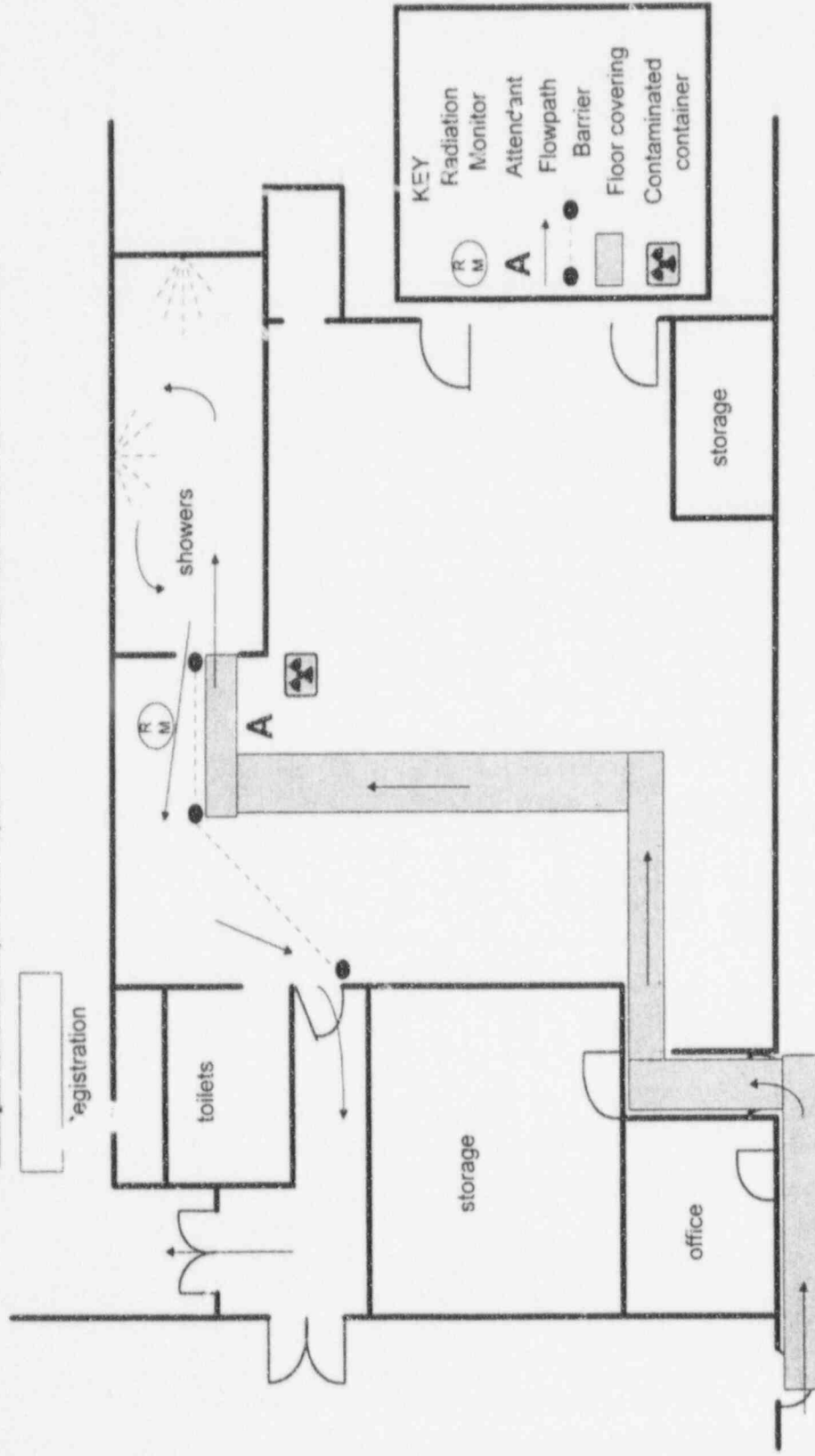


Figure 8
(Sheet 1 of 1)
Reception Center (Alternate) Male Decontamination Area, E.O. Smith H.S.



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Figure 7
(Sheet 1 of 1)
Reception Center (Alternate) Female Decontamination Area
E.O. Smith H.S., Mansfield

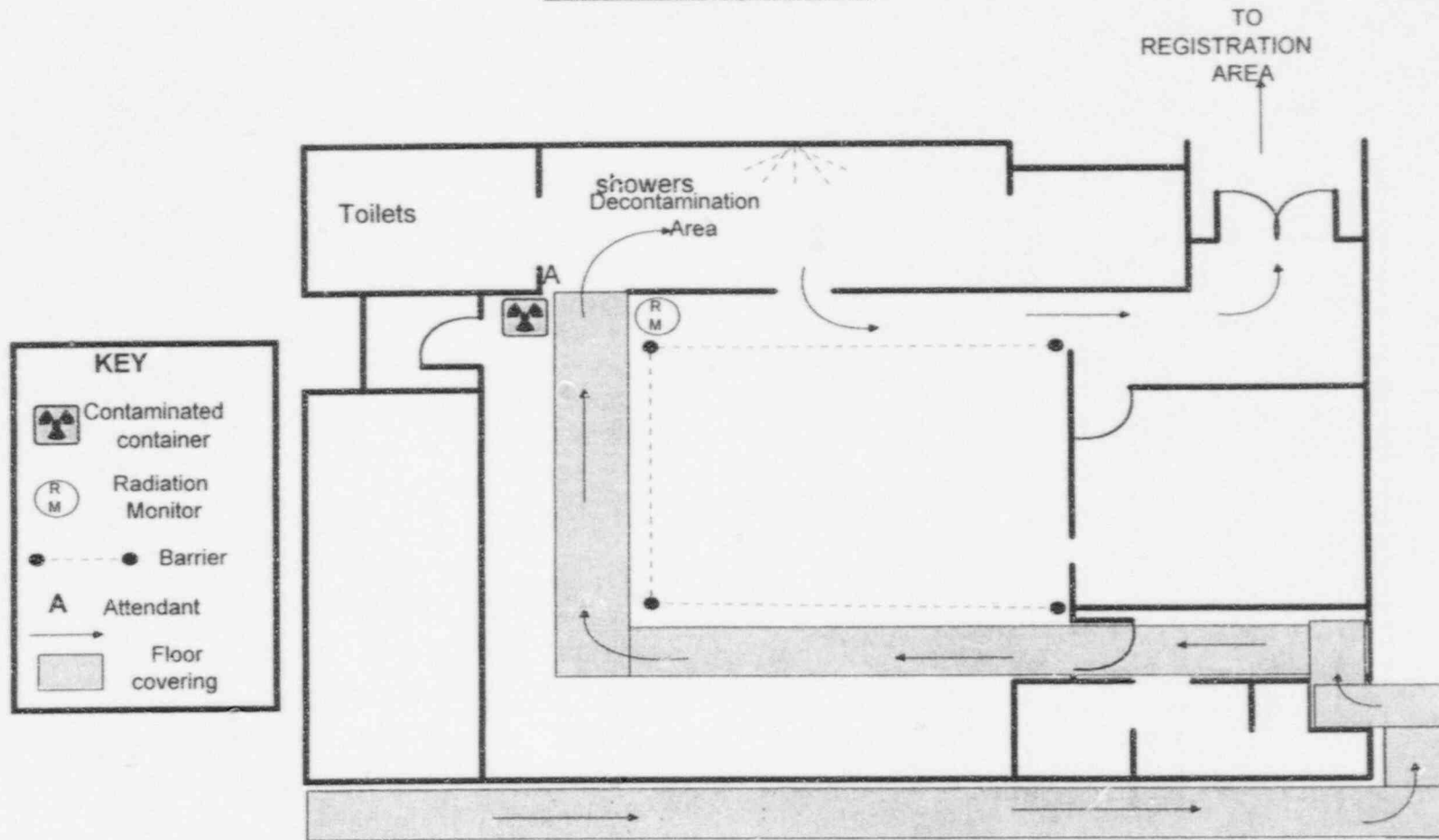
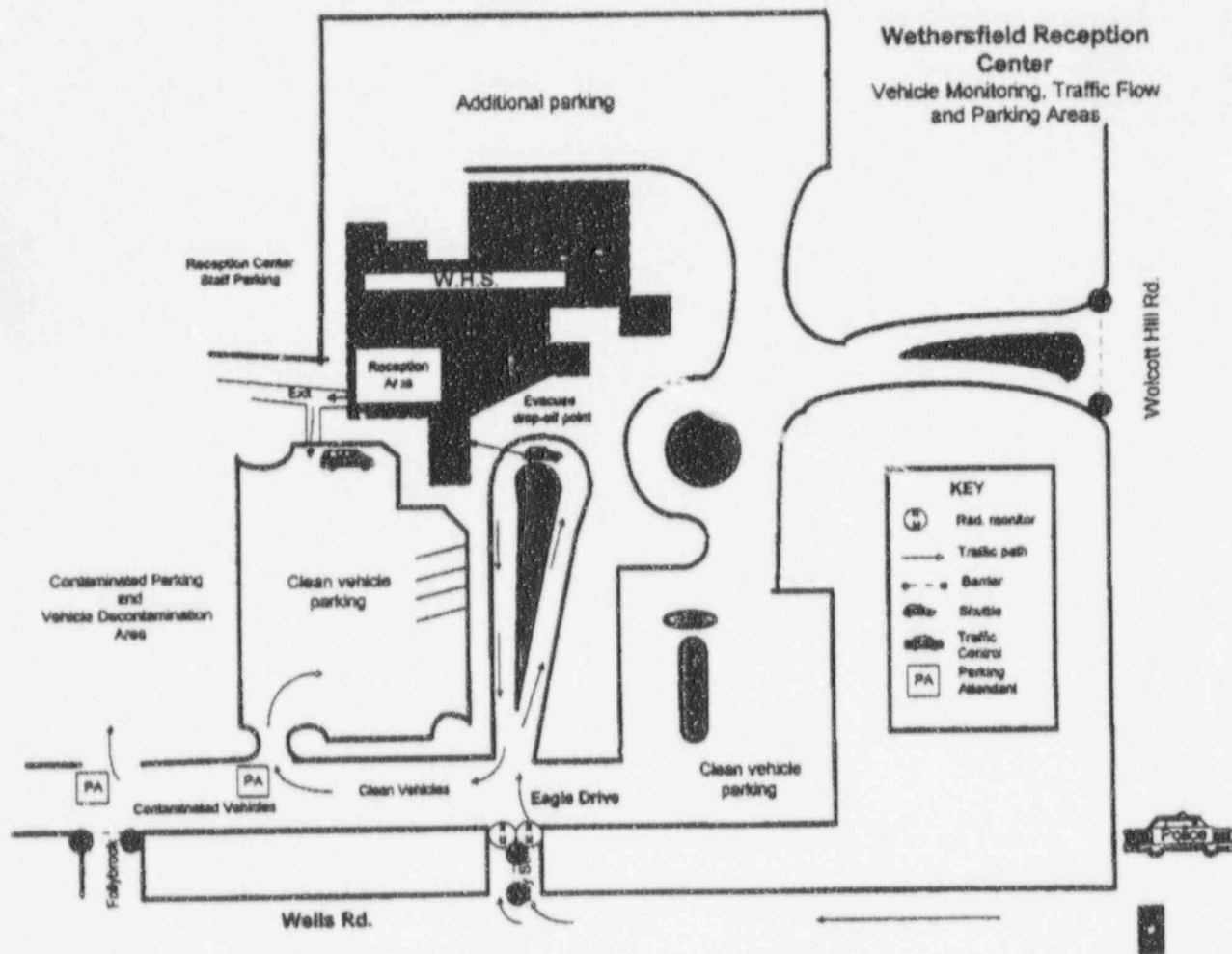


Figure 2
(Sheet 1 of 1)
Vehicle Monitoring, Traffic Flow and Parking Areas



Wethersfield
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Figure 3
(Sheet 1 of 1)
Radiological Monitoring and Registration Areas

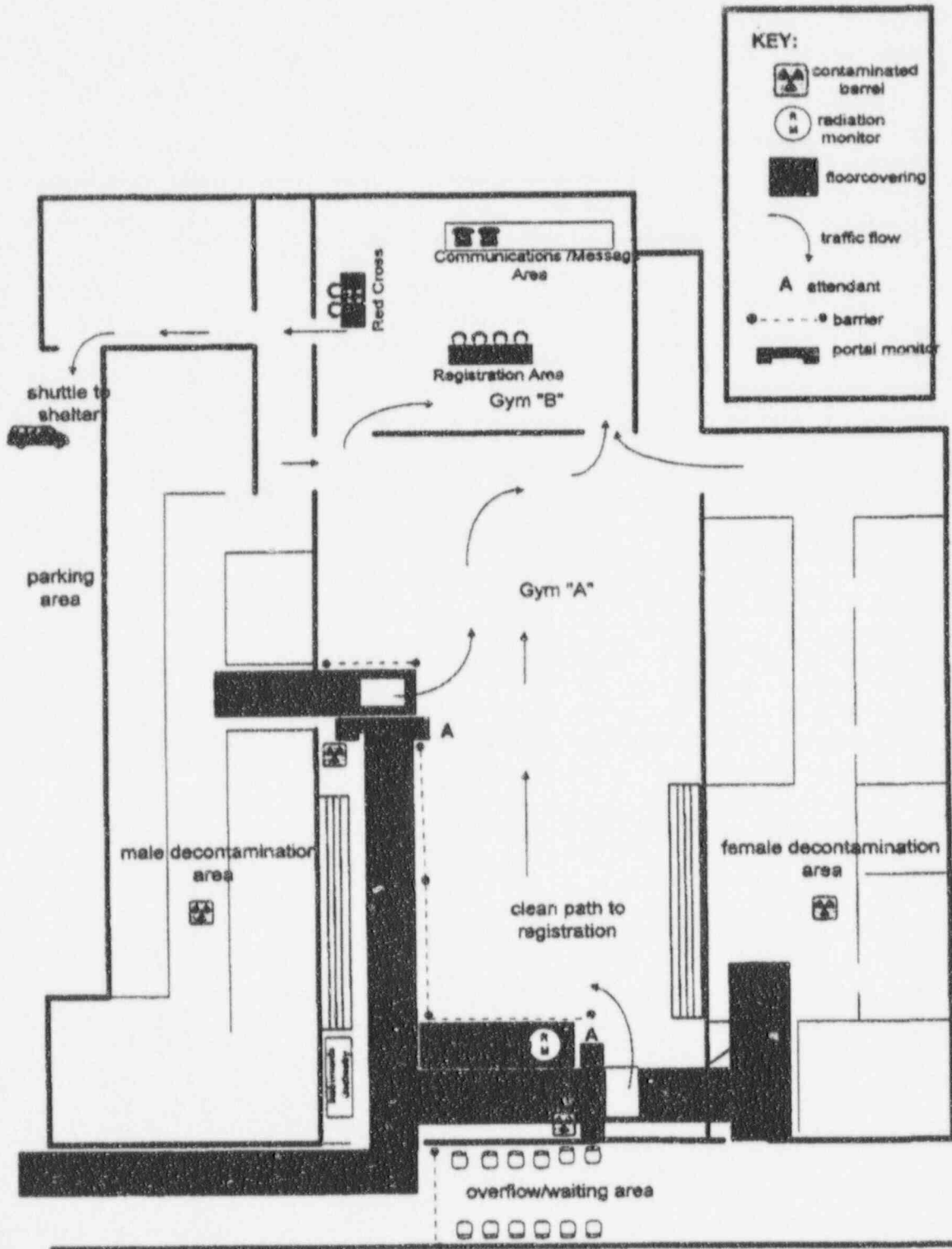
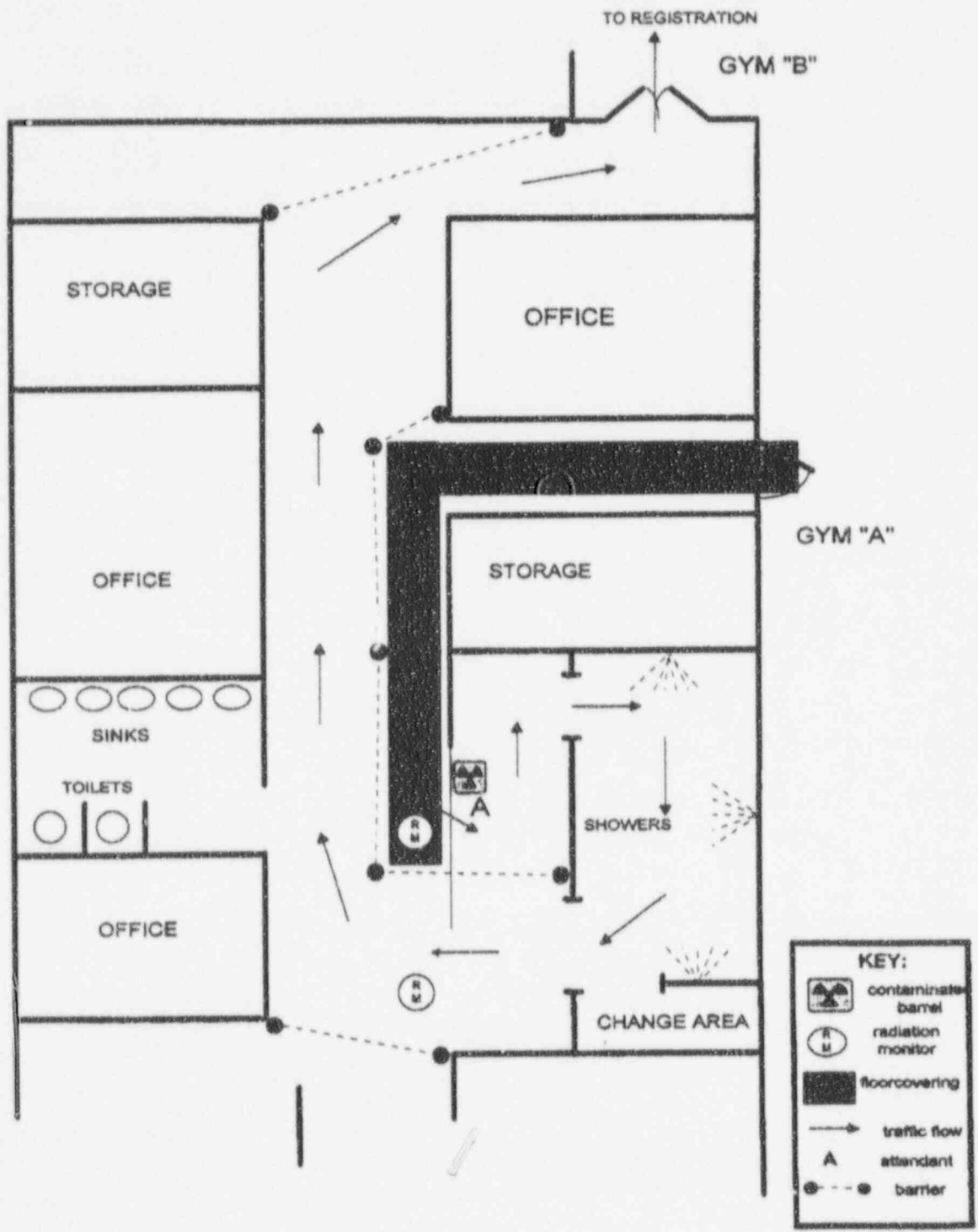
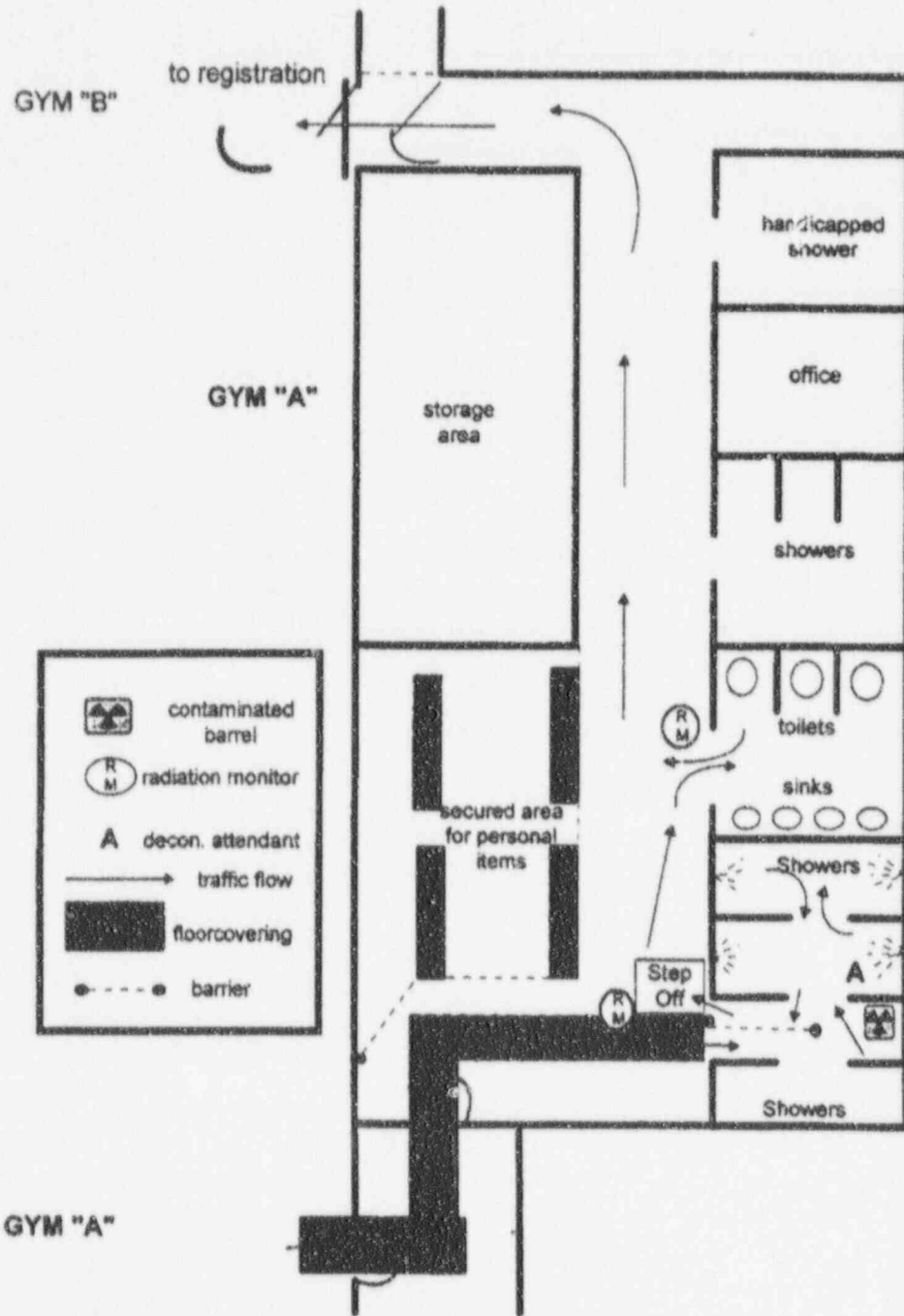


Figure 5
(Sheet 1 of 1)
Male Decontamination Area



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Figure 4
(Sheet 1 of 1)
Female Decontamination Area

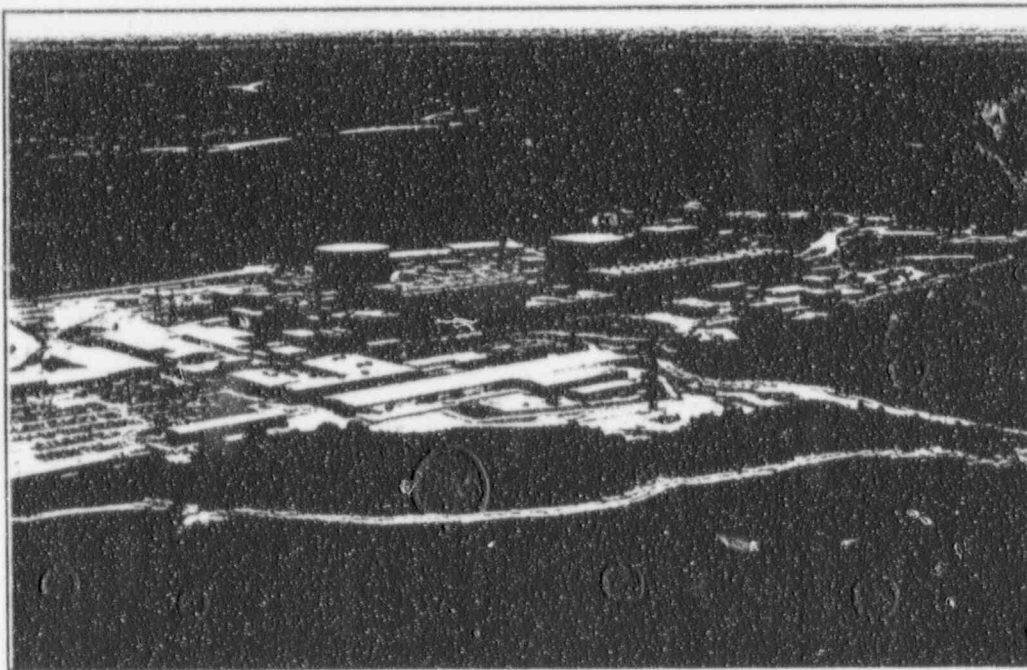


Wethersfield
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MILLSTONE UNIT 3

EXERCISE

OCTOBER 1995



Exercise Manual

**APPENDIX C-
MEDICAL INCIDENT**

Northeast Utilities Service Company

MILLSTONE 1995 MEDICAL EXERCISE

1. SCHEDULE

Date: Wednesday October 4, 1995

Time: 0730-0930 hours

Location: Millstone Unit 3

2. PURPOSE OF EXERCISE

To test the emergency responses by Millstone staff, the Waterford Ambulance Service, and Lawrence and Memorial Hospital.

3. OBJECTIVES :

INJURED/CONTAMINATED INDIVIDUAL

Demonstrate the capability to administer First Aid to an injured and contaminated individual.

Demonstrate the ability to transport contaminated injured personnel from on-site to a capable off-site treatment facility.

Demonstrate the ability of off-site medical resource to treat on-site radiological casualties.

EXTENT OF PLAY

- A. Demonstrate the ability of the Millstone Medical Department, station Health Physics Technician and Security Shift Supervisor to respond to an injured person and prepare the patient for transfer to the hospital.
- B. Demonstrate the ability of the Shift Supervisor to assess the event and direct appropriate notifications, as necessary. Off-site notification over the radiopager system will be simulated.

- C. Demonstrate the ability of the Shift Supervisor's Staff Assistant to:
- 1) Request off-site assistance.
 - 2) Notify Lawrence and Memorial Hospital of conditions and make backup calls as directed/required.
 - 3) Prepare a Nuclear Incident Report Form.
- D. Demonstrate the security force's ability to:
- 1) Respond to the accident scene and provide communications as necessary.
 - 2) Provide the emergency ambulance kit in the guard house to the ambulance staff.
 - 3) Clear arrival and departure of the ambulance
 - 4) Escort the ambulance and EMTs to the location for pickup of the patient.
- E. Demonstrate the ability of the Waterford Ambulance Service personnel to respond to a request for assistance and to:
- 1) Wear dosimetry properly.
 - 2) Don protective clothing as necessary.
 - 3) Obtain information on the patient's condition.
 - 4) Prepare the patient for transfer to the hospital.
 - 5) Prepare the ambulance for receiving a radiologically contaminated patient.
 - 6) Transfer the patient to the hospital (DO NOT exceed the speed limit, use lights or siren during transit to the hospital.
 - 7) Brief the receiving hospital on the patient's condition via med ambulance radio.
- F. Demonstrate the ability of the station Health Physics Technician to survey the patient, control contamination at the station and provide the radiological status to the Control Room staff, Station Nurse, and EMT/ambulance service personnel who will call Lawrence and Memorial Hospital via ambulance radio.

G. Demonstrate the ability of Lawrence and Memorial Hospital staff to respond in accordance with the Lawrence and Memorial Hospital Radiological Emergency Plan:

- 1) Receive communications via telephone and radio.
- 2) Set up the REA and establish a radiologically controlled area.
- 3) Treat the patient's injuries
- 4) Decontaminate the patient prior to release from the REA.

H. Demonstrate the ability of the station Health Physics Technician to:

- 1) Assist in radiological control at the hospital.
- 2) Collect and maintain control of all contaminated materials for decontamination and release or disposal.
- 3) Perform surveys of the ambulance and ambulance crew prior to release.
- 4) Keep the Shift Supervisor informed of the patient's status.

4. CONTROLLERS

POSITION	NAME
Lead Controller	T. Dembek
HP Controller (stays with patient)	J. Waggoner
Nurse Controller	I. McDowell
Control Room Controller	J. Watson
Security Controller	M. Gelinis
Hospital Controller	B. Kreiling
Medical Controller	R. Kersey

5. PLAYERS

Millstone Unit 3 Health Physics Staff
Millstone Medical Staff
Millstone Security Staff
Millstone Unit 3 Operations Staff
Waterford Ambulance Service
Lawrence and Memorial Hospital Staff

6. GENERAL SCENARIO

NOTE: ALL PRE-DRILL ACTIONS WILL BE SIMULATED

At approximately 0730 hours on Wednesday October 4, 1995, two workers are working in the machine shop in the Unit 3 Waste Building, 24' elevation truck bay. They are using a lathe to repair a piece of contaminated equipment. While turning the contaminated shaft on the lathe, the lathe jams breaking the shaft which shoots toward the operator causing a deep laceration on his right hand and arm. The second worker checks the injured individual quickly, exits the area, and calls the station emergency number (extension 2222) initiating the drill. (Note: If other workers are available in the machine shop, he may ask one of them to place the call.)

The Medical Department and Health Physics respond to the scene immediately. The medical staff determines that an ambulance is needed and notifies the Control Room to request an ambulance. The Control Room staff place a call for an ambulance and the Waterford Ambulance Service is dispatched to the site. The Control Room staff calls the hospital and advises them to expect a contaminated patient. The hospital

activates its radiological emergency plan and begins to prepare the room for the arrival of the patient.

The station medical staff and the Health Physics Technician begin to treat the patient and prepare to extricate him from the area. Plant staff extricate the patient and move him to a location outside the RCA where they are met by the ambulance. The medical and security staff decide to bring the ambulance to the truck bay entrance as it is the closest entrance to the accident scene. The patient is placed on a gurney and placed in the ambulance for transport to the hospital.

The ambulance transports the patient to Lawrence and Memorial Hospital where the patient is treated and decontaminated. The ambulance staff establishes contact with the hospital via the ambulance radio and updates the hospital on the patient's condition on the way to the hospital.

Injuries

The patient has a deep laceration on his right hand and right forearm. He is bleeding profusely and is in a great deal of pain.

Radiological Concerns

Radiological Concerns	Dose/count rates
Dose rate in area of accident	<1.0 mR/hr (RO-20) 200 cpm on E-140n
Contamination in area of event	Up to 50,000 dpm/100 cm ² (refer to survey)
Contamination on uninjured worker	none
Contamination on injured worker: Right arm Right hand Protective clothing: Right arm Left arm Trunk Legs	10,000 ccpm on E-140n 20,000 ccpm on E-140n 20,000 ccpm on E-140n 5,000 ccpm on E-140n 10,000 ccpm on E-140n 5,000 ccpm on E-140n

SCENARIO EVENTS

0730 Hours:

The accident takes place and the drill is initiated with a call by the uninjured worker to the station emergency number (ext. 2222).

<p style="text-align: center;">NOTE Players should state "This is a drill" in all communications</p>

0735 Hours:

- The medical staff and HP Technician arrive at the accident site. The medical staff immediately determines that an ambulance is required.

PATIENT STATUS

B/P	Pulse	Resp.	Status
100/60	120 Thready	24	Patient is pale and has cool clammy skin. He is still bleeding is diaphoretic and confused

0740 Hours:

- A call is placed to the Control Room to request an ambulance.

0742 Hours:

- The Control Room places a call for an ambulance and the Waterford ambulance is dispatched to the site.
- The Control Room calls the hospital and alerts them about the arrival of a contaminated injured patient.
- The station medical staff treats the patient and prepares him for extraction from the area.

0745 Hours:

PATIENT STATUS

B/P	Pulse	Resp.	Status
92/50	120	26	Patient is ashen, extremely diaphoretic, and has a decreasing level of consciousness. The dressing on the injury is saturated.

- The HP Technician surveys the area and assists the medical staff in preparing the patient for extraction and transportation.

0750 Hours:

- The patient is extracted from the area of the event.
- The medical staff continues evaluation of the patient's condition

0800 Hours:

- The ambulance arrives on site and is escorted to meet the patient.

0805 Hours:

- The patient is transported to the truck bay door to meet the ambulance. Station medical staff brief the ambulance staff on the patient's condition.

PATIENT STATUS

B/P	Pulse	Resp.	Status
90/50	126	28	Patient is ashen, still extremely diaphoretic and his level of consciousness is still decreasing.

0807 Hours:

- The patient is placed in the ambulance and the HP Technician enters the ambulance to provide radiological assistance on the way to the hospital and at the hospital.

0815 Hours:

- The ambulance exits site.

0820 Hours:

- The ambulance staff establishes contact with the hospital and gives the hospital its estimated time of arrival.
- The ambulance staff evaluates the patient's condition and relays the information to the hospital.

PATIENT STATUS

B/P	Pulse	Resp.	Status
90/50	130	28	Patient is ashen, remains extremely diaphoretic and his level of consciousness continues to decrease

0835 Hours

- The ambulance arrives at the hospital and is met by the medical staff. The ambulance staff updates the hospital on the patient's condition.
- The Health Physics Technician briefs the hospital staff on the radiological data.

NOTE

A second Health Physics Technician may arrive to assist. The ambulance and its staff may be surveyed at this time or later as time permits.

AMBULANCE SURVEY INFORMATION

Location	Contamination level
Outside of ambulance	All areas clean (background)
Inside cab	
Steering wheel	500 ccpm
Gear shift	500 ccpm
Radio microphone	200 ccpm
Other areas	background
Inside rear of ambulance	
Floor	1,000 ccpm
Seats	300 ccpm
Other areas	background
Ambulance Staff	All staff are clean

NOTE

DO NOT actually send the ambulance back to site. The ambulance should be released to return to duty as soon as the surveyor has completed the survey and determined that the ambulance should be returned to site for decontamination.

- The Health Physics Technician may attempt to clean the contaminated areas with a cloth such as a Masslinn wipe. The attempt will be unsuccessful. The ambulance should be sent back to the site for decontamination.

0837 Hours

- The patient is brought into the treatment room and the medical staff evaluates the patient's condition.

PATIENT STATUS

B/P	Pulse	Resp.	Status
94/52	124	24	Patient is still ashen but is beginning to respond to verbal questioning. He is still diaphoretic but the bleeding has been controlled.

0845 Hours

- The hospital staff performs the first decontamination of the patient.

PATIENT STATUS

B/P	Pulse	Resp.	Status
98/60	120	22	Patient is pale, has regained consciousness and is fully able to respond to questions.

0850 Hours

- The hospital performs the second decontamination of the patient.

PATIENT STATUS

B/P	Pulse	Resp.	Status
110/64	90	20	Color has improved and has fully regained consciousness.

0855 Hours

- The hospital performs the third decontamination of the patient.

PATIENT STATUS

B/P	Pulse	Resp.	Status
118/80	80	20	Patient's color is normal and Vital signs are stable.

0900 Hours

- Decontamination of the patient is complete.
- The patient's arm is sutured and he may be admitted to the hospital for further treatment.

0910 Hours

- The Emergency Department staff removes protective clothing, is surveyed, and exits the area.
- The ambulance is surveyed if not done earlier.
- The HP Technician surveys the treatment room and ensures control of the radioactive waste which is returned to the plant (simulated).
- The exercise is terminated after the staff leaves the REA.

0930 Hours

- A critique is held in the hospital.

7. VICTIM ACTIONS AND CONTROLLER OBSERVATIONS

The following guidelines are recommended for the victim and players' actions during the drill at the accident scene. Asks to have family notified if medical staff does not ask if he wishes anyone notified.

Victim actions: After the accident he complains of serious pain in right arm. He is concerned about the affect of the radioactivity.

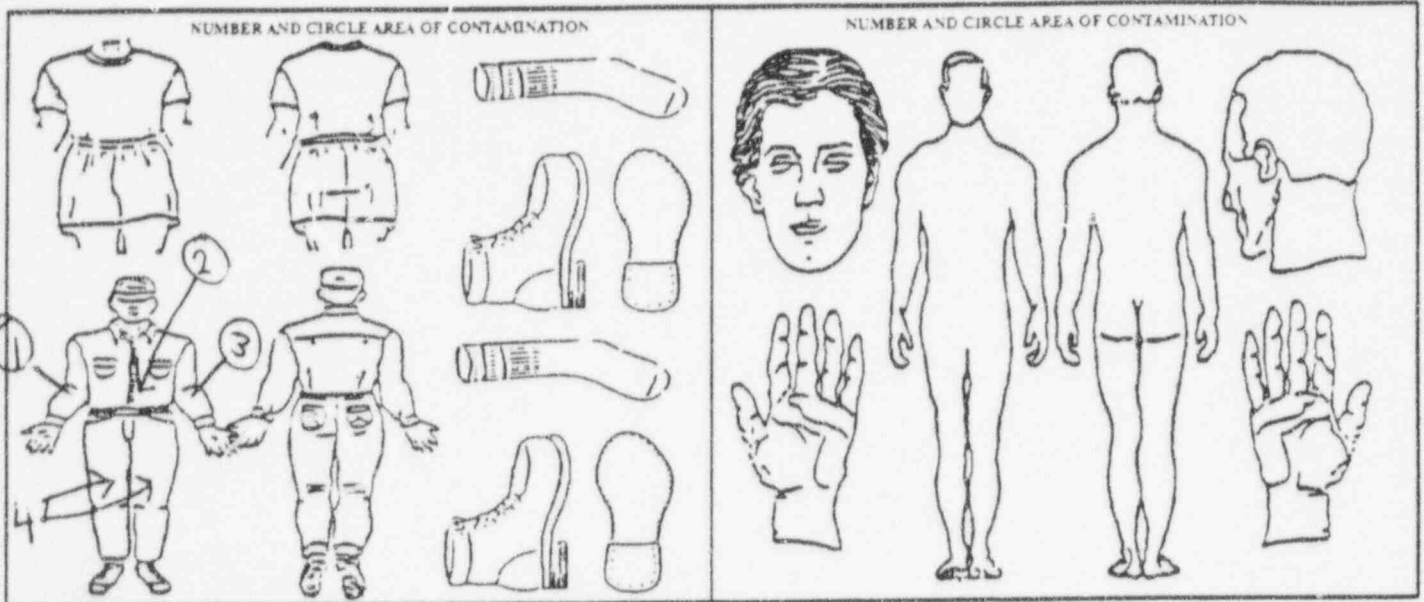
Medical staff actions: Inquire of patient's injuries. Ascertain vital signs at appropriate intervals. Apply a pressure dressing. Prepare victim for extraction and transport to the hospital.

Scene safety - Medical staff should protect self as well as patient

HP Technician: Survey area. Survey victim. Control contamination. Assist medical staff as requested. Prepare clean path to victim to facilitate extraction.

CLOTHING CONTAMINATION

SKIN CONTAMINATION



NO.	CCPM	1 st DECON			2 nd DECON			3 rd DECON		
		METHOD USED	RESULTS (CCPM)	TIME	METHOD USED	RESULTS (CCPM)	TIME	METHOD USED	RESULTS (CCPM)	TIME
1	20,000	Removal	BKG-D							
2	10,000	of	BKG-D							
3	5,000	clothing	BKG-D							
4	5,000		BKG-D							

If hot particle is on clothing, provide dose rate through clothing _____ ccpm, mrem/hr (circle one)

Disposition of clothing: _____

Conditional Release Provisions (To be completed when individual is given a conditional release)

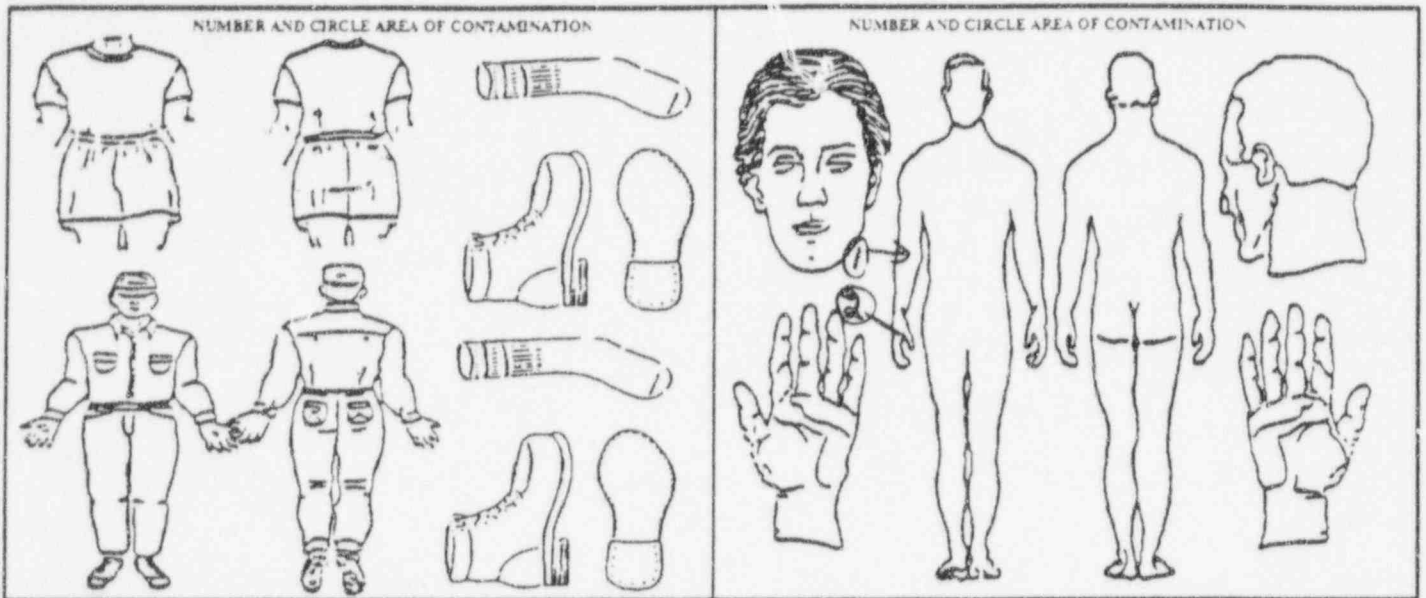
Release # _____ Date of initial contamination _____

- Yes No Instructed individual to return? If yes, when? _____
- Yes No Instructed individual on cautions concerning bandaging? (Not required for internal contamination).
- Yes No Medical Staff notified? If yes, name of person and time notified. _____
- Yes No Consulted with Medical Director? If yes, List name, time contacted and decon methods recommended _____
- Yes No Decontamination discontinued? If yes, reason? _____
- Yes No Follow up actions _____
- Yes No Additional information attached? If yes, _____ number of sheets.

SURVEYED BY (Print and Sign) _____	DATE _____	REVIEWED BY (Print and Sign) _____	DATE _____
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CLOTHING CONTAMINATION

SKIN CONTAMINATION



NO.	CCPM	1st DECON			2nd DECON			3rd DECON		
		METHOD USED	RESULTS (CCPM)	TIME	METHOD USED	RESULTS (CCPM)	TIME	METHOD USED	RESULTS (CCPM)	TIME
1	10,000		5,000		BKGD			BKGD		
2	20,000		10,000		5,000			BKGD		

If hot particle is on clothing, provide dose rate through clothing _____ cpm, mrem/hr (circle one)

Disposition of clothing: _____

Conditional Release Provisions (To be completed when individual is given a conditional release)

- Release # _____ Date of initial contamination _____
- Yes No Instructed individual to return? If yes, when? _____
 - Yes No Instructed individual on cautions concerning bandaging? (Not required for internal contamination).
 - Yes No Medical Staff notified? If yes, name of person and time notified. _____
 - Yes No Consulted with Medical Director? If yes, List name, time contacted and decon methods recommended. _____
 - Yes No Decontamination discontinued? If yes, reason? _____
 - Yes No Follow up actions. _____
 - Yes No Additional information attached? If yes, _____ number of sheets.

SURVEYED BY (Print and Sign)	DATE	REVIEWED BY (Print and Sign)	DATE
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SECTION VI

MESSAGE INDEX AND MESSAGES
PROVIDED SEPARATELY

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0710	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING TO THE PEO SENT TO INVESTIGATE THE 'A' CHARGING PUMP BREAKER.</p> <p>*** MESSAGE ***</p> <p>THERE IS A STRONG ODOR OF BURNT INSULATION COMING FROM THE 'A' CHARGING PUMP BREAKER CUBICLE. THERE ARE TWO TARGET DROPS. THE 86E LOCKOUT RELAY OPERATED AND THE 50GS RELAY TARGET OPERATED.</p>	SIM EC	SIM PEO
0715	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE PEO IS DIRECTED TO RACK DOWN THE 'A' CHARGING PUMP BREAKER</p> <p>*** MESSAGE ***</p> <p>THE 'A' CHARGING PUMP BREAKER DID NOT RACK DOWN SMOOTHLY. ONE STAB OF THE BREAKER IS DAMAGED AND THERE ARE PORCELAIN PIECES LAYING ON TOP OF THE BREAKER</p>	SIM EC	SIM PEO
0720	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING TO THE PEO SENT TO THE 'B' CHARGING PUMP</p> <p>*** MESSAGE ***</p> <p>THE 'B' CHARGING PUMP MOTOR TO GEAR BOX COUPLING IS BROKEN AND THE COUPLING SHROUD HAS BEEN DAMAGED. THE MOTOR IS RUNNING SMOOTHLY. THERE APPEARS TO BE NO OTHER DAMAGE TO THE PUMP OR MOTOR.</p>	SIM EC	SIM PEO
0730	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>PROVIDE THIS INFORMATION TO ALL OFIS OPERATORS</p> <p>*** MESSAGE ***</p> <p>THE PROPER UNITS FOR OFIS RADIATION MONITOR 'FUEL DROP - RMS41/42' ARE 'R/HR'. MAKE NOTE OF THIS FOR THE EXERCISE AND FOR REAL EVENTS</p>	LEAD CONTROLLERS	OFIS OPERATORS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0730	<p style="text-align: center;">*** COMMAND ***</p> <p style="text-align: center;">*** CONTROLLER NOTE ***</p> <p>THE OSC CONTROLLER WILL NOTIFY THE UNIT 1 CONTROL ROOM TO MAKE THE FOLLOWING ANNOUNCEMENT ONCE THE SITE AREA EMERGENCY IS DECLARED BY THE SIMULATOR SS.</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>ANNOUNCE OVER THE STATION PAGE (810 + OUTSIDE) THE FOLLOWING MESSAGE.</p> <p>NOW HEAR THIS NOW HEAR THIS THIS IS A DRILL THE EMERGENCY PREPAREDNESS EXERCISE HAS NOW BEGUN. DRILL PLAYERS REPORT TO YOUR EMERGENCY RESPONSE FACILITY. NON DRILL PERSONNEL DISREGARD ALL DRILL RELATED ANNOUNCEMENTS</p> <p>THE EMERGENCY PREPAREDNESS EXERCISE HAS NOW BEGUN. DRILL PLAYERS REPORT TO YOUR EMERGENCY RESPONSE FACILITY. NON DRILL PERSONNEL DISREGARD ALL DRILL RELATED ANNOUNCEMENTS.</p> <p>THIS IS A DRILL</p>	OSC EC	UNIT 1 SS
0730	<p style="text-align: center;">*** COMMAND ***</p> <p style="text-align: center;">*** CONTROLLER NOTE ***</p> <p>ENSURE EACH OFIS OPERATOR IS AWARE OF THE FOLLOWING INFORMATION</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>THE PROPER UNITS FOR OFIS RADIATION MONITOR 'FUEL DROP RMS41/42' ARE 'R/HR'. MAKE NOTE OF THIS FOR THE EXERCISE AND FOR REAL EVENTS.</p>	LEAD CONTROLLERS	OFIS OPERATORS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
-0730 - 0800	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING MESSAGE TO SERO MANAGERS AS THEY ARRIVE AT THEIR SERO LOCATION.</p> <p>*** MESSAGE ***</p> <p>INITIAL CONDITIONS AS OF 0700</p> <ul style="list-style-type: none"> • UNIT 3 WAS AT 100% POWER AND ONLINE FOR 250 DAYS WITH AN RCS BORON OF 998 PPM. • ALL POWER GENERATING AND SAFETY SYSTEM EQUIPMENT WAS OPERABLE • UNITS 1 & 2 CONDITIONS ARE "AS IS" • ONSITE MET CONDITIONS: <ul style="list-style-type: none"> • WIND AT 11 MPH AT 262⁰ • TEMPERATURE IS 64⁰F • FORECAST - DRY, PARTLY SUNNY WITH WINDS OUT OF THE WEST SOUTHWEST AT 5-6 MPH, HIGH AROUND 66⁰F 	LEAD CONTROLLERS	SERO MANAGERS
0730	<p>*** COMMAND ***</p> <p>*** CONTROLLER ***</p> <p>ISSUE THE FOLLOWING IF THE PLAYERS HAVE HAD ACCESS TO THE INFORMATION NECESSARY TO CLASSIFY THE EVENT BUT HAVE NOT YET TAKEN ANY ACTION</p> <p>*** MESSAGE ***</p> <p>DECLARE A SITE AREA EMERGENCY, POSTURE CODE CHARLIE-TWO BASED ON ENTERING FR-S.1 FROM E-0.</p>	SIM EC	SIM SS/ODSEO
N/A	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING WHEN THE CHEM TECH HAS SIMULATED DRAWING A RCS SAMPLE FROM THE SAMPLE SINK.</p> <p>*** MESSAGE ***</p> <p>YOU ARE ONLY ABLE TO DRAW A 10 ML SAMPLE DUE TO INCREASED TRADIATION LEVELS AT THE SINK. YOUR SAMPLE READS 600 MR/HR AT ONE FOOT.</p>	CHEM EC	CHEM TECH
0800	<p>*** COMMAND***</p> <p>*** MESSAGE ***</p> <p>THE INDIVIDUAL ASSIGNED TO MONITOR THE KAMAN SYSTEM IS ON STATION AT THE UNIT 3 HP OFFICE AND CAN ONLY BE REACHED AT EXT. 2764</p>	OSC EC	ARPS
0800	<p>*** COMMAND***</p> <p>*** MESSAGE ***</p> <p>THE INDIVIDUAL ASSIGNED TO MONITOR THE KAMAN SYSTEM IS ON STATION AT THE UNIT 3 HP OFFICE AND CAN ONLY BE REACHED AT EXT. 2764</p>	MRCA EC	MRCA

CLOCK TIME	MESSAGE CONTENT	FROM	TO
~0845	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER ***</p> <p>ISSUE THE FOLLOWING IF THE DSEO HAS ASSUMED CONTROL AT THE EOF BUT HAS NOT INFORMED THE SERO.</p> <p>*** MESSAGE ***</p> <p>NOTIFY MEMBERS OF THE SERO THAT YOU HAVE ASSUMED THE POSITION OF DIRECTOR OF STATION EMERGENCY OPERATIONS.</p>	DSEO EC	DSEO
0858	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>THIS IS OFFICER DAVIS. I AM IN THE AUX BUILDING ON THE 66 FOOT LEVEL AND I JUST HEARD A LOUD NOISE LIKE A CAR TIRE BLOWING AND THE SOUND OF RUSHING AIR. THE BIG AIR DUCT UP HERE HAS A BIG HOLE IN A RUBBER JOINT.</p>	SIM EC	SIM SCO
0900	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>HAVE THE SIMULATOR PEO CALL THE SIMULATOR SCO WITH THE FOLLOWING INFORMATION.</p> <p>*** MESSAGE ***</p> <p>I WAS IN THE AUX BUILDING AND HEARD A WHISTLING NOISE. I FOUND THE PURGE EXHAUST DUCT RUPTURED AT THE EXPANSION JOINT DOWNSTREAM OF THE OUTBOARD EXHAUST DAMPER. AND IT IS VENTING AIR AND STEAM TO THE AUX BUILDING.</p>	SIM EC	SIM PEO
0905	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>THIS IS THE UNIT 1 SS. I KNOW THAT YOU ARE PRETTY BUSY, BUT YOU SHOULD KNOW THAT MY STACK RAD MONITOR HAS ALARMED. I CHECKED WITH UNIT 2 AND NEITHER OF US ARE DOING ANYTHING TO CAUSE THIS. I'LL LET YOU KNOW IF WE SEE ANY MORE CHANGES.</p>	SIM EC	SIM SS
0915	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE DSEO HAS BEEN INFORMED OF THE LOSS OF CONTAINMENT BARRIER BUT IS NOT TAKING ACTION TO UPGRADE THE EVENT.</p> <p>*** MESSAGE ***</p> <p>DECLARE A GENERAL EMERGENCY, POSTURE CODE ALPHA BASED ON THE LOSS OF THREE BARRIERS.</p>	DSEO EC	DSEO
0930	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>THE SURVEY METER YOU BROUGHT TO THE HP OFFICE IS NOW READING 30 MR/HR. NOTIFY THE ARPS AND THE MRCA.</p>	SIM EC	HP AT KAMAN

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0930	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF A PASS SAMPLE HAS NOT BEEN REQUESTED</p> <p>*** MESSAGE ***</p> <p>DIRECT THE CHEM TECH TO A DRAW A LIQUID PASS SAMPLE. NOTIFY THE ADTS AND THE DSEO OF THIS CONTROLLER INTERVENTION.</p>	SIM EC	MCRO
0910	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE OPERATING CREW HAS NOT DETERMINED THAT THE CONTAINMENT PURGE OUTBOARD EXHAUST DAMPER IS PARTIALLY OPEN.</p> <p>*** MESSAGE ***</p> <p>THE CONTAINMENT PURGE OUTBOARD EXHAUST DAMPER, 3HVU•CTV32B, HAS DUAL POSITION INDICATION</p>	SIM EC	MCRO
N/A	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>ISSUE RUMORS AT TIMES SPECIFIED ON INDIVIDUAL MESSAGES IN APPENDIX 'D'</p>	RUMOR CONTROL CELLS	AS LISTED ON MESSAGE
N/A	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>ISSUE METEOROLOGICAL DATA AT 15 MINUTE INTERVALS. DATA IS IN SECTION IX.</p>	MET EC	EDAN OPERATOR
N/A	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE SERO RECOMMENDS SECURING AUX BUILDING VENTILATION</p> <p>*** MESSAGE ***</p> <p>FOR SCENARIO PURPOSES, DO NOT STOP AUX BUILDING VENTILATION. INFORM THE ADTS AND DSEO OF THIS CONTROLLER INTERVENTION.</p>	SIM EC	MCRO
1130	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>THE EMERGENCY EXERCISE HAS BEEN TERMINATED</p>	ALL EC's	ALL PLAYERS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
1130	<p style="text-align: center;">*** COMMAND ***</p> <p style="text-align: center;">*** CONTROLLER ***</p> <p>THE OSC CONTROLLER WILL CALL THE UNIT 1 CONTROL ROOM WHEN INFORMED BY THE LEAD CONTROLLER AT THE SIMULATOR THAT THE EXERCISE CAN BE TERMINATED</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>ANNOUNCE OVER THE STATION PAGE (810 & OUTSIDE) NOW HEAR THIS NOW HEAR THIS THE EMERGENCY PREPAREDNESS EXERCISE HAS BEEN TERMINATED. REGARD ALL FURTHER ANNOUNCEMENTS. THE EMERGENCY PREPAREDNESS EXERCISE HAS BEEN TERMINATED. REGARD ALL FURTHER ANNOUNCEMENTS.</p>		

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
**** CONTROLLER NOTE ****
ISSUE THE FOLLOWING MESSAGE TO THE PEO
SENT TO INVESTIGATE THE 'A' CHARGING
PUMP BREAKER.

*** MESSAGE***

THIS IS A DRILL

THERE IS A STRONG ODOR OF BURNT
ELECTRICAL INSULATION COMING FROM THE
'A' CHARGING PUMP BREAKER CUBICLE
THERE ARE TWO TARGET DROPS.
THE 86E LOCKOUT RELAY OPERATED AND THE
50GS RELAY TARGET OPERATED.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE WHEN THE
PEO INDICATES THAT HE WOULD RACK DOWN
THE 'A' CHARGING PUMP BREAKER AND HAS
TALKED THROUGH THE STEPS

*** MESSAGE ***

THIS IS A DRILL

THE BREAKER DID NOT RACK DOWN
SMOOTHLY. ONE STAB OF THE BREAKER IS
DAMAGED AND THERE ARE PORCELAIN PIECES
LAYING ON TOP OF THE BREAKER

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***

ISSUE THE FOLLOWING MESSAGE TO THE PEO
SENT TO INVESTIGATE THE 'B' CHARGING
PUMP

*** MESSAGE ***

THIS IS A DRILL

THE 'B' CHARGING PUMP MOTOR TO GEAR BOX
COUPLING IS BROKEN AND THE COUPLING
SHROUD HAS BEEN DAMAGED. THE MOTOR IS
RUNNING SMOOTHLY. THERE APPEARS TO BE
NO OTHER DAMAGE TO THE PUMP OR MOTOR.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
THE OSC CONTROLLER WILL CALL THE
CONTROL ROOM WHEN IT IS TIME TO MAKE
THIS ANNOUNCEMENT

*** MESSAGE ***

ANNOUNCE OVER THE STATION PAGE THE
FOLLOWING MESSAGE:

NOW HEAR THIS
NOW HEAR THIS
THIS IS A DRILL

THE EMERGENCY PREPAREDNESS EXERCISE
HAS NOW BEGUN. DRILL PLAYERS REPORT TO
YOUR EMERGENCY RESPONSE FACILITY. NON
DRILL PERSONNEL DISREGARD ALL DRILL
RELATED ANNOUNCEMENTS.

THE EMERGENCY PREPAREDNESS EXERCISE
HAS NOW BEGUN. DRILL PLAYERS REPORT TO
YOUR EMERGENCY RESPONSE FACILITY. NON
DRILL PERSONNEL DISREGARD ALL DRILL
RELATED ANNOUNCEMENTS.

THIS IS A DRILL

THIS IS A DRILL

SECTION VI

MESSAGE INDEX AND MESSAGES
PROVIDED SEPARATELY

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0710	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING TO THE PEO SENT TO INVESTIGATE THE 'A' CHARGING PUMP BREAKER.</p> <p>*** MESSAGE ***</p> <p>THERE IS A STRONG ODOR OF BURNT INSULATION COMING FROM THE 'A' CHARGING PUMP BREAKER CUBICLE. THERE ARE TWO TARGET DROPS. THE 86E LOCKOUT RELAY OPERATED AND THE 50GS RELAY TARGET OPERATED.</p>	SIM EC	SIM PEO
0715	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE PEO IS DIRECTED TO RACK DOWN THE 'A' CHARGING PUMP BREAKER</p> <p>*** MESSAGE ***</p> <p>THE 'A' CHARGING PUMP BREAKER DID NOT RACK DOWN SMOOTHLY. ONE STAB OF THE BREAKER IS DAMAGED AND THERE ARE PORCELAIN PIECES LAYING ON TOP OF THE BREAKER</p>	SIM EC	SIM PEO
0720	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING TO THE PEO SENT TO THE 'B' CHARGING PUMP</p> <p>*** MESSAGE ***</p> <p>THE 'B' CHARGING PUMP MOTOR TO GEAR BOX COUPLING IS BROKEN AND THE COUPLING SHROUD HAS BEEN DAMAGED. THE MOTOR IS RUNNING SMOOTHLY. THERE APPEARS TO BE NO OTHER DAMAGE TO THE PUMP OR MOTOR.</p>	SIM EC	SIM PEO
0730	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>PROVIDE THIS INFORMATION TO ALL OFIS OPERATORS</p> <p>*** MESSAGE ***</p> <p>THE PROPER UNITS FOR OFIS RADIATION MONITOR 'FUEL DROP - RMS41/42' ARE 'R/HR'. MAKE NOTE OF THIS FOR THE EXERCISE AND FOR REAL EVENTS</p>	LEAD CONTROLLERS	OFIS OPERATORS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0730	<p style="text-align: center;">*** COMMAND ***</p> <p style="text-align: center;">*** CONTROLLER NOTE ***</p> <p>THE OSC CONTROLLER WILL NOTIFY THE UNIT 1 CONTROL ROOM TO MAKE THE FOLLOWING ANNOUNCEMENT ONCE THE SITE AREA EMERGENCY IS DECLARED BY THE SIMULATOR SS.</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>ANNOUNCE OVER THE STATION PAGE (810 + OUTSIDE) THE FOLLOWING MESSAGE.</p> <p>NOW HEAR THIS NOW HEAR THIS THIS IS A DRILL THE EMERGENCY PREPAREDNESS EXERCISE HAS NOW BEGUN. DRILL PLAYERS REPORT TO YOUR EMERGENCY RESPONSE FACILITY. NON DRILL PERSONNEL DISREGARD ALL DRILL RELATED ANNOUNCEMENTS</p> <p>THE EMERGENCY PREPAREDNESS EXERCISE HAS NOW BEGUN. DRILL PLAYERS REPORT TO YOUR EMERGENCY RESPONSE FACILITY. NON DRILL PERSONNEL DISREGARD ALL DRILL RELATED ANNOUNCEMENTS.</p> <p>THIS IS A DRILL</p>	OSC EC	UNIT 1 SS
0730	<p style="text-align: center;">*** COMMAND ***</p> <p style="text-align: center;">*** CONTROLLER NOTE ***</p> <p>ENSURE EACH OFIS OPERATOR IS AWARE OF THE FOLLOWING INFORMATION</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>THE PROPER UNITS FOR OFIS RADIATION MONITOR 'FUEL DROP RMS41/42' ARE 'R/HR'. MAKE NOTE OF THIS FOR THE EXERCISE AND FOR REAL EVENTS.</p>	LEAD CONTROLLERS	OFIS OPERATORS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
-0730 - 0800	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING MESSAGE TO SERO MANAGERS AS THEY ARRIVE AT THEIR SERO LOCATION.</p> <p>*** MESSAGE ***</p> <p>INITIAL CONDITIONS AS OF 0700</p> <ul style="list-style-type: none"> • UNIT 3 WAS AT 100% POWER AND ONLINE FOR 250 DAYS WITH AN RCS BORON OF 998 PPM. • ALL POWER GENERATING AND SAFETY SYSTEM EQUIPMENT WAS OPERABLE • UNITS 1 & 2 CONDITIONS ARE "AS IS" • ONSITE MET CONDITIONS: <ul style="list-style-type: none"> • WIND AT 11 MPH AT 262⁰ • TEMPERATURE IS 64⁰F • FORECAST - DRY, PARTLY SUNNY WITH WINDS OUT OF THE WEST SOUTHWEST AT 5-6 MPH, HIGH AROUND 66⁰F 	LEAD CONTROLLERS	SERO MANAGERS
0730	<p>*** COMMAND ***</p> <p>*** CONTROLLER ***</p> <p>ISSUE THE FOLLOWING IF THE PLAYERS HAVE HAD ACCESS TO THE INFORMATION NECESSARY TO CLASSIFY THE EVENT BUT HAVE NOT YET TAKEN ANY ACTION</p> <p>*** MESSAGE ***</p> <p>DECLARE A SITE AREA EMERGENCY, POSTURE CODE CHARLIE-TWO BASED ON ENTERING FR-S.1 FROM E-0.</p>	SIM EC	SIM SS/ODSEO
N/A	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING WHEN THE CHEM TECH HAS SIMULATED DRAWING A RCS SAMPLE FROM THE SAMPLE SINK.</p> <p>*** MESSAGE ***</p> <p>YOU ARE ONLY ABLE TO DRAW A 10 ML SAMPLE DUE TO INCREASED TRADIATION LEVELS AT THE SINK. YOUR SAMPLE READS 600 MR/HR AT ONE FOOT.</p>	CHEM EC	CHEM TECH
0800	<p>*** COMMAND***</p> <p>*** MESSAGE ***</p> <p>THE INDIVIDUAL ASSIGNED TO MONITOR THE KAMAN SYSTEM IS ON STATION AT THE UNIT 3 HP OFFICE AND CAN ONLY BE REACHED AT EXT. 2764</p>	OSC EC	ARPS
0800	<p>*** COMMAND***</p> <p>*** MESSAGE ***</p> <p>THE INDIVIDUAL ASSIGNED TO MONITOR THE KAMAN SYSTEM IS ON STATION AT THE UNIT 3 HP OFFICE AND CAN ONLY BE REACHED AT EXT. 2764</p>	MRCA EC	MRCA

CLOCK TIME	MESSAGE CONTENT	FROM	TO
~0845	<p>*** CONTINGENCY *** *** CONTROLLER ***</p> <p>ISSUE THE FOLLOWING IF THE DSEO HAS ASSUMED CONTROL AT THE EOF BUT HAS NOT INFORMED THE SERO.</p> <p>*** MESSAGE ***</p> <p>NOTIFY MEMBERS OF THE SERO THAT YOU HAVE ASSUMED THE POSITION OF DIRECTOR OF STATION EMERGENCY OPERATIONS.</p>	DSEO EC	DSEO
0858	<p>*** COMMAND *** *** MESSAGE ***</p> <p>THIS IS OFFICER DAVIS. I AM IN THE AUX BUILDING ON THE 66 FOOT LEVEL AND I JUST HEARD A LOUD NOISE LIKE A CAR TIRE BLOWING AND THE SOUND OF RUSHING AIR. THE BIG AIR DUCT UP HERE HAS A BIG HOLE IN A RUBBER JOINT.</p>	SIM EC	SIM SCO
0900	<p>*** COMMAND *** *** CONTROLLER NOTE ***</p> <p>HAVE THE SIMULATOR PEO CALL THE SIMULATOR SCO WITH THE FOLLOWING INFORMATION.</p> <p>*** MESSAGE ***</p> <p>I WAS IN THE AUX BUILDING AND HEARD A WHISTLING NOISE. I FOUND THE PURGE EXHAUST DUCT RUPTURED AT THE EXPANSION JOINT DOWNSTREAM OF THE OUTBOARD EXHAUST DAMPER. AND IT IS VENTING AIR AND STEAM TO THE AUX BUILDING.</p>	SIM EC	SIM PEO
0905	<p>*** COMMAND *** *** MESSAGE ***</p> <p>THIS IS THE UNIT 1 SS. I KNOW THAT YOU ARE PRETTY BUSY, BUT YOU SHOULD KNOW THAT MY STACK RAD MONITOR HAS ALARMED. I CHECKED WITH UNIT 2 AND NEITHER OF US ARE DOING ANYTHING TO CAUSE THIS. I'LL LET YOU KNOW IF WE SEE ANY MORE CHANGES.</p>	SIM EC	SIM SS
0915	<p>*** CONTINGENCY *** *** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE DSEO HAS BEEN INFORMED OF THE LOSS OF CONTAINMENT BARRIER BUT IS NOT TAKING ACTION TO UPGRADE THE EVENT.</p> <p>*** MESSAGE ***</p> <p>DECLARE A GENERAL EMERGENCY, POSTURE CODE ALPHA BASED ON THE LOSS OF THREE BARRIERS.</p>	DSEO EC	DSEO
0930	<p>*** COMMAND *** *** MESSAGE ***</p> <p>THE SURVEY METER YOU BROUGHT TO THE HP OFFICE IS NOW READING 30 MR/HR. NOTIFY THE ARPS AND THE MRCA.</p>	SIM EC	HP AT KAMAN

CLOCK TIME	MESSAGE CONTENT	FROM	TO
0930	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF A PASS SAMPLE HAS NOT BEEN REQUESTED</p> <p>*** MESSAGE ***</p> <p>DIRECT THE CHEM TECH TO A DRAW A LIQUID PASS SAMPLE. NOTIFY THE ADTS AND THE DSEO OF THIS CONTROLLER INTERVENTION.</p>	SIM EC	MCRO
0910	<p>*** COMMAND ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE OPERATING CREW HAS NOT DETERMINED THAT THE CONTAINMENT PURGE OUTBOARD EXHAUST DAMPER IS PARTIALLY OPEN.</p> <p>*** MESSAGE ***</p> <p>THE CONTAINMENT PURGE OUTBOARD EXHAUST DAMPER, 3HVU•CTV32B, HAS DUAL POSITION INDICATION</p>	SIM EC	MCRO
N/A	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>ISSUE RUMORS AT TIMES SPECIFIED ON INDIVIDUAL MESSAGES IN APPENDIX 'D'</p>	RUMOR CONTROL CELLS	AS LISTED ON MESSAGE
N/A	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>ISSUE METEOROLOGICAL DATA AT 15 MINUTE INTERVALS. DATA IS IN SECTION IX.</p>	MET EC	EDAN OPERATOR
N/A	<p>*** CONTINGENCY ***</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING IF THE SERO RECOMMENDS SECURING AUX BUILDING VENTILATION</p> <p>*** MESSAGE ***</p> <p>FOR SCENARIO PURPOSES, DO NOT STOP AUX BUILDING VENTILATION. INFORM THE ADTS AND DSEO OF THIS CONTROLLER INTERVENTION.</p>	SIM EC	MCRO
1130	<p>*** COMMAND ***</p> <p>*** MESSAGE ***</p> <p>THE EMERGENCY EXERCISE HAS BEEN TERMINATED</p>	ALL EC's	ALL PLAYERS

CLOCK TIME	MESSAGE CONTENT	FROM	TO
1130	<p style="text-align: center;">*** COMMAND *** *** CONTROLLER ***</p> <p>THE OSC CONTROLLER WILL CALL THE UNIT 1 CONTROL ROOM WHEN INFORMED BY THE LEAD CONTROLLER AT THE SIMULATOR THAT THE EXERCISE CAN BE TERMINATED</p> <p style="text-align: center;">*** MESSAGE ***</p> <p>ANNOUNCE OVER THE STATION PAGE (810 & OUTSIDE) NOW HEAR THIS NOW HEAR THIS THE EMERGENCY PREPAREDNESS EXERCISE HAS BEEN TERMINATED. REGARD ALL FURTHER ANNOUNCEMENTS. THE EMERGENCY PREPAREDNESS EXERCISE HAS BEEN TERMINATED. REGARD ALL FURTHER ANNOUNCEMENTS.</p>		

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
**** CONTROLLER NOTE ****
ISSUE THE FOLLOWING MESSAGE TO THE PEO
SENT TO INVESTIGATE THE 'A' CHARGING
PUMP BREAKER.

*** MESSAGE***

THIS IS A DRILL

THERE IS A STRONG ODOR OF BURNT
ELECTRICAL INSULATION COMING FROM THE
'A' CHARGING PUMP BREAKER CUBICLE.
THERE ARE TWO TARGET DROPS.
THE 86E LOCKOUT RELAY OPERATED AND THE
50GS RELAY TARGET OPERATED.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE WHEN THE
PEO INDICATES THAT HE WOULD RACK DOWN
THE 'A' CHARGING PUMP BREAKER AND HAS
TALKED THROUGH THE STEPS

*** MESSAGE ***

THIS IS A DRILL

THE BREAKER DID NOT RACK DOWN
SMOOTHLY. ONE STAB OF THE BREAKER IS
DAMAGED AND THERE ARE PORCELAIN PIECES
LAYING ON TOP OF THE BREAKER

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

<p>***** COMMAND ***** *** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING MESSAGE TO THE PEO SENT TO INVESTIGATE THE 'B' CHARGING PUMP</p> <p>*** MESSAGE ***</p> <p>THIS IS A DRILL</p> <p>THE 'B' CHARGING PUMP MOTOR TO GEAR BOX COUPLING IS BROKEN AND THE COUPLING SHROUD HAS BEEN DAMAGED. THE MOTOR IS RUNNING SMOOTHLY. THERE APPEARS TO BE NO OTHER DAMAGE TO THE PUMP OR MOTOR.</p> <p>THIS IS A DRILL</p>
--

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
THE OSC CONTROLLER WILL CALL THE
CONTROL ROOM WHEN IT IS TIME TO MAKE
THIS ANNOUNCEMENT

*** MESSAGE ***

ANNOUNCE OVER THE STATION PAGE THE
FOLLOWING MESSAGE:

NOW HEAR THIS
NOW HEAR THIS
THIS IS A DRILL

THE EMERGENCY PREPAREDNESS EXERCISE
HAS NOW BEGUN. DRILL PLAYERS REPORT TO
YOUR EMERGENCY RESPONSE FACILITY. NON
DRILL PERSONNEL DISREGARD ALL DRILL
RELATED ANNOUNCEMENTS.

THE EMERGENCY PREPAREDNESS EXERCISE
HAS NOW BEGUN. DRILL PLAYERS REPORT TO
YOUR EMERGENCY RESPONSE FACILITY. NON
DRILL PERSONNEL DISREGARD ALL DRILL
RELATED ANNOUNCEMENTS.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
ENSURE EACH OFIS OPERATOR IS AWARE OF
THE FOLLOWING INFORMATION

*** MESSAGE ***

THE PROPER UNITS FOR OFIS RADIATION
MONITOR "FUEL DROP-RMS41/42" ARE "R/HP".
MAKE NOTE OF THIS FOR THE EXERCISE AND
FOR REAL EVENTS.

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

<p>***** CONTINGENCY *****</p> <p>*** CONTROLLER NOTE ***</p> <p>ISSUE THE FOLLOWING MESSAGE IF THE PLAYERS HAVE HAD ACCESS TO THE INFORMATION NECESSARY TO CLASSIFY THE EVENT BUT HAVE NOT YET TAKEN ANY ACTION</p> <p>*** MESSAGE ***</p> <p>THIS IS A DRILL</p> <p>DECLARE A SITE AREA EMERGENCY, POSTURE CODE CHARLIE-TWO BASED ON ENTERING FR-S.1 FROM E-0.</p> <p>THIS IS A DRILL</p>

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** CONTINGENCY *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE IF THE SERO
RECOMMENDS SECURING SECURING AUX
BLDG VENTILATION
*** MESSAGE ***

THIS IS A DRILL

FOR SCENARIO PURPOSES, DO NOT STOP AUX
BUILDING VENTILATION AT THIS TIME.
INFORM THE ADTS AND DSEO OF THIS
CONTROLLER INTERVENTION

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****

*** MESSAGE ***

THIS IS A DRILL

ISSUE RUMORS AT TIMES SPECIFIED ON
INDIVIDUAL MESSAGES IN APPENDIX 'D'

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****

MESSAGE

THIS IS A DRILL

THE INDIVIDUAL ASSIGNED TO MONITOR THE
KAMAN SYSTEM IS ON STATION AT THE UNIT 3
HP OFFICE AND CAN **ONLY** BE REACHED AT
EXT. 2764

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** CONTINGENCY *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE IF THE DSEO
HAS ASSUMED CONTROL AT THE EOF BUT HAS
NOT INFORMED THE SERO.

*** MESSAGE ***

THIS IS A DRILL

NOTIFY MEMBERS OF THE SERO THAT YOU
HAVE ASSUMED THE POSITION OF DIRECTOR
OF STATION EMERGENCY OPERATIONS.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE WHEN THE
CHEMISTRY TECH HAS SIMULATED DRAWING
AN RCS SAMPLE FROM THE SAMPLE SINK.

*** MESSAGE ***

THIS IS A DRILL

YOU ARE ONLY ABLE TO DRAW A 10 ml
SAMPLE DUE TO INCREASED RADIATION
LEVELS AT THE SINK. SAMPLE READS 600
mr/hr.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** MESSAGE ***

THIS IS A DRILL

THIS IS OFFICER DAVIS. I AM IN THE AUX BUILDING ON THE 66 FOOT LEVEL AND I JUST HEARD A LOUD NOISE LIKE A CAR TIRE BLOWING AND THE SOUND OF RUSHING AIR. THE BIG AIR DUCT NEAR THE NORTHWEST STAIRWAY HAS A BIG HOLE IN THE RUBBER JOINT.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** MESSAGE ***

THIS IS A DRILL

THIS IS THE UNIT 1 SS. I KNOW THAT YOU ARE
PRETTY BUSY, BUT YOU SHOULD KNOW THAT
MY STACK RAD MONITOR HAS ALARMED. I
CHECKED WITH UNIT 2 AND NEITHER OF US
ARE DOING ANYTHING TO CAUSE THIS.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** CONTINGENCY *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE IF THE DSEO
HAS BEEN INFORMED OF THE LOSS OF
CONTAINMENT BARRIER BUT IS NOT TAKING
ACTION TO UPGRADE THE EVENT.

*** MESSAGE ***

THIS IS A DRILL

DECLARE A GENERAL EMERGENCY, POSTURE
CODE ALPHA BASED ON THE LOSS OF THREE
BARRIERS.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
HAVE THE SIM PEO CALL THE SIM SCO WITH
THE FOLLOWING INFORMATION

*** MESSAGE ***

THIS IS A DRILL

I WAS IN THE AUX BUILDING AND HEARD A
WHISTLING NOISE. I FOUND THE PURGE
EXHAUST DUCT HAS RUPTURED AT THE
EXPANSION JOINT DOWNSTREAM OF THE
OUTBOARD EXHAUST DAMPER AND IS
VENTING AIR AND STEAM TO THE AUX
BUILDING.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****

*** MESSAGE ***

THIS IS A DRILL

THE SURVEY METER YOU BROUGHT TO THE HP
OFFICE IS NOW READING 30 mr/hr.
NOTIFY THE ARPS AND THE MRCA

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** CONTINGENCY *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE IF THE
OPERATING CREW HAS NOT DETERMINED
THAT THE CONTAINMENT PURGE OUTBOARD
EXHAUST DAMPER IS PARTIALLY OPEN.

*** MESSAGE ***

THIS IS A DRILL

THE CONTAINMENT PURGE OUTBOARD
EXHAUST DAMPER, 3HVU-CTV32B, HAS DUAL
POSITION INDICATION.

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** CONTINGENCY *****
*** CONTROLLER NOTE ***
ISSUE THE FOLLOWING MESSAGE IF A LIQUID
PASS SAMPLE HAS NOT BEEN REQUESTED.

*** MESSAGE ***

THIS IS A DRILL

DIRECT THE CHEM TECH TO DRAW A LIQUID
PASS SAMPLE. NOTIFY THE ADTS AND DSEO
OF THIS CONTROLLER INTERVENTION

THIS IS A DRILL

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

<p>***** COMMAND ***** *** MESSAGE ***</p> <p>THE EMERGENCY EXERCISE HAS BEEN TERMINATED</p>
--

THIS IS A DRILL

THIS IS A DRILL

CONTROLLER MESSAGE FORM

CLOCK TIME:

FROM:

TO:

MESSAGE: THIS IS A DRILL

***** COMMAND *****
*** CONTROLLER NOTE ***
THE OSC CONTROLLER WILL CALL THE UNIT 1
CONTROL ROOM WHEN IT IS TIME TO MAKE
THE FOLLOWING STATION ANNOUNCEMENT.

*** MESSAGE ***
ANNOUNCE OVER THE STATION PAGE SYSTEM

NOW HEAR THIS
NOW HEAR THIS

THE EMERGENCY PREPAREDNESS EXERCISE
HAS BEEN TERMINATED. REGARD ALL
FURTHER ANNOUNCEMENTS

THE EMERGENCY PREPAREDNESS EXERCISE
HAS BEEN TERMINATED. REGARD ALL
FURTHER ANNOUNCEMENTS

THIS IS A DRILL



MILLSTONE UNIT 3

EXERCISE

INDEX

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RADIOLOGICAL AND CHEMISTRY DATA

Off-site Radiological Data

Note: Off-site radiological data is provided as a function of time and location. The data was generated using ADAM and radiological engineering estimates. During the exercise, monitoring teams will be providing information as they demonstrate their monitoring capability.

Tables and Maps are provided from 0900-1130

1. The iodine concentration (Ci/m³) is provided only after an air sample has been analyzed by the laboratory. The values in most cases are therefore "informational use only".
2. The survey meter readings are for both waist and ground level.
3. The term background reflects current ambient conditions.

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 09:00 - 09:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
C 1.1	2.2E-01	1.1E-01	3.3E+02	0	3.40E-11	20
C 1.2	1.4E-01	7.0E-02	2.1E+02	0	2.10E-11	10
D 1.1	1.6E-01	8.0E-02	2.4E+02	0	2.60E-13	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

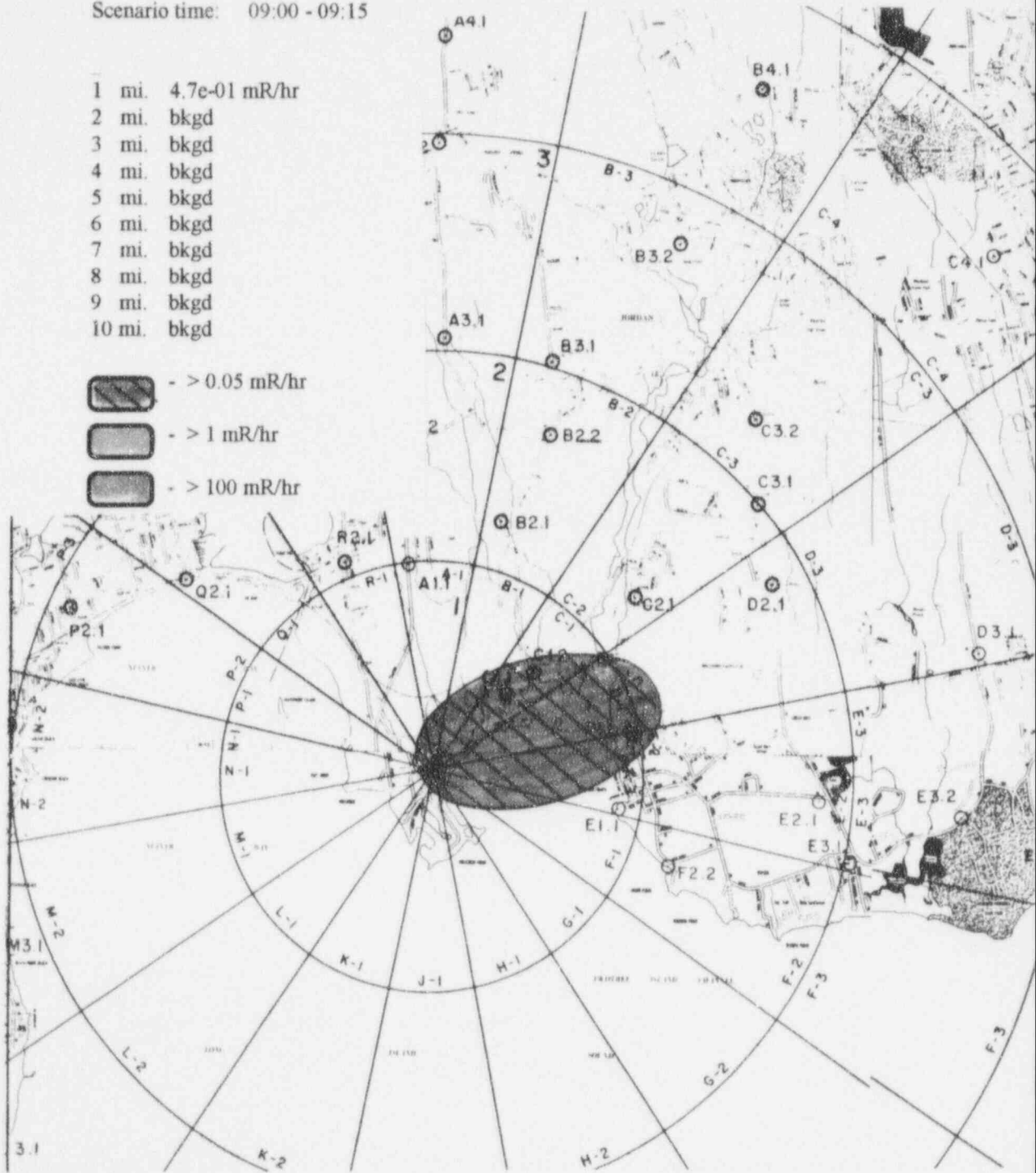
Millstone Unit III Emergency Plan

Radiological Survey Map

Scenario time: 09:00 - 09:15

- 1 mi. $4.7e-01$ mR/hr
- 2 mi. bkgd
- 3 mi. bkgd
- 4 mi. bkgd
- 5 mi. bkgd
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
 Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 09:15 - 09:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Background	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
C 1.1	4.6E-01	2.3E-01	6.9E+02	5	1.30E-10	50
C 1.2	3.0E-01	1.5E-01	4.5E+02	0	9.40E-11	40
C 2.1	2.0E-01	1.0E-01	3.0E+02	0	5.80E-11	20
D 1.1	2.4E-01	1.2E-01	3.6E+02	0	1.50E-13	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

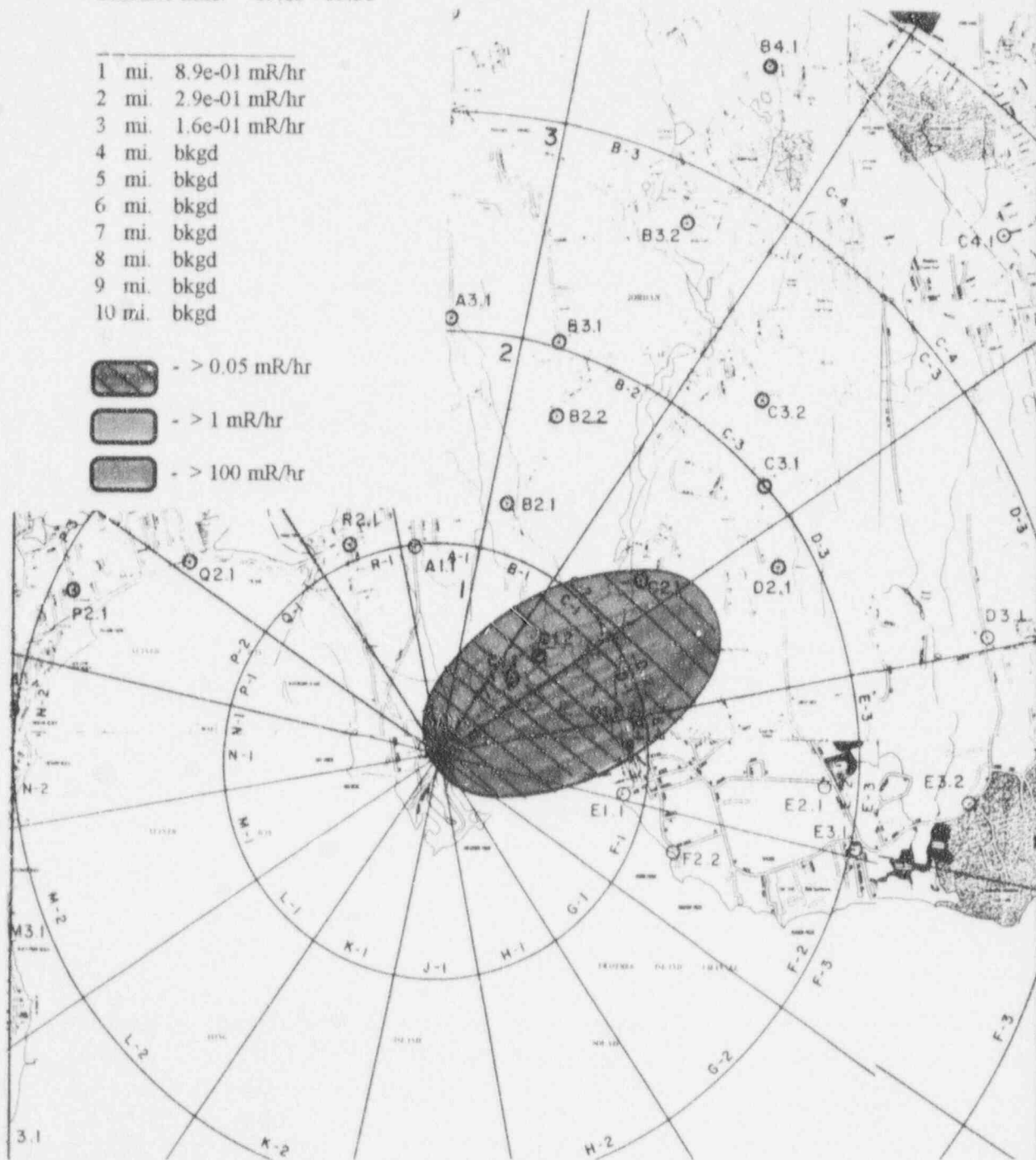
Millstone Unit III Emergency Plan

Radiological Survey Map

Scenario time: 09:15 - 09:30

- 1 mi. 8.9e-01 mR/hr
- 2 mi. 2.9e-01 mR/hr
- 3 mi. 1.6e-01 mR/hr
- 4 mi. bkgd
- 5 mi. bkgd
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

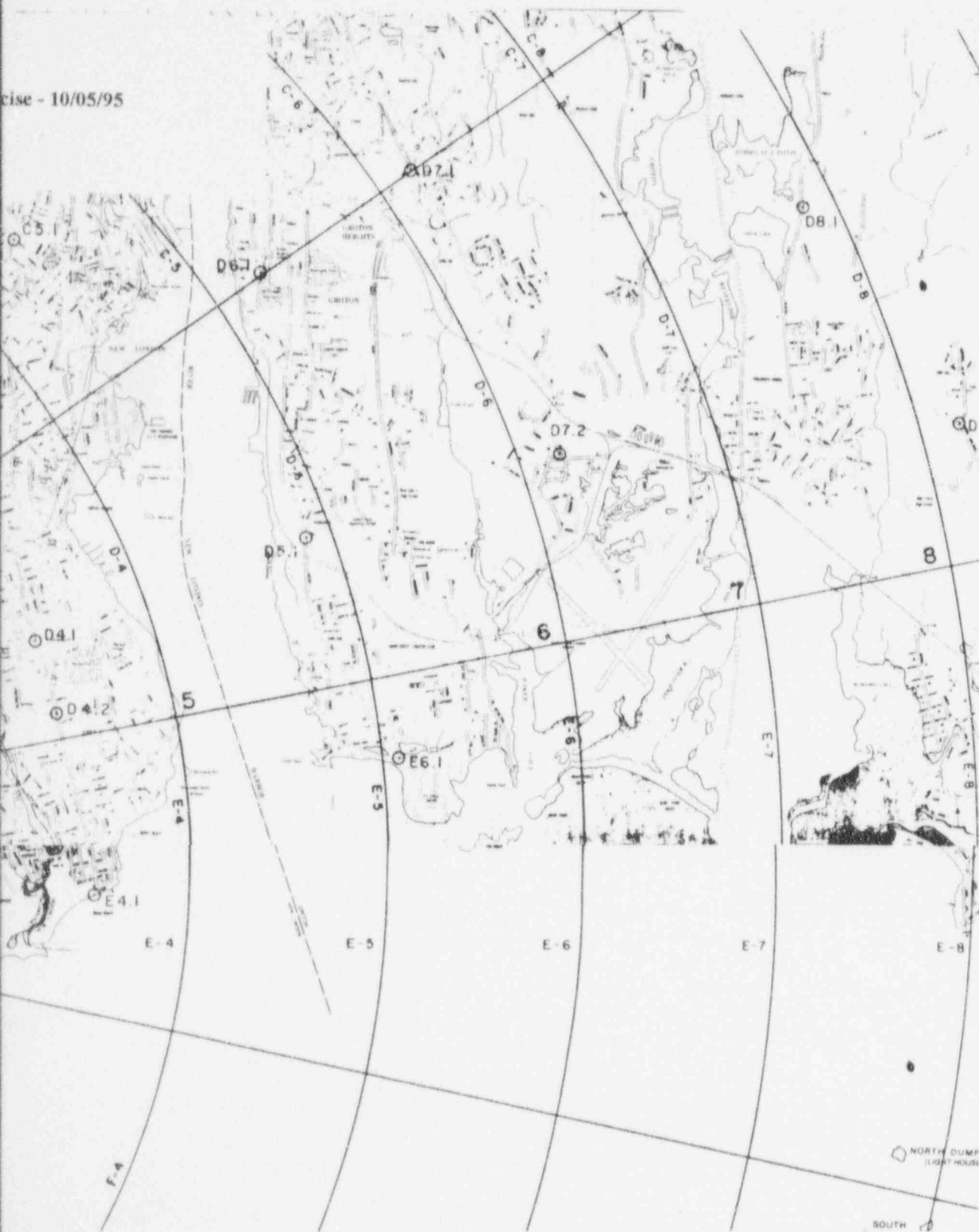
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on Aperture Card

10/05/95



9512270155-02

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 09:30 - 09:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Co.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
C 1.1	1.5E+01	7.4E+00	2.2E+04	0	3.80E-11	10
C 1.2	7.0E+00	3.5E+00	1.1E+04	0	2.20E-11	10
C 2.1	7.8E-01	3.9E-01	1.2E+03	0	5.00E-12	0
D 1.1	2.4E+02	1.2E+02	3.6E+05	190	4.90E-09	10000
D 2.1	2.4E-01	1.2E-01	3.6E+02	0	3.50E-12	0
D 3.1	1.4E-01	7.0E-02	2.1E+02	0	8.80E-11	30
D 4.1	2.0E-01	1.0E-01	3.0E+02	5	1.10E-10	40
E 1.1	9.0E+00	4.5E+00	1.4E+04	0	2.30E-13	0
E 2.1	5.0E-01	2.5E-01	7.5E+02	0	0.00E+00	0
F 2.2	3.8E-01	1.9E-01	5.7E+02	0	0.00E+00	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

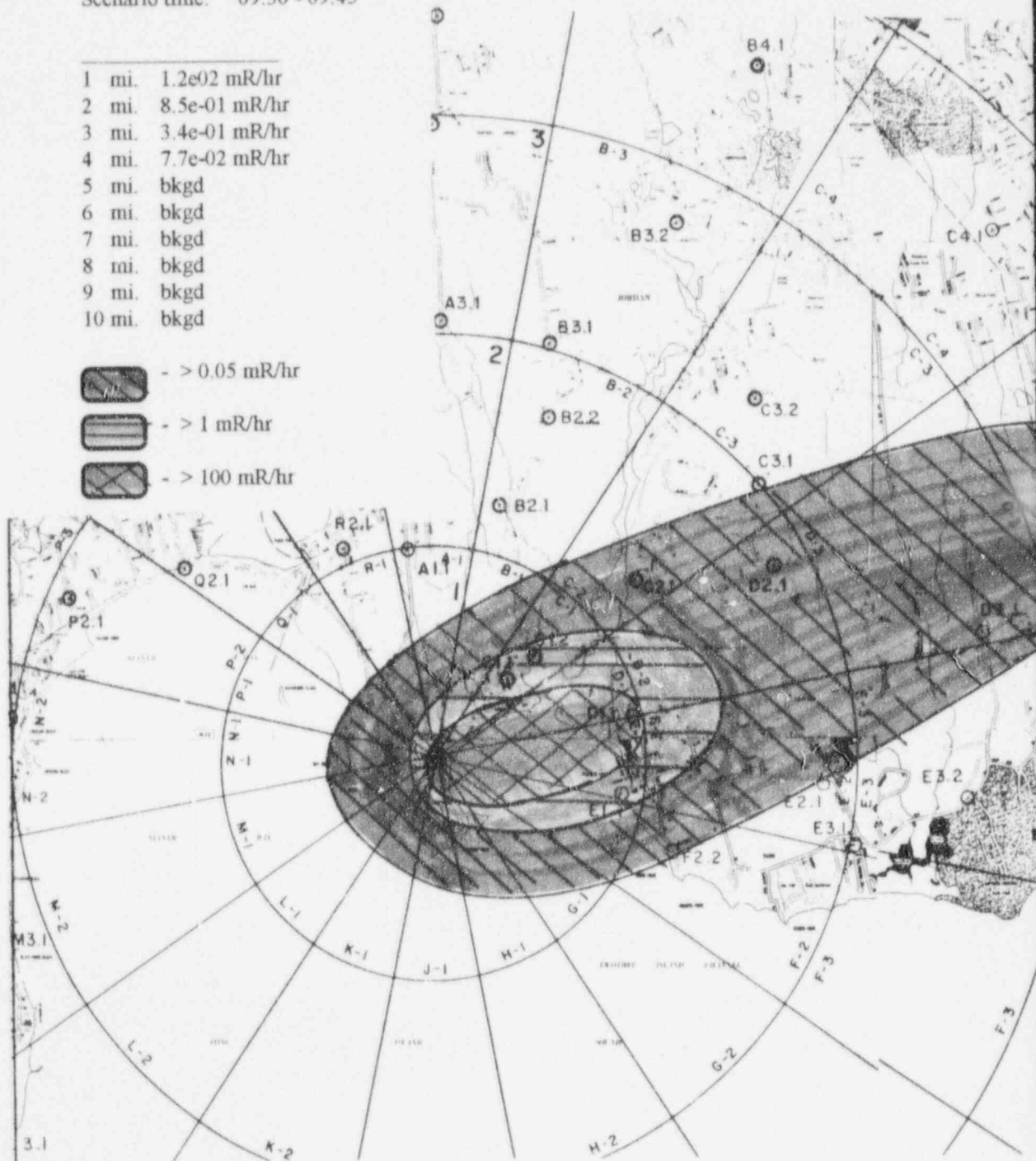
Millstone Unit III Emergency Plan E

Radiological Survey Map

Scenario time: 09:30 - 09:45

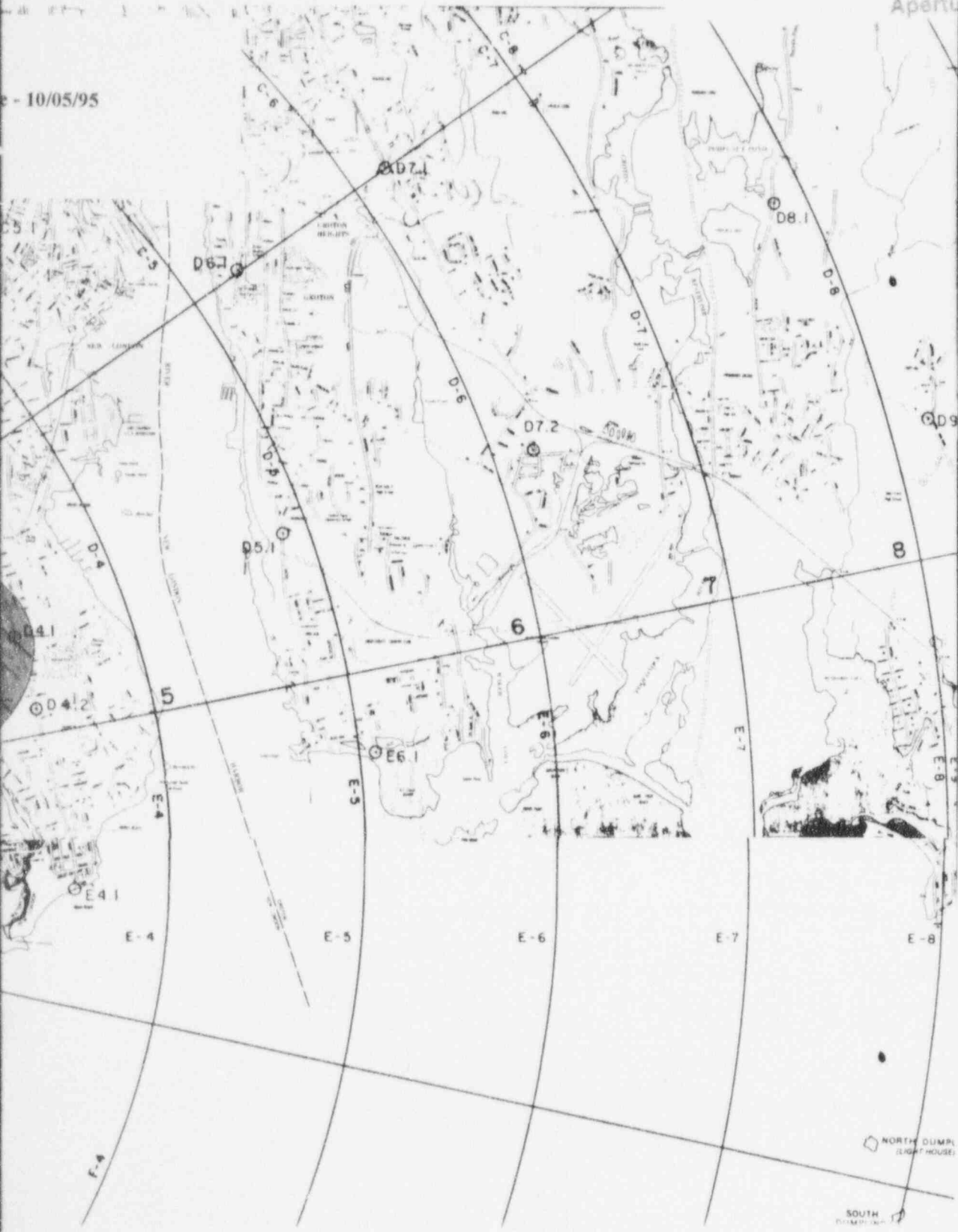
1 mi.	1.2e02 mR/hr
2 mi.	8.5e-01 mR/hr
3 mi.	3.4e-01 mR/hr
4 mi.	7.7e-02 mR/hr
5 mi.	bkgd
6 mi.	bkgd
7 mi.	bkgd
8 mi.	bkgd
9 mi.	bkgd
10 mi.	bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card



9512270155-03

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 09:45 - 10:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	C 1.1	1.1E+01	5.3E+00	1.6E+04	0	5.30E-11
C 1.2	5.6E+00	2.8E+00	8.4E+03	0	5.70E-11	20
C 2.1	2.0E+00	1.0E+00	3.0E+03	15	3.70E-10	130
C 3.1	1.1E+00	5.3E-01	1.6E+03	10	2.00E-10	70
C 3.2	3.0E-01	1.5E-01	4.5E+02	0	5.40E-11	20
D 1.1	1.2E+02	6.1E+01	1.8E+05	5	1.40E-10	50
D 2.1	2.6E+00	1.3E+00	3.9E+03	15	4.10E-10	150
D 3.1	9.0E+01	4.5E+01	1.4E+05	950	2.60E-08	*****
D 4.1	1.9E-01	9.7E-02	2.9E+02	5	1.70E-10	60
D 4.2	2.6E+00	1.3E+00	3.9E+03	100	2.80E-09	1000
E 1.1	4.6E+00	2.3E+00	6.9E+03	0	4.30E-12	0
E 2.1	1.5E+00	7.5E-01	2.3E+03	0	1.50E-11	10
E 3.1	9.6E-02	4.8E-02	1.4E+02	0	4.60E-13	0
E 3.2	1.9E-01	9.6E-02	2.9E+02	0	5.60E-13	0
F 2.2	2.0E-01	1.0E-01	3.0E+02	0	3.50E-13	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

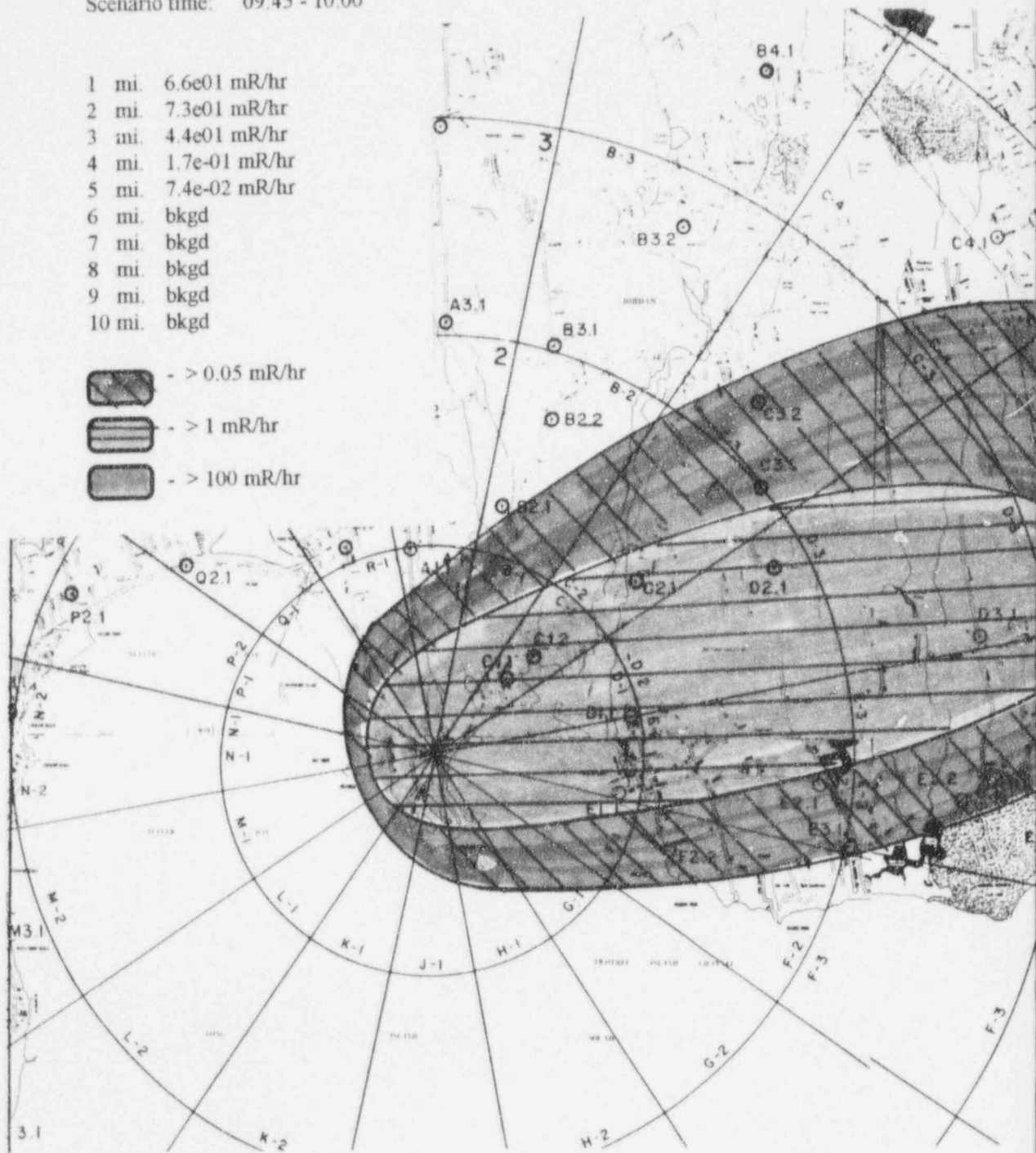
Millstone Unit III Emergency Plan

Radiological Survey Map

Scenario time: 09:45 - 10:00

- 1 mi. 6.6e01 mR/hr
- 2 mi. 7.3e01 mR/hr
- 3 mi. 4.4e01 mR/hr
- 4 mi. 1.7e-01 mR/hr
- 5 mi. 7.4e-02 mR/hr
- 6 mi. bkgd
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

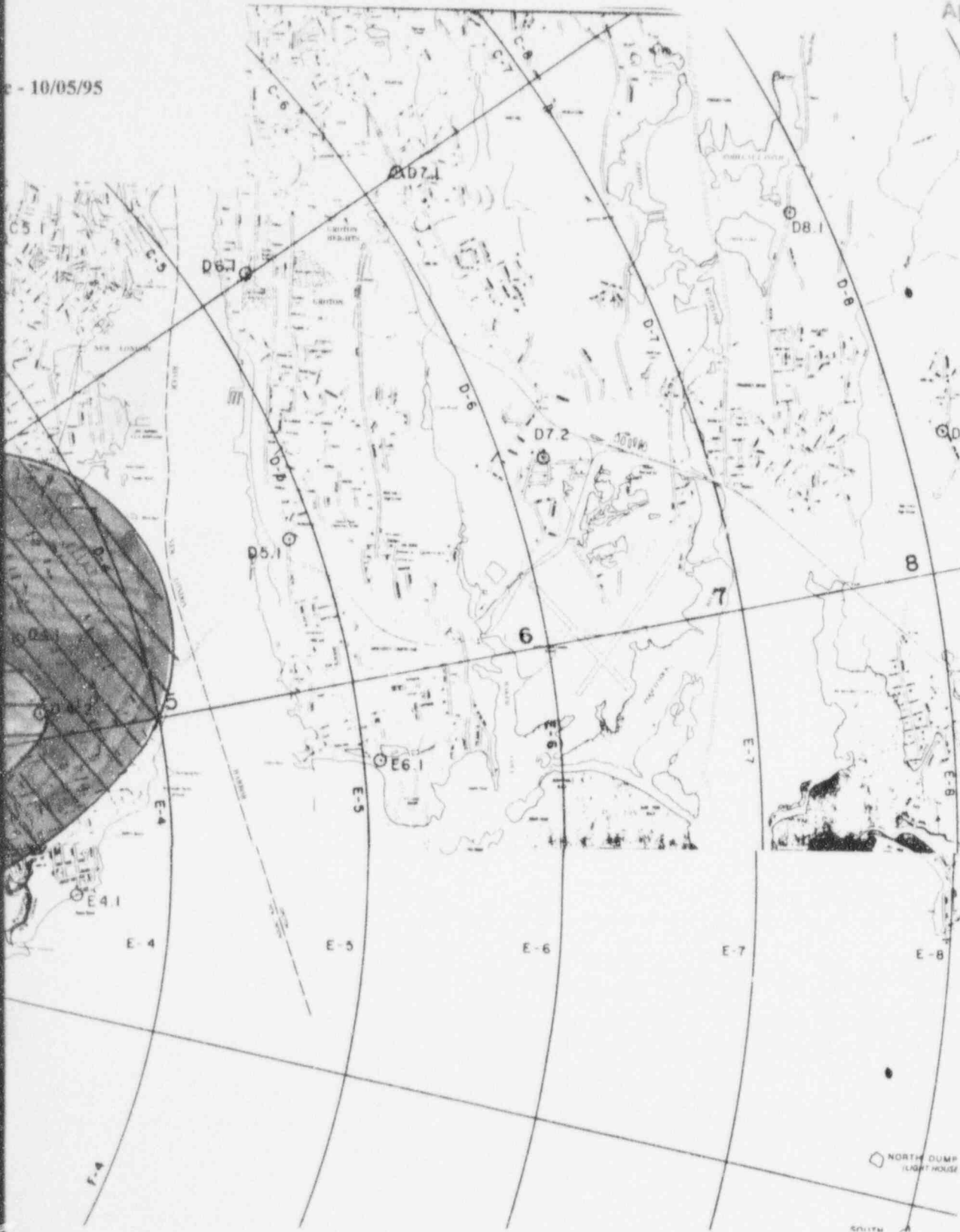
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card

10/05/95



9512270155-04 —

Millstone Unit III Emergency Plan Exercise 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:00 - 10:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.2	1.2E-01	6.2E-02	1.9E+02	0	2.30E-11	10
B 3.2	9.2E-02	4.6E-02	1.4E+02	0	1.50E-11	10
C 1.1	1.7E+01	8.3E+00	2.5E+04	0	8.00E-11	30
C 1.2	9.2E+00	4.6E+00	1.4E+04	0	4.60E-11	20
C 2.1	3.0E+00	1.5E+00	4.5E+03	5	1.40E-10	50
C 3.1	2.6E+00	1.3E+00	3.9E+03	20	5.00E-10	180
C 3.2	2.2E+00	1.1E+00	3.3E+03	15	4.10E-10	150
C 4.1	9.4E-01	4.7E-01	1.4E+03	5	1.40E-10	50
C 5.1	1.8E-01	8.8E-02	2.6E+02	0	2.60E-11	10
D 1.1	1.6E+01	8.1E+00	2.4E+04	0	4.70E-12	0
D 2.1	4.0E+00	2.0E+00	6.0E+03	30	8.20E-10	300
D 3.1	4.0E+00	2.0E+00	6.0E+03	150	3.90E-09	1000
D 4.1	1.6E+01	7.9E+00	2.4E+04	600	1.60E-08	6000
D 4.2	1.4E+01	7.0E+00	2.1E+04	550	1.50E-08	5000
D 5.1	3.2E+00	1.6E+00	4.8E+03	90	2.40E-09	900
D 7.2	1.1E-01	5.5E-02	1.7E+02	0	7.80E-11	30
E 1.1	7.4E-01	3.7E-01	1.1E+03	0	1.10E-13	0
E 6.1	1.6E-01	8.1E-02	2.4E+02	5	1.10E-10	40

Notes:
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

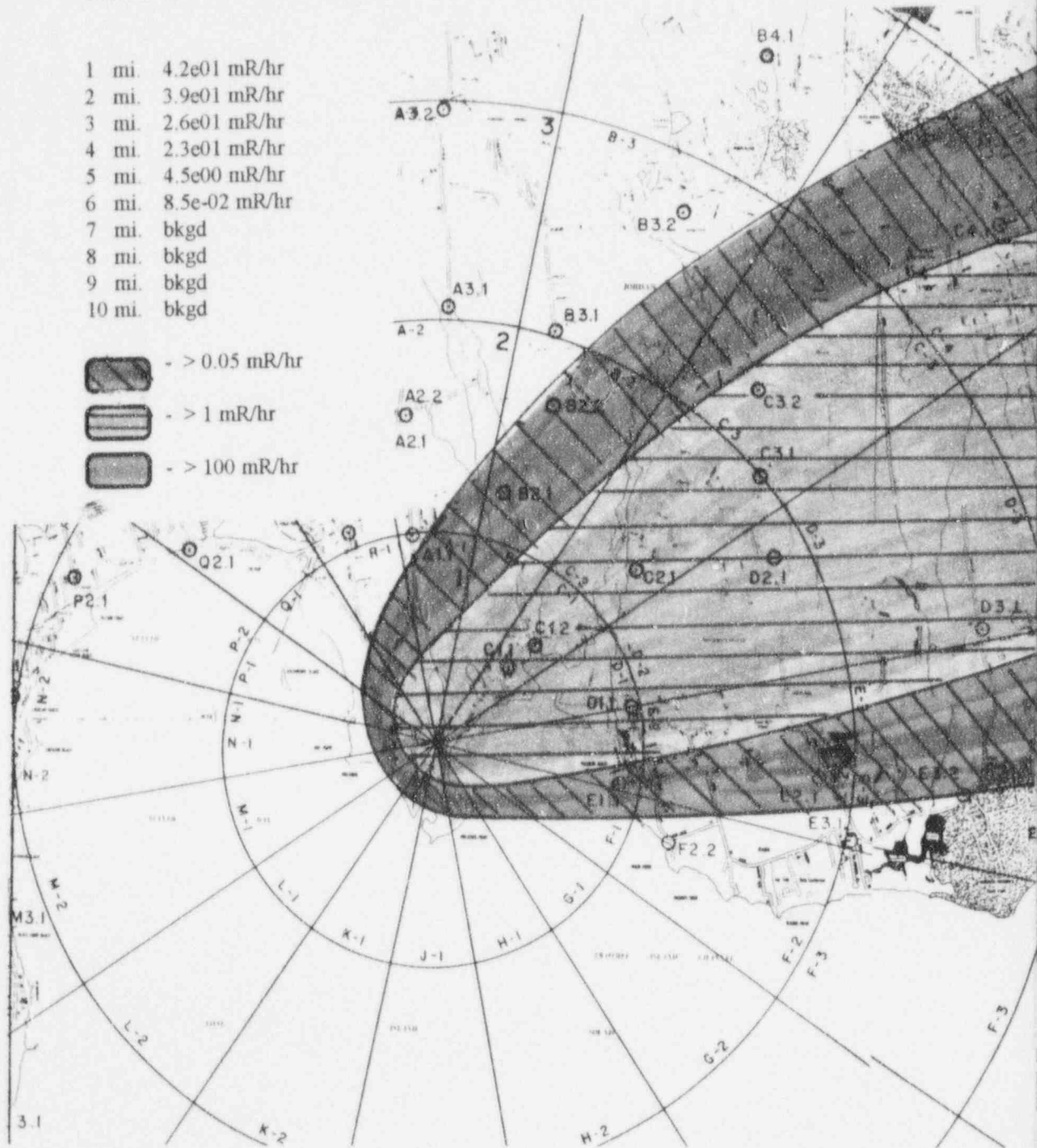
Millstone Unit III Emergency Plan E

Radiological Survey Map

Scenario time: 10:00 - 10:15

- 1 mi. 4.2e01 mR/hr
- 2 mi. 3.9e01 mR/hr
- 3 mi. 2.6e01 mR/hr
- 4 mi. 2.3e01 mR/hr
- 5 mi. 4.5e00 mR/hr
- 6 mi. 8.5e-02 mR/hr
- 7 mi. bkgd
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:15 - 10:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	B 2.1	2.8E-01	1.4E-01	4.2E+02	0	1.30E-11
B 2.2	3.4E-01	1.7E-01	5.1E+02	0	5.70E-11	20
B 3.1	1.6E-01	8.0E-02	2.4E+02	0	3.50E-11	10
B 3.2	4.4E-01	2.2E-01	6.6E+02	0	8.30E-11	30
B 4.1	3.0E-01	1.5E-01	4.5E+02	0	4.90E-11	20
C 1.1	2.4E+01	1.2E+01	3.6E+04	0	7.20E-11	20
C 1.2	1.3E+01	6.6E+00	2.0E+04	0	3.90E-11	10
C 2.1	3.6E+00	1.8E+00	5.4E+03	0	6.70E-11	20
C 3.1	1.5E+00	7.4E-01	2.2E+03	10	2.60E-10	80
C 3.2	1.7E+00	8.3E-01	2.5E+03	10	3.60E-10	100
C 4.1	1.3E+00	6.5E-01	2.0E+03	10	2.10E-10	70
C 5.1	1.0E+00	5.1E-01	1.5E+03	5	1.60E-10	50
C 6.1	3.8E-01	1.9E-01	5.7E+02	0	6.10E-11	20
D 1.1	7.2E+00	3.6E+00	1.1E+04	0	8.60E-13	0
D 2.1	1.1E+01	5.7E+00	1.7E+04	250	7.60E-09	2500
D 3.1	1.8E-01	9.0E-02	2.7E+02	0	2.80E-11	10
D 4.1	1.1E+01	5.6E+00	1.7E+04	320	1.00E-08	20000
D 4.2	2.0E-01	1.0E-01	3.0E+02	10	3.90E-10	150
D 5.1	2.6E+01	1.3E+01	3.9E+04	580	1.80E-08	50000
D 7.1	1.2E-01	6.0E-02	1.8E+02	0	1.80E-11	10
D 7.2	8.6E+00	4.3E+00	1.3E+04	210	6.40E-09	2000
E 1.1	4.0E-01	2.0E-01	6.0E+02	0	2.00E-14	0

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Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

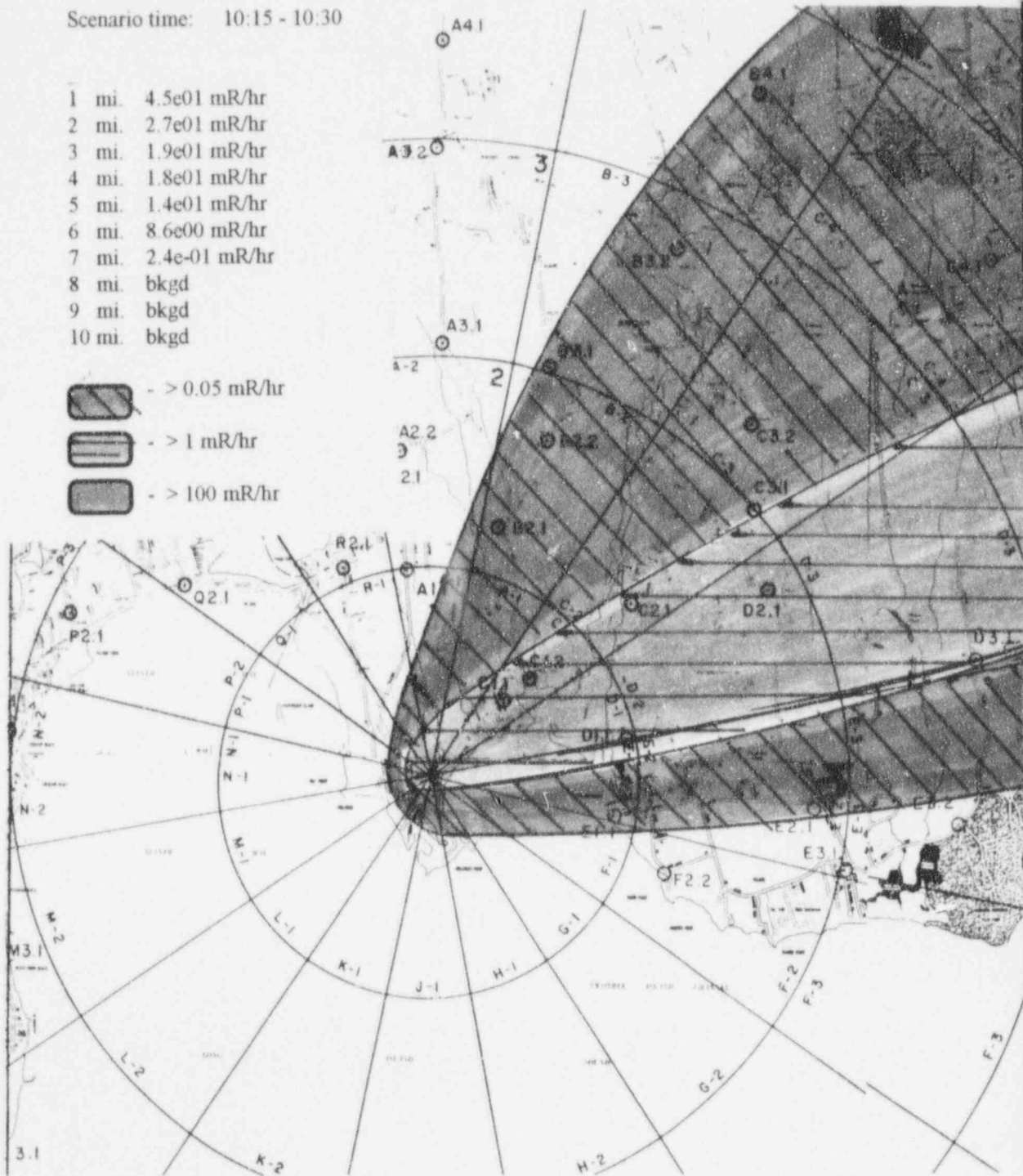
Millstone Unit III Emergency Plan Ex

Radiological Survey Map

Scenario time: 10:15 - 10:30

- 1 mi. 4.5e01 mR/hr
- 2 mi. 2.7e01 mR/hr
- 3 mi. 1.9e01 mR/hr
- 4 mi. 1.8e01 mR/hr
- 5 mi. 1.4e01 mR/hr
- 6 mi. 8.6e00 mR/hr
- 7 mi. 2.4e-01 mR/hr
- 8 mi. bkgd
- 9 mi. bkgd
- 10 mi. bkgd

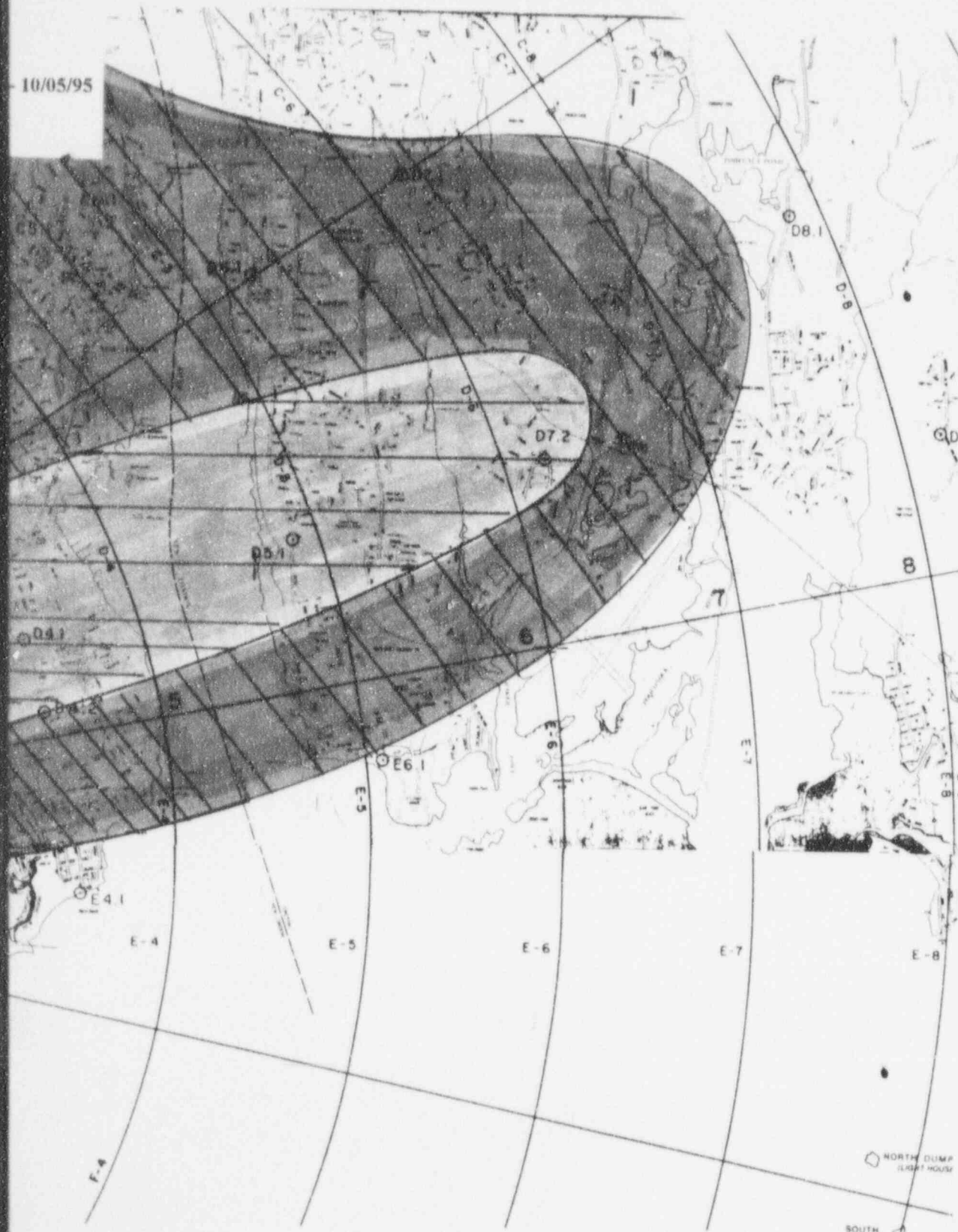
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card

10/05/95



9512270155-06

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 10:30 - 10:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.1	1.0E-01	5.0E-02	1.5E+02	0	2.10E-12	0
B 2.2	1.6E-01	8.0E-02	2.4E+02	0	1.30E-11	0
B 3.1	1.0E-01	5.0E-02	1.5E+02	0	1.40E-11	0
B 3.2	3.6E-01	1.8E-01	5.4E+02	0	8.00E-11	20
B 4.1	3.4E-01	1.7E-01	5.1E+02	0	6.20E-11	20
B 6.1	3.4E-01	1.7E-01	5.1E+02	6	5.60E-11	20
C 1.1	1.7E+01	8.3E+00	2.5E+04	0	6.60E-11	20
C 1.2	9.0E+00	4.5E+00	1.4E+04	0	3.60E-11	10
C 2.1	2.4E+00	1.2E+00	3.6E+03	0	1.90E-11	10
C 3.1	1.4E+00	7.1E-01	2.1E+03	5	1.30E-10	40
C 3.2	1.5E+00	7.4E-01	2.2E+03	10	2.30E-10	70
C 4.1	8.6E-01	4.3E-01	1.3E+03	5	1.60E-10	50
C 5.1	9.4E-01	4.7E-01	1.4E+03	5	1.60E-10	50
C 6.1	4.4E-01	2.2E-01	6.6E+02	0	7.40E-11	20
C 7.1	5.6E-01	2.8E-01	8.4E+02	0	9.40E-11	30
D 1.1	1.2E+01	6.2E+00	1.9E+04	0	8.70E-13	0
D 2.1	7.8E+00	3.9E+00	1.2E+04	130	4.30E-09	1300
D 3.1	1.4E-01	7.0E-02	2.1E+02	0	1.20E-11	0
D 4.1	2.2E+00	1.1E+00	3.3E+03	120	4.10E-09	1200
D 5.1	1.4E+01	6.8E+00	2.0E+04	340	1.10E-08	3000
D 7.1	3.4E-01	1.7E-01	5.1E+02	0	5.70E-11	20
D 7.2	2.4E+01	1.2E+01	3.6E+04	520	1.70E-08	5000
D 8.1	2.4E-01	1.2E-01	3.6E+02	5	1.50E-10	50
D 9.1	6.2E-01	3.1E-01	9.3E+02	15	4.60E-10	150
E 1.1	6.2E-01	3.1E-01	9.3E+02	0	1.10E-14	0




Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95

Scenario time: 10:30 - 10:45

Radiological Survey Map

- 1 mi. 4.5e01 mR/hr
- 2 mi. 2.8e01 mR/hr
- 3 mi. 1.5e01 mR/hr
- 4 mi. 6.0e00 mR/hr
- 5 mi. 7.6e00 mR/hr
- 6 mi. 1.1e01 mR/hr
- 7 mi. 9.4e00 mR/hr
- 8 mi. 9.7e-01 mR/hr
- 9 mi. bkgd
- 10 mi. bkgd

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
 Scenario Time: 10:45 - 11:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	B 3.2	1.6E-01	8.0E-02	2.4E+02	0	2.90E-11
B 4.1	1.6E-01	8.0E-02	2.4E+02	0	3.30E-11	10
B 6.1	3.2E-01	1.6E-01	4.8E+02	0	5.60E-11	20
C 1.1	1.7E+01	8.6E+00	2.6E+04	0	6.60E-11	20
C 1.2	1.0E+01	5.0E+00	1.5E+04	0	3.70E-11	10
C 2.1	3.2E+00	1.6E+00	4.8E+03	0	1.40E-11	0
C 3.1	1.4E+00	7.0E-01	2.1E+03	0	4.70E-11	10
C 3.2	1.1E+00	5.4E-01	1.6E+03	0	8.80E-11	30
C 4.1	8.2E-01	4.1E-01	1.2E+03	5	1.70E-10	50
C 5.1	8.0E-01	4.0E-01	1.2E+03	5	1.50E-10	40
C 6.1	3.8E-01	1.9E-01	5.7E+02	0	8.50E-11	20
C 7.1	6.2E-01	3.1E-01	9.3E+02	0	1.10E-10	30
C 9.1	2.8E-01	1.4E-01	4.2E+02	0	4.80E-11	10
C 9.2	2.2E-01	1.1E-01	3.3E+02	0	3.70E-11	10
C 9.3	3.2E-01	1.6E-01	4.8E+02	0	5.40E-11	20
D 1.1	5.2E+00	2.6E+00	7.8E+03	0	7.40E-13	0
D 2.1	1.7E+01	8.4E+00	2.5E+04	10	4.40E-10	130
D 3.1	1.2E-01	6.0E-02	1.8E+02	0	1.10E-11	0
D 4.1	9.8E-01	4.9E-01	1.5E+03	75	2.60E-09	750
D 5.1	4.2E+00	2.1E+00	6.3E+03	100	3.30E-09	1000
D 7.1	3.2E-01	1.6E-01	4.8E+02	0	7.30E-11	20
D 7.2	5.6E+00	2.8E+00	8.4E+03	120	4.20E-09	1200
D 8.1	5.2E+00	2.6E+00	7.8E+03	110	3.70E-09	1000
D 9.1	6.2E+00	3.1E+00	9.3E+03	130	4.50E-09	1300
D10.1	5.8E+00	2.9E+00	8.7E+03	120	4.20E-09	1200
D10.2	2.0E-01	1.0E-01	3.0E+02	5	1.30E-10	40
E 1.1	2.8E-01	1.4E-01	4.2E+02	0	1.10E-14	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

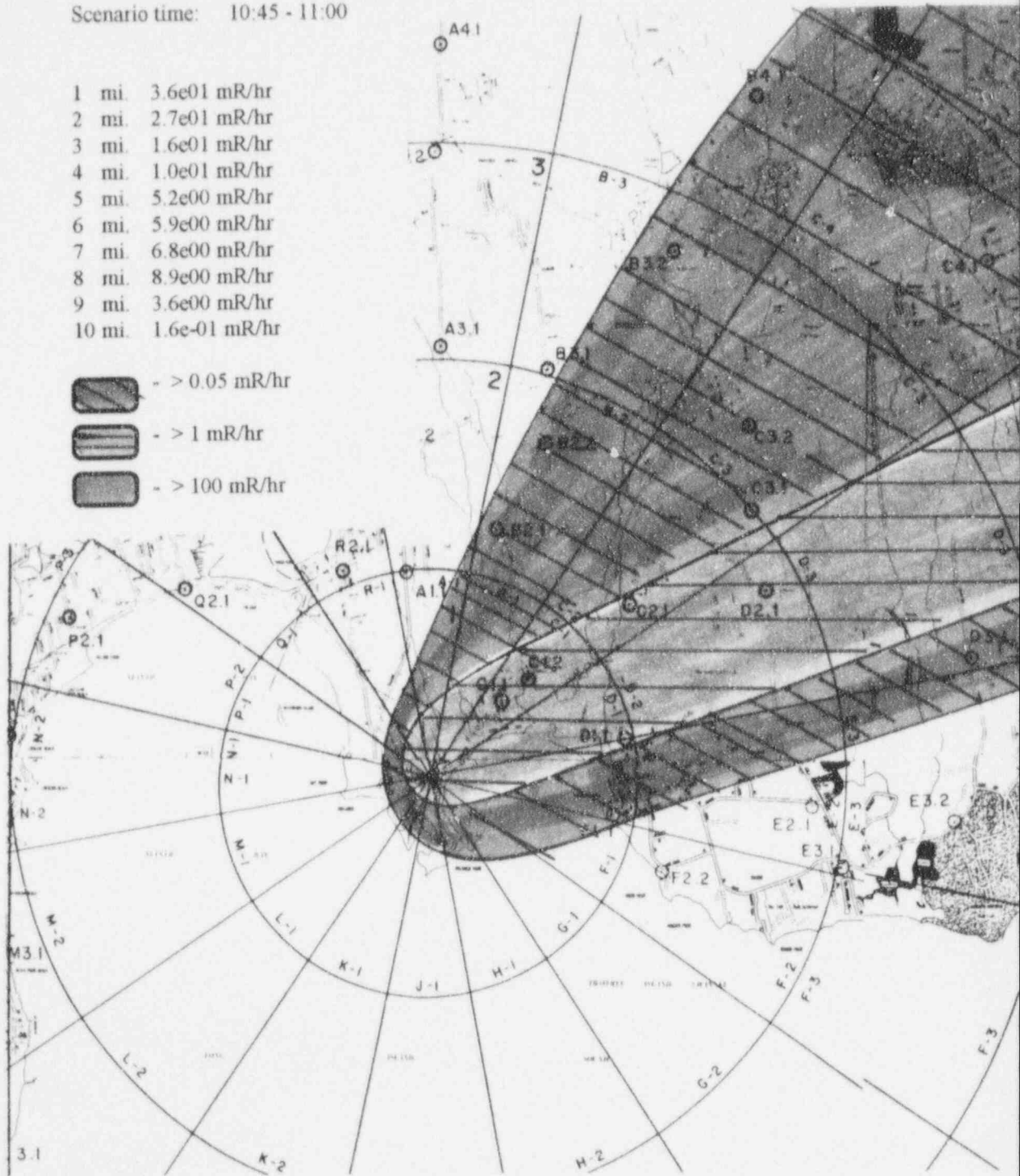
Millstone Unit III Emergency Plan Ex

Radiological Survey Map

Scenario time: 10:45 - 11:00

- 1 mi. 3.6e01 mR/hr
- 2 mi. 2.7e01 mR/hr
- 3 mi. 1.6e01 mR/hr
- 4 mi. 1.0e01 mR/hr
- 5 mi. 5.2e00 mR/hr
- 6 mi. 5.9e00 mR/hr
- 7 mi. 6.8e00 mR/hr
- 8 mi. 8.9e00 mR/hr
- 9 mi. 3.6e00 mR/hr
- 10 mi. 1.6e-01 mR/hr

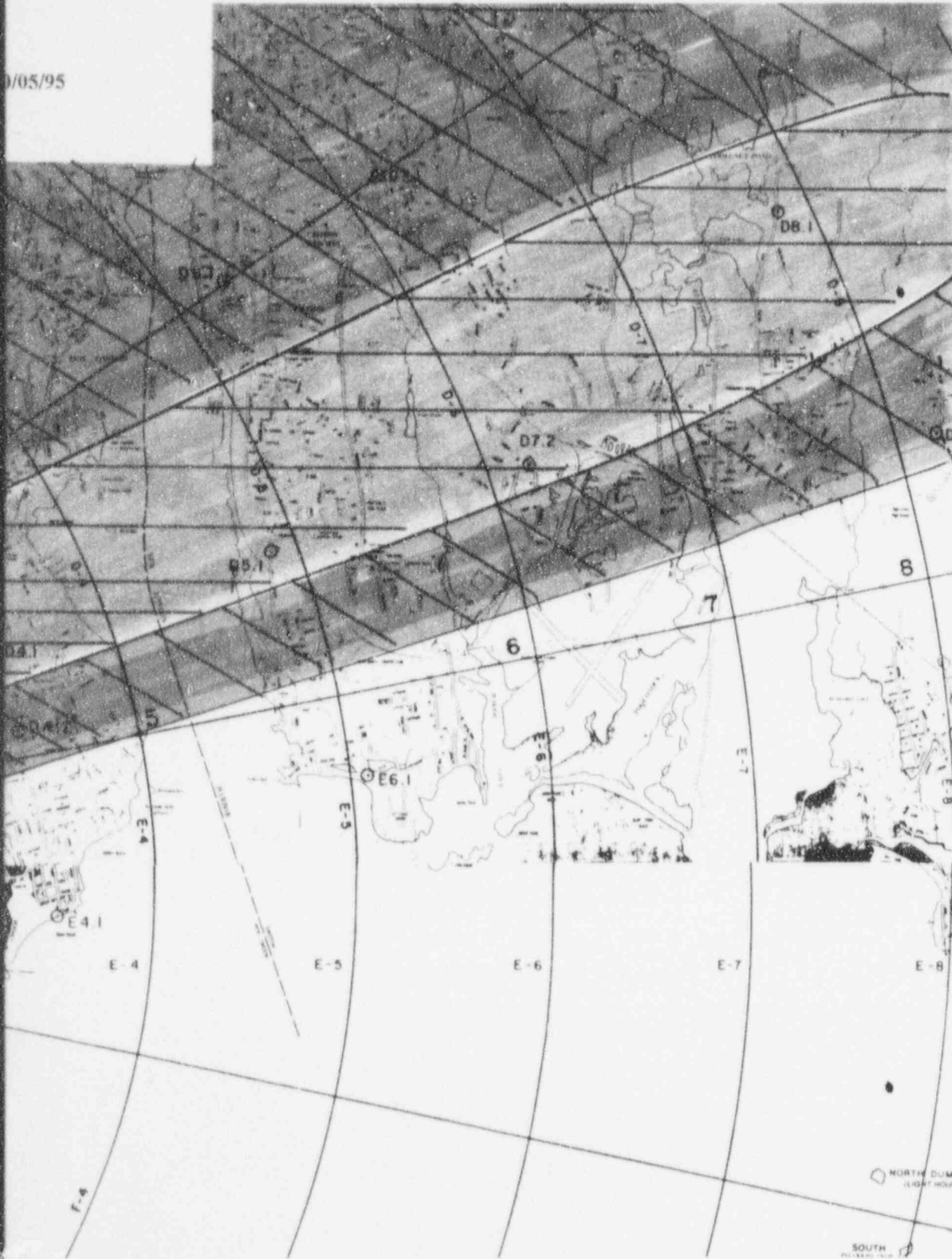
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card

0/05/95



9512270155-08




Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Survey Map

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Scenario time: 10:45 - 11:00

1 mi.	3.6e01 mR/hr
2 mi.	2.7e01 mR/hr
3 mi.	1.6e01 mR/hr
4 mi.	1.0e01 mR/hr
5 mi.	5.2e00 mR/hr
6 mi.	5.9e00 mR/hr
7 mi.	6.8e00 mR/hr
8 mi.	8.9e00 mR/hr
9 mi.	3.6e00 mR/hr
10 mi.	1.6e-01 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 11:00 - 11:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 6.1	2.2E-01	1.1E-01	3.3E+02	0	3.90E-11	10
C 1.1	3.2E+01	1.6E+01	4.8E+04	5	2.30E-10	60
C 1.2	2.0E+01	9.8E+00	2.9E+04	5	1.40E-10	40
C 2.1	6.8E+00	3.4E+00	1.0E+04	0	3.70E-11	10
C 3.1	2.2E+00	1.1E+00	3.3E+03	0	6.90E-11	20
C 3.2	1.5E+00	7.7E-01	2.3E+03	0	2.80E-11	10
C 4.1	7.4E-01	3.7E-01	1.1E+03	5	1.70E-10	50
C 5.1	7.0E-01	3.5E-01	1.1E+03	5	1.40E-10	40
C 6.1	7.6E-01	3.8E-01	1.1E+03	10	4.20E-10	120
C 7.1	6.0E-01	3.0E-01	9.0E+02	0	1.10E-10	30
C 9.1	3.4E-01	1.7E-01	5.1E+02	0	6.20E-11	20
C 9.2	2.4E-01	1.2E-01	3.6E+02	0	4.70E-11	10
C 9.3	4.0E-01	2.0E-01	6.0E+02	0	7.10E-11	20
D 1.1	2.0E+00	1.0E+00	3.0E+03	0	3.90E-14	0
D 2.1	3.4E+01	1.7E+01	5.1E+04	20	6.50E-10	180
D 3.1	2.0E-02	1.0E-02	3.0E+01	0	3.40E-13	0
D 4.1	1.2E-01	6.0E-02	1.8E+02	10	2.40E-10	70
D 5.1	1.1E+00	5.3E-01	1.6E+03	25	8.90E-10	250
D 7.1	7.4E-01	3.7E-01	1.1E+03	10	4.40E-10	120
D 7.2	5.8E-01	2.9E-01	8.7E+02	10	4.40E-10	120
D 8.1	9.2E+00	4.6E+00	1.4E+04	190	6.80E-09	1900
D 9.1	3.4E-01	1.7E-01	5.1E+02	10	2.60E-10	70
D10.1	3.6E+00	1.8E+00	5.4E+03	80	2.80E-09	800
D10.2	6.8E+00	3.4E+00	1.0E+04	150	5.20E-09	1500
E 1.1	1.2E-01	6.0E-02	1.8E+02	0	0.00E+00	0

Notes:
LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

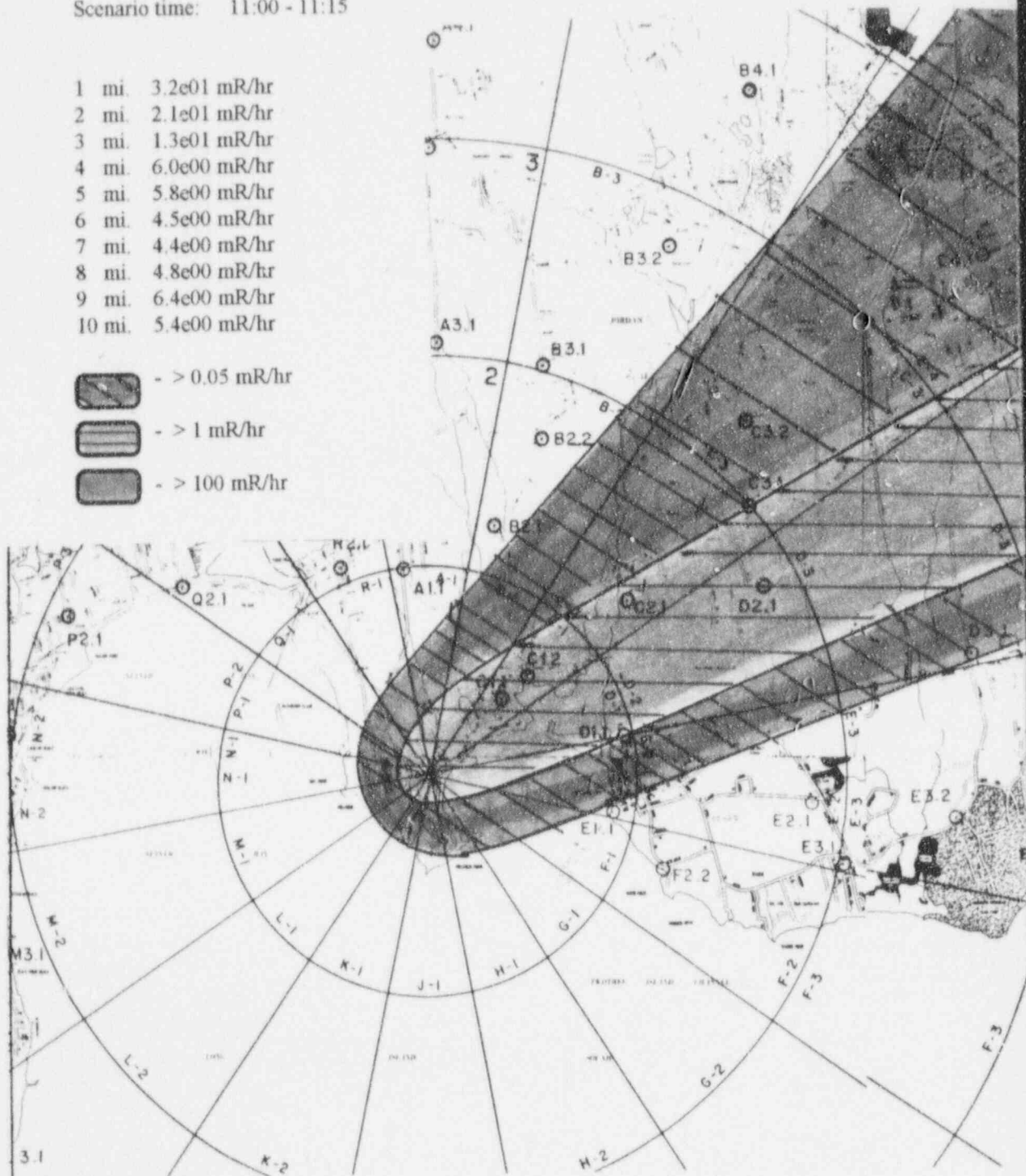
Milstone Unit III Emergency Plan E

Radiological Survey Map

Scenario time: 11:00 - 11:15

1 mi.	3.2e01 mR/hr
2 mi.	2.1e01 mR/hr
3 mi.	1.3e01 mR/hr
4 mi.	6.0e00 mR/hr
5 mi.	5.8e00 mR/hr
6 mi.	4.5e00 mR/hr
7 mi.	4.4e00 mR/hr
8 mi.	4.8e00 mR/hr
9 mi.	6.4e00 mR/hr
10 mi.	5.4e00 mR/hr

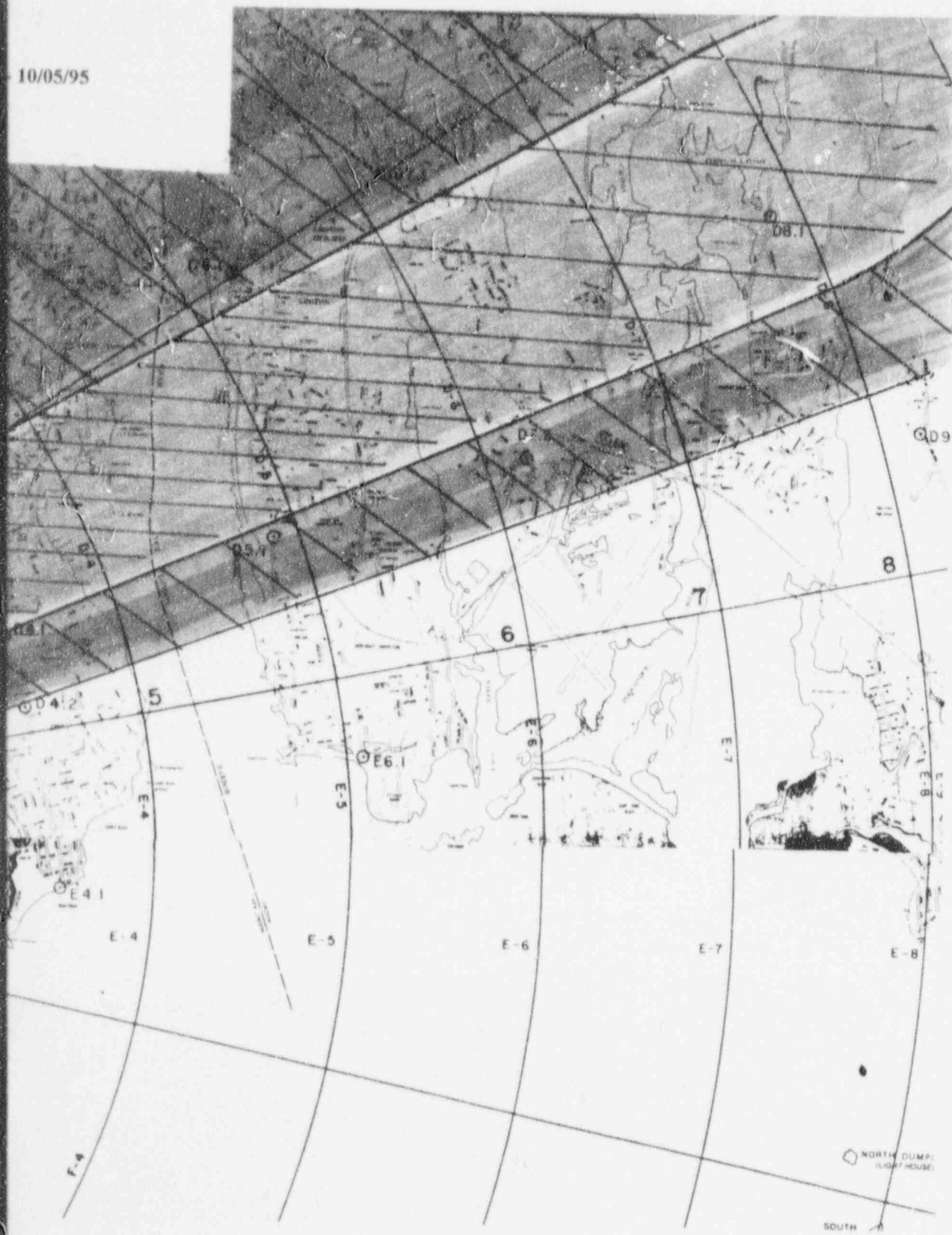
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card

10/05/95



9512270155-09

Millstone Unit III Emergency Plan Exercise - 10/05/95

Centerline Ground & Waist Level
Survey Meter Readings (W/C)

Radiological Survey Map

Scenario time: 11:00 - 11:15

1 mi.	3.2e01 mR/hr
2 mi.	2.1e01 mR/hr
3 mi.	1.3e01 mR/hr
4 mi.	6.0e00 mR/hr
5 mi.	5.8e00 mR/hr
6 mi.	4.5e00 mR/hr
7 mi.	4.4e00 mR/hr
8 mi.	4.8e00 mR/hr
9 mi.	6.4e00 mR/hr
10 mi.	5.4e00 mR/hr

	- > 0.05 mR/hr
	- > 1 mR/hr
	- > 100 mR/hr



Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

OFF-SITE DOSE GUIDE
Scenario Time: 11:15 - 11:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
B 2.1	1.0E-01	5.0E-02	1.5E+02	0	9.70E-13	0
B 2.2	1.2E-01	6.0E-02	1.8E+02	0	1.20E-12	0
B 3.2	1.4E-01	7.0E-02	2.1E+02	0	1.60E-11	0
B 4.1	1.2E-01	6.0E-02	1.8E+02	0	2.70E-11	10
B 6.1	1.8E-01	9.0E-02	2.7E+02	0	3.60E-11	10
C 1.1	2.8E+01	1.4E+01	4.2E+04	0	6.90E-11	20
C 1.2	1.8E+01	9.1E+00	2.7E+04	0	3.70E-11	10
C 2.1	1.0E+01	5.1E+00	1.5E+04	0	2.40E-11	10
C 3.1	4.0E+00	2.0E+00	6.0E+03	0	5.90E-11	20
C 3.2	1.1E+00	5.3E-01	1.6E+03	0	3.20E-11	10
C 4.1	6.6E-01	3.3E-01	9.9E+02	10	3.10E-10	80
C 5.1	6.2E-01	3.1E-01	9.3E+02	0	1.30E-10	30
C 6.1	3.8E+00	1.9E+00	5.7E+03	80	3.10E-09	800
C 7.1	4.6E-01	2.3E-01	6.9E+02	0	9.00E-11	20
C 9.1	3.0E-01	1.5E-01	4.5E+02	0	5.70E-11	20
C 9.2	5.2E-01	2.6E-01	7.8E+02	10	2.80E-10	70
C 9.3	3.4E-01	1.7E-01	5.1E+02	0	6.40E-11	20
D 1.1	8.4E-01	4.2E-01	1.3E+03	0	2.00E-13	0
D 2.1	5.2E+00	2.6E+00	7.8E+03	0	5.10E-11	10
D 7.1	3.4E+00	1.7E+00	5.1E+03	70	2.60E-09	700
D 8.1	4.4E+00	2.2E+00	6.6E+03	90	3.40E-09	900
D10.1	1.2E-01	6.0E-02	1.8E+02	0	8.40E-11	20
D10.2	7.6E+00	3.8E+00	1.1E+04	150	5.60E-09	1500

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Notes

LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc




Centerline Ground & Waist Level
Survey Meter Readings (W/C)

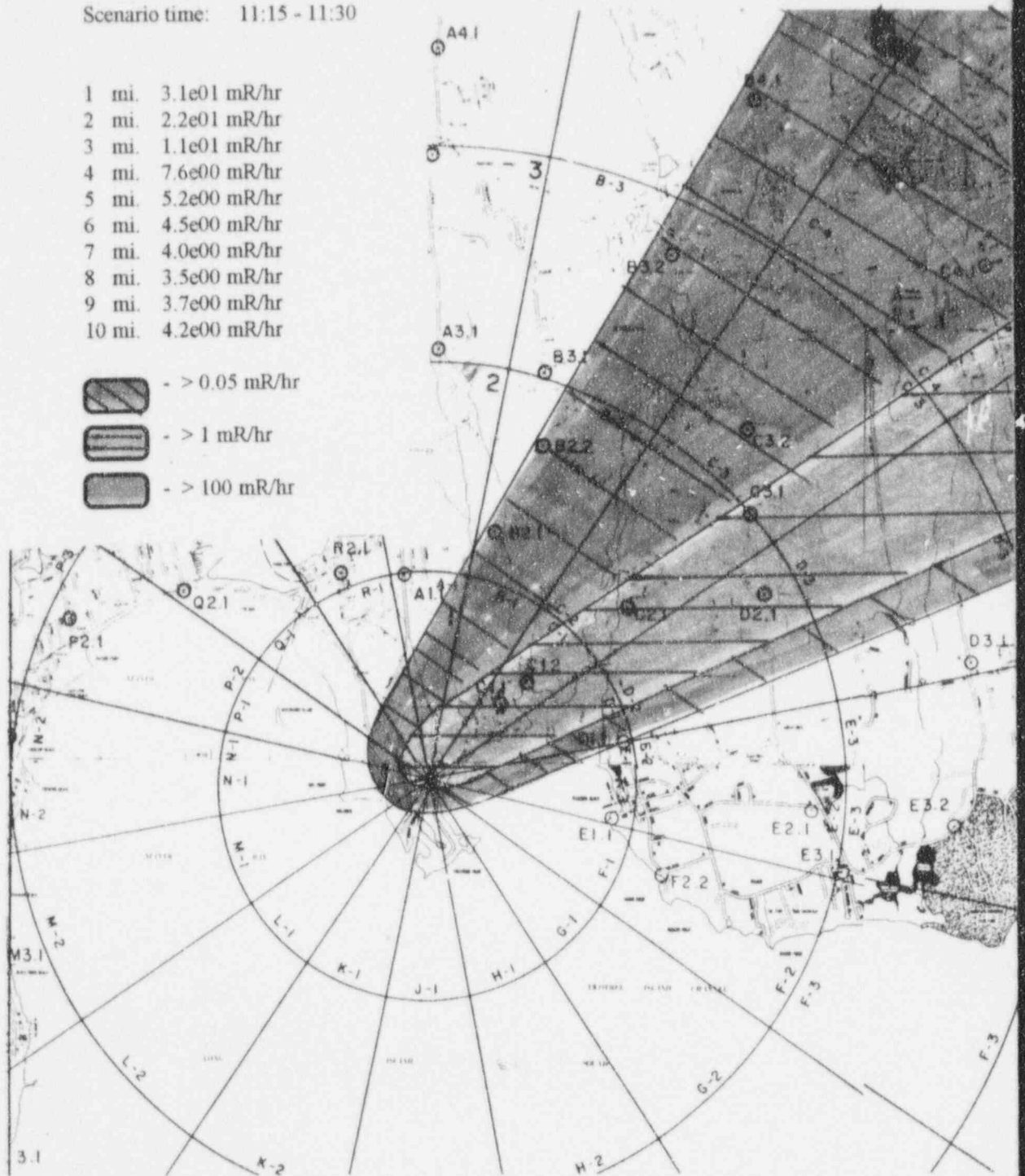
Millstone Unit III Emergency Plan

Radiological Survey Map

Scenario time: 11:15 - 11:30

- 1 mi. 3.1e01 mR/hr
- 2 mi. 2.2e01 mR/hr
- 3 mi. 1.1e01 mR/hr
- 4 mi. 7.6e00 mR/hr
- 5 mi. 5.2e00 mR/hr
- 6 mi. 4.5e00 mR/hr
- 7 mi. 4.0e00 mR/hr
- 8 mi. 3.5e00 mR/hr
- 9 mi. 3.7e00 mR/hr
- 10 mi. 4.2e00 mR/hr

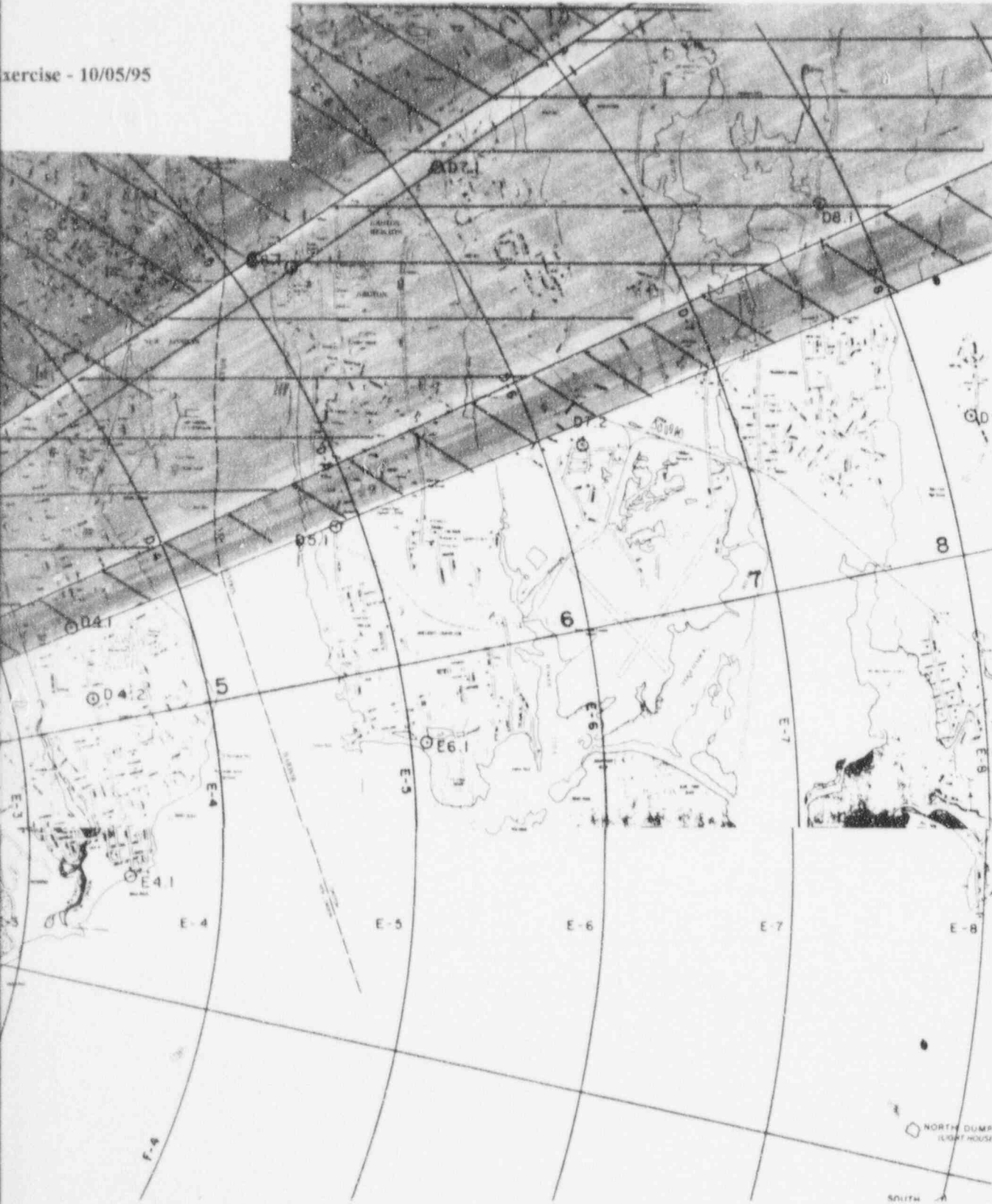
-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr



ANSTEC APERTURE CARD

Also Available on
Aperture Card

Exercise - 10/05/95






9512270155-10

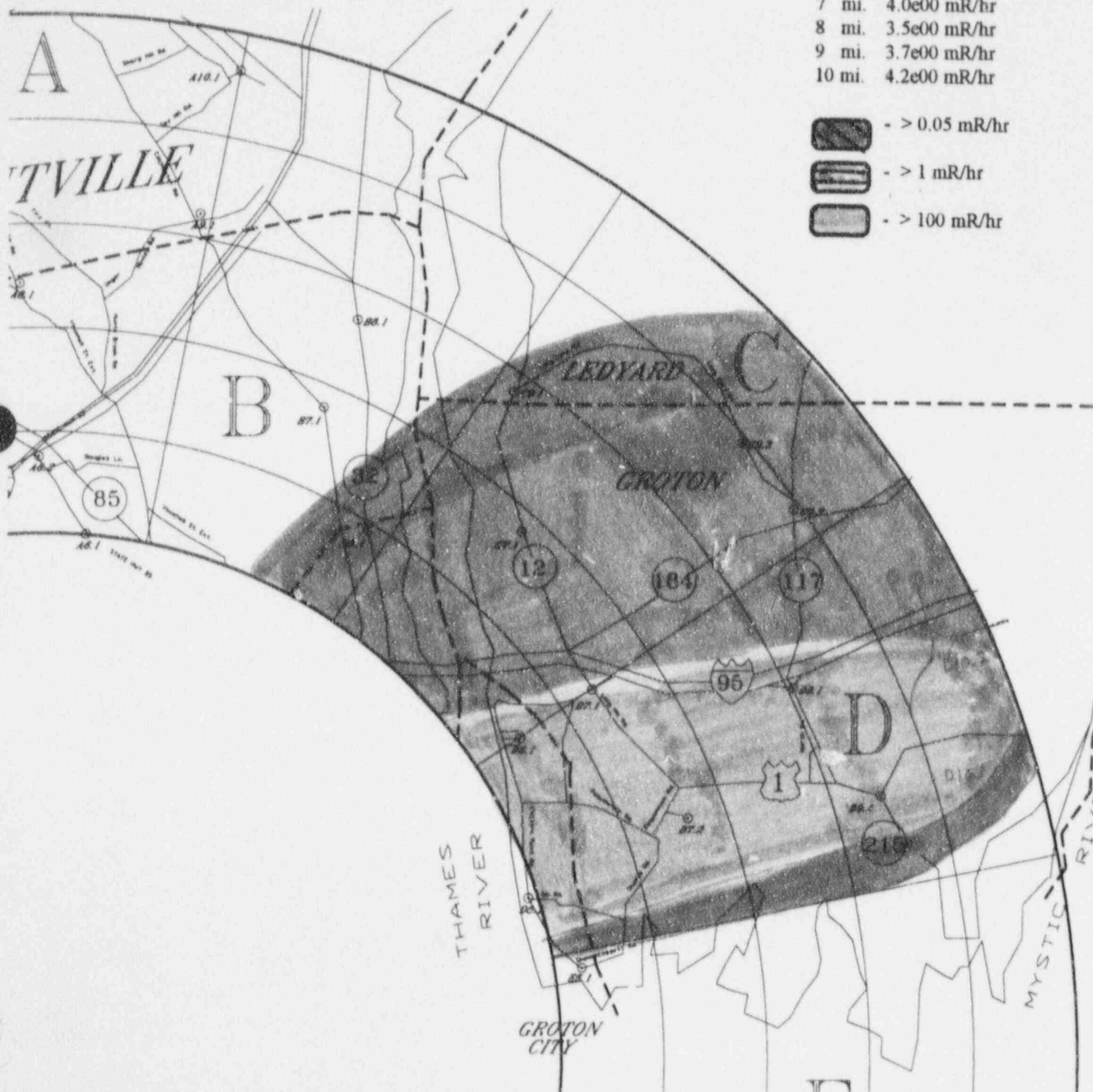
Millstone Unit III Emergency Plan Exercise - 10/05/95
 Radiological Survey Map

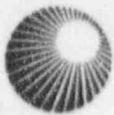
Centerline Ground & Waist Level
 Survey Meter Readings (W/C)

Scenario time: 11:15 - 11:30

- 1 mi. 3.1e01 mR/hr
- 2 mi. 2.2e01 mR/hr
- 3 mi. 1.1e01 mR/hr
- 4 mi. 7.6e00 mR/hr
- 5 mi. 5.2e00 mR/hr
- 6 mi. 4.5e00 mR/hr
- 7 mi. 4.0e00 mR/hr
- 8 mi. 3.5e00 mR/hr
- 9 mi. 3.7e00 mR/hr
- 10 mi. 4.2e00 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr





MILLSTONE UNIT 3

EXERCISE

INDEX

DESCRIPTION	TIME	PAGE
ON-SITE DOSE GUIDE AND MAP	0915 - 0930	1
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ON-SITE DOSE GUIDE AND MAP	1000 - 1015	4
ON-SITE DOSE GUIDE AND MAP	1015 - 1030	5
ON-SITE DOSE GUIDE AND MAP	1030 - 1045	6
ON-SITE DOSE GUIDE AND MAP	1045 - 1100	7
ON-SITE DOSE GUIDE AND MAP	1100 - 1115	8
ON-SITE DOSE GUIDE AND MAP	1115 - 1130	9

RADIOLOGICAL AND CHEMISTRY DATA

On-site Radiological Data

Note: On-site radiological data is provided as a function of time and location. The data was generated using ADAM and radiological engineering estimates as necessary. During the exercise, monitoring teams will be providing information as they demonstrate their ability to monitor the release.

Tables and Maps are provided from 0900-1130

1. The iodine concentration (Ci/m^3) is provided only after an air sample has been analyzed by the laboratory. The values in most cases are therefore "informational use only".
2. The survey meter readings are for both waist and ground level.
3. The term background reflects current ambient conditions.

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 09:00 - 09:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	1.7E-03	8.60E-04	2.6E+00	0	0.0E+00
B 0.1	3.6E-02	1.80E-02	5.4E+01	0	0.00E+00	0
C 0.1	4.2E-01	2.10E-01	6.3E+02	0	6.40E-11	30
C 0.2	2.6E-02	1.30E-02	3.9E+01	0	4.10E-12	0
G 0.1	4.2E-02	2.10E-02	6.3E+01	0	0	0
H 0.1	2.0E-02	9.80E-03	2.9E+01	0	0	0
J 0.1	1.7E-02	8.50E-03	2.6E+01	0	0	0
K 0.1	2.8E-02	1.40E-02	4.2E+01	0	0	0
P 0.1	1.1E-02	5.40E-03	1.6E+01	0	0	0
Q 0.1	7.4E-04	3.70E-04	1.1E+00	0	0	0
R 0.1	3.4E-03	1.70E-03	5.1E+00	0	0	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/75





On-Site Radiological Survey Map

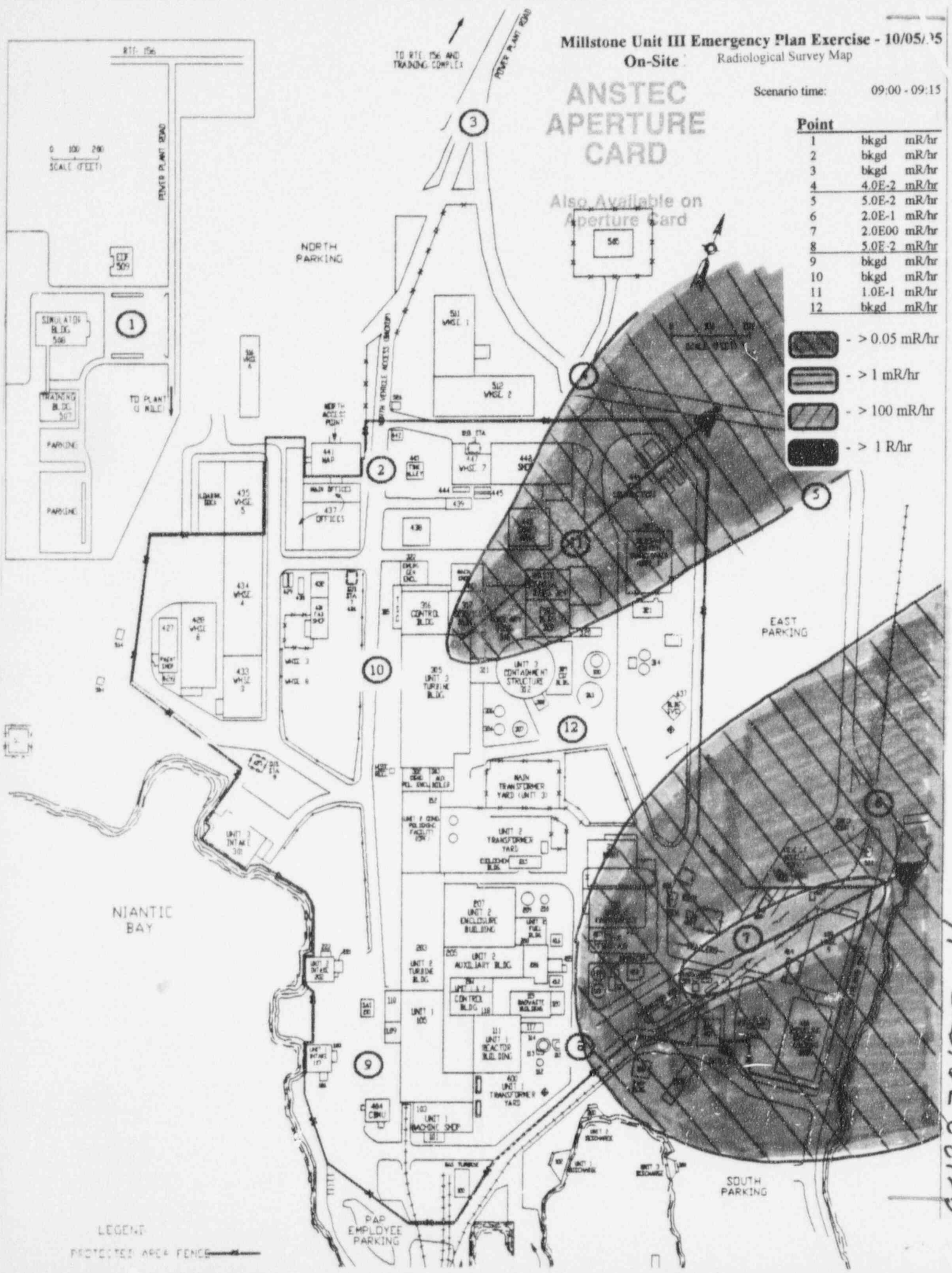
Scenario time: 09:00 - 09:15

ANSTEC APERTURE CARD

Also Available on Aperture Card

Point	Rate
1	bkgd mR/hr
2	bkgd mR/hr
3	bkgd mR/hr
4	4.0E-2 mR/hr
5	5.0E-2 mR/hr
6	2.0E-1 mR/hr
7	2.0E00 mR/hr
8	5.0E-2 mR/hr
9	bkgd mR/hr
10	bkgd mR/hr
11	1.0E-1 mR/hr
12	bkgd mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



NJANTIC BAY

LEGEND
PROTECTED AREA FENCE

9512270155-1

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 09:15 - 09:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	3.4E-03	1.70E-03	5.1E+00	0	0	0
B 0.1	8.8E-02	4.40E-02	1.3E+02	0	0	0
C 0.1	1.0E+00	5.20E-01	1.6E+03	15	3.50E-10	150
C 0.2	2.2E-02	1.10E-02	3.3E+01	0	2.10E-12	0
C 0.1	8.0E-02	4.00E-02	1.2E+02	0	0	0
H 0.1	3.8E-02	1.90E-02	5.7E+01	0	0	0
J 0.1	3.4E-02	1.70E-02	5.1E+01	0	0	0
K 0.1	5.4E-02	2.70E-02	8.1E+01	0	0	0
P 0.1	2.2E-02	1.10E-02	3.3E+01	0	0	0
Q 0.1	1.5E-03	7.30E-04	2.2E+00	0	0	0
R 0.1	6.6E-03	3.30E-03	9.9E+00	0	0	0

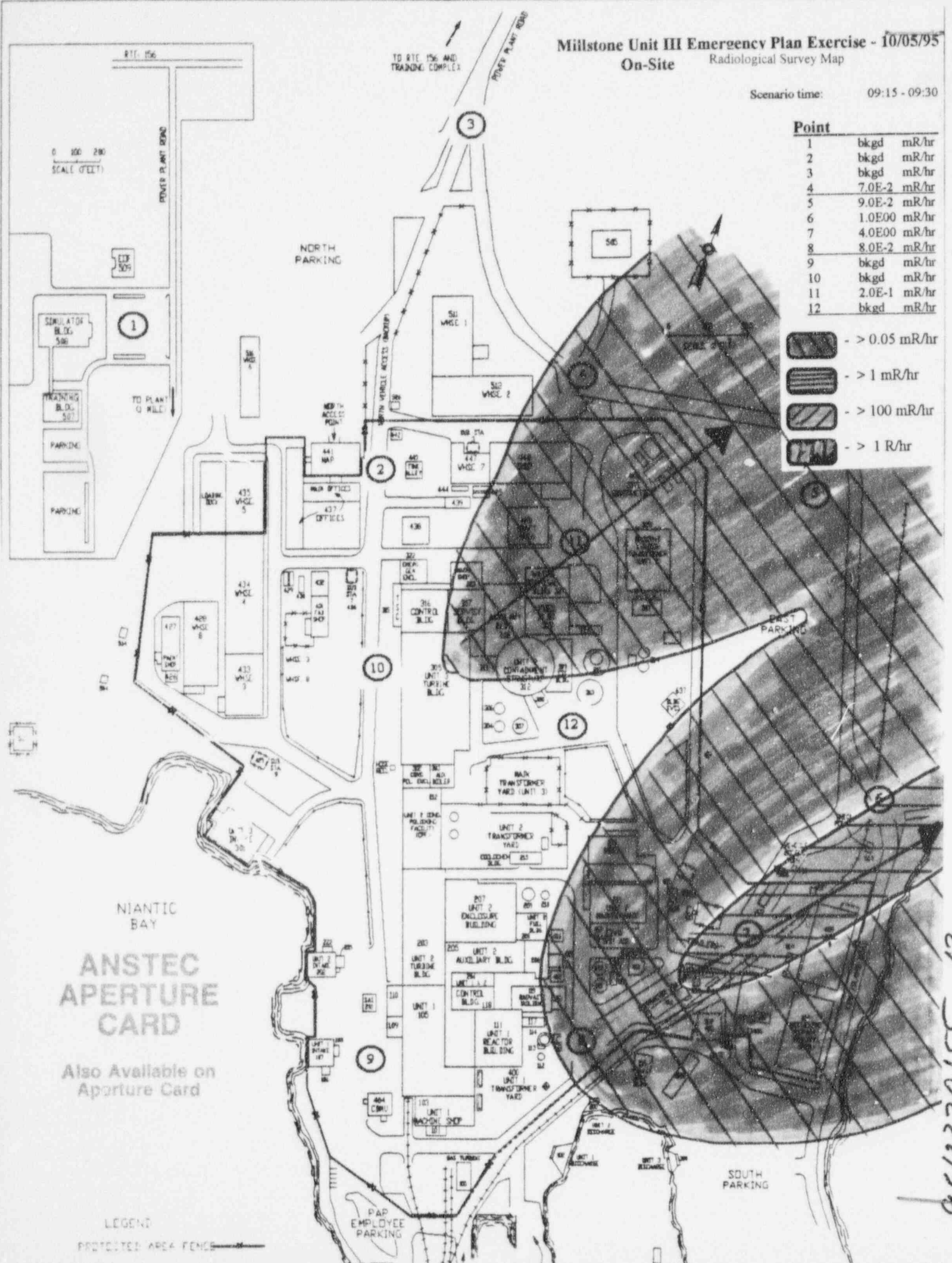
Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95
On-Site Radiological Survey Map

Scenario time: 09:15 - 09:30

Point	Reading	Unit
1	bkgd	mR/hr
2	bkgd	mR/hr
3	bkgd	mR/hr
4	7.0E-2	mR/hr
5	9.0E-2	mR/hr
6	1.0E00	mR/hr
7	4.0E00	mR/hr
8	8.0E-2	mR/hr
9	bkgd	mR/hr
10	bkgd	mR/hr
11	2.0E-1	mR/hr
12	bkgd	mR/hr

	- > 0.05 mR/hr
	- > 1 mR/hr
	- > 100 mR/hr
	- > 1 R/hr



ANSTEC APERTURE CARD

Also Available on Aperture Card

LEGEND
 PROTECTED AREA FENCE

9512270155-12

Millstone Unit III Emergency Plan Exercise - 10/05/95 Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 09:30 - 09:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	3.0E-01	1.50E-01	4.5E+02	0	0
B 0.1	6.2E+00	3.10E+00	9.3E+03	0	6.00E-13	0
C 0.1	3.8E+01	1.90E+01	5.7E+04	5	9.20E-11	400
C 0.2	9.6E-01	4.80E-01	1.4E+03	0	3.20E-12	0
G 0.1	1.6E+01	8.20E+00	2.5E+04	0	0.00E+00	0
H 0.1	6.6E+00	3.30E+00	9.9E+03	0	0	0
J 0.1	5.2E+00	2.60E+00	7.8E+03	0	0	0
K 0.1	8.0E+00	4.00E+00	1.2E+04	0	0	0
P 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
Q 0.1	1.6E-01	7.90E-02	2.4E+02	0	0	0
R 0.1	6.4E-01	3.20E-01	9.6E+02	0	0	0

Notes





LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

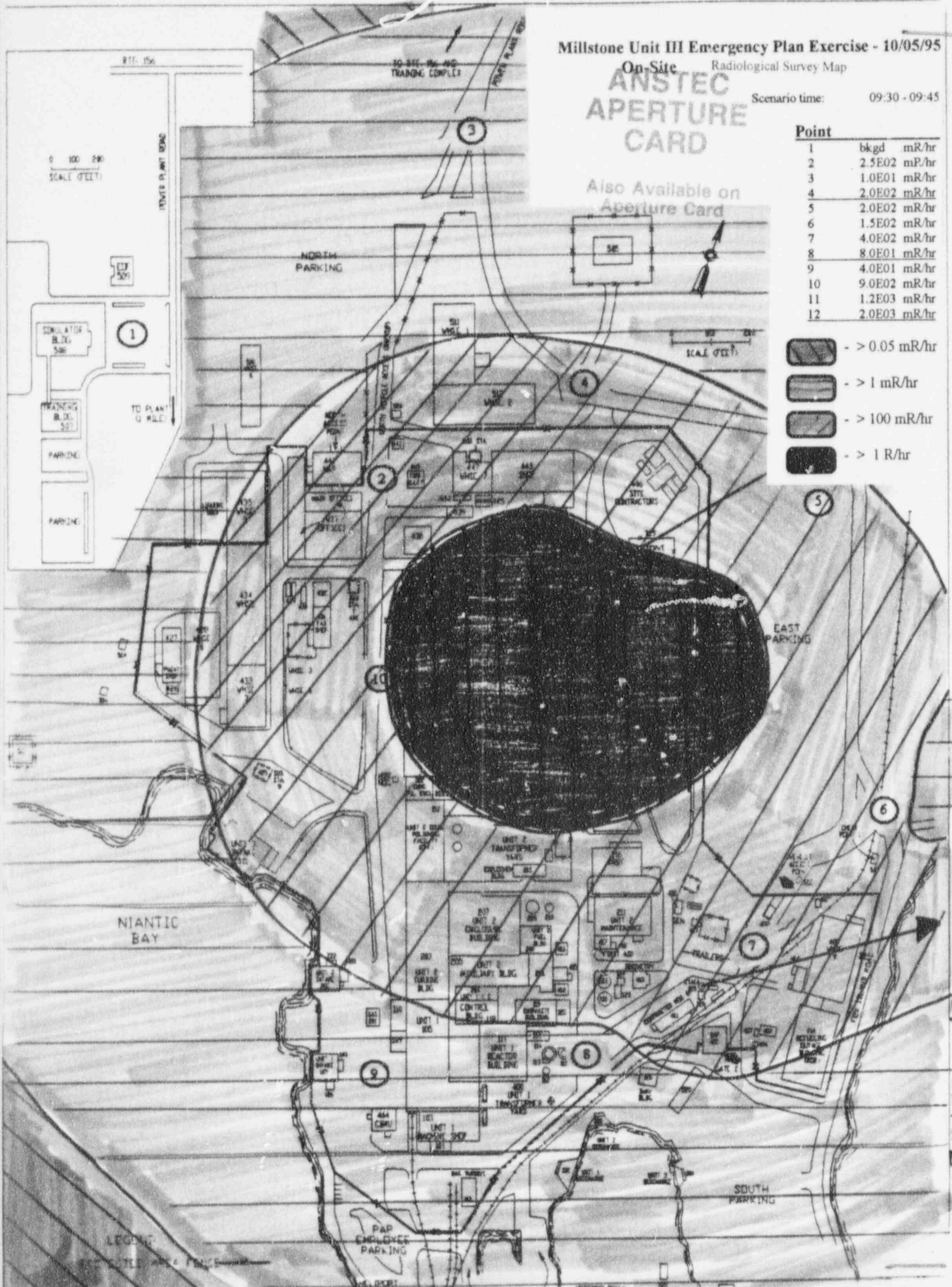
Millstone Unit III Emergency Plan Exercise - 10/05/95

On-Site Radiological Survey Map
ANSTEC APERTURE CARD

Scenario time: 09:30 - 09:45

Point	Value
1	bkgd mR/hr
2	2.5E02 mR/hr
3	1.0E01 mR/hr
4	2.0E02 mR/hr
5	2.0E02 mR/hr
6	1.5E02 mR/hr
7	4.0E02 mR/hr
8	8.0E01 mR/hr
9	4.0E01 mR/hr
10	9.0E02 mR/hr
11	1.2E03 mR/hr
12	2.0E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-13

Millstone Unit III Emergency Plan Exercise - 10/05/95 Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 09:45 - 10:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.00E+00
B 0.1	3.6E+00	1.80E+00	5.4E+03	0	9.80E-13	0
C 0.1	2.6E+01	1.30E+01	3.9E+04	5	1.10E-10	500
C 0.2	9.6E-01	4.80E-01	1.4E+03	0	4.10E-11	0
G 0.1	9.0E+00	4.50E+00	1.4E+04	0	0.00E+00	0
H 0.1	3.6E+00	1.80E+00	5.4E+03	0	0	0
J 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
K 0.1	4.4E+00	2.20E+00	6.6E+03	0	0	0
P 0.1	1.5E+00	7.70E-01	2.3E+03	0	0	0
Q 0.1	9.0E-02	4.50E-02	1.4E+02	0	0	0
R 0.1	3.8E-01	1.90E-01	5.7E+02	0	0.00E+00	0

Notes:

LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95





On-Site Radiological Survey Map

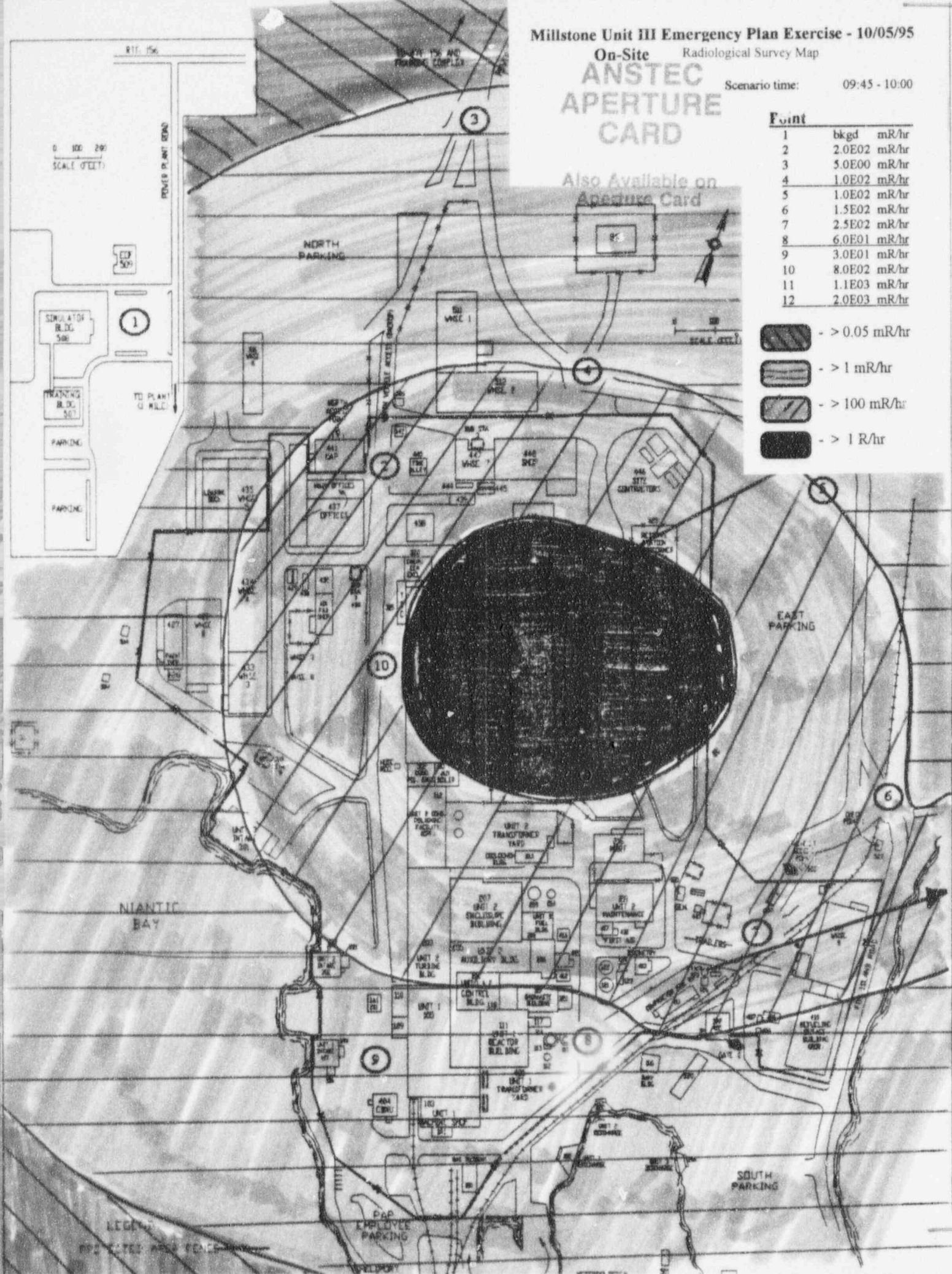
**ANSTEC
APERTURE
CARD**

Scenario time: 09:45 - 10:00

Also Available on
Aperture Card

Point	Rate
1	bkgd mR/hr
2	2.0E02 mR/hr
3	5.0E00 mR/hr
4	1.0E02 mR/hr
5	1.0E02 mR/hr
6	1.5E02 mR/hr
7	2.5E02 mR/hr
8	6.0E01 mR/hr
9	3.0E01 mR/hr
10	8.0E02 mR/hr
11	1.1E03 mR/hr
12	2.0E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-14

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 10:00 - 10:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.0E+00	0
B 0.1	4.2E+00	2.10E+00	6.3E+03	0	1.1E-11	0
C 0.1	3.4E+01	1.70E+01	5.1E+04	5	1.4E-10	500
C 0.2	3.0E+00	1.50E+00	4.5E+03	0	2.9E-11	100
G 0.1	4.0E+00	2.00E+00	6.0E+03	0	0.0E+00	0
H 0.1	1.9E+00	9.50E-01	2.9E+03	0	0.0E+00	0
J 0.1	1.7E+00	8.40E-01	2.5E+03	0	0.0E+00	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0.0E+00	0
P 0.1	1.1E+00	5.30E-01	1.6E+03	0	0.0E+00	0
Q 0.1	7.4E-02	3.70E-02	1.1E+02	0	0.0E+00	0
R 0.1	3.6E-01	1.80E-01	5.4E+02	0	0.0E+00	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95





On-Site Radiological Survey Map

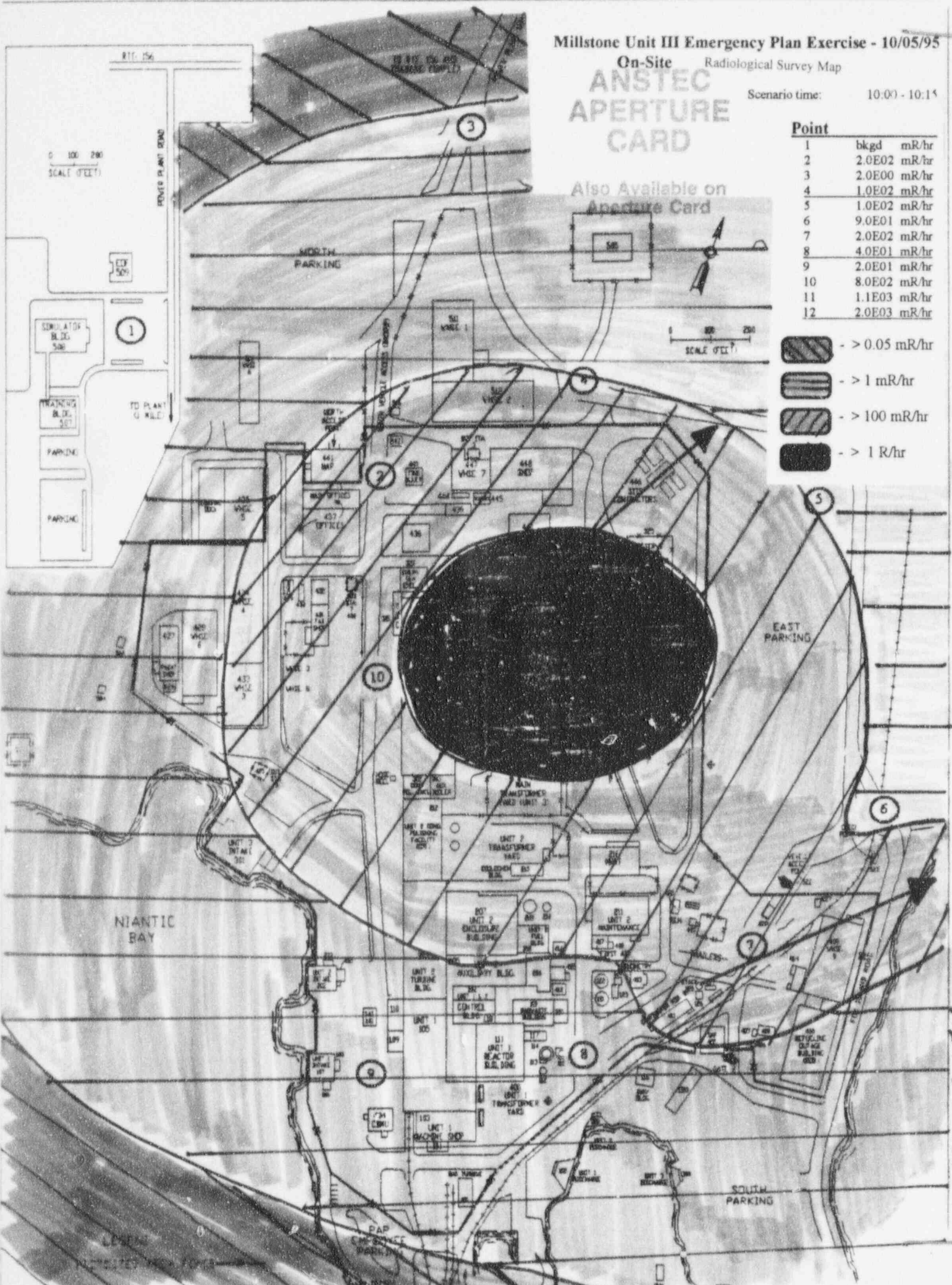
ANSTEC APERTURE CARD

Scenario time: 10:00 - 10:15

Also Available on Aperture Card

Point	Rate
1	bkgd mR/hr
2	2.0E02 mR/hr
3	2.0E00 mR/hr
4	1.0E02 mR/hr
5	1.0E02 mR/hr
6	9.0E01 mR/hr
7	2.0E02 mR/hr
8	4.0E01 mR/hr
9	2.0E01 mR/hr
10	8.0E02 mR/hr
11	1.1E03 mR/hr
12	2.0E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-15

Millstone Unit III Emergency Plan Exercise - 10/05/95
Radiological Data

ON-SITE DOSE GUIDE
 Scenario Time: 10:15 - 10:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	2.4E-01	1.20E-01	3.6E+02	0	1.30E-13	0
B 0.1	7.0E+00	3.50E+00	1.1E+04	0	3.10E-11	100
C 0.1	4.6E+01	2.30E+01	6.9E+04	5	1.10E-10	400
C 0.2	4.2E+00	2.10E+00	6.3E+03	0	3.20E-11	100
G 0.1	3.6E+00	1.80E+00	5.4E+03	0	0	0
H 0.1	1.8E+00	9.00E-01	2.7E+03	0	0	0
J 0.1	1.7E+00	8.30E-01	2.5E+03	0	0	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
P 0.1	1.2E+00	5.80E-01	1.7E+03	0	0	0
Q 0.1	9.0E-02	4.50E-02	1.4E+02	0	0.00E+00	0
R 0.1	4.2E-01	2.10E-01	6.3E+02	0	0.00E+00	0

Notes
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95





On-Site Radiological Survey Map

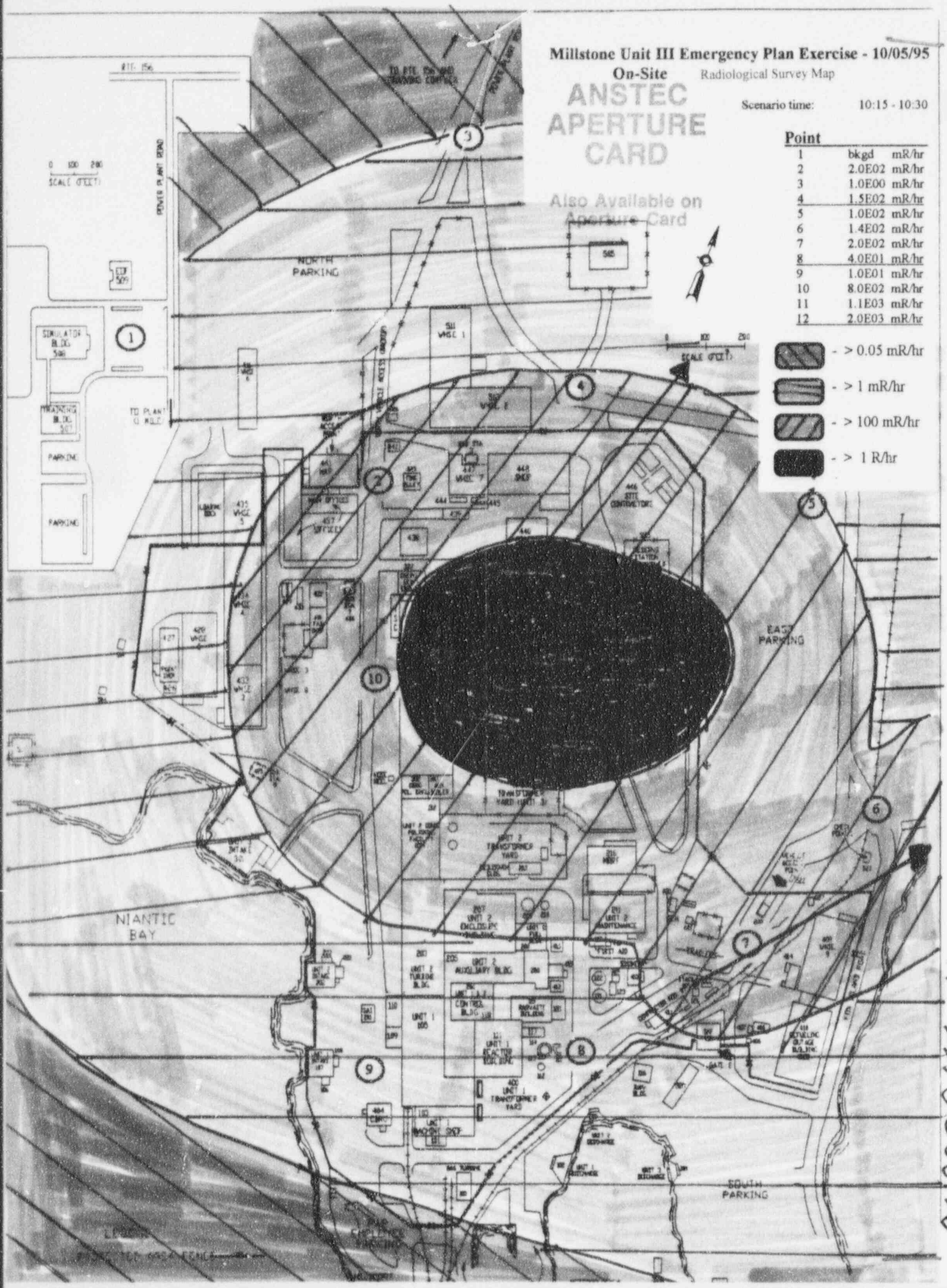
**ANSTEC
APERTURE
CARD**

Scenario time: 10:15 - 10:30

Point	Rate
1	bkgd mR/hr
2	2.0E02 mR/hr
3	1.0E00 mR/hr
4	1.5E02 mR/hr
5	1.0E02 mR/hr
6	1.4E02 mR/hr
7	2.0E02 mR/hr
8	4.0E01 mR/hr
9	1.0E01 mR/hr
10	8.0E02 mR/hr
11	1.1E03 mR/hr
12	2.0E03 mR/hr

Also Available on Aperture Card

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-16

Millstone Unit III Emergency Plan Exercise - 10/05/95 Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 10:30 - 10:45

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.8E-01	8.90E-02	2.7E+02	0	0.00E+00	0
B 0.1	4.4E+00	2.20E+00	6.6E+03	0	1.20E-11	0
C 0.1	3.4E+01	1.70E+01	5.1E+04	3	1.10E-10	300
C 0.2	2.6E+00	1.30E+00	3.9E+03	1	1.90E-11	100
G 0.1	4.0E+00	2.00E+00	6.0E+03	0	0	0
H 0.1	1.9E+00	9.30E-01	2.8E+03	0	0	0
J 0.1	1.6E+00	8.20E-01	2.5E+03	0	0	0
K 0.1	2.8E+00	1.40E+00	4.2E+03	0	0	0
P 0.1	1.1E+00	5.30E-01	1.6E+03	0	0	0
Q 0.1	7.4E-02	3.70E-02	1.1E+02	0	0	0
R 0.1	3.4E-01	1.70E-01	5.1E+02	0	0.00E+00	0

Notes

LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc





Millstone Unit III Emergency Plan Exercise - 10/05/95

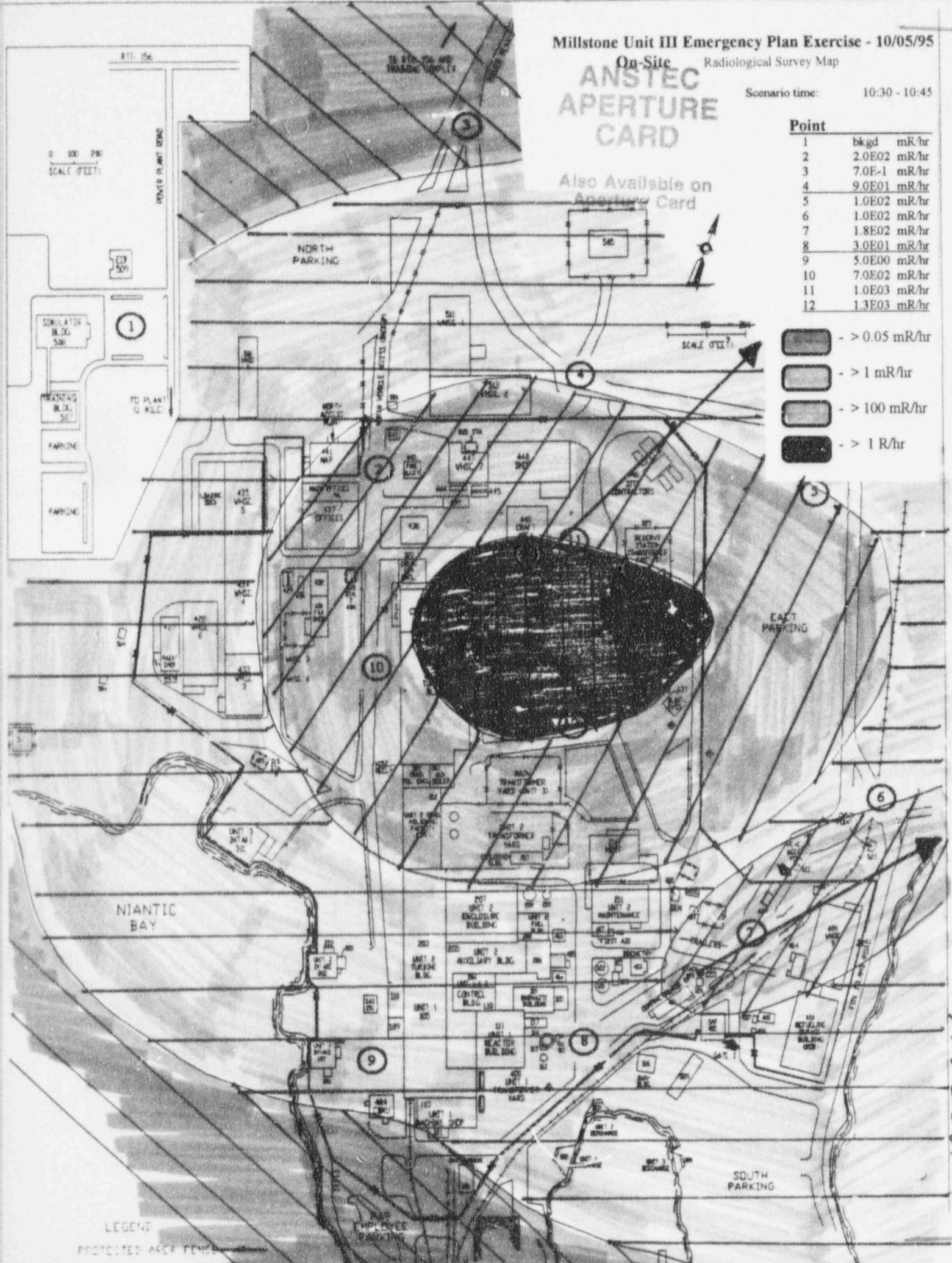
On-Site Radiological Survey Map

ANSTEC
APERTURE
CARD

Scenario time: 10:30 - 10:45

Point	Reading
1	bkgd mR/hr
2	2.0E02 mR/hr
3	7.0E-1 mR/hr
4	9.0E01 mR/hr
5	1.0E02 mR/hr
6	1.0E02 mR/hr
7	1.8E02 mR/hr
8	3.0E01 mR/hr
9	5.0E00 mR/hr
10	7.0E02 mR/hr
11	1.0E03 mR/hr
12	1.3E03 mR/hr

	- > 0.05 mR/hr
	- > 1 mR/hr
	- > 100 mR/hr
	- > 1 R/hr



9512270155-17

LEGEND
PROTECTED AREA FENCE

Millstone Unit III Emergency Plan Exercise - 10/05/95 Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 10:45 - 11:00

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.5E-01	7.40E-02	2.2E+02	0	0.00E+00	0
B 0.1	3.6E+00	1.80E+00	5.4E+03	0	6.90E-12	0
C 0.1	3.6E+01	1.80E+01	5.4E+04	0	1.20E-10	300
C 0.2	2.2E+00	1.10E+00	3.3E+03	0	1.50E-11	0
G 0.1	2.6E+00	1.30E+00	3.9E+03	0	0	0
H 0.1	1.3E+00	6.60E-01	2.0E+03	0	0	0
J 0.1	1.2E+00	6.00E-01	1.8E+03	0	0	0
K 0.1	2.0E+00	1.00E+00	3.0E+03	0	0	0
P 0.1	8.2E-01	4.10E-01	1.2E+03	0	0	0
Q 0.1	5.8E-02	2.90E-02	8.7E+01	0	0	0
R 0.1	2.8E-01	1.40E-01	4.2E+02	0	0.00E+00	0

Notes:

LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

Millstone Unit III Emergency Plan Exercise - 10/05/95





On-Site Radiological Survey Map

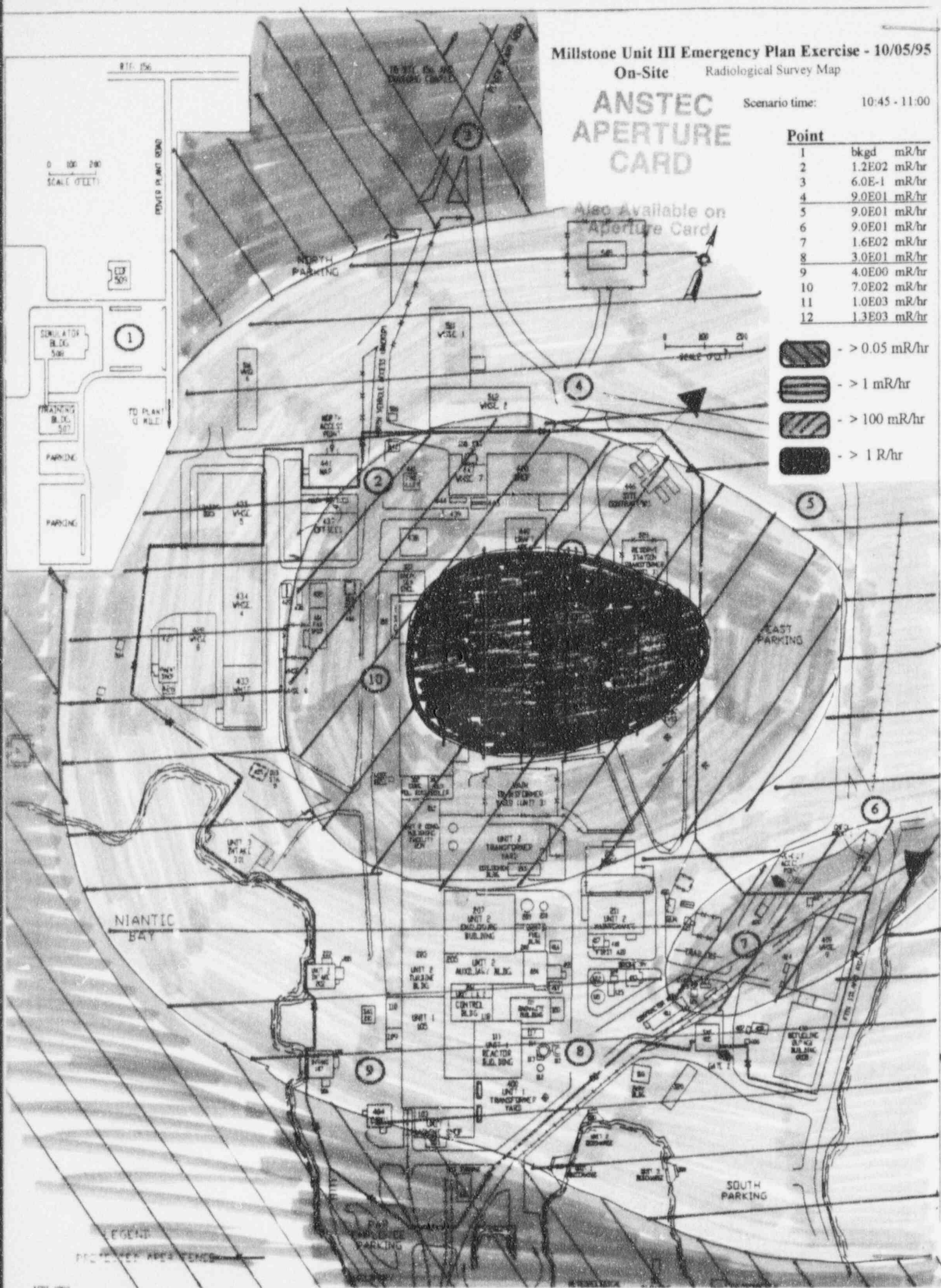
**ANSTEC
APERTURE
CARD**

Scenario time: 10:45 - 11:00

Point

1	bkgd	mR/hr
2	1.2E02	mR/hr
3	6.0E-1	mR/hr
4	9.0E01	mR/hr
5	9.0E01	mR/hr
6	9.0E01	mR/hr
7	1.6E02	mR/hr
8	3.0E01	mR/hr
9	4.0E00	mR/hr
10	7.0E02	mR/hr
11	1.0E03	mR/hr
12	1.3E03	mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-18

Millstone Unit III Emergency Plan Exercise - 10/05/95 Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 11:00 - 11:15

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open (beta + gamma) mR/hr	Window Closed (gamma only) mR/hr	Ambient Reading cpm	Sample ccpm	I-131 Conc. Ci/m**3	Particulate Filter ccpm
	A 0.1	1.6E-01	8.10E-02	2.4E+02	0	0
B 0.1	4.0E+00	2.00E+00	6.0E+03	0	2.30E-12	0
C 0.1	5.4E+01	2.70E+01	8.1E+04	10	3.60E-10	100
C 0.2	5.0E+00	2.50E+00	7.5E+03	0	4.90E-11	0
G 0.1	2.0E+00	9.80E-01	2.9E+03	0	0	0
H 0.1	1.0E+00	5.10E-01	1.5E+03	0	0	0
J 0.1	9.8E-01	4.90E-01	1.5E+03	0	0	0
K 0.1	1.7E+00	8.50E-01	2.6E+03	0	0	0
P 0.1	7.2E-01	3.60E-01	1.1E+03	0	0	0
Q 0.1	5.6E-02	2.80E-02	8.4E+01	0	0	0
R 0.1	3.0E-01	1.50E-01	4.5E+02	0	0	0

Notes

LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc





Millstone Unit III Emergency Plan Exercise - 10/05/95

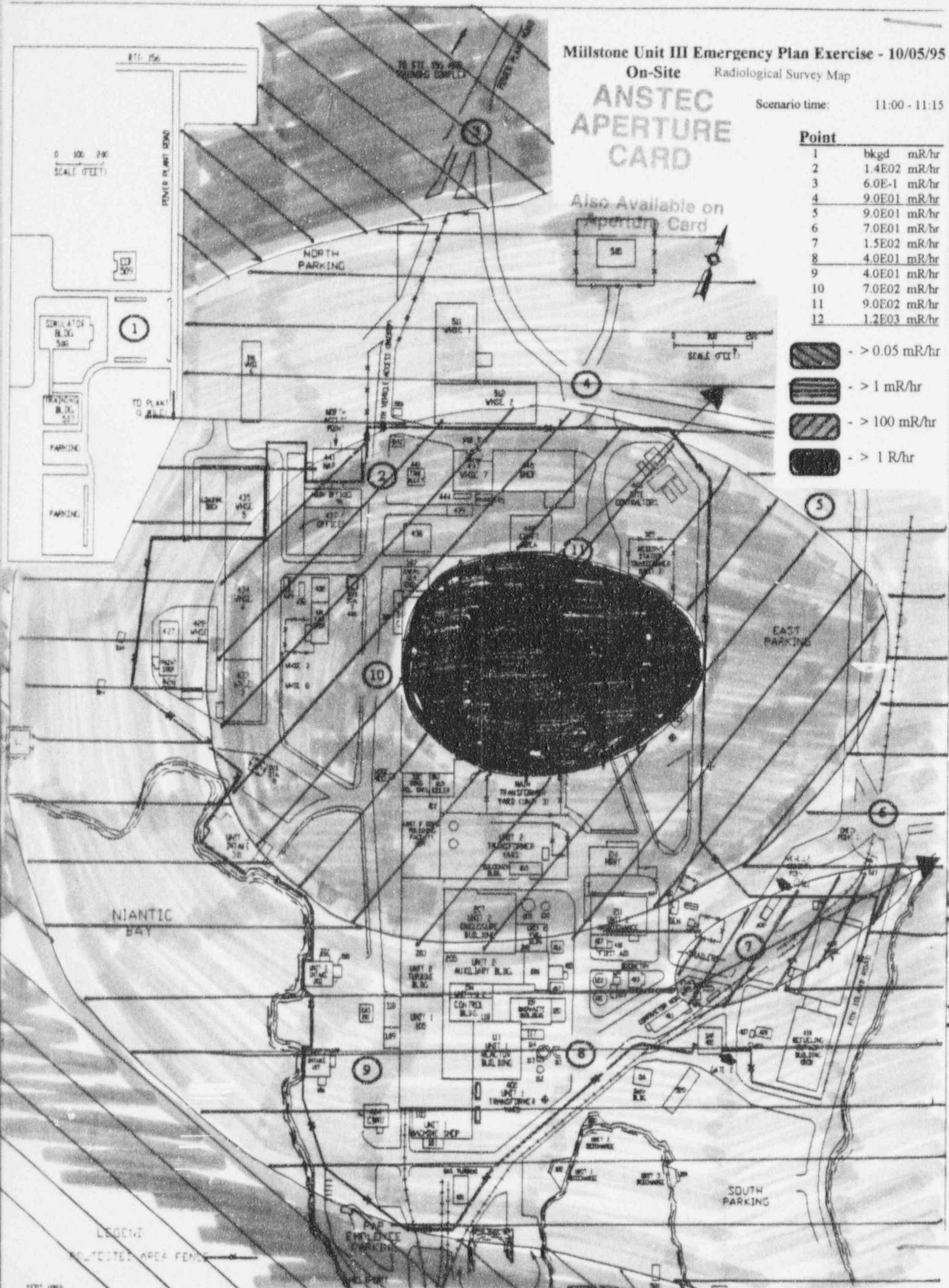
On-Site Radiological Survey Map

ANSTEC APERTURE CARD

Scenario time: 11:00 - 11:15

Point	Rate
1	bkgd mR/hr
2	1.4E02 mR/hr
3	6.0E-1 mR/hr
4	9.0E01 mR/hr
5	9.0E01 mR/hr
6	7.0E01 mR/hr
7	1.5E02 mR/hr
8	4.0E01 mR/hr
9	4.0E01 mR/hr
10	7.0E02 mR/hr
11	9.0E02 mR/hr
12	1.2E03 mR/hr

-  - > 0.05 mR/hr
-  - > 1 mR/hr
-  - > 100 mR/hr
-  - > 1 R/hr



9512270155-19

Millstone Unit III Emergency Plan Exercise - 10/05/95

Radiological Data

ON-SITE DOSE GUIDE
Scenario Time: 11:15 - 11:30

Sample Point	GROUND AND WAIST LEVEL SURVEY METER READINGS		IODINE SAMPLE READINGS			
	Window Open	Window Closed	Ambient Reading	Sample	I-131 Conc.	Particulate Filter
	(beta + gamma) mR/hr	(gamma only) mR/hr	cpm	ccpm	Ci/m**3	ccpm
A 0.1	1.6E-01	8.20E-02	2.5E+02	0	0.00E+00	0
B 0.1	5.2E+00	2.60E+00	7.8E+03	0	1.80E-11	0
C 0.1	4.8E+01	2.40E+01	7.2E+04	3	1.10E-10	300
C 0.2	4.2E+00	2.10E+00	6.3E+03	1	2.20E-11	100
G 0.1	1.5E+00	7.70E-01	2.3E+03	0	0	0
H 0.1	8.4E-01	4.20E-01	1.3E+03	0	0	0
J 0.1	8.4E-01	4.20E-01	1.3E+03	0	0	0
K 0.1	1.5E+00	7.50E-01	2.3E+03	0	0	0
P 0.1	6.6E-01	3.30E-01	9.9E+02	0	0	0
Q 0.1	5.6E-02	2.80E-02	8.4E+01	0	0	0
R 0.1	3.0E-01	1.50E-01	4.5E+02	0	0.00E+00	0

Notes:
 LLD for an RO-2A is 2.0 mR/hr (<2.0 mR/hr= As Read)
 LLD for an RO-2 is 0.2 mR/hr (<0.2 mR/hr= As Read)
 LLD for an ASP-1 is 0.04 mR/hr (<0.04 mR/hr= As Read)
 Ci/m**3 is same as uCi/cc

