

ORIGINAL

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the matter of:

LONG ISLAND LIGHTING COMPANY

Docket No. 50-322-OL-3

(Shoreham Nuclear Power Station
Unit 1)

VOLUME III

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ORIGINAL

LILCO, April 2, 1984

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)
LONG ISLAND LIGHTING COMPANY) Docket No. 50-322-OL-3
(Shoreham Nuclear Power Station,) (Emergency Planning Proceeding)
Unit 1))

TESTIMONY OF HARRY N. BABB, GARY J. BERGER,
MATTHEW C. CORDARO, CHARLES A. DAVERIO,
DENNIS S. MILETI, WILLIAM F. RENZ, AND
RONALD A. VARLEY ON BEHALF OF LONG ISLAND
LIGHTING COMPANY ON PHASE II EMERGENCY PLANNING
CONTENTIONS 39.A, B, 40, 41, 44.D, E, and F,
98, 99.C and G, 100.B, D, and G

Attachments 5 and 6 to Testimony
Volume 3 of 5

Hurton & Williams
707 East Main Street
Post Office Box 1535
Richmond, Virginia 23212
(804) 788-8200

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ATTACHMENTS

- ATTACHMENT 1 Local EOC/ENC Activation Drill
- ATTACHMENT 2 LILCO Local Emergency Response Organization
Traffic Guidance Drill, Rev. 0
- ATTACHMENT 3 LILCO Local Emergency Response Organization
Transportation Coordination Drill, Rev. 0
- ATTACHMENT 4 LILCO Local Emergency Response Organization
Personnel Monitoring and Decontamination
Facilities Drill, Rev. 0
- ATTACHMENT 5 LILCO Local Emergency Response Organization
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- ATTACHMENT 7 Lesson Plan: Coast Guard Emergency
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- ATTACHMENT 8 Lesson Plan: Ambulance Personnel - Emergency
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- ATTACHMENT 9 Lesson Plan: Helicopter Personnel - Radiation
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- ATTACHMENT 10 Letter dated January 20, 1984 from Charles
A. Daverio, LILCO, to Captain E. W. Weigand,
U.S. Coast Guard
- ATTACHMENT 11 Lesson Plan I, Emergency Preparedness Overview
- General Knowledge (Module 1 - script)
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- ATTACHMENT 13 LERO Organization, Script No. 1, Radiation
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*Supplied to the Atomic Safety and Licensing Board, the State of New York, the Federal Emergency Management Agency, and the Nuclear Regulatory Commission under separate cover.

Suffolk County is already in possession of these videotapes.

ATTACHMENT 5

[REDACTED]



[REDACTED]

LONG ISLAND LIGHTING COMPANY
LOCAL EMERGENCY RESPONSE ORGANIZATION
EOC/ENC/ALL STAGING AREAS/EWDF DRILL
REV. 0

Prepared by:

Impell Corporation
January, 1984

LERO EXERCISE/DRILL SCENARIO

- Part 1 Objectives and Guidelines
- Part 2 Participants
- Part 3 Exercise Scenario - Narrative Summary
- Event Schedule
- Part 4 Messages
- Part 5 Initiating Conditions
- Part 6 Radiological Information
- Part 7 Observer/Controller Instructions
- Part 8 Glossary

Submitted by: _____

Emergency Planning Coordinator

_____ Date

APPROVALS:

CAUTION

**APPROVALS MUST BE SIGNED AT LEAST 24 HOURS
BEFORE ANY EXERCISE OR DRILL MAY BE PERFORMED.**

Manager of LERIO

_____ Date

1.0 OBJECTIVES AND GUIDELINES

The Emergency Operations Center, the Emergency News Center, the Emergency Worker Decontamination Facility, and the Staging Areas with their respective LERO staff will be involved in the conduct of this drill.

It is the objective of this drill to demonstrate, after activation of the EOC, that the Director and the Manager of Local Response and the responsible coordinators can function in the establishment of integrated services and communications by their respective staffs.

This will include demonstration of deployment of LERO staffs to the field and the ability of such personnel to provide services at their respective duty stations within the EPZ or elsewhere.

2.0 DATE/TIME/LOCATIONS/PARTICIPANTS

Date:

January 28, 1984

Time:

8:00 AM to 4:00 PM

Locations:

Local EOC, Brentwood
EWDF, Brentwood
ENC, Old Mill Inn, Ronkonkoma
Staging Areas:

- o Port Jefferson Power Station
- o Riverhead Gas & Electric Division Headquarters
- o Patchogue Gas & Electric Sub-Headquarters

Participants:

The LERO members assigned to the Local EOC, the ENC, the EWDF and those assigned to the Staging Areas will participate in this drill. LERO members will report to their respective pre-assigned duty stations prior to the start of this drill scenario.

The Public Information Communicator and the Public Information Support staff assigned to the ENC will report to the ENC at the Old Mill Inn, Ronkonkoma.

All personnel assigned to the following jobs will attend.

<u>Job No.</u>	<u>Job Title</u>	<u>LERO Reporting Location</u>
01	Director - LERO	EOC - Brentwood
02	Manager - LERO	EOC - Brentwood
03A	Lead Communicator	EOC - Brentwood
03B	RECS Communicator	EOC - Brentwood
03C	Emergency Medical Communicator	EOC - Brentwood
03D	Radiation Health Communicator	EOC - Brentwood
03E	Traffic Control Communicator	EOC - Brentwood
03F	Transportation Communicator	EOC - Brentwood
04	Support Services Coordinator	EOC - Brentwood
05	Health Services Coordinator	EOC - Brentwood
07A	Dosimetry Coordinator	EOC - Brentwood
07B	Dosimetry Record Keeper	EOC - Brentwood
08	Security Coordinator	EOC - Brentwood
09A	Emergency Medical Coordinator	EOC - Brentwood
09B	Hospital Coordinator	EOC - Brentwood
09C	Public Service Liaison	EOC - Brentwood
09D	Ambulance Coordinator	EOC - Brentwood
10A	Traffic Control Coordinator	EOC - Brentwood
10B	Traffic Control Point Coordinator	EOC - Brentwood
10C	Road Logistics Coordinator	EOC - Brentwood
10D	Evacuation Route Coordinator	EOC - Brentwood
11A	Transportation Support Coordinator	EOC - Brentwood
11B	Bus Coordinator	EOC - Brentwood
12	Evacuation Coordinator	EOC - Brentwood
13	Administrative Support	EOC - Brentwood
14	Maintenance	EOC - Brentwood
15	Logistics Support Coordinator	EOC - Brentwood
18A	Security - EOC	EOC - Brentwood
28A	Special Facilities Coordinator	EOC - Brentwood
28B	Public Schools Coordinator	EOC - Brentwood
28C	Private Schools Coordinator	EOC - Brentwood
28D	Health Facilities Coordinator	EOC - Brentwood
28E	Home Coordinator	EOC - Brentwood
31A	Coordinator of Public Information	EOC - Brentwood
31B	Public Information Support Staff	EOC - Brentwood
31C	Public Information Communicator	EOC - Brentwood
--	Radiation Health Coordinator	EOC - Brentwood
30	Industrial Relations Coordinator	EOC - Brentwood
070	Dosimetry Record Keeper	All Staging Areas
11C	Bus Dispatcher	All Staging Areas
11D	Transfer Point Coordinator	All Staging Areas
13B	Administrative Support	All Staging Areas
22A	Lead Traffic Guide	All Staging Areas
22B	Traffic Guide	All Staging Areas
23	Bus Driver	All Staging Areas
24	Evacuation Route Spotter	All Staging Areas
27	Staging Area Coordinator	All Staging Areas

This drill will begin promptly at 8:00 AM and will end at approximately 4:00 PM. During this drill, a meal will be served. Participants will be expected to work their mealtime into the situation to support continuous operation of the emergency facilities.

3.0 EXERCISE SCENARIO

Narrative Summary

This drill will demonstrate integrated activities of the LERO Local Emergency Operations Center (EOC), the LERO Emergency Worker Decontamination Facility (EWDF), the LERO Emergency News Center (ENC) staff, the LERO Staging Area personnel and LERO field activities in the Emergency Planning Zone (EPZ).

In order to induce simulated evacuation activities for certain areas of the EPZ, the scenario evolved here deliberately sets up a virtually impossible string of plant conditions at the Shoreham Nuclear Power Station (SNPS) causing the declaration of an UNUSUAL EVENT and proceeding through ALERT, SITE AREA EMERGENCY to a GENERAL EMERGENCY.

At approximately five hours before the actual start of the drill, the plant is found steaming at 100% power. All plant parameters are normal and stable. A drywell purge is in progress.

The winds are from the ENE (67°) at 10 mph. The temperature is 35°F.

Inadvertent activation of the High Pressure Core Injection (HPCI) - operator error - causes a high level trip of the turbine and the HPCI. Intermittent SRV activation to relieve RPV overpressurization occurs.

Based on plant conditions, a Notification of Unusual Event (NUE) has been declared.

One safety relief valve (SRV) malfunctions in the open position causing a stuck-open relief valve (SORV).

Failure of HPCI auto/manual restart.

The Reactor Core Isolation Cooling (RCIC) System is able to maintain a safe reactor vessel inventory/water level.

A fire is detected in the Reactor Building at Elevation 8' and has been burning for approximately 10 minutes; endangering Emergency Core Cooling Systems (ECCS).

Based on plant conditions an Alert has been declared.

The fire continues to damage the ECCS with loss of Core Spray (CS) System and the Residual Heat Removal (RHR) System.

RCIC is unable to maintain loss of reactor inventory; level is slowly dropping within reactor vessel.

RPV pressure is rapidly decreasing.

Conditions warrant that a Site Area Emergency be declared at this time.

Fire is extinguished.

Repair is implemented by mechanics of the power circuits to the Low Pressure Core Injection (LPCI) System.

LPCI and Core Spray Pumps are started and begin restoration of RPV coolant inventory.

RPV water level is responding to LPCI/CS flow.

Guillotine break in the SRV blowdown.

RPV water level reaches the 10-10-10 level setpoint.

RPV water level is approaching Top of Active Fuel (TAF) and decreasing.

Containment isolation initiated.

RPV water level is significantly below TAF. Fuel assemblies are exposed and damaged, causing severe radiological releases through the Safety Relief Valve (SRV) line break, Containment isolation is maintained.

Conditions warrant that a General Emergency be declared at this time.

Wind shift NNW 337° at 10 mph. The temperature is 37°.

Repair of ECCS systems completed.

Failure of purge valves to isolate. Radiological release to Reactor Building (RB) and out via the Reactor Building Standby Ventilation System (RBSYS).

Release path is isolated, purge valves respond to signal.

Radioactive releases from the plant have been terminated.

Conditions warrant that the emergency action level of General Emergency be downgraded and reduced to Alert status at this time.

The radioactive plume has completely dispersed. In-plant decontamination activities are underway.

The drill is terminated.

Event Schedule

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = (05:00)	1	<p>The unit is operating at 100% power. All plant parameters are normal and stable. A drywell purge is in progress.</p> <p>The winds are from the ENE (67°) at 10 mph. The temperature is 35°F.</p>
T = (07:00)	2	<p>Inadvertent activation of the High Pressure Core Injection (HPCI) - operator error - causes a high level trip of the turbine and the HPCI. Intermittent SRV activation to relieve RPV overpressurization occurs.</p>
T = (07:25)		<p>Based on plant conditions, a Notification of Unusual Event (NUE) has been declared.</p>
T = (07:25)	3	<p>One safety relief valve (SRV) malfunctions in the open position causing a stuck-open relief valve (SORV).</p>
T = (07:28)	4	<p>Failure of HPCI auto/manual restart.</p>
T = (07:30)	5	<p>The Reactor Core Isolation Cooling (RCIC) System is able to maintain a safe reactor vessel inventory/water level.</p>
T = (08:00)	6	<p>A fire is detected in the Reactor Building at Elevation 8' and has been burning for approximately 10 minutes; endangering Emergency Core Cooling Systems (ECCS).</p>
T = (08:10)	7	<p>Based on plant conditions an <u>Alert</u> has been declared.</p>
T = (08:40)		<p>The fire continues to damage the ECCS with loss of Core Spray (CS) System and the Residual Heat Removal (RHR) System.</p>
T = (08:55)		<p>RCIC is unable to maintain loss of reactor inventory; level is slowly dropping within reactor vessel.</p> <p>RPV pressure is rapidly decreasing.</p>

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = (09:00)		Conditions warrant that a <u>Site Area Emergency</u> be declared at this time.
T = (09:20)		Fire is extinguished.
T = (09:25)		Repair is implemented by mechanics of the power circuits to the Low Pressure Core Injection (LPCI) System.
T = (09:45)		LPCI and Core Spray Pumps are started and begin restoration of RPV coolant inventory. RPV water level is responding to LPCI/CS flow.
T = (10:15)		Guillotine break in the SRV blowdown. RPV water level reaches the 10-10-10 level setpoint. RPV water level is approaching Top of Active Fuel (TAF) and decreasing.
T = (10:30)		Containment isolation initiated. Repair of ECCS Systems completed. Plant status unchanged.
T = (10:45)		RPV water level is significantly below TAF. Fuel assemblies are exposed and damaged, causing severe radiological releases through the Safety Relief Valve (SRV) line break, Containment isolation is maintained.
T = (11:00)		Conditions warrant that a <u>General Emergency</u> be declared at this time.
T = (12:00)		Wind shift WNW 337° at 10 mph. The temperature is 37°F.
T = (12:30)		Repair of ECCS systems completed.

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = (01:00)		Failure of purge valves to isolate. Radiological release to Reactor Building (RB) and out via the Reactor Building Standby Ventilation System (RBSVS).
T = (02:00)		Release path is isolated, purge valves respond to signal.
		Radioactive releases from the plant have been terminated.
T = (02:35)		Conditions warrant that the emergency action level of <u>General Emergency</u> be downgraded and reduced to <u>Alert</u> status at this time.
T = (03:00)		The radioactive plume has completely dispersed. In-plant decontamination activities are underway.
T = (04:00)		The drill is terminated.

CONTROLLER/OBSERVER LOCATIONS

1. Lead Drill Controller K. Krasner/C. Daverio (LILCO)
Local EOC (Management/Roving)
2. Lead Drill Controller S. Bergen/E. Robinson (LILCO)
ENC ((Management/Roving)
3. Lead Drill Controller D. Beres/J. Bisson
EWDF (Management/Roving)
4. Lead Drill Controller R. Varley
Port Jefferson Staging Area
5. Lead Drill Controller B. Kobel
Patchogue Staging Area
6. Lead Drill Controller C. Heitz
Riverhead Staging Area
7. Drill Controller #1 R. Markovich
Local EOC, Transportation
8. Drill Controller #2 P. Smalley
Local EOC, Dose Assessment
9. Drill Controller #3 R. Rossin (SWEC)
Local EOC, Communications
10. Drill Controller #4 B. Aidikoff/E. Robinson (LILCO)
Local EOC (Public Information)
11. Drill Controller #5 A. Holbert
Local EOC, Traffic Group
12. Drill Controller #6 N. Molter
Port Jefferson Staging Area

CONTROLLER/OBSERVER LOCATIONS (continued)

13. Drill Controller #7 S. Moss
 Port Jefferson Staging Area

14. Drill Controller #8 C. Garcia
 Patchogue Staging Area

15. Drill Controller #9 J. Soria
 Patchogue Staging Area

16. Drill Controller #10 T. Cotter
 Riverhead Staging Area

17. Drill Controller #11 J. Cullmer (LILCO)
 Riverhead Staging Area

18. Drill Controller #12 G. Rahner
 Port Jefferson Transfer Points (2)

19. Drill Controller #13 M. Ennis
 Patchogue Transfer Points (4)

20. Drill Controller #14 K. Mattera (SWEC)
 Riverhead Transfer Points (5)

EOC/ENC/EWDF/ALL STAGING AREAS - DRILL

CONTROLLERS KEY EVENTS TIME LINE

<u>Real Time</u>	<u>Scenario Time</u>	<u>Description of Events</u>
07:55		Assembly at emergency facility. Introduction announcement by Lead Controller at each emergency facility.
08:00		<u>Alert</u> announcement.
08:00 - 08:15		All players sign in.
08:15 - 08:30		Controllers/Observers and players finish continental breakfast.
08:30 - 08:45		Set up of emergency facility and first briefing by players.
09:00		<u>Site Area Emergency</u> announcement.
09:00 - 09:05		Status announcement by players at each emergency facility.
09:15 - 10:15		Training of players by Controllers.
10:30		Status announcement by players at each emergency facility.
10:30		Dosimetry by player.
11:00		<u>General Emergency</u> announcement by message from SNPS/EOF to Director of LERO.
11:15		Recommendation to evacuate.
11:20		Message sent to SA.
11:30		Full evacuation of all zones (Controller override of technical scenario).

EOC/ENC/EWDF/ALL STAGING AREAS - DRILL

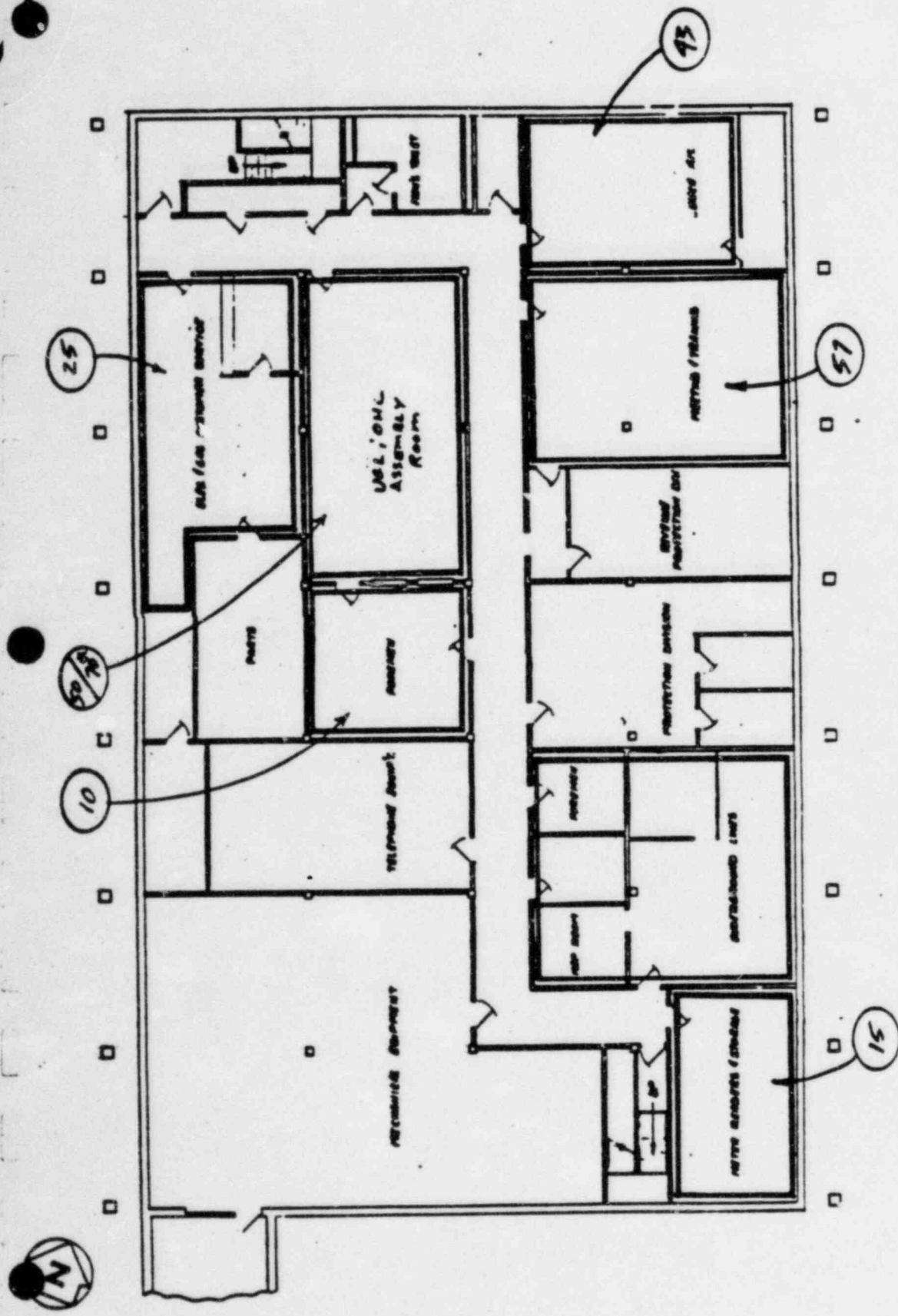
CONTROLLERS KEY EVENTS TIME LINE
(continued)

<u>Real Time</u>	<u>Scenario Time</u>	<u>Description of Events</u>
12:00		Wind shift message.
01:00		Technical scenario actual release.
02:00		Termination of technical scenario release.
03:00		Downgrade of accident.
03:30		End of scenario. Critique of drill by Controllers followed by question and answer by players.
04:00		Termination of drill.

RIVERHEAD STAGING AREA
PERSONNEL DISTRIBUTION

<u>ROOM</u>	<u>GROUP</u>	<u>NO.</u>
Electric & Gas Customer Service	Dosimetry Record Keeper	3
	Route Alert Drivers	21
UGL & OHL Assembly Area	Bus Drivers	65
Meeting & Training Room	Bus Drivers	48
	Transfer Point Coordinators	5
Lunch Room	Traffic Guides	43
Underground Lines Office	Lead Traffic Guides	2
	Bus Dispatcher	1
	Staging Area Coordinator	1
	Administrative Support	5
Meter Readers & Storage	Road Crew	11
	Evacuation Route Spotters	<u>2</u>
		207

*Foreman's room will be used to support miscellaneous LERO response functions.

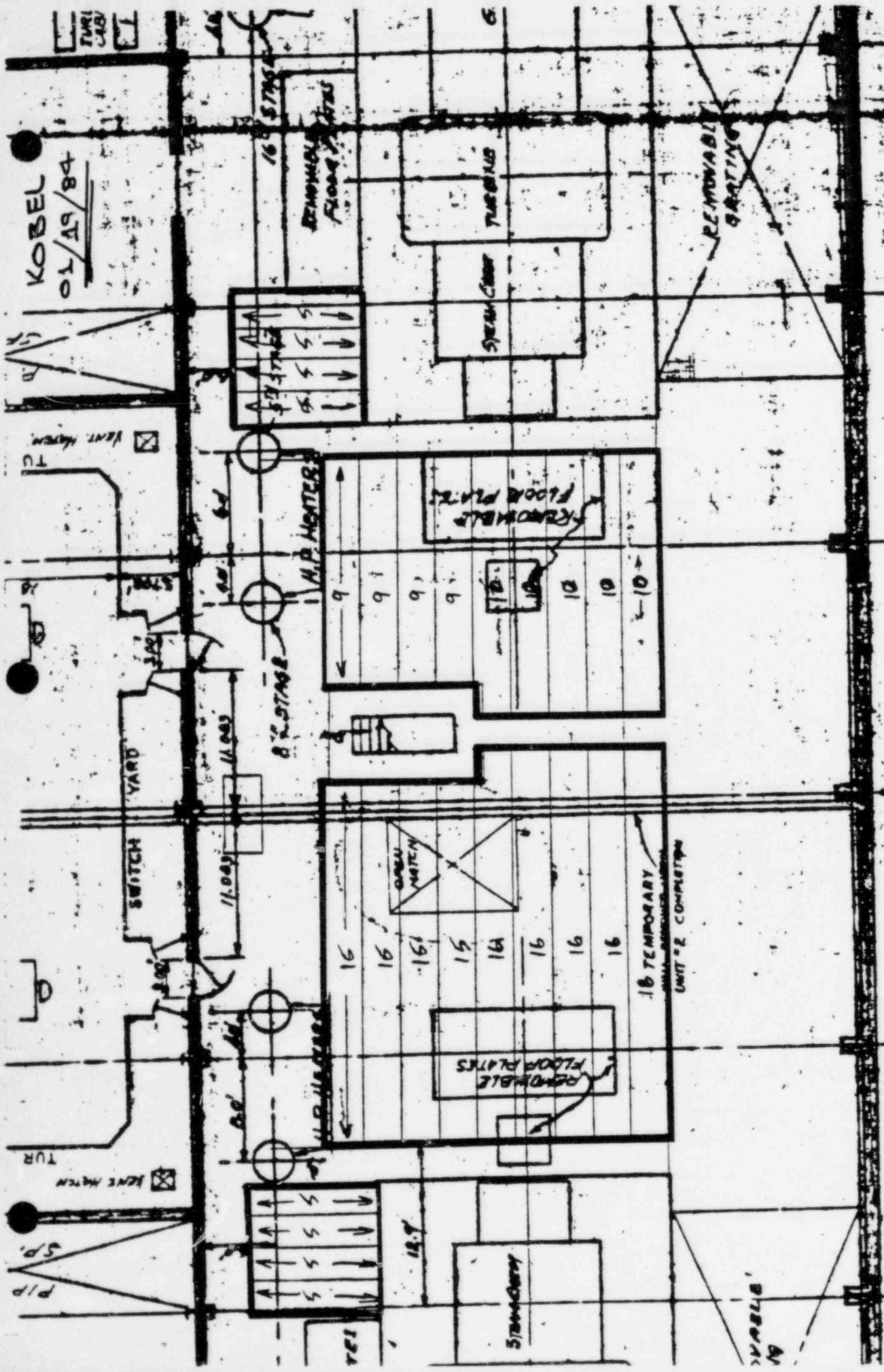


RIVERHEAD
BASEMENT FLOOR PLAN

ENGINEERING DESIGN ESTIMATED MAXIMUM CAPACITY
* WITH DOOR MODIFICATION

Five hours

KOBEL
01/19/84



VENT MAIN

VENT MAIN

P.P.
S.P.

UNIT #2 UNIT #1
"D"

PORT JEFFERSON

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)
(10)
(11)

REMOVABLE

STORAGE

REMOVABLE
FLOOR PLATE

18.7

H.P. HEATERS

H.P. HEATERS

H.P. HEATERS

8 1/2 STAGE

H.P. HEATERS

REMOVABLE
FLOOR PLATE

SPEC. CORR.
TURBINE

REMOVABLE
FLOOR PLATE

16 STAGE

16 STAGE

REMOVABLE
PARTING

16 TEMPORARY
UNIT #2 COMPLETION

SWITCH YARD

11.003

11.003

6.0

6.0

9.1

9.2

9.3

9.4

9.5

10

10

10

10

10

10

16

16

16

16

16

16

16

16

16

16

DRAIN WATER

Section 4.0 Messages

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 05:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The unit is operating at 100% power. All plant parameters are normal and stable. A drywell purge is in progress.

The winds are from the ENE (67°) at 10 mph. The temperature is 35°F.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 07:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Inadvertent activation of the High Pressure Core Injection (HPCI) - operator error - causes a high level trip of the turbine and the HPCI. Intermittent SRV activation to relieve RPV overpressurization occurs.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 07:25

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Based on plant conditions, a Notification of Unusual Event (NUE) has been declared.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 07:25

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

One safety relief valve (SRV) malfunctions in the open position causing a stuck-open relief valve (SORV).

Failure of HPCI auto/manual restart.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. 5

TO:

LOCATION:

DATE/TIME: 1/28/84 - 07:30

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Reactor Core Isolation Cooling (RCIC) System is able to maintain a safe reactor vessel inventory/water level.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. 6

TO:

LOCATION:

DATE/TIME: 1/28/84 - 08:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

A fire is detected in the Reactor Building at Elevation 8' and has been burning for approximately 10 minutes; endangering Emergency Core Cooling System (ECCS).

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Bus Disptacher
LOCATION: All Staging Areas
DATE/TIME: 1/28/84 - 08:00
MESSAGE: To be given at beginning of drill

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Partial listing of home phone numbers for bus drivers.

<u>Bus Drivers</u>	<u>Phone Numbers</u>
Bruce Jones	733-5096
Tom Shock	733-5094
John Emit	733-4119
Carl Schmidt	733-4302
John Carlson	733-5087
Fred Smith	733-5095
Ed Howe	733-5097
Peter Froth	733-5096
Amis Davis	733-5094

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Ambulance Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 08:05 hrs.

MESSAGE:

THIS IS A DRILL.

DO NOT initiate actions affecting normal plant operations.

The following is a partial listing of ambulance companies:

<u>Company</u>	<u>Address</u>	<u>Phone Nos.</u>
Ready Coach Ambulance Co.	Deer Park, NY	733-5096
Ambulet Ambulance Co.	Islip, NY	733-4302
Brookhaven Ambulance Co.	Brookhaven, NY	733-5087
Metro Ambulance Co.	Patchogue, NY	733-5094

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. 7

TO:

LOCATION:

DATE/TIME: 1/28/84 - 08:10

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Based on plant conditions, an Alert has been declared.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Public Schools Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 08:15

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Miller Place High School basketball coach called and reported that both the boys and girls basketball teams are at practice today. The Custodian informed them that the tone alert radio sounded. He has approximately 50 studnets that need transportation.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Public Schools Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 08:25

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Mercy High School volleyball coach called and reported that girls volleyball teams are at practices. She has approximately 25 students that need transportation.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Public Schools Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 08:35

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Longwood High School cheerleading coach called and reports that the cheerleading squad are at practices. She has approximately 15 girls that need transportation.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 08:40

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The fire continues to damage the ECCS with loss of Core Spray (CS) System and the Residual Heat Removal (RHR) System.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 08:55

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RCIC is unable to maintain loss of reactor inventory; level is slowly dropping within reactor vessel.

RPV pressure is rapidly decreasing.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 09:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that a Site Area Emergency be declared at this time.

THIS IS A DRILL

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message Transmittal:
Date 1/28/84 Time 0910 hrs
(24-hour clock)

2. Facility providing information:
A Indian Point Unit No. 2
B Indian Point Unit No. 3
C Ginna Station
D Nine Mile Point Unit No. 1
E FitzPatrick Plant
 F Shoreham Station
G Other _____

3. Reported by:
A Name _____
B Title _____

4. This ... A is ... an exercise.
B is NOT

5. Emergency Classification
A Unusual Event
B Alert
 C Site Area Emergency
D General Emergency

6. This classification occurred at
Date 1/28/84 Time 0900 hrs
(24-hour clock)

7. Brief Event Description/
Initiating Condition:

The fire continues to damage the ECCS with loss of Core Spray (CS) System and the Residual Heat Removal (RHR) System.

RCIC is unable to maintain loss of reactor inventory; level is slowly dropping within reactor vessel.

RPV pressure is rapidly decreasing.

8. There has:
 A NOT been a release of radioactivity.
B been a release of radioactivity to the ATMOSPHERE.
C been a release of radioactivity to a BODY OF WATER
D been a GROUND SPILL release of radioactivity.

9. The release is:
A continuing
B terminated
 C NOT applicable.

10. Protective Actions:
A There is NO need for Protective Actions outside the site boundary.
 B Protective Actions are under consideration.
C Recommended Protective Actions:
Shelter within _____
miles/or _____
sectors/or ERPA's.
Evacuate within _____
miles/or _____
sectors/or ERPA's.

11. Weather:
A Wind speed 10 miles per hour or --- meters per second.
B Direction (from) ENE
67 degrees.
C Stability class (A-G) C
D General Weather Condition (if available)
Clear

Message received by _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

13. Inplant Emergency Response Actions Underway: _____

14. Utility Offsite Emergency Response Action Underway: _____

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Noble Gas Release Rate	_____ Ci/sec	_____ Ci/sec
Radioiodine Release Rate	_____ Ci/sec	_____ Ci/sec
Elevated or Ground Release	_____	_____

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	_____ mR/hr	_____ mR/hr
Whole Body Commitment (for duration)	_____ Rem	_____ Rem
Thyroid Dose Commitment (1 hr. exposure)	_____ mRem	_____ mRem
Thyroid Dose (for duration)	_____ Rem	_____ Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	_____	_____	_____
Whole Body Dose (Rem)	_____	_____	_____
Thyroid Dose Commitment (1 hr. Exposure - mRem)	_____	_____	_____
Thyroid Dose (Total Commitment - Rem)	_____	_____	_____

17 Protective Action Recommendations and the basis for that recommendation: _____

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 09:20

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Fire is extinguished.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 09:05

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Repair is implemented by mechanics of the power circuits to the Low Pressure Core Injection (LPCI) System.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Coordinator of Public Information
FROM: Marketing Evacuations
LOCATION: EOC
DATE/TIME: 1/28/84 - 09:25
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Sirens 33, 37 and 69 have failed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Coordinator of Public Information
FROM: Marketing Evacuations
LOCATION: EOC
DATE/TIME: 1/28/84 - 09:30
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Siren 58 has failed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Home Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 09:35

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Initiate invalid and disabled notification of offer for LERO assistance per the attached lists.

THIS IS A DRILL

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE A

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Thomas Smith	111 Soundview Drive E. Shoreham / (516) 733-5095			
2. John Kilpatrick	12 Suffolk Drive E. Shoreham / (516) 733-5097			
3. James Kirwill	10 Highland Drive E. Shoreham / (516) 733-5094			
4. Arthur Stigman	114 Robinson Street E. Shoreham / (516) 733-5096			
5. Kurt Lowen	21 Normal Avenue E. Shoreham / (516) 733-5087			
6. Paul Senkri	41 Harvard Road E. Shoreham / (516) 733-4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE B

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Fred Jackson	12 Cooper Street Rocky Point / (516) 733- 5095			
2. Karl Little	100 Walker Avenue Rocky Point / (516) 733- 5097			
3. Ted Small	75 Randall Road Rocky Point / (516) 733- 5094			
4. Joseph Krough	17 Bradley Drive Rocky Point / (516) 733- 5096			
5. Mary Tilly	5 Akron Place Rocky Point / (516) 733- 5087			
6. Frank Jones	83 Blackfoot Tr Rocky Point / (516) 733- 4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE C

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Martha Holmes	12 Wading River Rd Wading River / (516) 733- 5095			
2. Jonathen Zabriski	25 Pananoka Tr Brookhaven / (516) 733- 5097			
3. Helen Konkle	115 Lakeside Tr Brookhaven / (516) 733- 5094			
4. Robert Zastron	218 Oakview Tr Brookhaven / (516) 733- 5096			
5. Abe Levin	29 Josephine Drive Brookhaven / (516) 733- 5087			
6. Homer Willisley	213 Mid. Country Rd Brookhaven / (516) 733- 4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE D

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Marybeth Carson	51 Kay Road Wading River / (516) 733-5095			
2. Jamie Frille	21 N. Country Rd Wading River / (516) 733-5097			
3. John Paulton	22 Mid. Country Rd Wading River / (516) 733-5094			
4. Jody Powell	83 Wading River - Manorville Rd Wading River / (516) 733-5096			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE E

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Robert Remington	31 North Side Dr. Wading River / (516) 733-5095			
2. Helen Hayes	84 Songview Rd Wading River / (516) 733-5097			
3. Phlaminio D'Laorio	71 N. Wading River Rd Wading River / (516) 733-5094			
4. Josephine Gridley	16 Jeraco Street Wading River / (516) 733-5096			
5. Jenny Field	5 N. Country Road Wading River / (516) 733-5087			
6. Jerald Lewin	1111 Woodchuck Harbor Lane Wading River / (516) 733-4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE F

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Harvey Prince	12 Locust Drive Miller Place / (516) 733- 5095			
2. Joseph King	81 Westchester Road Miller Place / (516) 733- 5097			
3. Madeline Washington	33 Rocky Point Road Miller Place / (516) 733- 5094			
4. Herbert Lansing	44 Adam Avenue Miller Place / (516) 733- 5096			
5. Sidney Carton	15 N. Country Road Miller Place / (516) 733- 5087			
6. Mary Cooper	17 Echo Avenue Miller Place / (516) 733- 4302			
7. Randall Reynolds	185 Washington Avenue Miller Place / (516) 733- 4119			
8. Ralph McCalbert	215 Groveland Boulevard Miller Place / (516) 733- 5095			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE H

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. William Andrews	22 Elizabeth Drive Upton / (516) 733- 5095			
2. Heather Webb	22 Madeline Road Upton / (516) 733- 5097			
3. Lisa Gibbs	1810 Gold Dip Street Upton / (516) 733- 5094			
4. Leslie Walker	12 Pine Pike Upton / (516) 733- 5096			
5. Shirley Sweczy	5 Deerleap Upton / (516) 733- 5087			
6. Pratt Lockhead	45 Madeline Road Upton / (516) 733- 4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE G

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. James Majroski	21 Whiskey Road Rocky Point /(516) 733- 5095			
2. Anthony Jameson	22 Yaphank Road Rocky Point /(516) 733- 5097			
3. Herbert Ballis	51 Artist Lake Boulevard Rocky Point /(516) 733- 5094			
4. Arver Anderson	83 Ridge Road Rocky Point /(516) 733- 5096			
5. Skip Bates	1217 Randall Road Rocky Point /(516) 733- 5087			
6. Paula Prince	204 Woodlots Road Rocky Point /(516) 733- 4302			
7. Mary Osborne	315 Wood Road Rocky Point /(516) 733-4119			
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- THIS IS A DRILL -

- THIS IS A DRILL -

HEALTH CARE FACILITIES EVACUATION LISTING

HANDICAPPED FACILITIES

(Phone Numbers are Fictitious)

Facility	Address	Phone Number	Zone Designation	Transportation Requirements	Relocation Facility	Time of Initial Contact/Time of Evacuation Confirmation
a. Association for the Help of Retarded Children		(516) 733-5097	S		Suffolk Developmental Center	
b. United Cerebral Palsy 1. Ridge 2. Mt. Sinai		(516) 733-5085	G K		Suffolk Developmental Center	
c. Stockton Residence		(516) 733-5095				
d. Maryhaven Center of Hope		(516) 733-4368	Q			

- THIS IS A DRILL -

- THIS IS A DRILL -

HEALTH CARE FACILITIES EVACUATION LISTING
(continued)

HOSPITALS

(Phone Numbers are Fictitious)

Facility	Address	Phone Number	Zone Designation	Transportation Requirements	Relocation Facility	Time of Initial Contact/Time of Evacuation Confirmation
a. St. Charles Hospital		(516) 733-4884	Q		Northport V.A. Hospital (maternity and pediatric cases to St. Johns Hospital) via LIRR	
b. John T. Mather Memorial Hospital		(516) 733-4301	Q		Northport V.A. Hospital (maternity and pediatric cases to St. Johns Hospital) via LIRR	
c. Central Suffolk Hospital		(516) 733-4302	P		Eastern Long Island Hospital and Southampton Hospital (including all maternity cases)	

- THIS IS A DRILL -

- THIS IS A DRILL -HEALTH CARE FACILITIES EVACUATION LISTING
(continued)NURSING HOMES

(Phone Numbers are Fictitious)

Facility	Address	Phone Number	Zone Designation	Description	Transportation Requirements	Relocation Facility	TIME OF INITIAL Contact/Time of Evacuation Confirmation
a. Riverhead Nursing Home and Riverhead Health Related Facility	1146 Woodcrest Avenue Riverhead	(516) 733-4369	P	These facilities house approximately 120 persons at the nursing home and 60 persons at the health related facility. Of the 180, 120 are capable of being transported by bus; however, the remaining 60 require ambulance transport.		Pilgrim State Hospital	
b. Suffolk County Home and Infirmary	Yaphank Avenue Yaphank	(516) 733-5082	L	This facility houses approximately 215 persons. The majority of these are classified as non-ambulatory and require stretcher transport. Since evacuation for these people is by Long Island Railroad, they require transport by ambulance for the 1/2-mile distance to the Main Line tracks just south of the facility. The railroad will transport patients directly to their relocation center.		Central Islip Psychiatric Center (via LIRR)	
c. Sunrest Nursing Home AND Sunrest Manor Health Related Facility	70 North Country Road Port Jefferson 125 E. Oakland Avenue Port Jefferson	(516) 733-4464	Q	These facilities house approximately 104 persons at the nursing home and 102 persons at the health related facility. Of the 206, 190 can be transported by bus; however, the remaining 16 require ambulance transport.		Kings Park State Hospital	

- THIS IS A DRILL -

- THIS IS A DRILL -

HEALTH CARE FACILITIES EVACUATION LISTING
(continued)

NURSING HOMES (continued)

(Phone Numbers are Fictitious)

Facility	Address	Phone Number	Zone Designation	Description	Transportation Requirements	Relocation Facility	Time of Initial Contact/Time of Evacuation Confirmation
d. Woodhaven Nursing Home AND Woodhaven Home for Adults	1350-1360 Route 112 Port Jefferson Station	(516) 733-5081	K	These facilities house approximately 143 persons at the nursing home and 180 persons at the adult home. Of the 323, 300 can be transported by bus; however, the remaining 23 require ambulance transport.		Kings Park State Hospital	
e. Oakhollow Nursing Center and Crest Hall Health Related Facility	Oakcrest Avenue and Church Lane Middle Island	(516) 733-5094	K	These facilities house approximately 164 persons at the nursing home and 120 persons at the health related facility. Of the 284, 250 can be transported by bus; however, the remaining 34 require ambulance transport.		Pilgrim State Hospital	
f. Ridge Rest Home	Whiskey Road Ridge	(516) 733-4465	G	This facility houses approximately 58 residents. All but one patient are ambulatory and no assistance is required. However, they do require one bus to transport these people.		Pilgrim State Hospital	

- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE L

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Billy Gordon	28 Orchard Road West Yaphank / (516) 733- 5095			
2. Valerie Donald	16 Long Island Avenue West Yaphank / (516) 733- 5097			
3. Gordon Jaston	31 Lincoln Road West Yaphank / (516) 733- 5094			
4. Coleman Lantern	42 Grindsmith Road Gordon Heights / (516) 733- 5096			
5. Terry Block	63 Seymore Lane Gordon Heights / (516) 733- 5087			
6. Jolin Jefferson	81 Homerstad Drive Gordon Heights / (516) 733- 4302			
7. Herbert Wintergreen	99 Magnet Drive Gordon Heights / (516) 733- 4119			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE I

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Jame Seymour	51 Manor Road Calverton / (516) 733-5095			
2. Henry T. Latrec	77 Jones Road Calverton / (516) 733-5097			
3. Tom Cratchet	100 Primrose Path Calverton / (516) 733-5094			
4. Clint Tovie	521 Grumman Boulevard Calverton / (516) 733-5096			
5. Emily Dickson	60 Oakwood Drive Calverton / (516) 733-5087			
6. Harry Nelson	7012 Ninth Street Calverton / (516) 733-4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE J

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. George Ruth	801 North Pond Avenue Wading River / (516) 733-5095			
2. Anthony Corilla	211 South Path Wading River / (516) 733-5097			
3. Fred Shopin	50 Old Stone Road Wading River / (516) 733-5094			
4. George Sand	613 Wildwood Drive Wading River / (516) 733-5096			
5. Ann Elliott	871 Timber Drive Wading River / (516) 733-5087			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE K

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Kathy Aragon	15 Calvery Road Miller Place / (516) 733- 5095			
2. Mary Lou Bourbon	86 Wild Road Miller Place / (516) 733- 5097			
3. Kelly Walton	13 Chestnut Street Miller Place / (516) 733- 5094			
4. Phil Marlowe	67 Mt. Sanal Avenue Miller Place / (516) 733- 5096			
5. Jack Medford	15 Arburts Road Tanglewood Hills / (516) 733- 5087			
6. Mary Nichols	1081 Community Road Tanglewood Hills / (515) 733- 4302			
7. Maggie Johnson	201 North Field Road Tanglewood Hills / (516) 733- 4119			
8. Carl Fishbaugh	16 Wagner Drive Tanglewood Hills / (516) 733-5095			
9. Ludwig Hoverton	43 Bicycle Path Tanglewood Hills / (516) 733-5097			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE M

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Mike Jackson	41 Longwood Road Yaphank / (516) 733-5095			
2. Jack Whittington	38 Collen Lane Yaphank / (516) 733-5097			
3. Betty Cullen	1061 Shanon Boulevard Yaphank / (516) 733-5094			
4. Jessica Crointon	4211 Charles Street Yaphank / (516) 733-5096			
5. Homer Tandy	801 Raymond Street Yaphank / (516) 733-5087			
6. Emily Hamilton	615 Southaven Fireplace Road Yaphank / (516) 733-4302			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE R

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Janine Wood	11 Granny Road Farmingville / (516) 733-5095			
2. John Milton	29 Country Road Farmingville / (516) 733-5097			
3. Rosey Ruiz	75 Milton Street Farmingville / (516) 733-5094			
4. Chris Carter	63 Horseblock Road Farmingville / (516) 733-5096			
5. Jack Ryerson	1103 Port Jefferson/Patchogue Road Farmingville / (516) 733-5087			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISACLED EVACUATION LISTING

ZONE Q

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Jack Hagstromm	21 Scassy Hill Belle Terre /((516) 733- 5095			
2. Shermin Billingsley	72 High Street Belle Terre /((516) 733- 5097			
3. Lora Johnson	68 Belle Terre Road Belle Terre /((516) 733- 5094			
4. Karen Barnes	51 Soundview Drive Belle Terre /((516) 733- 5096			
5. Joan Weeks	59 Sands Lane Belle Terre /((516) 733- 5087			
6. Marcia Dixon	1010 Cliff Road Belle Terre /((516) 733- 4302			
7. Jeffrey Fisher	1621 Fairview Drive Belle Terre /((516) 733- 4119			
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- THIS IS A DRILL -

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Health Care Facilities Coordinator

LOCATION: EOC

DATE/TIME: 01/28/84 - 09:37

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Initiate Health Care Facilities notification of offer for LERO assistance.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 09:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

LPCI and Core Spray Pumps are started and begin restoration of RPV coolant inventory.

RPV water level is responding to LPCI/CS flow.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Coordinator of Public Information
FROM: Marketing Evacuations
LOCATION: EOC
DATE/TIME: 1/28/84 - 09:58
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Sirens 83, 89, 35 and 41 have failed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Maintenance Coordinator
LOCATION: EOC (Brentwood)
DATE/TIME: 1/28/84 - 10:00 a.m.
MESSAGE: Phone Call from SNPS Offsite Radiation Team

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Fuel pump failure in radiation monitoring/survey van; can one be obtained? 350 CI Chevy, V8, automatic, P.S., P.B., A/C; externally mounted; 1981 Model-Year engine.

Van location: 25A and Miller Place-Yaphank Road

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Coordinator of Public Information
FROM: Marketing Evacuations
LOCATION: EOC
DATE/TIME: 1/28/84 - 10:10
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Sirens 70 and 79 have failed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 10:15

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Guillotine break in the SRV blowdown.

RPV water level reaches the 10-10-10 level setpoint.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Coordinator of Public Information
FROM: Marketing Evacuations
LOCATION: EOC
DATE/TIME: 1/28/84 - 10:26
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Sirens 34 and 73 have failed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 10:30

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is approaching Top of Active Fuel (TAF) and decreasing.

Containment isolation initiated.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 10:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is significantly below TAF. Fuel assemblies are exposed and damaged, causing severe radiological releases through the Safety Relief Valve (SRV) line break, Containment isolation is maintained.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 11:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that a General Emergency be declared at this time.

THIS IS A DRILL

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message
 Transmittal:
 Date 1/28/84 Time 1110 hrs
 (24-hour clock)

2. Facility providing information:
 A Indian Point Unit No. 2
 B Indian Point Unit No. 3
 C Ginna Station
 D Nine Mile Point Unit No. 1
 E FitzPatrick Plant
 F Shoreham Station
 G Other _____

3. Reported by:
 A Name _____
 B Title _____

4. This ... A is ... an exercise.
 B is NOT

5. Emergency Classification
 A Unusual Event
 B Alert
 C Site Area Emergency
 D General Emergency

6. This classification occurred at
 Date 1/28/84 Time 1100 hrs
 (24-hour clock)

7. Brief Event Description/
 Initiating Condition:

RPV water level is significantly below TAF.
 Fuel assemblies are exposed and damaged,
 causing severe radiological releases through
 the Safety Relief Valve (SRV) line break,
 Containment isolation is maintained.

8. There has:
 A NOT been a release of
 radioactivity.
 B been a release of radio-
 activity to the
 ATMOSPHERE.
 C been a release of radio-
 activity to a BODY OF
 WATER _____
 D been a GROUND SPILL re-
 lease of radioactivity.

9. The release is:
 A continuing
 B terminated
 C NOT applicable.

10. Protective Actions:
 A There is NO need for
 Protective Actions out-
 side the site boundary.
 B Protective Actions are
 under consideration.
 C Recommended Protective
 Actions:
 Shelter within _____
 miles/or _____
 sectors/or ERPA's.
 Evacuate within 10
 miles/or All
 sectors/or ERPA's.

11. Weather:
 A Wind speed 10 miles
 per hour or --- meters
 per second.
 B Direction (from) ENE
67 degrees.
 C Stability class (A-G) C
 D General Weather Condi-
 tion (if available)
Clear

Message received by _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

13. Inplant Emergency Response Actions Underway: _____

14. Utility Offsite Emergency Response Action Underway: _____

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Noble Gas Release Rate	_____ Ci/sec	3500 Ci/sec
Radioiodine Release Rate	_____ Ci/sec	40 Ci/sec
Elevated or Ground Release	_____	Elevated

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	_____ mR/hr	_____ mR/hr
Whole Body Commitment (for duration)	_____ Rem	_____ Rem
Thyroid Dose Commitment (1 hr. exposure)	_____ mRem	_____ mRem
Thyroid Dose (for duration)	_____ Rem	_____ Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	_____	_____	_____
Whole Body Dose (Rem)	_____	_____	_____
Thyroid Dose Commitment (1 hr. Exposure - mRem)	_____	_____	_____
Thyroid Dose (Total Commitment - Rem)	_____	_____	_____

17 Protective Action Recommendations and the basis for that recommendation: Recommended evacuation out to 10 miles all zones based on expected wind direction change during projected release expected to begin in 5-6 hours.

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Coordinator of Public Information
FROM: Staging Area Coordinators
LOCATION: EOC
DATE/TIME: 1/28/84 - After second sounding of sirens 11:30
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Have the failed sirens been fixed? If not, do we drive the routes for the failed sirens again?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. C

TO: Port Jefferson Lead Traffic Guide

FROM: Traffic Control Point Coordinator

LOCATION:

DATE/TIME: 1/28/84 - 11:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>
9	1	118	1	119	1
190	1	40	1	58	2
6	1	1	1	145	1
5	2	104	1	61	1
38	1	103	1	59	1
141	2	133	1	48	1
142	3	121	1	60	1
43	2	117	1	98	2
147	2	44	1	97	1
146	2	74	1	99	1
42	2	95	1	100	2
56	4	105	1	101	2
57	2	96	1	102	1
41	1	47	1	94	1
120	1	50	2	93	1
122	1	52	2	95	1
137	1	49	2	51	1
139	1	144	1	96	1
37	1	55	1		

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. C

TO: Riverhead Lead Traffic Guide
FROM: Traffic Control Point Coordinator
LOCATION:
DATE/TIME: 1/28/84 - 11:45
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>
2	1	73	1	29	1
3	1	108	1	116	1
134	1	8	2	26	1
135	1	9	1	20	1
10	1	38	3	21	1
7	1	39	1	22	1
13	1	34	1	23	2
12	1	14	1	25	2
129	1	11	1	26	1
128	1	27	1	112	1
125	2	28	1	16	1
62	1	131	1	15	1
18	1	17	1	143	2
115	1	19	1	136	1
127	1	72	1	36	1

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. C

TO: Patchogue Lead Traffic Guide
FROM: Traffic Control Point Coordinator
LOCATION:
DATE/TIME: 1/28/84 - 11:45
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>	<u>Point</u>	<u># of Guides</u>
126	2	69	1	109	2
31	4	68	2	110	2
32	1	63	2	113	1
35	2	64	1	114	4
130	1	79	1	90	1
30	1	80	1	111	1
65	2	78	2	91	1
66	2	77	1	138	1
67	1	71	1	87	2
123	2	76	1	89	1
53	1	81	1	88	1
54	1	82	1	24	1
124	2	83	1	92	1
75	1	85	1	107	1
70	1	86	2	84	1
132	1	106	2		

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Patchogue Lead Traffic Guide
FROM: Road Logistics Coordinator
LOCATION: EOC
DATE/TIME: 1/28/84 - 11:45
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch road crews to the following traffic control points:

77, 70, 126, 30

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Port Jefferson Lead Traffic Guide

FROM: Road Logistics Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 11:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch road crews to the following traffic control points:

35, 38, 56, 50

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide
FROM: Road Logistics Coordinator
LOCATION: EOC
DATE/TIME: 1/28/84 - 11:45
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch road crews to the following traffic control points:

62, 10, 27, 14

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Port Jefferson Lead Traffic Gui.

FROM: Evacuation Route Coordinator

LOCATION:

DATE/TIME: 1/28/84 - 11:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch route spotters on the following routes:

1001, 1003, 1005, 1006

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide
FROM: Evacuation Route Coordinator
LOCATION:
DATE/TIME: 1/28/84 - 11:45
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch route spotters on the following routes:

1009, 1007, 1008

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Patchogue Lead Traffic Guide

FROM: Evacuation Route Coordinator

LOCATION:

DATE/TIME: 1/28/84 - 11:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dispatch route spotters on the following routes:

1002, 1004, 1010, 1011

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 12:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Wind shift WNW 337° at 10 mph. The temperature is 37°F.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Bus Dispatcher
LOCATION: Port Jefferson Staging Area
DATE/TIME: 1/28/84 - 1200 hrs. (10 minutes after sent out the
evacuation call)
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Bus Drivers call from a pay phone near the Montauk Bus Company in
Mt. Sinai and reports that there is no one at the company.
Therefore, they can't get any buses.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Evacuation Route Coordinator
FROM: Helicopter
LOCATION: EOC
DATE/TIME: 1/28/84 - 12:15
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Stalled vehicle on Sunrise Highway in left lane just west of
Chi-Chester Avenue. Do you want further surveillance. As of 12:10
hours is causing minor delays.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Port Jefferson Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 12:20

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 137 reported that a driver said some trees down on Miller Place-Yaphank Road.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Traffic Control Point Coordinator

FROM: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 12:27

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide Number 10 reported that he hasn't had any westbound traffic for about 10 minutes.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 12:30

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Repair of ECCS systems completed.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Coordinator
LOCATION: EOC (Brentwood)
DATE/TIME: 1/28/84 - 1230 hrs. (Approximately 45 minutes after
declaration of evacuation)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Initiate appropriate evacuation for Zones A-J, K, L, Q, R. Man the following transfer points and exercise the following routes:

<u>Transfer Points</u>	<u>Transfer Point Coordinators</u>	<u>Staging Areas</u>	<u>No. of Buses</u>	<u>Bus Routes</u>
Brookhaven National Lab	2	Patchogue	36	A1, C2, B1, D1, C1, E1
Miller Place LILCO ROW	3	Port Jefferson	59	F1-1, F3-5, F1-2, F4-6, F2-3, F5-7, F2-4, G3
Middle Island Shopping Center	1	Patchogue	10	G1, G2
Brookhaven Substation	1	Riverhead	14	H1, I2, I1, J1

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____
(continued)

TO: Bus Coordinator
LOCATION: EOC (Brentwood)
DATE/TIME: 1/28/84 - 1230 hrs. (Approximately 45 minutes after
declaration of evacuation)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

<u>Transfer Points</u>	<u>Transfer Point Coordinators</u>	<u>Staging Areas</u>	<u>No. of Buses</u>	<u>Bus Routes</u>
Coram Drive-In	3	Patchogue	60	K1-1, K2-3, K1-2
LILCO Property Norwood Avenue	3	Port Jefferson	49	K3-4, Q1, K4-5, Q2, K5-6
North Bellport Restaurant	1	Riverhead	16	L1, L3, L2
North Patchogue Substation	1	Patchogue	19	R1, R2

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 12:40

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 36 says one too many guides were sent to this post. Could we send an extra route alert driver to go pick him up?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Coordinator
LOCATION: EOC (Brentwood)
DATE/TIME: 1/28/84 - 1245 hrs. (Approximately 45 minutes after
declaration of evacuation)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Continue evacuation of Zones A-J, K, L, Q, R. Due to the wind shift, begin evacuation for Zones M, N, O.* Man the following transfer points and exercise the following routes:

<u>Transfer Points</u>	<u>Transfer Point Coordinators</u>	<u>Staging Areas</u>	<u>No. of Buses</u>	<u>Bus Routes</u>
Shirley Drive-In	2	Riverhead	45	M1, N2, N1
Eastport Substation	1	Riverhead	8	01, 02
Warehouse - Doctors Path	1	Riverhead	5	03
Possibility of Zones P and S being evacuated:				
Warehouse - Doctors Path	1	Riverhead	17	03, P3, P1, S1, P2

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 13:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Failure of the purge valves to isolate. Radiological release to Reactor Building (RB) and out via the Reactor Building Standby Ventilation System (RBSVS).

THIS IS A DRILL

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message
 Transmittal:
 Date 1/28/84 Time 1310 hrs
 (24-hour clock)

2. Facility providing information:
 A Indian Point Unit No. 2
 B Indian Point Unit No. 3
 C Ginna Station
 D Nine Mile Point Unit No. 1
 E FitzPatrick Plant
 F Shoreham Station
 G Other _____

3. Reported by:
 A Name _____
 B Title _____

4. This ... A is ... an exercise.
 B is NOT

5. Emergency Classification
 A Unusual Event
 B Alert
 C Site Area Emergency
 D General Emergency

6. This classification occurred at
 Date 1/28/84 Time 1100 hrs
 (24-hour clock)

7. Brief Event Description/
 Initiating Condition:

Failure of purge valves to isolate. Radio-
 logical release to Reactor Building (RB) and
 out via the Reactor Building Standby
 Ventilation System (RBSVS).

8. There has:
 A NOT been a release of
 radioactivity.
 B been a release of radio-
 activity to the
 ATMOSPHERE.
 C been a release of radio-
 activity to a BODY OF
 WATER _____
 D been a GROUND SPILL re-
 lease of radioactivity.

9. The release is:
 A continuing
 B terminated
 C NOT applicable.

10. Protective Actions:
 A There is NO need for
 Protective Actions out-
 side the site boundary.
 B Protective Actions are
 under consideration.
 C Recommended Protective
 Actions:
 Shelter within _____
 miles/or _____
 sectors/or ERPA's.
 Evacuate within 10
 miles/or All
 sectors/or ERPA's.

11. Weather:
 A Wind speed 10 miles
 per hour or --- meters
 per second.
 B Direction (from) WNW
337 degrees.
 C Stability class (A-G) C
 D General Weather Condi-
 tion (if available)
Clear

Message received by _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

13. Inplant Emergency Response Actions Underway: _____

14. Utility Offsite Emergency Response Action Underway: _____

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	1/28/84 @ 1300 hrs.	
Duration of Release	_____ hrs	_____ 2 hrs
Noble Gas Release Rate	3418 Ci/sec	_____ Ci/sec
Radioiodine Release Rate	38.8 Ci/sec	_____ Ci/sec
Elevated or Ground Release	<u>Elevated</u>	_____

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	_____ mR/hr	2360 mR/hr
Whole Body Commitment (for duration)	_____ Rem	<u>4.72</u> Rem
Thyroid Dose Commitment (1 hr. exposure)	_____ mRem	94,000 mRem
Thyroid Dose (for duration)	_____ Rem	<u>188</u> Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	660	156	65.5
Whole Body Dose (Rem)	<u>1.32</u>	<u>.312</u>	<u>.131</u>
Thyroid Dose Commitment (1 hr. Exposure - mRem)	38300	8720	3640
Thyroid Dose (Total Commitment - Rem)	<u>76.6</u>	<u>17.44</u>	<u>7.28</u>

17 Protective Action Recommendations and the basis for that recommendation: Evacuation of all zones to 10 mile radius

recommended based upon release rate, projected duration, and

wind shifts occurring and expected yet to occur.

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 13:10

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 2 just reported he got 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 13:12

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 127 just reported that he just pegged his
0-200 mR dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Dispatcher
LOCATION: Patchogue Staging Area
DATE/TIME: 1/28/84 - **13:12**
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Middle Island Shopping Center Transfer Point Coordinator's 0-5R dosimeter reads offscale high. However, his 0-1200 mRem dosimeter is only at 200 mRem. Please advise.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Dispatcher
LOCATION: Patchogue Staging Area
DATE/TIME: 1/28/84 - ~~13:19~~hrs.
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Brookhaven National Lab Transfer Point Coordinator radioed in that a bus driver that reports to the Miller Place Road Transfer Point informed him that the radio at Miller Place Road Transfer Point isn't working. They set up and are sending buses out on their routes. Please advise.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 13:15

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 79 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 13:25

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 128 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 13:37

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 108 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Evacuation Route Coordinator

LOCATION:

DATE/TIME: 1/23/84 - 13:40

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Route Spotter 1006 reported that a flat bed truck going south on Patchogue-Mt. Sinai Road near Pine Road is stopped. He can't find the driver. Should I wait around to see if he comes back? The hood is up on the truck.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Road Logistics Coordinator

LOCATION: EOC

DATE/TIME: 1/28/84 - 13:45

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

We have a line up of about 50 cars at the fuel tank truck on Sunrise Highway. Do we give gas to all these people? Half of them have more fuel than they need. What should we do?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 14:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Release path is isolated, purge valves respond to signal.

Radioactive releases from the plant have been terminated.

THIS IS A DRILL

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message
 Transmittal:
 Date 1/28/84 Time 1410 hrs
 (24-hour clock)

2. Facility providing information:
 A Indian Point Unit No. 2
 B Indian Point Unit No. 3
 C Ginna Station
 D Nine Mile Point Unit No. 1
 E FitzPatrick Plant
 F Shoreham Station
 G Other _____

3. Reported by:
 A Name _____
 B Title _____

4. This ... A is ... an exercise.
 B is NOT

5. Emergency Classification
 A Unusual Event
 B Alert
 C Site Area Emergency
 D General Emergency

6. This classification occurred at
 Date 1/28/84 Time 1100 hrs
 (24-hour clock)

7. Brief Event Description/
 Initiating Condition:

Release path is isolated, purge valves
 respond to signal.

Radioactive releases from the plant have
 been terminated.

8. There has:
 A NOT been a release of
 radioactivity.
 B been a release of radio-
 activity to the
 ATMOSPHERE.
 C been a release of radio-
 activity to a BODY OF
 WATER _____.
 D been a GROUND SPILL re-
 lease of radioactivity.

9. The release is:
 A continuing
 B terminated
 C NOT applicable.

10. Protective Actions:
 A There is NO need for
 Protective Actions out-
 side the site boundary.
 B Protective Actions are
 under consideration.
 C Recommended Protective
 Actions:
 Shelter within _____
 miles/or _____
 sectors/or ERPA's.
 Evacuate within 10
 miles/or All
 sectors/or ERPA's.

11. Weather:
 A Wind speed 10 miles
 per hour or --- meters
 per second.
 B Direction (from) WNW
337 degrees.
 C Stability class (A-G) C
 D General Weather Condi-
 tion (if available)
Clear

Message received by _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

13. Inplant Emergency Response Actions Underway: _____

14. Utility Offsite Emergency Response Action Underway: _____

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	1/28/84 @ 1300 hrs.	_____
Duration of Release	1 hrs	_____ hrs
Noble Gas Release Rate	3418 Ci/sec	_____ Ci/sec
Radioiodine Release Rate	38.8 Ci/sec	_____ Ci/sec
Elevated or Ground Release	Elevated	_____

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	<u>2360</u> mR/hr	<u> </u> mR/hr
Whole Body Commitment (for duration)	<u>2.36</u> Rem	<u> </u> Rem
Thyroid Dose Commitment (1 hr. exposure)	<u>94,000</u> mRem	<u> </u> mRem
Thyroid Dose (for duration)	<u>94</u> Rem	<u> </u> Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	<u>660</u>	<u>156</u>	<u>65.5</u>
Whole Body Dose (Rem)	<u>0.66</u>	<u>0.156</u>	<u>0.065</u>
Thyroid Dose Commitment (1 hr. Exposure - mRem)	<u>38300</u>	<u>8720</u>	<u>3640</u>
Thyroid Dose (Total Commitment - Rem)	<u>38.3</u>	<u>8.72</u>	<u>3.64</u>

17 Protective Action Recommendations and the basis for that recommendation: Complete evacuation out to 10 miles in all

zones based on release rate and shifting wind direction.

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 14:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Repair of ECCS Systems completed. Plant status unchanged.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Patchogue Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:05

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide just phoned in. His radio quit. What should we do. I've got him on the line. What number can he call the EOC at collect?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:10

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 10 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Evacuation Coordinator

FROM: Coast Guard

LOCATION:

DATE/TIME: 1/28/84 - 14:10

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

We have located the fishing boat with their nets 2 miles due north of the plant. Do we tell them to throw back the catch? Will the EPA want it?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:12

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 11 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Dispatcher
LOCATION: Patchogue Staging Area
DATE/TIME: 1/28/84 - 14:12
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Middle Island Shopping Center Transfer Point Coordinator's 0-1200 mRem dosimeter reads offscale high. His 0-5R dosimeter is broken as mentioned before. Please advise.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Patchogue Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:13

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 91 reports a lot of evacuating motorists are stopping to ask if they can go back home at 5:00 p.m. They heard the radiation hasn't actually occurred. What should we do?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Dispatcher
LOCATION: Riverhead Staging Area
DATE/TIME: 1/28/84 - 1415 hrs.
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Brookhaven Substation Transfer Point Coordinator reports that a transfer bus and a route bus collided at the entrance to the transfer point. The transfer bus was enroute to the relocation center and the route bus had just completed his route. Therefore, both buses were full with passengers. 47 persons injured, 30 of which require ambulances (including the route bus driver, Charles Boone). Warren Brown, the transfer bus driver, is uninjured, however, broke his dosimetry.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Bus Dispatcher
LOCATION: Riverhead Staging Area
DATE/TIME: 1/28/84 - 14:20
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Eastport Substation Transfer Bus Coordinator is struck by a bus. Has a broken leg.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:25

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 12 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Bus Dispatcher
LOCATION: Port Jefferson Staging Area
DATE/TIME: 1/28/84 - 1430 hrs.
MESSAGE: Simulated

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The LILCO Property - Norwood Avenue Transfer Point Coordinator reports that his bus drivers want to know the evacuation status and radiological conditions.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:30

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 2 just reported 3.5 R on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:31

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 13 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Traffic Control Point Coordinator
FROM: Riverhead Lead Traffic Guide
LOCATION: EOC
DATE/TIME: 1/28/84 - 14:35
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide #28 reports no Northbound traffic for 25 minutes. Is anything wrong?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 14:35

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that the emergency action level of General
Emergency be downgraded and reduced to Alert status at this time.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Evacuation Route Coordinator

FROM: Helicopter

LOCATION: EOC

DATE/TIME: 1/28/84 - 14:42

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Bus spotted on Edwards Avenue. It is stopped for a long time.
Located about 1/2 mile south of Sound Avenue.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Port Jefferson Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:50

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 100 reports the first LERO bus to arrive.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Patchogue Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 14:55

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

One of the Traffic Guides at point 110 dropped his dosimeter while showing it to the officer. It was his 0-200 mR dosimeter, I think. Should we send him to Brentwood?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 15:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The radioactive plume has completely dispersed. In-plant decontamination activities are underway.

THIS IS A DRILL

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message Transmittal:
Date 1/28/84 Time 1510 hrs
(24-hour clock)

2. Facility providing information:
A Indian Point Unit No. 2
B Indian Point Unit No. 3
C Ginna Station
D Nine Mile Point Unit No. 1
E FitzPatrick Plant
 F Shoreham Station
G Other _____

3. Reported by:
A Name _____
B Title _____

4. This ... A is ... an exercise.
B is NOT

5. Emergency Classification
A Unusual Event
 B Alert
C Site Area Emergency
D General Emergency

6. This classification occurred at
Date 1/28/84 Time 1500 hrs
(24-hour clock)

7. Brief Event Description/
Initiating Condition:

The radioactive plume has completely dispersed. In-plant decontamination activities are underway.

8. There has:
A NOT been a release of radioactivity.
 B been a release of radioactivity to the ATMOSPHERE.
C been a release of radioactivity to a BODY OF WATER
D been a GROUND SPILL release of radioactivity.

9. The release is:
A continuing
 B terminated
C NOT applicable.

10. Protective Actions:
A There is NO need for Protective Actions outside the site boundary.
B Protective Actions are under consideration.
 C Recommended Protective Actions:
Shelter within _____
miles/or _____
sectors/or ERPA's.
Evacuate within 10
miles/or All
sectors/or ERPA's.

11. Weather:
A Wind speed 10 miles per hour or --- meters per second.
B Direction (from) WNW
337 degrees.
C Stability class (A-G) C
D General Weather Condition (if available)
Clear

Message received by _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

13. Inplant Emergency Response Actions Underway: _____

14. Utility Offsite Emergency Response Action Underway: _____

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	1/28/84 @ 1300 hrs.	
Duration of Release	1 hrs	_____ hrs
Noble Gas Release Rate	3418 Ci/sec	_____ Ci/sec
Radioiodine Release Rate	38.8 Ci/sec	_____ Ci/sec
Elevated or Ground Release	<u>Elevated</u>	_____

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: _____

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	_____ mR/hr	_____ mR/hr
Whole Body Commitment (for duration)	_____ Rem	_____ Rem
Thyroid Dose Commitment (1 hr. exposure)	_____ mRem	_____ mRem
Thyroid Dose (for duration)	_____ Rem	_____ Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	_____	_____	_____
Whole Body Dose (Rem)	_____	_____	_____
Thyroid Dose Commitment (1 hr. Exposure - mRem)	_____	_____	_____
Thyroid Dose (Total Commitment - Rem)	_____	_____	_____

17 Protective Action Recommendations and the basis for that recommendation: _____

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Patchogue Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 15:05

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

At 14:40 hours the state police showed up at Traffic Point 110. They will allow us to remain at the point, however, they want to direct traffic. Should we ask them to come to Brentwood for a contamination check?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 15:13

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 127 just reported 3.5 R on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 15:35

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 28 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 15:53

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 27 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Riverhead Lead Traffic Guide

LOCATION:

DATE/TIME: 1/28/84 - 15:53

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 131 just reported 200 mR on his dosimeter.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO:

LOCATION:

DATE/TIME: 1/28/84 - 16:00

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The drill is terminated.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Rumor Control Staff
LOCATION: ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Rumor Control Staff Member (At Site Area
Emergency)

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

My brother was fishing off Shoreham Beach and we just ate one of the fish he caught. Am I going to die?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. _____

TO: Rumor Control Staff
LOCATION: ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Rumor Control Staff Member (At Site Area
Emergency)

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

My husband was just sent in by the Coast Guard after he was told of a problem at the plant. When he passed by Shoreham, he didn't see the cooling towers. What happened to the cooling towers!?!?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Rumor Control Staff
LOCATION: ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Rumor Control Staff Member (At General
Emergency)

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

My son is scheduled for kidney dialysis at the hospital and I forgot to send in my special needs card. What do I do?

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Rumor Control Staff
LOCATION: ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Rumor Control Staff Member

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

A school bus used for evacuations has just skidded on an ice patch, hit a telephone pole and is clogging up the street for miles.

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Rumor Control Staff
LOCATION: ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Rumor Control Staff Member

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

I just got a call from my son who heard there's a problem at Shoreham. My radio is broken and I don't know what to do. Help!

THIS IS A DRILL

LOCAL EMERGENCY RESPONSE EXERCISE SCENARIO

MESSAGE NO. ____

TO: Public Information Support Staff (LERO)
LOCATION: LERO Office at ENC
DATE/TIME: 1/28/84 -
MESSAGE: Handed to Staff Member

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Members of the press are continually trying to open the movable wall in the LERO office to oversee activities.

THIS IS A DRILL

THIS IS A DRILL

BUS COMPANY LISTINGS

<u>Bus Company</u>	<u>Address</u>	<u>Phone Numbers</u>		<u>No. of Buses Available</u>	
		<u>Business</u>	<u>Home</u>	<u>Potential</u>	<u>Actual</u>
				<u>Per Contract</u>	<u>Today</u>
ACME Bus Company	15 Walters Drive Manoville, New York	733-5095			20
Jerry's Bus Company	27 James Street South Manor, New York	733-5097			40
Home Bus Company	1011 Madison Street Middle Island, New York	733-5094			35
Kleins Bus Company	10 Railroad Avenue Moriches, New York	733-5096			5
Montauk Bus Company	83 Old Post Road Mt. Sinai, New York	733-5087			25
Riders Bus Company	17 Connecticut Avenue Calverton, New York	733-4302			30
S&K Bus Company	5114 Yaphank Road Shirley, New York	733-4119			20
Salvand Bus Company	12 Eastport Manor Road Eastport, New York	733-5095			42
Triumph Bus Company	214 Twoney Avenue Baiting Hollow, New York	733-5097			47
Trolley Bus Company	31 Rocky Point Road Rocky Point, New York	733-5094			35

THIS IS A DRILL

BUS COMPANY LISTINGS

<u>Bus Company</u>	<u>Address</u>	<u>Phone Numbers</u>		<u>No. of Buses Available</u>		
		<u>Business</u>	<u>Home</u>	<u>Potential</u>	<u>Actual</u>	
					<u>Per Contract</u>	<u>Today</u>
Tune Bus Co.	113 Old Country Rd. Mineola, N.Y.	733-5095		30		
Ultimate Bus Co.	15 Broadway Hicksville, N.Y.	733-5097		50		
U&B Bus Co.	427 Deer Park Ave. Deer Park, N.Y.	733-5094		75		
Volaire Bus Co.	8119 Main St. Northport, N.Y.	733-5096		35		
Wilmas Bus Co.	301 Rolston Ave. Plainview, N.Y.	733-5087		40		
Yoke Bus Co.	23 Montauk Hwy. Central Islip, N.Y.	733-4302		50		
Zach's Bus Co.	235 Broad Hollow Rd. Melville, N.Y.	733-4119		30		

Give these numbers for Potential and Actual Buses

THIS IS A DRILL

BUS COMPANY LISTINGS

<u>Bus Company</u>	<u>Address</u>	<u>Phone Numbers</u>		<u>No. of Buses Available</u>		
		<u>Business</u>	<u>Home</u>	<u>Potential</u>		<u>Actual</u>
				<u>Per Contract</u>	<u>Today</u>	
ACME Bus Company	15 Walters Drive Manoville, New York	733-5095		20	20	14
Jerry's Bus Company	27 James Street South Manor, New York	733-5097		50	40	30
Home Bus Company	1011 Madison Street Middle Island, New York	733-5094		50	35	24
Kleins Bus Company	10 Railroad Avenue Moriches, New York	733-5096		20	5	5
Montauk Bus Company	83 Old Post Road Mt. Sinai, New York	733-5087		25	25	20
Riders Bus Company	17 Connecticut Avenue Calverton, New York	733-4302		30	30	25
S&K Bus Company	5114 Yaphank Road Shirley, New York	733-4119		30	20	18
Salvand Bus Company	12 Eastport Manor Road Eastport, New York	733-5095		50	42	40
Triumph Bus Company	214 Twoney Avenue Baiting Hollow, New York	733-5097		50	47	45
Trolley Bus Company	31 Rocky Point Road Rocky Point, New York	733-5094		50	35	29

Give these numbers for Potential and Actual Buses

THIS IS A DRILL

BUS COMPANY LISTINGS

<u>Bus Company</u>	<u>Address</u>	<u>Phone Numbers</u>		<u>No. of Buses Available</u>		
		<u>Business</u>	<u>Home</u>	<u>Potential</u>		<u>Actual</u>
				<u>Per Contract</u>	<u>Today</u>	
Tume Bus Co.	113 Old Country Rd. Mineola, N.Y.	733-5095		30	30	30
Ultimate Bus Co.	15 Broadway Hicksville, N.Y.	733-5097		50	35	35
U&B Bus Co.	427 Deer Park Ave. Deer Park, N.Y.	733-5094		75	25	20
Volaire Bus Co.	8119 Main St. Northport, N.Y.	733-5096		35	35	35
Wilmas Bus Co.	301 Rolston Ave. Plainview, N.Y.	733-5087		40	40	10
Yoke Bus Co.	23 Montauk Hwy. Central Islip, N.Y.	733-4302		50	30	20
Zach's Bus Co.	235 Broad Hollow Rd. Melville, N.Y.	733-4119		30	25	25
Salvand Bus Company	12 Eastport Manor Road Eastport, New York	733-5095		50	42	40
Triumph Bus Company	214 Twoney Avenue Baiting Hollow, New York	733-5097		50	47	45
Trolley Bus Company	31 Rocky Point Road Rocky Point, New York	733-5094		50	35	29

6.0 RADIOLOGICAL INFORMATION

Tables

- 6-1 Weather Forecast
- 6-2 Dose Assessment - Plant Status Sheets
- 6-3 Radiological Survey/Sampling Data
- 6-4 ACCDOS Output
- 6-5 IRDAM Output

Figures

- 6-1.1 Site Arrangement Plan (to Site Boundary)
From T = 0 to T = 0 + 0500
- 6-1.2 From T = 0 + 0500 to T = 0 + 0600
- 6-1.3 From T = 0 + 0600 to T = 0 + 0800

- 6-2.1 Offsite Map to 1 Mile
From T = 0 to T = 0 + 0500
- 6-2.2 From T = 0 + 0500 to T = 0 + 0600
- 6-2.3 From T = 0 + 0600 to T = 0 + 0800

- 6-3.1 Offsite Map to Shore
From T = 0 to T = 0 + 0500
- 6-3.2 From T = 0 + 0500 to T = 0 + 0530
- 6-3.3 From T = 0 + 0530 to T = 0 + 0600
- 6-3.4 From T = 0 + 0600 to T = 0 + 0630
- 6-3.5 From T = 0 + 0630 to T = 0 + 0700
- 6-3.6 From T = 0 + 0700 to T = 0 + 0800

- 6-4.1 Ground Deposition Map
From T = 0 + 0600 to T = 0 + 5400

TABLE 6-1
WEATHER FORECAST*

Time: T =

Weather forecast from Cape May to Block Island.

- o Present - Clear skies. Winds 8 to 10 knots with gusts to 35 knots from the NE. Temperature in the mid 30's. Waves 2 to 3 feet in the Sound, 3 to 5 feet offshore.
- o This Afternoon - Winds 8 to 15 knots from the NE, shifting to NNW by early afternoon lasting until early evening. Temperature in the low 30's. Waves 2 to 3 feet in the Sound, 3 to 4 feet offshore.
- o Tonight - Winds expected to change after sundown from NNW to NE diminishing to 4 to 6 knots. Continued clear skies. Lows around 20 degrees. Seas calming with wave heights 1 to 2 feet in the Sound and offshore.

*Data to be provided upon request.

TABLE 6-2

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>08:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

08:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>08:15</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
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WIND SPEED AT 33' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(CONTINUED)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

08:15

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>08:30</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
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WIND SPEED AT 33' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

08:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>08:45</u>	PM 21 FLOW	<u>6</u>	CFM
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WIND SPEED AT 33' (WIND FROM)	<u> NE </u> DIR. OR <u> 55 </u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u> NE </u> DIR. OR <u> 55 </u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(CONTINUED)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Site Area Emergency

08:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>09:00</u>	PM 21 FLOW	<u>6</u>	CFM
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STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Site Area Emergency

LAST UPDATE

09:00

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u>	CFM
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TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Site Area Emergency

09:15

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u> CFM
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STATION VENT FLOW	<u> 366,600 </u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Site Area Emergency

LAST UPDATE

09:30

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u>	CFM
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STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Site Area Emergency

09:45

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u>	CFM
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TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Site Area Emergency

10:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>10:15</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
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WIND SPEED AT 150' (WIND FROM)	<u> NE </u> DIR. OR <u> 55 </u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Site Area Emergency

10:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>10:30</u>	PM 21 FLOW	<u>6</u> CFM
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STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Site Area Emergency

LAST UPDATE

10:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>10:45</u>	PM 21 FLOW	<u>6</u>	CFM
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STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(CONTINUED)

SHOREHAM NUCLEAR POWER STATION
DGSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

10:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>11:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
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WIND SPEED AT 150' (WIND FROM)	<u>NE</u> DIR. OR <u>55</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

11:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>11:15</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
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STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

11:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
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WIND SPEED AT 150' (WIND FROM)	<u> NE </u> DIR. OR <u> 55 </u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

11:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>11:45</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u> C </u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u> 10 </u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u> 10 </u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u> 366,600 </u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

11:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>12:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u> C </u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u> 10 </u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u> 10 </u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u> 366,600 </u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

12:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>12:15</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>---</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>	
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

12:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>12:30</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u> CPM
OR		PM 22 MONITOR READING	<u>Normal</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>---</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

12:30

CURRENT DATE	<u>01/28/84</u>	RBSYS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>12:45</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u> CPM
OR		PM 22 MONITOR READING	<u>Normal</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>---</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>---</u>
STATION VENT FLOW	<u>366,600</u> CFM	TIME OF RELEASE INITIATION	<u>---</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

12:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>13:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>OSH</u>	CPM
OR		PM 22 MONITOR READING	<u>OSH</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>32,000</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>---</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>---</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>2</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 8-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

13:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>1,160</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>13:15</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>OSH</u>	CPM
OR		PM 22 MONITOR READING	<u>OSH</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>32,000</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>---</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>---</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>2</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

13:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>1,160</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>13:30</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>OSH</u> CPM
OR		PM 22 MONITOR READING	<u>OSH</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>32,000</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>---</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>---</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>2</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

13:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>1,160</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>13:45</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	_____ DEG. F.	PM 21 MONITOR READING	<u>OSH</u> CPM
OR		PM 22 MONITOR READING	<u>OSH</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>32,000</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>---</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>---</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>2</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

13:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>1,160</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>14:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>OSH</u>	CPM
OR		PM 22 MONITOR READING	<u>OSH</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>32,000</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>---</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>---</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>2</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

General Emergency

14:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>14:15</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u> C </u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u> 10 </u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u> 10 </u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW DIR. OR 337 DEG.</u>	RELEASE DURATION	<u> 1 </u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW DIR. OR 337 DEG.</u>	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

14:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>14:30</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u> CPM
OR		PM 22 MONITOR READING	<u>Normal</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>1</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

General Emergency

LAST UPDATE

14:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>14:45</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u> CPM
OR		PM 22 MONITOR READING	<u>Normal</u> CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u> CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>1</u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE RELEASE INITIATION	<u>01/28/84</u>
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>

TABLE 6-2
(CONTINUED)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

14:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>15:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>1</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

LAST UPDATE

Alert

15:00

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>15:15</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>1</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

15:15

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u> CFM
CURRENT TIME (24-HOUR CLOCK)	<u>15:30</u>	PM 21 FLOW	<u>6</u> CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u> CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u> DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u> CPM
OR		PM 22 MONITOR READING	<u>Normal</u> CPM
STABILITY CLASS	<u> C </u> CLASS	PM 134 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33 FEET	<u> 10 </u> MPH	PM 42 MONITOR READING	<u>Normal</u> CPM
WIND SPEED AT 150 FEET	<u> 10 </u> MPH	PM 126 MONITOR READING	<u>Normal</u> uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u> 1 </u> HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

15:30

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>15:45</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u> C </u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u> 10 </u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u> 10 </u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	RELEASE DURATION	<u> 1 </u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u> NNW </u> DIR. OR <u> 337 </u> DEG.	DATE OF RELEASE INITIATION	<u> 01/28/84 </u>	
STATION VENT FLOW	<u> ---</u> CFM	TIME OF RELEASE INITIATION	<u> 13:00 </u>	

TABLE 6-2
(continued)

SHOREHAM NUCLEAR POWER STATION
DOSE ASSESSMENT - PLANT STATUS
DOE

EMERGENCY CLASSIFICATION

Alert

LAST UPDATE

15:45

CURRENT DATE	<u>01/28/84</u>	RBSVS FLOW	<u>---</u>	CFM
CURRENT TIME (24-HOUR CLOCK)	<u>16:00</u>	PM 21 FLOW	<u>6</u>	CFM
DATE OF ACCIDENT (REACTOR SCRAM)	<u>01/28/84</u>	PM 22 FLOW	<u>6</u>	CFM
TIME OF ACCIDENT (REACTOR SCRAM)	<u>07:00</u>	OUTSIDE AIR TEMPERATURE	<u>35</u>	DEG. F.
DELTA TEMPERATURE	<u> </u> DEG. F.	PM 21 MONITOR READING	<u>Normal</u>	CPM
OR		PM 22 MONITOR READING	<u>Normal</u>	CPM
STABILITY CLASS	<u>C</u> CLASS	PM 134 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33 FEET	<u>10</u> MPH	PM 42 MONITOR READING	<u>Normal</u>	CPM
WIND SPEED AT 150 FEET	<u>10</u> MPH	PM 126 MONITOR READING	<u>Normal</u>	uCi/cc
WIND SPEED AT 33' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	RELEASE DURATION	<u>1</u>	HOURS
WIND SPEED AT 150' (WIND FROM)	<u>NNW</u> DIR. OR <u>337</u> DEG.	DATE OF RELEASE INITIATION	<u>01/28/84</u>	
STATION VENT FLOW	<u>---</u> CFM	TIME OF RELEASE INITIATION	<u>13:00</u>	

TABLE 6-3

RADIOLOGICAL SURVEY/SAMPLING DATA

Background Level During Release: 60 CPM

AREA LOCATION KEY	CLOSED WINDOW		OPEN WINDOW		IODINE (Ci/m ²) RELEASE TERMINATION	IODINE (Ci/m ²) ONE DAY LATER	IODINE (Ci/m ²) TWO DAYS LATER	DOSIMETRY INCREMENTAL EXPOSURE (mRem)	CHILD THYROID (mR/hr)
	4 Feet (mR/hr)	4 Inches (mR/hr)	4 Feet (mR/hr)	4 Inches (mR/hr)					
A	2500	2500	3500	3500	2.5 E+0	2.3 E+0	2.1 E+0	875	10,000
B	2250	2250	3200	3200	2.3 E+0	2.1 E+0	1.9 E+0	800	9,000
C	2000	2000	2800	2800	2.1 E+0	1.9 E+0	1.8 E+0	700	100,000
D	1000	1000	1600	1600	1.2 E+0	1.1 E+0	9.7 E-1	400	60,000
E	500	500	800	800	6.3 E-1	5.8 E-1	5.3 E-1	200	30,000
F	250	250	400	400	3.2 E-1	2.9 E-1	2.6 E-1	100	12,000
G	100	100	160	160	1.3 E-1	1.2 E-1	1.1 E-1	40	4,000
H	50	50	80	80	6.5 E-2	6.0 E-2	5.5 E-2	20	3,000
I	25	25	40	40	3.3 E-2	3.0 E-2	2.7 E-2	10	2,500
J	10	10	10	10	8.1 E-3	7.5 E-3	6.8 E-3	2.5	2,000
K	5	5	5	5	4.1 E-3	3.7 E-3	3.4 E-3	1.25	1,000
L	1	1	1	1	2.0 E-3	1.9 E-3	1.7 E-3	0.25	500
M	Below 1	Below 1	Below 1	Below 1	1.0 E-4	1.0 E-4	1.0 E-4	----	Below 100

* Data to be provided to Survey/Sample Team personnel at the appropriate times and locations.

** Surveys taken inside buildings (onsite) will show radiation levels that are 1/10 of those indicated.

*** Each time an entry into this area is made, participants will be told every 15 minutes they have received the corresponding radiation exposure via self-reading dosimeters. This exposure will be repeated for each 15 minute period, or portion thereof. Controllers must estimate time - if unsure, give the higher exposure value.

TABLE 6-4

ACCDOS OUTPUT

TABLE 6-4

ACCDOE OUTPUT

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM ISOTOP ** LILCO/ENTECH

RBSVS ISOTOPIC CONCENTRATIONS
($\mu\text{Ci/cc}$)

DATE OF ENTRY	01/26/84
TIME OF ENTRY	07:07
KR83M 4.93E-003	KR85M 4.62E-002
KR85 0.56E-003	KR87 4.48E-003
KR88 9.73E-002	KR89 0.00E+000
KR90 0.00E+000	XE31M 5.05E-003
XE33M 6.55E-003	XE133 1.50E+000
XE35M 2.09E-002	XE135 9.52E-001
XE137 0.00E+000	XE138 3.23E-012
RR41 0.00E+000	I130 0.00E+000
I131 1.01E-002	I132 9.88E-004
I133 1.25E-002	I134 1.62E-005
I135 6.52E-003	

Dbg LOCA - CORE INVENTORY
DEFAULT INVENTORY OPTION 1
DECAYED FOR 6.121 HOURS

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM CHIQS *** LILCO/ENTECH

MET & OTHER DATA ON FILE

DATE OF ENTRY	01/26/84
TIME OF ENTRY	07:11
33-FT WIND SPEED (MPH)	10
150-FT WIND SPEED (MPH)	10
33-FT WIND DIR (DEG)	55
150-FT WIND DIR (DEG)	55
33-FT DOWNWIND SECTOR	SW
150-FT DOWNWIND SECTOR	SW
ATMOSPHERIC STABILITY	C
STATION VENT FLOW (CFM)	366600
RBSVS FLOW (CFM)	1160
PM21/22 DISCHARGE FLOW	6
OUTSIDE TEMP. (DEG F)	35
DELTA TEMP. (DEG F)	-1.025

 * ELEVATED PLUME HAS TOUCHED DOWN *
 BETWEEN 0.0 AND 500.0 METERS.
 * SEE SUMMARY OUTPUT LISTED BELOW. *

 ***** PLUME INFORMATION *****

DISTANCE		PLUME TRAVEL TIME (HOURS:MINUTES)	CHI/O VALUE
(METERS)	(MILES)		
500.0	0.3	0 : 1.9	8.01E-06
1000.0	0.6	0 : 3.7	6.76E-06
2000.0	1.2	0 : 7.5	2.73E-06
3000.0	1.9	0 : 11.2	1.42E-06
8000.0	5.0	0 : 29.8	2.74E-07
20000.0	12.4	1 : 14.6	6.29E-08

 SUMMARY *****

 CALCULATED DOSE RATES (REM/HR):

DISTANCE		WHOLE BODY	INFANT
(METERS)	(MILES)	5cm DEPTH	THYROID
500.0	0.3	5.06E+00	3.85E+02
1000.0	0.6	4.27E+00	3.25E+02
2000.0	1.2	1.73E+00	1.31E+02
3000.0	1.9	8.96E-01	6.51E+01
8000.0	5.0	1.73E-01	1.32E+01
20000.0	12.4	3.97E-02	3.02E+00

 CALCULATED DOSES (REMS):

DISTANCE		WHOLE BODY	INFANT
(METERS)	(MILES)	5cm DEPTH	THYROID
500.0	0.3	1.01E+01	7.70E+02
1000.0	0.6	8.54E+00	6.50E+02
2000.0	1.2	3.45E+00	2.63E+02
3000.0	1.9	1.79E+00	1.36E+02
8000.0	5.0	3.46E-01	2.63E+01
20000.0	12.4	7.95E-02	6.04E+00

 CALCULATIONS COMPLETED *****

TABLE 6-5

IRDAM OUTPUT

TABLE 6-5
IRDAM OUTPUT

***** INPUT INFORMATION *****

USER NAME: DEBORAH BERES

TODAY'S DATE: 1/19/84

CURRENT TIME: 1:00

REACTOR NAME: SHOREHAM

NET ELECTRICAL OUTPUT: 820

CONTAINMENT TYPE: BWR-EITHER A TYPE I OR II

EFFECTIVE STACK HEIGHT (M): 60.0

ELEVATED LEVEL WIND SPEED (M/SEC): 4.5

ELEVATED LEVEL WIND DIRECTION (TD): NO PREDOMINANT DIRECTION.

STABILITY CLASS: C

INPUTS FOR GROSS RELEASE RATE:

GROSS RELEASE RATE (CI/SEC): 3.45E+03

IODINE, NOBLE GAS, AND FILTER EFFICIENCY INPUTS:

PERCENTAGE IODINE: 1.13

PERCENTAGE NOBLE GAS: 98.88

IODINE TO NOBLE GAS RATIO: 1.14E-02

PERCENTAGE OF IODINES REMOVED BY FILTRATION: 0.00

TIME INTERVAL FROM REACTOR SHUTDOWN
TO INITIATION OF RELEASE (HR): 7.00

TIME ESTIMATE FOR TOTAL DURATION
OF RELEASE (HR): 2.00

AGE OF RELEASED MATERIAL: (1 DAY

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM CHIQS *** LILCO/ENTECH

NET @ OTHER DATA ON FILE

DATE OF ENTRY 01/28/84
TIME OF ENTRY 07:12
33-FT WIND SPEED (MPH) 10
150-FT WIND SPEED (MPH) 10
33-FT WIND DIR. (DEG) 337
150-FT WIND DIR. (DEG) 337
33-FT DOWNWIND SECTOR SSE
150-FT DOWNWIND SECTOR SSE
ATMOSPHERIC STABILITY C
STATION VENT FLOW (CFM) 366600
RBSVS FLOW (CFM) 1160
PM21/22 DISCHARGE FLOW 6
OUTSIDE TEMP. (DEG F) 35
DELTA TEMP. (DEG F) -1.025

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM CHIQS *** LILCO/ENTECH

ELEVATED PLM CONC. X/Q (SEC/M3)
SECTOR: SSE 01/28/84 07:12

SITE BNDR: .54 MILES	2.89E-006
MILES	MILES
EXCL 1.29E-011	3.5 4.91E-007
0.25 5.64E-008	4.0 3.92E-007
0.5 2.62E-006	4.5 3.22E-007
1.0 3.20E-006	5.0 2.72E-007
1.5 1.83E-006	7.5 1.53E-007
2.0 1.20E-006	10. 1.14E-007
2.5 8.52E-007	15. 8.03E-008
3.0 6.37E-007	20. 6.33E-008

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM CHIQS *** LILCO/ENTECH

ELEVATED PLM GAMMA X/Q (SEC/M3)
SECTOR: SSE 01/28/84 07:12

SITE BNDR: .54 MILES		4.07E-006	
MILES		MILES	
EXCL 2.04E-006	3.5	4.82E-007	
0.25 3.36E-006	4.0	3.86E-007	
0.5 4.17E-006	4.5	3.19E-007	
1.0 2.89E-006	5.0	2.70E-007	
1.5 1.71E-006	7.5	1.53E-007	
2.0 1.14E-006	10.	1.13E-007	
2.5 8.23E-007	15.	8.00E-008	
3.0 6.21E-007	20.	6.31E-008	

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM DOSES *** LILCO/ENTECH

WHOLEBODY DOSE RATE :33-FT
SECTOR: SSE 01/28/84 07:20

SITE BNDR: .54 MILES		2.36E+003	
MILES	MR/HR	MILES	MR/HR
EXCL 1.23E+003	3.5	2.79E+002	
0.25 1.98E+003	4.0	2.23E+002	
0.5 2.42E+003	4.5	1.84E+002	
1.0 1.68E+003	5.0	1.56E+002	
1.5 9.88E+002	7.5	8.83E+001	
2.0 6.60E+002	10.	6.55E+001	
2.5 4.76E+002	15.	4.63E+001	
3.0 3.59E+002	20.	3.65E+001	

RBSVS MONITOR = PM134
MONITOR READING = 32000

RBSVS SOURCE:
DBA LOCA - CORE INVENTORY
DECAYED FOR 6.12 HOURS
DATE OF ENTRY: 01/28/84
TIME OF ENTRY: 07:07

GIVEN DATA SHOW NO RELEASES FROM
THE STATION VENT

STATION VENT SOURCE:
REAL-TIME DATA IN USE
DATE OF ENTRY: 30/00/00
TIME OF ENTRY: 00:00

METEOROLOGICAL DATA
DATE OF ENTRY: 01/28/84
TIME OF ENTRY: 07:12

SNPS - OFFSITE DOSE ASSESSMENT
PROGRAM PROACT ** LILCO/ENTECH

BASIC INFORMATION

	DATE	TIME
CURRENT	01/28/84	07:33
RBSVS SOURCE	01/28/84	07:07
ST. VENT SRCE	00/00/00	00:00
MET. X/Q DATA	01/28/84	07:12
DOSE CALC.	01/28/84	07:20
SEASON/WEATH.	01/28/84	07:31
START OF REL	01/28/84	07:30

RELEASE DURATION (HRS) = 2

SEASON : WINTER
WEATHER : NORMAL

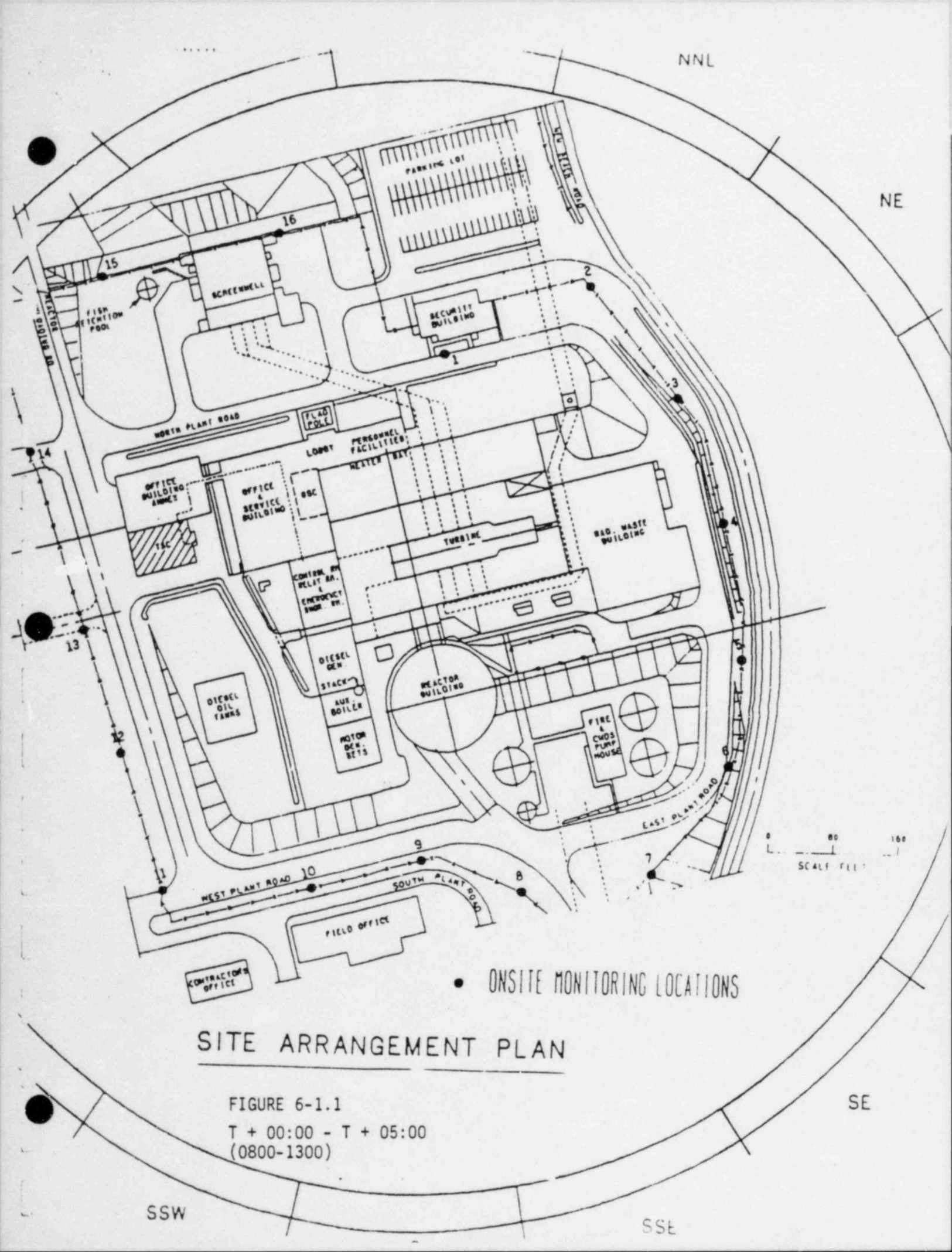
DIST	SRCE	DATE	TIME
.5	85B	01/28/84	07:32
1.0	85B	01/28/84	07:32
1.5	85B	01/28/84	07:32
2.0	85B	01/28/84	07:32
2.5	85B	01/28/84	07:32
3.0	85B	01/28/84	07:32
3.5	85B	01/28/84	07:33
4.0	85B	01/28/84	07:33
4.5	85B	01/28/84	07:33
5.0	85B	01/28/84	07:33
7.5	85B	01/28/84	07:33

DIST (MI)	DIREC TION (DEG)	PLUME TRAVL (HRS)	EVAC TIME (HRS)	EVAC EXPO. (HRS)
.5	157.0	.05	3.00	2.00
1.0	157.0	.10	3.00	2.00
1.5	157.0	.15	3.00	2.00
2.0	157.0	.20	3.00	2.00
2.5	157.0	.25	3.42	2.00
3.0	157.0	.30	3.42	2.00
3.5	157.0	.35	3.42	2.00
4.0	157.0	.40	3.42	2.00
4.5	157.0	.45	3.42	2.00
5.0	157.0	.50	3.42	2.00
7.5	157.0	.75	3.50	2.00

DIST OPTION (MI)	WH BODY (REM)	CH THYRD (REM)
.5 85B/SH	3.39E+000	1.29E+002
.5 85B/EV	4.85E+000	1.72E+002
1.0 85B/SH	2.35E+000	1.54E+002
1.0 85B/EV	3.35E+000	2.05E+002
1.5 85B/SH	1.38E+000	8.80E+001
1.5 85B/EV	1.98E+000	1.17E+002
2.0 85B/SH	9.23E-001	5.75E+001
2.0 85B/EV	1.32E+000	7.67E+001
2.5 85B/SH	6.67E-001	4.10E+001
2.5 85B/EV	9.53E-001	5.46E+001
3.0 85B/SH	5.03E-001	3.06E+001
3.0 85B/EV	7.18E-001	4.08E+001
3.5 85B/SH	3.90E-001	2.36E+001
3.5 85B/EV	5.58E-001	3.15E+001
4.0 85B/SH	3.13E-001	1.88E+001
4.0 85B/EV	4.47E-001	2.51E+001
4.5 85B/SH	2.58E-001	1.55E+001
4.5 85B/EV	3.69E-001	2.07E+001
5.0 85B/SH	2.10E-001	1.31E+001
5.0 85B/EV	3.12E-001	1.74E+001
7.5 85B/SH	1.24E-001	7.37E+000
7.5 85B/EV	1.77E-001	9.82E+000

PROTECTIVE ACTION RECOMMENDATION
(EVAC. ZONES, SHELTER, OR OTHER)

DIST	ZONE	RMS/85B	SURVEY TM
.5	C	SHELTER ABCDE	NO DATA
1.0	C	SHELTER ABCDE	NO DATA
1.5	C	SHELTER ABCDE	NO DATA
2.0	C	SHELTER ABCDE	NO DATA
2.5	C	SHELTER ABCDEHI	NO DATA
3.0	C	SHELTER ABCDEHI	NO DATA
3.5	H	SHELTER ABCDEHI	NO DATA
4.0	H	SHELTER ABCDEHI	NO DATA
4.5	H	SHELTER ABCDEHI	NO DATA
5.0	H	SHELTER ABCDEHI	NO DATA
7.5	O	SHELTER A...JMANO	NO DATA



NNL

NE

SITE ARRANGEMENT PLAN

FIGURE 6-1.1
 T + 00:00 - T + 05:00
 (0800-1300)

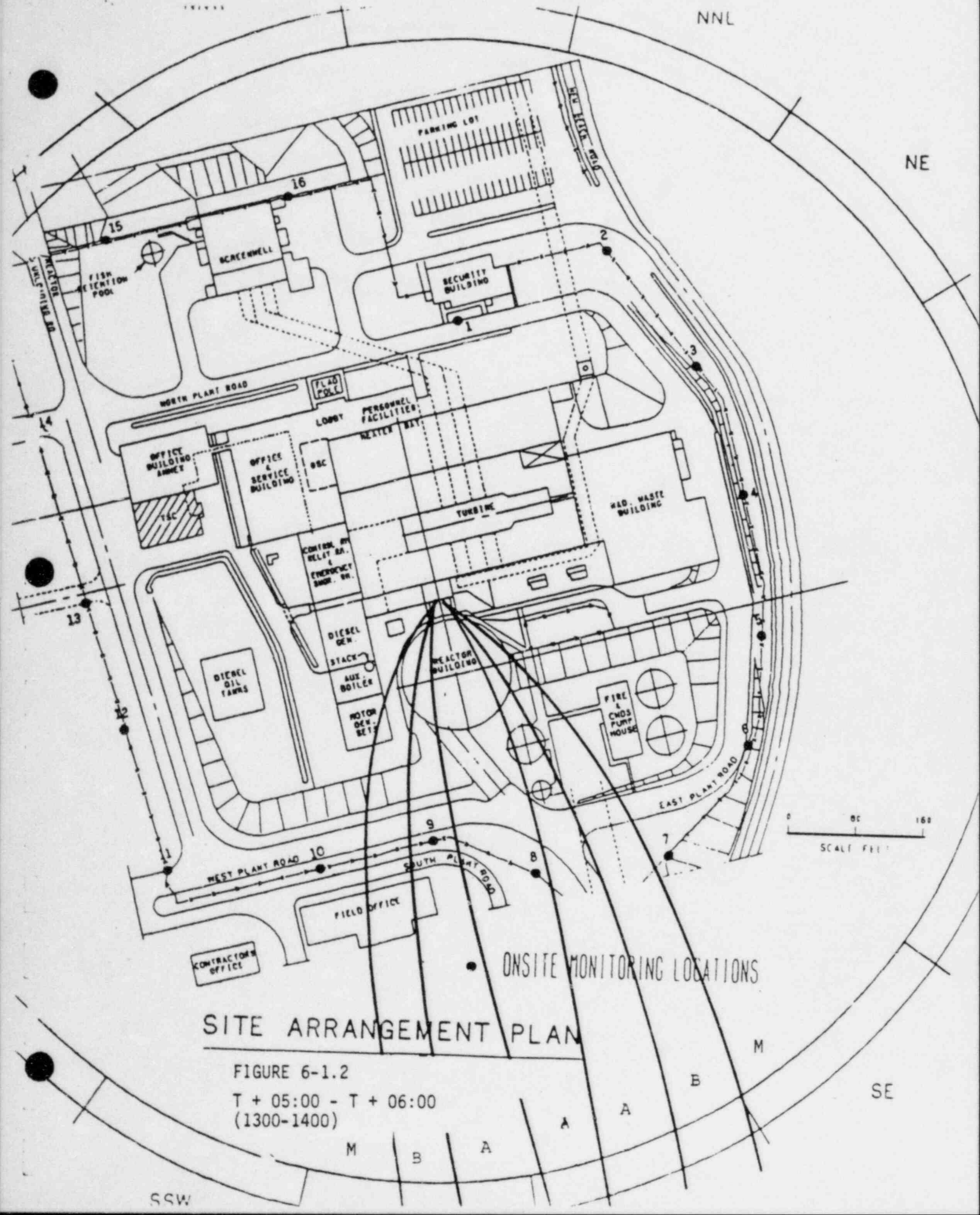
SSW

SSE

SE

ONSITE MONITORING LOCATIONS

SCALE FEET



SITE ARRANGEMENT PLAN

FIGURE 6-1.2
 T + 05:00 - T + 06:00
 (1300-1400)

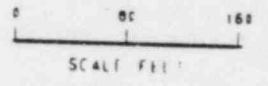
SSW

NNL

NE

SE

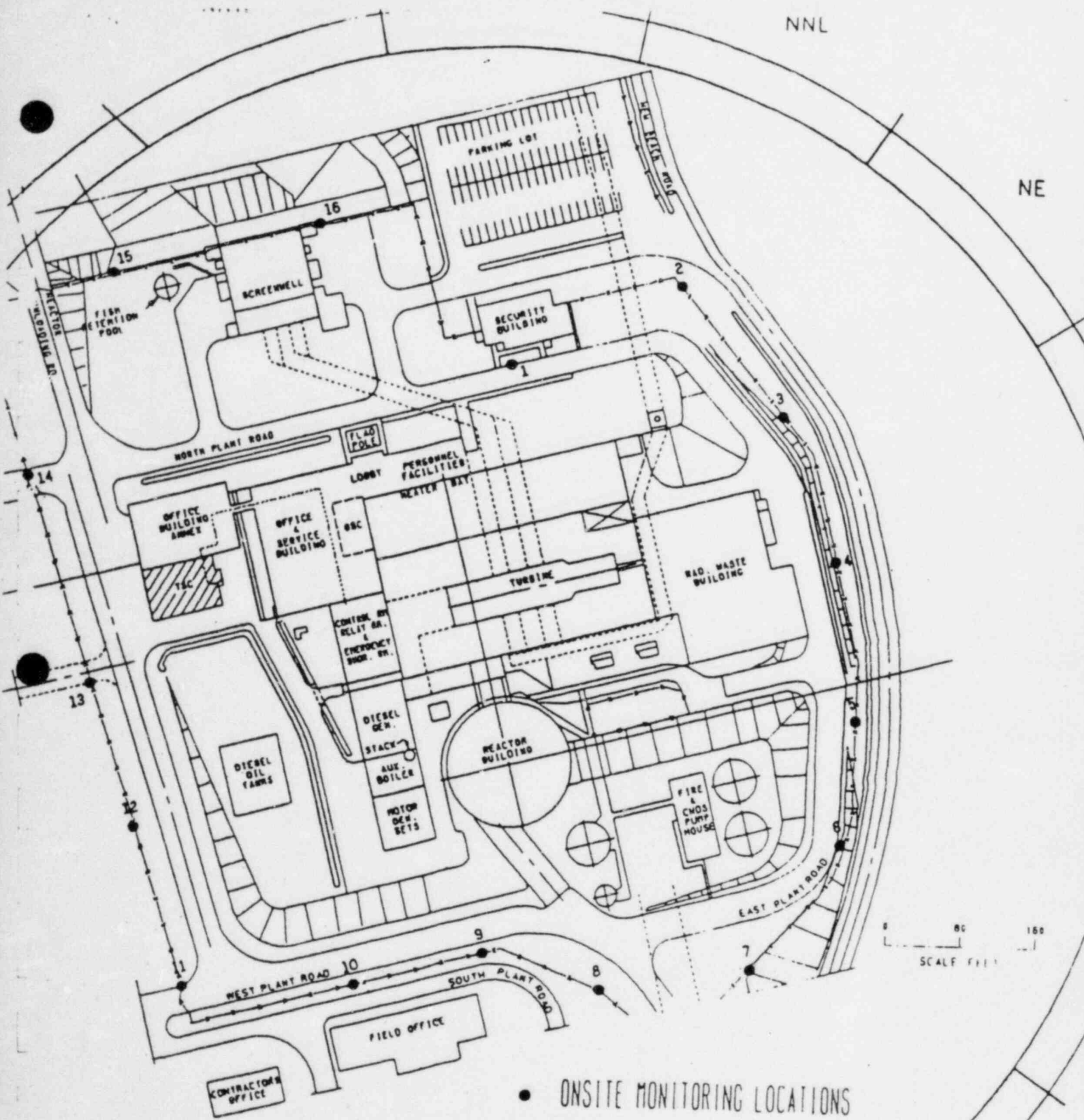
ONSITE MONITORING LOCATIONS



M B A

M B

A A



SITE ARRANGEMENT PLAN

FIGURE 6-1.3
 T + 06:00 - T + 08:00
 (1400-1600)

● ONSITE MONITORING LOCATIONS

SSW

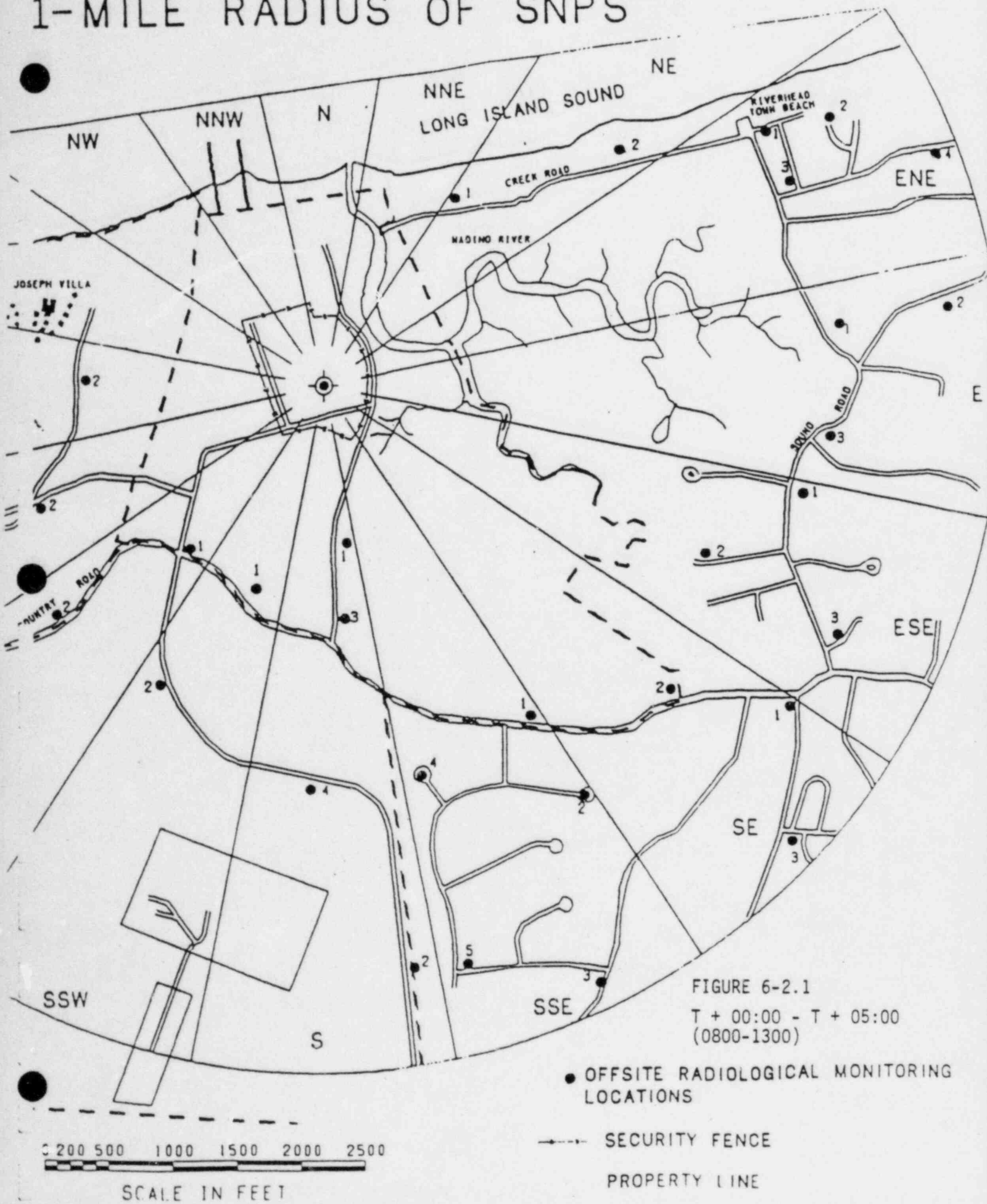
SE

NNL

NE

CCE

1-MILE RADIUS OF SNPS



1-MILE RADIUS OF SNPS

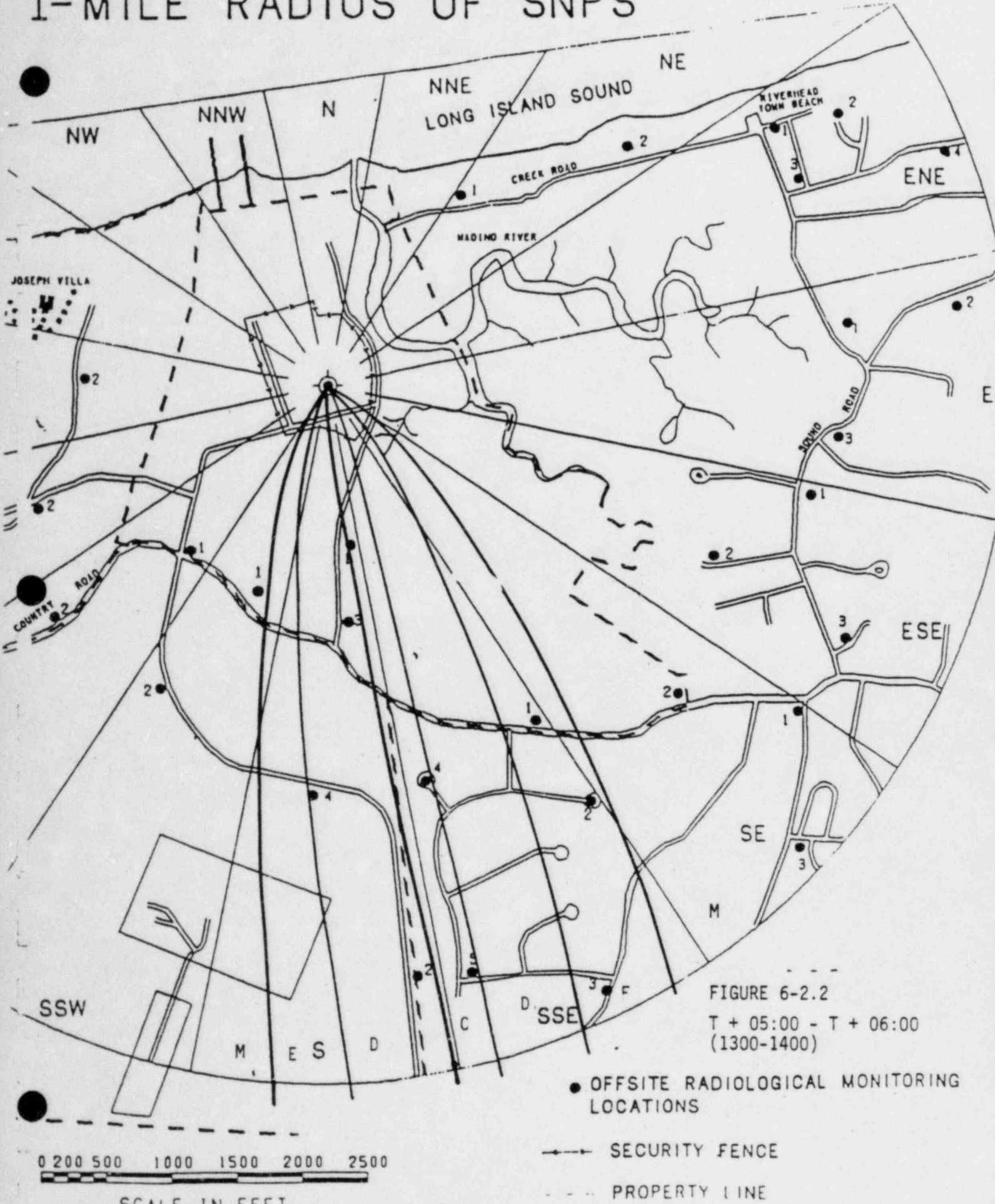


FIGURE 6-2.2
T + 05:00 - T + 06:00
(1300-1400)

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- SECURITY FENCE
- PROPERTY LINE

1-MILE RADIUS OF SNPS

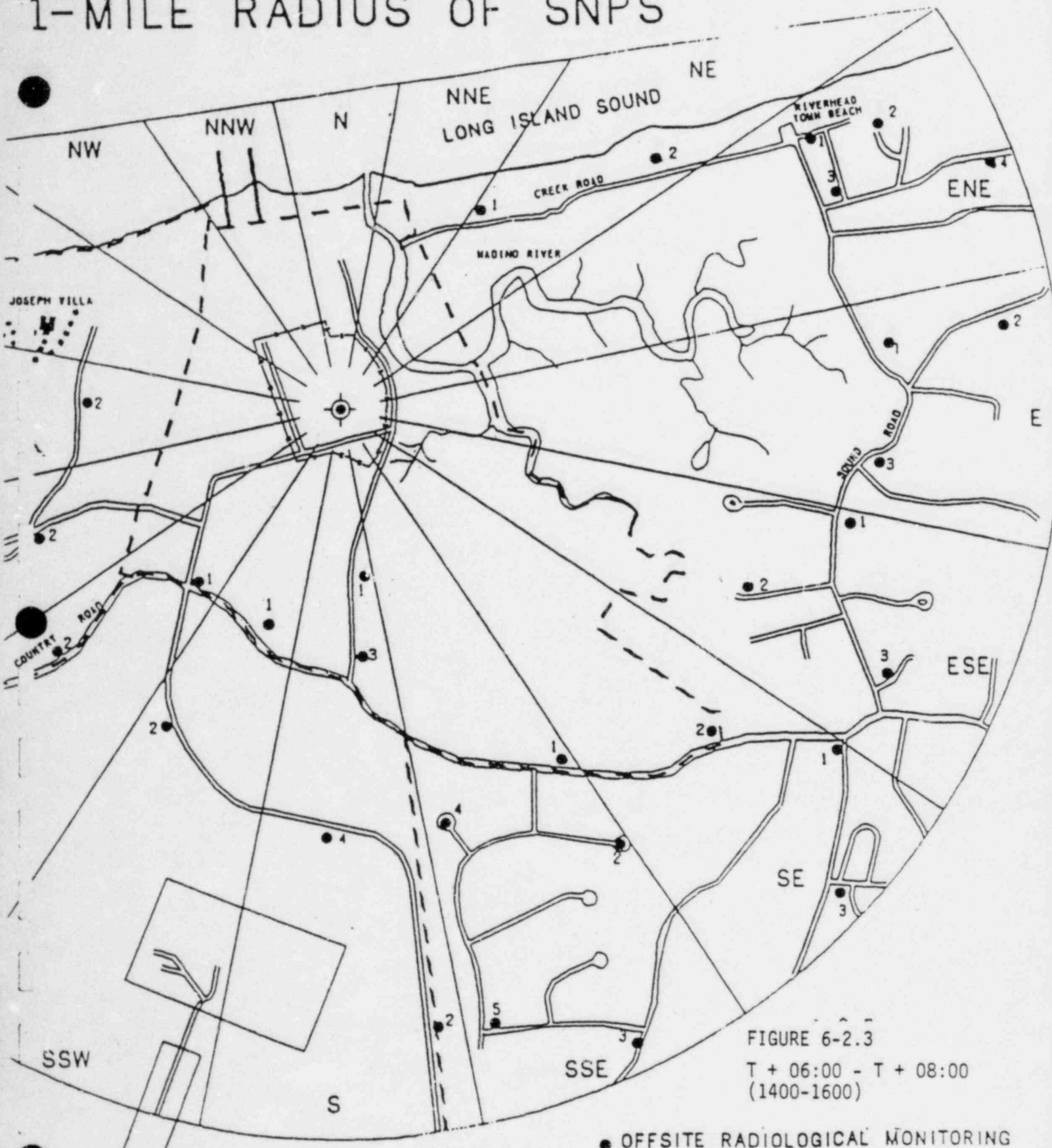
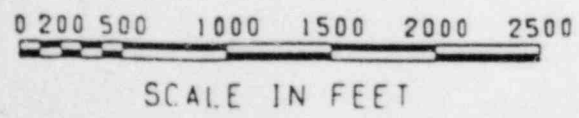


FIGURE 6-2.3
T + 06:00 - T + 08:00
(1400-1600)

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- +— SECURITY FENCE
- - - PROPERTY LINE



SHUTLEHAM NUCLEAR POWER STATION
EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

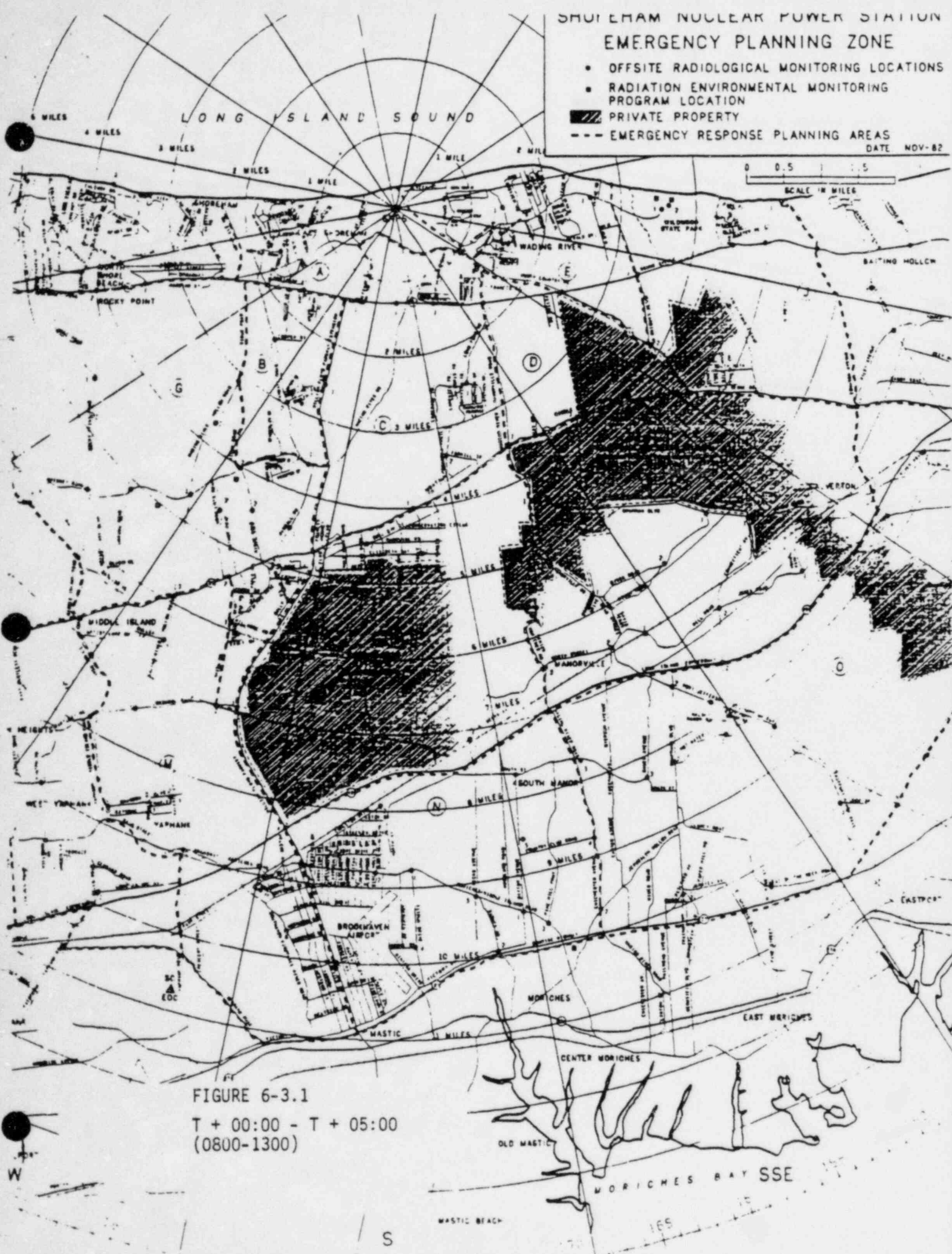


FIGURE 6-3.1
T + 00:00 - T + 05:00
(0800-1300)

S

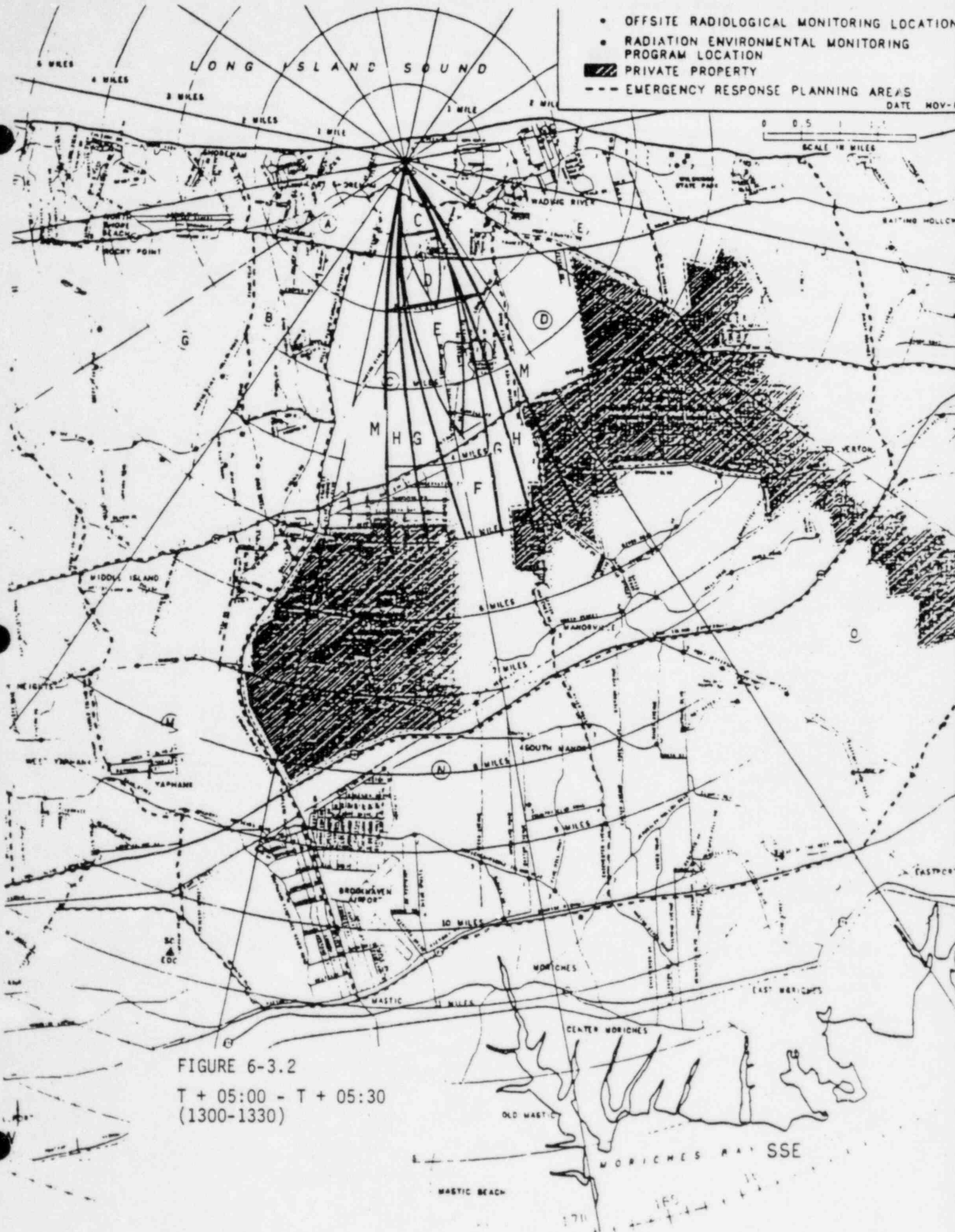
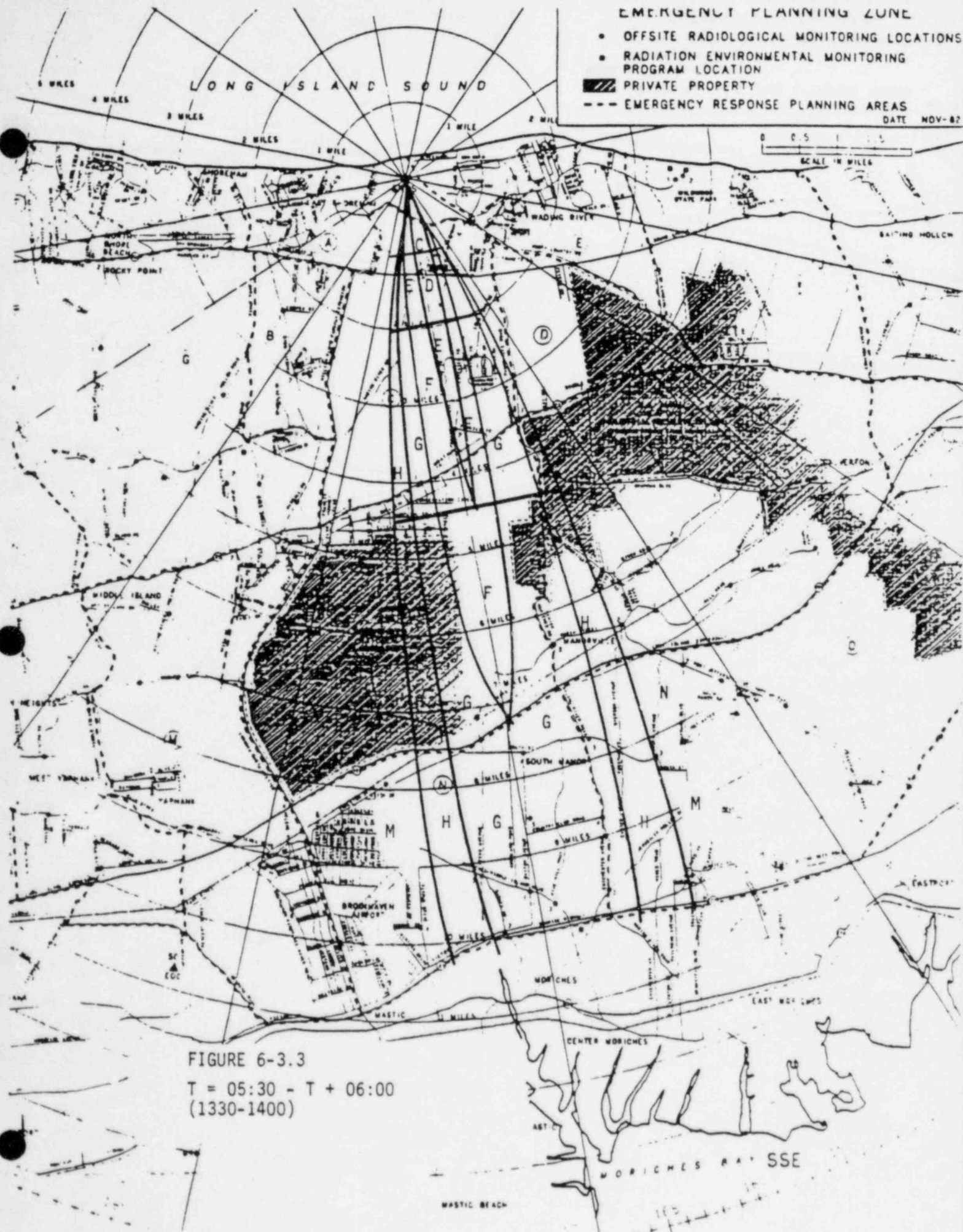


FIGURE 6-3.2
 T + 05:00 - T + 05:30
 (1300-1330)



EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-62

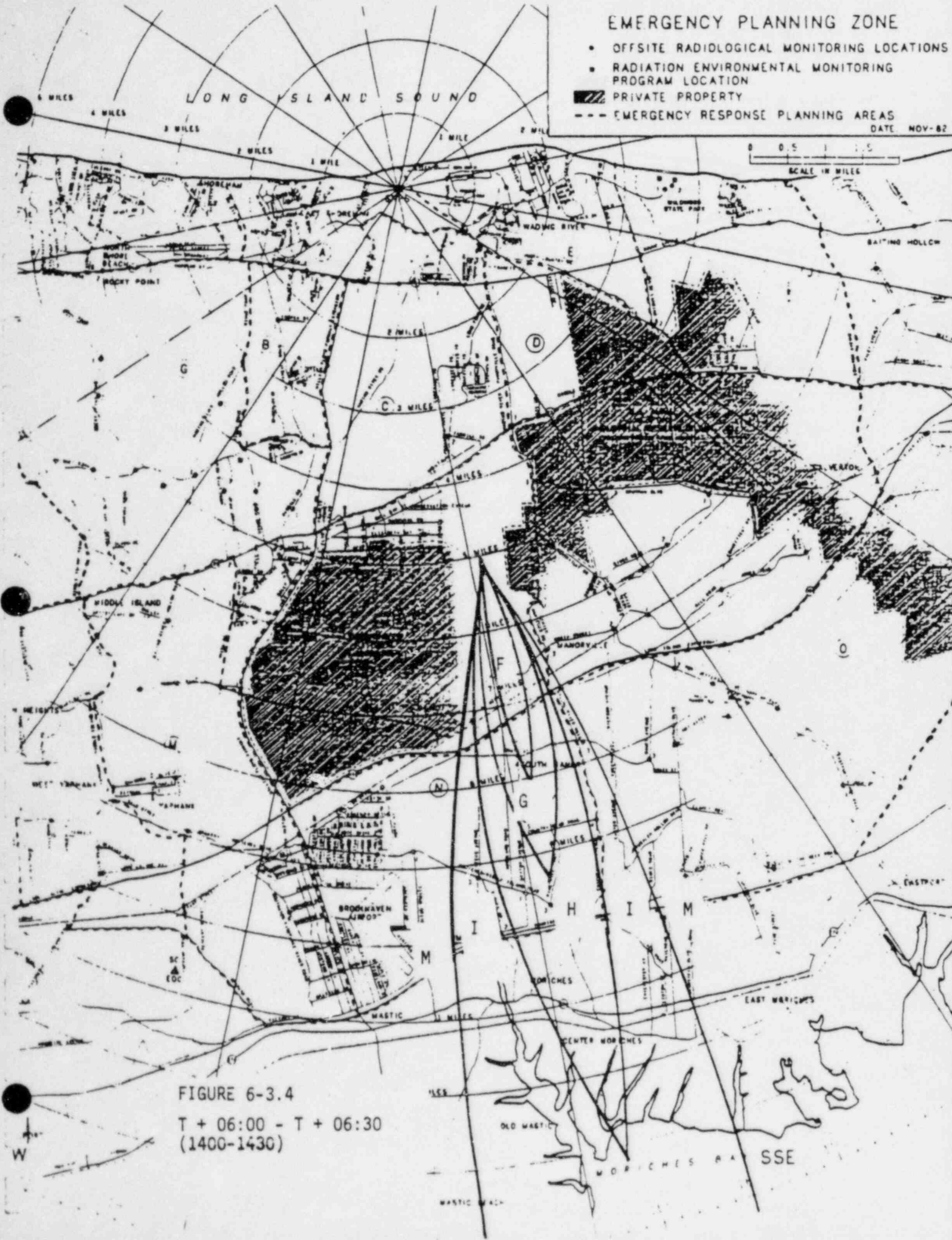
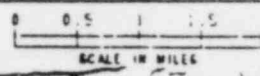


FIGURE 6-3.4
T + 06:00 - T + 06:30
(1400-1430)

W

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

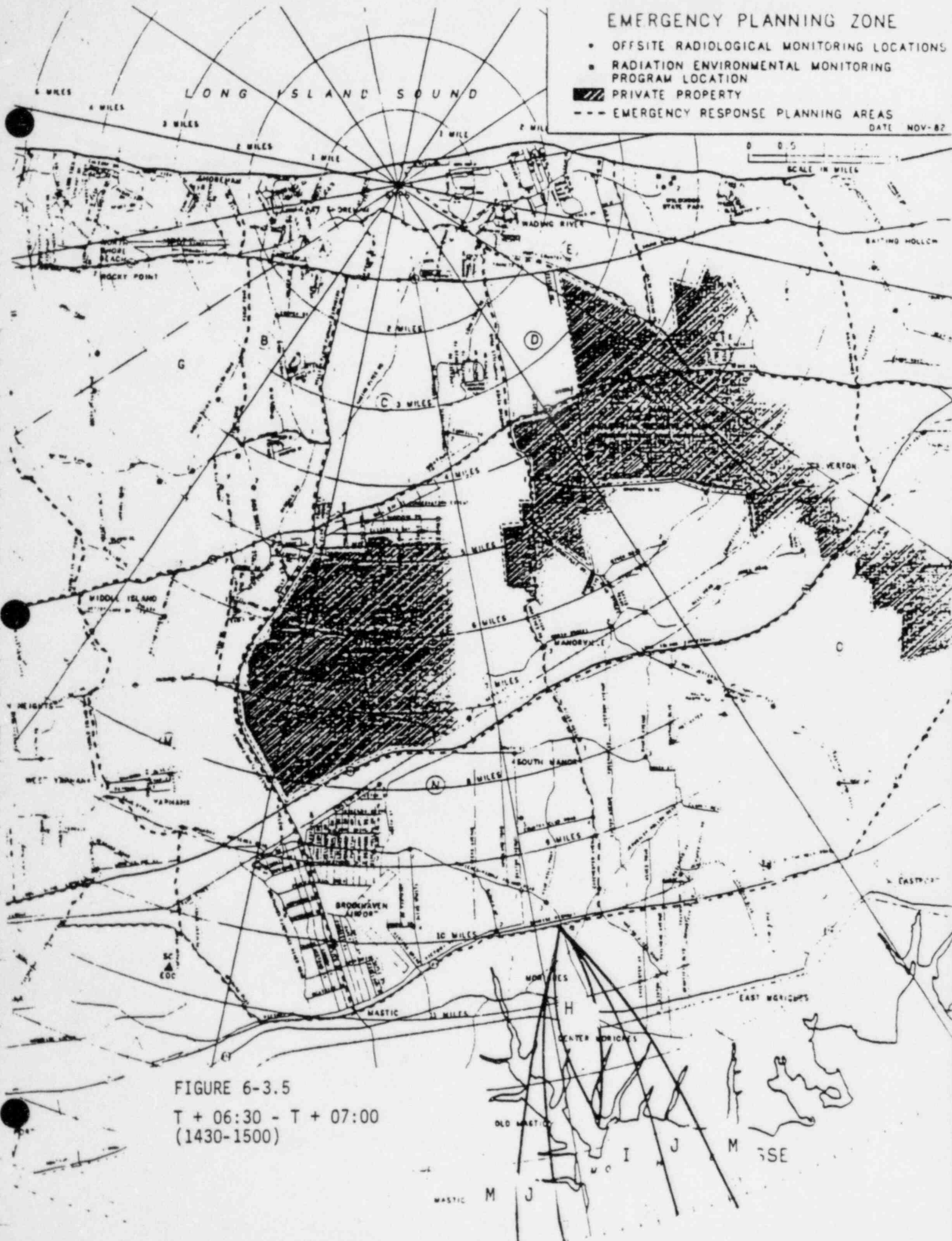
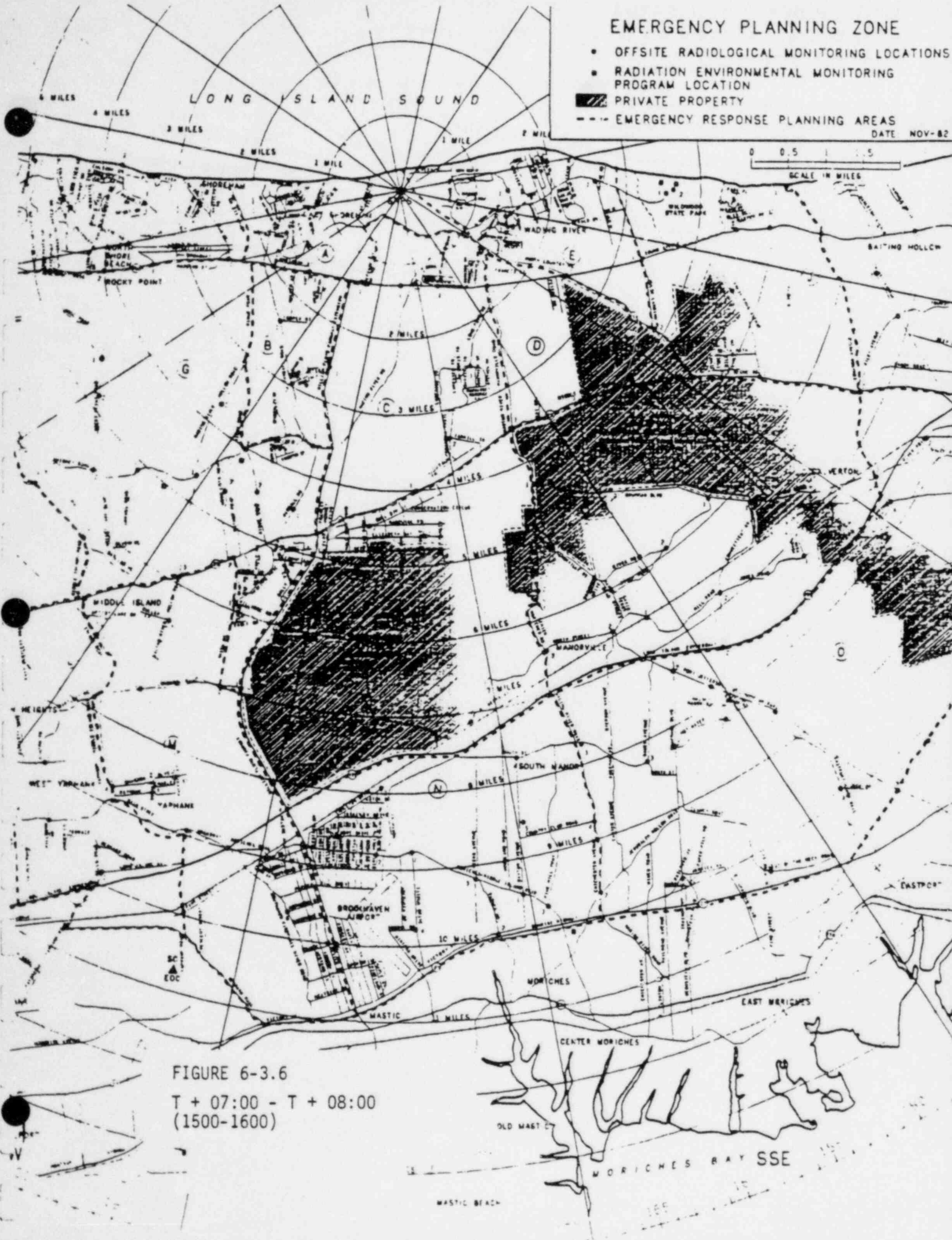
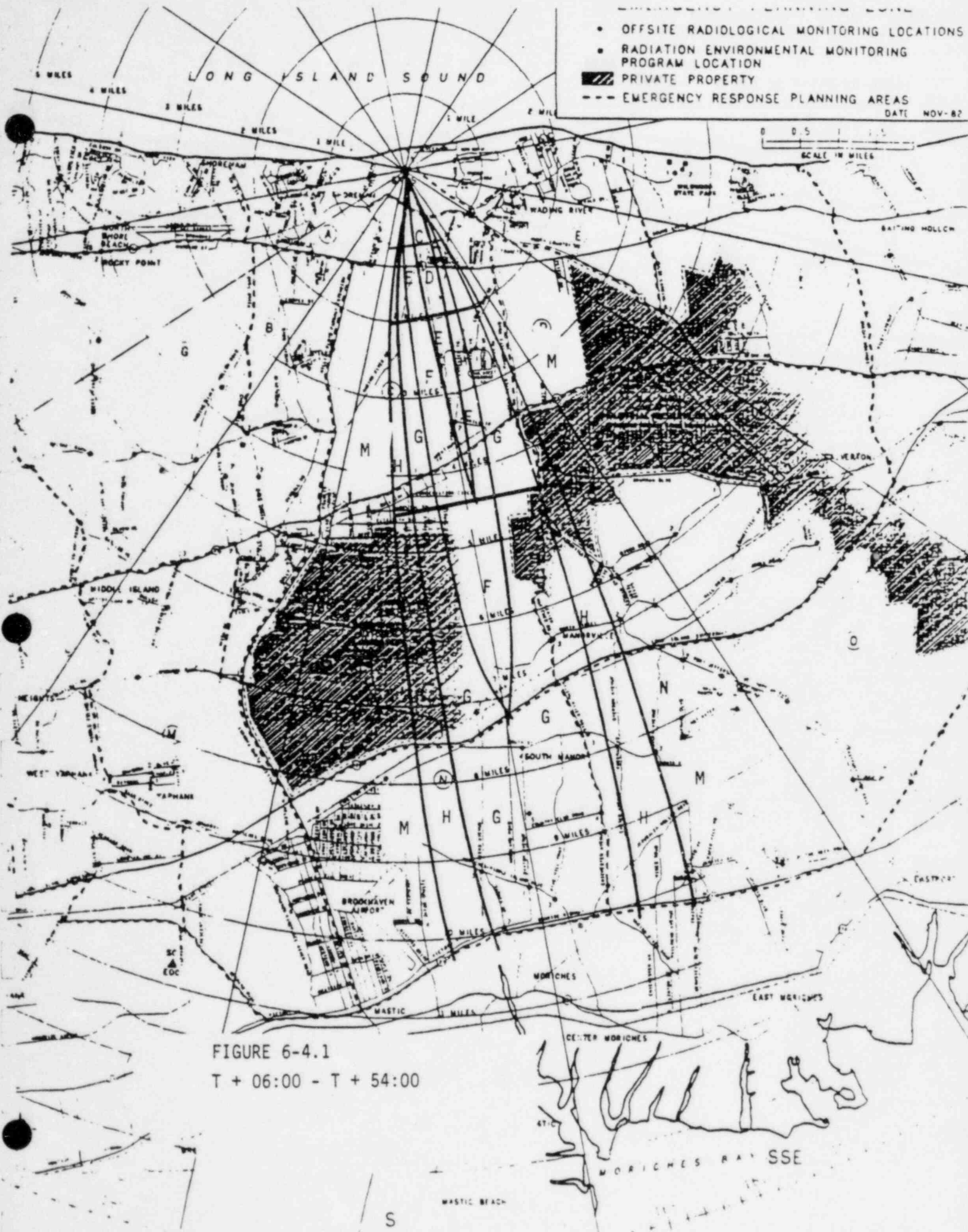


FIGURE 6-3.5
T + 06:30 - T + 07:00
(1430-1500)

MASTIC

6SE





7.0 CONTROLLER/OBSERVER INSTRUCTIONS

Exercise Controller/Observer Conduct

- A. Each Controller/Observer should be familiar with the following:
 - 1. The basic objectives of the exercise.
 - 2. The assumptions and precautions being taken.
 - 3. The exercise scenario, including the initiating events and the expected course of action to be taken.
 - 4. The various locations that will be involved and the specific items to be observed when at those locations.
- B. Controllers/Observers are assigned to various locations as indicated in this section.
- C. If Controllers are to provide information via "cue cards," (e.g., initiating events, instrument readings, monitoring results, etc.) to the drill participants, the information must be provided exactly as and when prescribed. Failure to provide information appropriately may invalidate the results of the drill.
- D. Controllers/Observers shall maintain an accurate chronological record of activities for the locations observed.

A Lead Exercise Controller has been designated for this drill. Those Controllers responsible for initiating an action should coordinate their action times closely with the Lead Controller. Provisions will be made available for necessary communications with this designated individual should scenario variations warrant.
- E. The Controller/Observer must remain cognizant of all the events and circumstances at their assigned locations. These should include, but not be limited to: Participants' actions and reactions, communications methods and record keeping, chain of command, equipment performance and the overall ability to interface with other emergency facilities.
- F. Controller/Observers should record all times (both start and finish), actions and comments or suggestions, as complete and precise as possible, in a chronological order.
- G. Significant items, both major deficiencies and strong performance points, should be highlighted upon occurrence and condensed for presentation in the subsequent critique.

Precautions and Limitations

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

- A. Should, at any time during the course of the conduct of this drill, an actual emergency situation arise, all activities and communications related to the drill will be suspended. It will be the responsibility of any Drill Controller or Observer that becomes aware of an actual emergency to suspend drill response in his/her immediate area and to inform the Lead Drill Controller of the situation. Upon notification of an actual emergency, the Lead Drill Controller will notify all other Controllers/Observers to suspend all drill activities.
- B. Should, at any time during the course of the conduct of this drill, a Drill Controller or Observer witness a drill participant undertake any action which would, in the opinion of the Controller/Observer, place either an individual or component in an unsafe condition, the Controller/Observer is responsible for intervening in the individuals actions and terminating the unsafe activity immediately. Upon termination of the activity, the Controller/Observer is responsible for contacting the Lead Drill Controller and informing him of the situation. The Lead Drill Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the drill.
- C. Pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems, is not to occur in response to any simulated fires during this drill.
- D. Manipulation of any plant operating system, valves, breakers or controls in response to this drill are only to be simulated. There is to be no alteration of any plant operating equipment, systems or circuits during the response to this drill.
- E. All telephone communications, radio transmissions and public address announcements related to the drill must begin and end with the statement, "This is a drill." Should a Controller or Observer witness a drill participant not observing this practice, it is the Controllers/Observers responsibility to remind the individual of the need to follow this procedure.

- F. Any motor vehicle response to this drill whether it be ambulance, fire fighting equipment, security vehicles or field monitoring teams, should observe all normal motor vehicle operating laws including posted speed limits, stop lights/signs, one way streets, etc.
- G. Drill participants are to inject as much realism into the drill as is consistent with its safe performance, however, caution must be used to prevent overreaction.
- H. Care must be taken to assure that any non-participating individuals who may observe drill activities or overhear drill communications are not misled into believing that an actual emergency exists. Any Drill Controller or Observer who is aware of an individual or group of individuals in the immediate vicinity who may have become alarmed or confused about the situation, should approach that individual or group and explain the nature of the exercise and its intent.

Drill Evaluation

<u>Area Evaluated</u>	<u>Monitors Rating</u>					
<u>A. Activation and Response</u>						
1. Was the activation/initiation efficient and organized?	5	4	3	2	1	N.O.
2. Were personnel familiar with their responsibilities and respond in a timely manner?	5	4	3	2	1	N.O.
3. Was the person in charge clearly identifiable?	5	4	3	2	1	N.O.
4. Was the transfer of responsibilities accomplished effectively and efficiently?	5	4	3	2	1	N.O.
<u>B. Communications</u>						
1. Were all required and specified communications circuits operable?	5	4	3	2	1	N.O.
2. Were personnel familiar with communications available and the intended use of each?	5	4	3	2	1	N.O.
3. Were there sufficient personnel to conduct communications tasks?	5	4	3	2	1	N.O.
4. Was incoming information effectively and efficiently distributed to appropriate personnel?	5	4	3	2	1	N.O.
5. Were periodic updates made by the senior individual?	5	4	3	2	1	N.O.
6. Were accurate communication logs kept?	5	4	3	2	1	N.O.
7. Were the status boards properly utilized and updated?	5	4	3	2	1	N.O.
8. Did individuals in charge spend an inordinate amount of time on communications, such that their attention was diverted from the incident? (No = 5, Yes = 1)	5	4	3	2	1	N.O.

Area Evaluated

Monitors Rating

- | | | | | | | |
|---|---|---|---|---|---|------|
| 9. Were the correct private lines used and did non-emergency communications interfere with emergency transmissions? (No = 5, Yes = 1) | 5 | 4 | 3 | 2 | 1 | N.O. |
| 10. Were logs used effectively by personnel to review past events and to trend data? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 11. Were appropriate communications techniques followed? (Phonetic alphabet, sign-on, sign-off, no abbreviations or acronyms) | 5 | 4 | 3 | 2 | 1 | N.O. |

C. Procedures

- | | | | | | | |
|--|---|---|---|---|---|------|
| 1. Were personnel generally familiar with the relevant procedures? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Were procedures followed? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. Were personnel so overwhelmed with procedural requirements that they were distracted from the appropriate response? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 4. Were the procedures appropriate? | 5 | 4 | 3 | 2 | 1 | N.O. |

D. Direction and Control

- | | | | | | | |
|--|---|---|---|---|---|------|
| 1. Could the response be categorized as a team effort or a group of individual efforts? (Team = 5, Individuals = 1) | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Was there an effective mechanism for resolving differences of opinion regarding technical issues and actions to be taken? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. Was there excessive noise and loitering in the response facility? (No = 5, Yes = 1) | 5 | 4 | 3 | 2 | 1 | N.O. |

E. Material and Equipment

- | | | | | | | |
|---|---|---|---|---|---|------|
| 1. Was all the required material and equipment available? | 5 | 4 | 3 | 2 | 1 | N.O. |
|---|---|---|---|---|---|------|

Area EvaluatedMonitors Rating

- | | | | | | | |
|--|---|---|---|---|---|------|
| 2. Did personnel check to ensure that all equipment was available and functional early in the activation process? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. If equipment was inoperable or failed in use, were appropriate actions taken to resolve the deficiency? (spares/ backup equipment) | 5 | 4 | 3 | 2 | 1 | N.O. |
| 4. Were there any situations in which the lack of equipment, or a lack of ability to operate the equipment, prevented personnel from completing their tasks? (No = 5, Yes = 1) If so, please indicate details. | 5 | 4 | 3 | 2 | 1 | N.O. |
| 5. Were there any situations in which additional equipment or materials, or different types of equipment could have made the activity more effective? (No = 5, Yes = 1) If so, please indicate details. | 5 | 4 | 3 | 2 | 1 | N.O. |
| 6. Could the area support the personnel assigned to it? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 7. Were there sufficient resource materials readily available to support the conduct of the response? (maps, reference documents, copies of plans and procedures, data sheets, etc.) | 5 | 4 | 3 | 2 | 1 | N.O. |

F. Protective Measures

- | | | | | | | |
|--|---|---|---|---|---|------|
| 1. Were appropriate protective measures implemented for response personnel? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Did personnel properly wear protective clothing and dosimetry? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. Were appropriate radiological practices observed? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 4. Were field personnel kept apprised of radiological conditions? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 5. Were response activities conducted with regard for personnel safety, consistent with the need to complete the activity? | 5 | 4 | 3 | 2 | 1 | N.O. |

Area Evaluated

Monitors Rating

G. Access Control

- | | | | | | | |
|---|---|---|---|---|---|------|
| 1. Was an appropriate access control posture established? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Was there an identifiable system implemented that effectively identified authorized personnel within the facility? | 5 | 4 | 3 | 2 | 1 | N.O. |

H. Summary

1. Describe any problems noted by the area being evaluated. Provide a description of the problem, its outcome or effect and any recommended corrective courses of action to alleviate or correct the deficiency. Any of the previously listed areas that receive an evaluation grade of 2 or 1 require a written explanation on this page.

Evaluators Signature / Date

Evaluation Standards

- "5" Excellent - Personnel and equipment always functioned without error. There were no problems encountered and all personnel and equipment functioned at a superior level.
- "4" Good - Personnel and equipment generally performed as expected. Any errors or problems were minor and did not detract from completion of the task.
- "3" Satisfactory - Personnel and equipment performed at an acceptable level. Errors noted were not severe and completion of the task was achieved within acceptable limits.
- "2" Poor - Personnel and equipment generally performed below expectations. There were deficiencies of a significant nature. The areas ability to carry out its function was diminished.
- "1" Failure - Personnel and equipment consistently failed to perform as required. Acceptable completion of the task was not achieved.
- N.O. Not Observed

8.0 GLOSSARY

A - Glossary of Terms

Brief definitions of many of the terms used in this plan are given here. For more exact and detailed information, standard reference works can be consulted.

Absorbed Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Airborne Radioactive Material: Any radioactive material dispersed in the air in the form of dusts, fumes, mists, vapors or gases.

Alpha Particle: Positively charged particles identical with the nuclei of helium atoms. They penetrate tissues to usually less than 0.1 mm (1/250 inch), but create dense ionization and heavy absorbed doses along these short tracks.

Background Radiation: Radiation arising from material other than the one directly under consideration. Cosmic rays and natural radioactivity are always present, and man-made sources may also contribute to the background radiation level.

Beta Particles: Electrons ejected from the nuclei of atoms; extremely tiny bits of matter traveling at nearly the speed of light. Their range in air can be several feet. In heavier material, such as the human body, they expend their energy within about 2 mm (1/10 inch).

Contamination (Radioactive): Deposition of radioactive material in any place where it may harm persons, spoil experiments or make products of equipment unsuitable or unsafe for some specific use. The presence of unwanted radioactive matter.

Decay: Disintegration of the nucleus of the radionuclide in a radioactive process.

Decay Product: A nuclide, either radioactive or stable, resulting from the disintegration of a radioactive material.

Decontamination: The reduction or removal of contaminating radioactive material from a structure, area, object or person.

Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Dose Equivalent: A quantity that expresses all types of nuclear radiation on a common scale to indicate relative biological effects. The rem is the unit of dose equivalent.

Dose Rate: Absorbed dose delivered per unit time, as rads per seconds or rads per hour.

Dosimeter: A device that measures radiation dose, such as a film badge or ionization chamber.

Emergency Director: A highly trained individual totally responsible for directing onsite actions during an emergency at the nuclear plant site. Position occupied by the Shift Supervisor until relieved by a higher ranking individual.

Emergency Operations Facility: A facility operated by the licensee for the purpose of evaluating and controlling emergency situations and coordinating emergency responses.

Emergency Planning Zone (EPZ): The area surrounding the nuclear plant site for which planning has been done to assure that prompt and effective actions can be taken to protect the public in the event of a radiological incident. The EPZ is usually a radius of about ten (10) miles for the plume exposure pathway and a radius of about fifty (50) miles for the ingestion exposure pathway.

Evacuation: The process of removing people from a hazardous or potentially hazardous area to a safe area.

Evacuation Time Estimate: The roadway travel time required to leave the plume exposure emergency planning zone after mobilization has been completed.

Exposure: A measure of the ionization produced in air by X-ray or gamma radiation. The roentgen (R) is the unit of exposure. The term "dose" sometimes used interchangeably with exposure, actually refers to absorbed radiation.

Film Badge: A light-tight package of photographic film worn like a badge by workers in the nuclear industry or research, used to measure possible exposure to ionizing radiation. The absorbed dose can be calculated by the degree of film darkening caused by the irradiation.

Gamma Rays: Electromagnetic radiation comparable to light. They are similar to X-rays except for their origin. They are emitted with energies characteristic of each nuclide, and many are highly penetrating. Although their intensity decreases exponentially with thickness of the absorbing material, they can travel hundreds of feet in air and penetrate completely through the body.

General Population: People permanently residing within the plume exposure emergency planning zone (not including residents of nursing homes and long-term health-care facilities).

Geiger-Muller Counter (Geiger-Muller Tube): A radiation detection and measuring instrument. It consists of a gas-filled (Geiger-Muller) tube containing electrodes, between which there is an electrical voltage but not current flowing. When ionizing radiation passes through the tube, a short intense pulse of current passes from the negative electrode to the positive electrode and is measured or counted. The number of pulses per second measures the intensity of radiation. It is also often known as a Geiger Counter.

Incident: An occurrence that results in the loss of control of radioactive materials and involves a potential hazard to life, health or property.

Ingestion Exposure Pathway (50-mile EPZ): For planning purposes, the area within about a fifty (50) mile radius surrounding a nuclear plant site. The principal exposure from this pathway would be from the ingestion of contaminated water or foods.

Internal Radiation: Radiation (including alpha and beta particles and gamma radiation) resulting from radioactive substances within the body.

Isotopes: Forms of the same element having identical chemical properties but differing in their atomic masses. A radioisotope is an unstable isotope of an element that decays or disintegrates spontaneously, emitting radiation.

Local Emergency Operations Center: A location at the headquarters of each offsite response agency or some other designated location that may be used to direct the action taken by designated agencies under its jurisdiction during an emergency at the Shoreham Nuclear Power Station.

Millirem (mrem): One-thousandth (1/1000) of a rem.

Milliroentgen (mR): One-thousandth (1/1000) of a Roentgen.

Monitoring, Radiological: The operation of locating and measuring radioactive contamination by means of survey instruments that can detect and measure (as dose rates) ionizing radiations.

Nuclear Reactor: A device in which a fission chain reaction can be initiated, maintained, and controlled. Its essential component is a core with fissionable fuel.

Plume Exposure Pathway (10-mile EPZ): For planning purposes, the area within a ten (10) mile radius surrounding a nuclear plant site. The principal exposure sources from this pathway are: (a) whole body exposure to gamma radiation from the plume and from deposit material, and (b) inhalation exposure from the passing radioactive plume.

Protective Action Guide: The projected radiological dose, or dose commitment, values to individuals in the general population which warrants a protective action response following a release of radiological material.

Rad: The unit of absorbed dose in body tissue or other material.

Radiation Area: Any accessible area in which the level of radiation is such that a major portion of an individual's body could receive, in any one hour, a dose in excess of 5 millirem, or in any 5 consecutive days, a dose in excess of 100 millirem.

Radioactivity: The property of certain nuclides of spontaneously emitting nuclear particles or gamma or X-ray radiation, or of undergoing spontaneous fission.

Radioassay: The analysis of any substance (food, water, soil, etc.) to determine the presence and magnitude of radioactive contamination.

Radiological: A general term referring to processes that involve nuclear radiation.

Relocation Center: A pre-designated facility outside the plume exposure emergency planning zone at which evacuees can receive directions to congregate care centers, reunite with others, receive general information and, if necessary, receive radiological monitoring and decontamination and provide temporary housing, food and other necessities to evacuees needing them.

Release: Escape of radioactive materials into the environment.

Rem: The unit of radiation dose affecting body tissue. It is equal to the absorbed dose (measured in rads) multiplied by the quality factor (which takes into account the effectiveness of different types of radiation) and by other multiplying factors. For beta and gamma radiation the quality factor is 1.

Roentgen (R): The unit of radiation exposure in air. Roentgens are the units for quantities of X-ray or gamma radiation measured by detection and survey meters.

Scenarios: Time-based characterizations of plume exposure emergency planning zone populations and their variations by time of day, day of week and season.

Shelter: A structure or other location offering shielding from nuclear radiation in the environment.

Shielding: Any material or barrier that attenuates radiation.

Site Boundary: Area surrounding the nuclear plant site in which the Nuclear Facility Operator (NFO) has the authority to determine and control all activities including exclusion or removal of personnel and property from the area.

Source Term: A particular type or amount of radionuclide originating at the source of a nuclear incident. In its broadest sense, source term also describes the conditions and mode of emission.

Special Facility: Institution or location having either a residential population of fifteen or more people or having sizeable, but temporary, attendance at predictable times (e.g., nursing homes, hospitals, schools, parks).

Survey Meter: A portable instrument used in radiological monitoring to detect and measure ionizing radiation.

Thermoluminescent Dosimeter: A dosimetry badge worn by workers in the nuclear industry or research, used to measure possible exposure to ionizing radiation. It is characteristic of thermoluminescent material that radiation causes internal changes which make the material, when subsequently heated, give off an amount of light directly proportional to the radiation dose, which can be measured.

Thyroid Exposure: Exposure of the thyroid gland to radiation from radioactive isotopes of iodine which have been either absorbed or ingested.

Traffic Zone: A sub-division of an emergency response planning area associated with one specified primary evacuation route and particular reception center.

Transient Population: Those people who are only temporarily in, but do not permanently reside in, the plume exposure emergency planning zone.

Transient-dependents: People without access to an automobile for the purpose of leaving the plume exposure emergency planning zone at the time of an evacuation.

Whole Body Counter: A device used to identify and measure the radiation in the body (body burden) of human beings and animals; it uses heavy shielding to keep out background radiation and ultrasensitive scintillation detectors and electronic equipment.

ATTACHMENT 6

[Redacted]



[Redacted]

LONG ISLAND LIGHTING COMPANY
INTEGRATED SNPS/LERO DRILL
EOF/EOC ACTIVATION
(Rev. 0)

Prepared by:
IMPELL Corporation
January, 1984

INTEGRATED SNPS/LERO DRILL SCENARIO

Section 1.0	Objectives and Guidelines
Section 2.0	Date/Time/Locations/Participants
Section 3.0	Drill Scenario - Narrative Summary - Event Schedule
Section 4.0	Messages
Section 5.0	Plant Status Information
Section 6.0	Radiological Information
Section 7.0	Observer/Controller Instructions
Section 8.0	Glossary

Submitted by: _____ Date _____
Emergency Planning Coordinator

APPROVALS:

CAUTION

**APPROVALS MUST BE SIGNED AT LEAST 24 HOURS
BEFORE ANY EXERCISE OR DRILL MAY BE PERFORMED.**

_____ Date _____
Manager of LERO

1.0 OBJECTIVES AND GUIDELINES

The Emergency Operations Facility (EOF) and the Emergency Operations Center (EOC) will be involved in this drill. The Control Room (CR), Technical Support Center (TSC), Staging Areas, EWDC, ENC and Relocation Centers will be simulated. Lines of communication will be tested. Activation procedures in the EOC and EOF will be tested. Protective action recommendations will be made by both the EOF and EOC and implemented.

2.0 DATE/TIME/LOCATIONS/PARTICIPANTS

Dates/Time:

January 17, 1984 - 5:00 p.m. to 11:00 p.m., Shift #1
January 24, 1984 - 5:00 p.m. to 11:00 p.m., Shift #3
February 1, 1984 - 5:00 p.m. to 11:00 p.m., Shift #2

Locations:

EOF - Hauppauge Training Center
EOC - Brentwood Operations Center

Participants:

All personnel assigned to the following jobs will attend.

<u>Job No.</u>	<u>Job Title</u>	<u>LERO Reporting Location</u>
01	Director - LERO	EOC - Brentwood
02	Manager - LERO	EOC - Brentwood
03A	Lead Communicator	EOC - Brentwood
03B	RECS Communicator	EOC - Brentwood
03C	Emergency Medical Communicator	EOC - Brentwood
03D	Radiation Health Communicator	EOC - Brentwood
03E	Traffic Control Communicator	EOC - Brentwood
03F	Transportation Communicator	EOC - Brentwood
04	Support Services Coordinator	EOC - Brentwood
05	Health Services Coordinator	EOC - Brentwood
07A	Dosimetry Coordinator	EOC - Brentwood
07B	Dosimetry Record Keeper	EOC - Brentwood
08	Security Coordinator	EOC - Brentwood
09A	Emergency Medical Coordinator	EOC - Brentwood
09B	Hospital Coordinator	EOC - Brentwood
09C	Public Service Liaison	EOC - Brentwood
09D	Ambulance Coordinator	EOC - Brentwood
10A	Traffic Control Coordinator	EOC - Brentwood
10B	Traffic Control Point Coordinator	EOC - Brentwood
10C	Road Logistics Coordinator	EOC - Brentwood
10D	Evacuation Route Coordinator	EOC - Brentwood
11A	Transportation Support Coordinator	EOC - Brentwood
11B	Bus Coordinator	EOC - Brentwood
12	Evacuation Coordinator	EOC - Brentwood
13	Administrative Support	EOC - Brentwood
14	Maintenance	EOC - Brentwood
15	Logistics Support Coordinator	EOC - Brentwood
18A	Security - EOC	EOC - Brentwood
28A	Special Facilities Coordinator	EOC - Brentwood

<u>Job No.</u>	<u>Job Title</u>	<u>LERO Reporting Location</u>
28B	Public Schools Coordinator	EOC - Brentwood
28C	Private Schools Coordinator	EOC - Brentwood
28D	Health Facilities Coordinator	EOC - Brentwood
28E	Home Coordinator	EOC - Brentwood
31A	Coordinator of Public Information	EOC - Brentwood
31B	Public Information Support Staff	EOC - Brentwood
31C	Public Information Communicator	EOC - Brentwood
--	Radiation Health Coordinator	EOC - Brentwood

3.0 DRILL SCENARIO

A. NARRATIVE SUMMARY

The initial conditions for the scenario are postulated upon a feedwater controller signal failure. Emergency diesel generator 102 is tagged out for maintenance.

The initiating event for the scenario will be a single feedwater controller signal failing high, thus increasing the speed of the feedpump turbine. Excess feedwater flow to the vessel and a reactor pressure vessel high water level trip will result. A scram will be initiated with intermittent safety relief valve actuation to relieve vessel overpressurization.

Based upon a power supply failure an alert will be declared. Eventual classification of the event as a Site Area Emergency is based upon a pipe break in the steam supply line to the HPCI turbine without isolation. Following the break, rapid RPV depressurization occurs. Reactor coolant makeup demand will be provided by the low pressure emergency core cooling systems (LPCI and CS).

Subsequent operational failures combine to compound the situation to the degree that a General Emergency will be declared. Lightning strikes the station switchyard causing extensive transformer damage resulting in a total loss of offsite power. Emergency diesel generator 101 auto-starts diesel generator 103 fails to start. The operable diesel generator, however, fails shortly thereafter due to a ruptured fuel line, which in turn results in a fire in the vicinity of the diesel.

As a result of the loss of all A-C power, the LPCI and Core Spray pumps are disabled. RPV level falls below the top of the active fuel (TAF). Fuel assemblies are exposed and damaged causing severe radiological releases through the pipe break, the RBSYS and eventually the station exhaust duct.

Eventually, the problem with diesel generator 103 is resolved and the diesel is started. LPCI injection flow is restored and RPV inventory is replenished. HPCI turbine steam supply isolation valves respond to signal and close, thus isolating the break. In addition, offsite power is restored. These events result in a termination of the radiological release and stabilization of plant conditions. The remaining scenario events involve recovery/re-entry activities.

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = 00:00 (1700)	1	<p>The unit is operating at 100% power and at full load. All plant parameters are normal and stable.</p> <p>Diesel Generator 102 is tagged-out for maintenance.</p> <p>The winds are from the NNW (337^o) at 10 mph. The temperature is 32^o F. Thunder showers are forecasted for the Eastern Long Island area.</p>
T = 00:15 (1715)	2	<p>The reactor scrams on a Turbine Trip (HPCI, RCIC, Turbine Trip @ + 54 1/2").</p> <p>Intermittent SRV activation to relieve RPV overpressurization occurs.</p>
T = 00:25 (1725)	3	<p>The RPV high water level trip was apparently caused by a feedwater controller signal failing high, thus increasing the speed of the feedpump turbine.</p> <p>Attempts at feedwater pump restart and operation in the manual control mode are unsuccessful.</p>
T = 00:40 (1740)	4	<p>As a result of Decay Heat Removal via bypass valves, RPV water level has reached the lo-level setpoint and is decreasing.</p> <p>ECCS permissive logic is initiated.</p>
T = 00:55 (1755)	5	<p>HPCI/RCIC initiation occurs on a lo-lo RPV water level signal.</p>
T = 01:05 (1805)	6	<p>Loss of all Control Room Annunciators due to power supply problem.</p>
T = 01:10 (1810)	7	<p>Based on plant conditions <u>alert</u> has been declared.</p>
T = 01:50 (1850)	9	<p>Annunciators power supply is repaired.</p>

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = 01:55 (1855)	10	<p>The HPCI turbine steam supply line suffers a complete guillotine break. Break isolation logic fails, the break is unisolable. Water and steam are rushing from the break into the Reactor Building. Reactor building ARMs in the vicinity of the break are alarming.</p> <p>RPV pressure is rapidly decreasing.</p>
T = 02:10 (1910)	10-C	<p>Conditions warrant that a <u>Site Area Emergency</u> be declared at this time.</p>
T = 02:10 (1910)	12	<p>RPV water level reaches the 10-10-10 level setpoint.</p> <p>Diesel generator 101 auto-starts. Diesel generator 103 malfunctions and does not start.</p> <p>LPCI and Core Spray pumps auto-start and begin restoration of RPV coolant inventory.</p>
T = 02:25 (1925)	17	<p>RPV water level is responding to LPCI/CS flow.</p>
T = 02:40 (1940)	19	<p>Lightning strikes the station switchyard causing extensive transformer damage resulting in a loss of offsite power.</p> <p>LPCI and Core Spray pumps trip as a result of the loss of offsite power. Diesel generator 101 ties in on the emergency bus and restores all Division I power. LPCI and Core Spray operation is resumed; however, with RHR Pump "A" and Core Spray Pump "A" only.</p>
T = 03:05 (2005)	20	<p>Diesel generator 101 fails due to a ruptured fuel line; which in turn results in a fire in the vicinity of that diesel.</p> <p>All onsite AC power is lost. LPCI and Core Spray pumps are disabled.</p>
T = 03:10 (2010)	21	<p>RPV water level is not being maintained.</p>

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
		The fire in the vicinity of diesel generator 101 is under control.
T = 03:20 (2020)	19-C	Conditions warrant that a <u>General Emergency</u> be declared at this time.
T = 03:20 (2020)	22	RPV water level reaches the 10-10-10 level setpoint.
T = 03:25 (2025)	24	RPV water level is approaching TAF and decreasing.
		The fire in the vicinity of diesel generator 101 has been extinguished.
T = 03:35 (2035)	27	RPV water level is significantly below TAF. Fuel assemblies are exposed and damaged, causing severe radiological releases through the HPCI turbine steam supply line break.
T:03:55 (2055)	32	Attempts at restarting diesel generator 103 are successful. The diesel generator ties-in on the emergency bus and restores Division III power supply.
		RHR pumps "C" & "D" start, and provide LPCI flow to the RPV.
T = 04:05 (2105)	36	RPV water level begins to respond to LPCI flow.
T = 04:15 (2115)	42	RPV water level is above TAF and increasing.
T = 04:30 (2130)	50	HPCI turbine steam supply isolation valve MOV-041 responds to signal and closes. The pipe break has been isolated.
T = 04:45 (2145)	61	Station switchyard transformers have been repaired and offsite power has been restored.
T = 05:05 (2205)	67	Radioactive releases from the plant have been terminated.
T = 05:30 (2230)	70	RPV water level is stable.

Time (Hrs.:Mins)	Initiating Message Number	Event Summary
T = 05:30 (2230)	70-C	Conditions warrant that the emergency action level of <u>General Emergency</u> be downgraded and reduced to <u>Alert</u> status at this time.
T = 05:35 (+ 12 hours) (2235)	71	The radioactive plume has completely dispersed. In-plant decontamination activities are underway.
T = 06:00 (2400)	72	The drill is terminated.

Section 4.0 Messages

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 1

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 00:00 (1700 hours)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The unit is operating at 100% power and at full load. All plant parameters are normal and stable.

Diesel Generator 102 is tagged-out for maintenance.

The winds are from the NNW (337°) at 10 mph. The temperature is 32°F. Thunder showers are forecasted for the Eastern Long Island area.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 2

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 00:15 (1715)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

HPCI, RCIC, Main Turbine Trip at +54" High Rx Level.

The reactor scrams on a Turbine Trip (greater than 25%).
Intermittent SRV actuation to relieve pressure occurs.

Control Room Annunciators

ARP 1191 - Reactor Level Trip B
ARP 1207 - Reactor Level Trip A
ARP 1197 - Reactor Auto Scram Channel A1
ARP 1198 - Reactor Auto Scram Channel A2
ARP 1213 - Reactor Auto Scram Channel B1
ARP 1214 - Reactor Auto Scram Channel B2
ARP 0140 - Main Turbine Tripped
ARP 0212 - Unit Primary Protection Trip
ARP 1337 - Safety or Depress Valve leaking

Control Room Indicators

Indicator 603: All BLUE scram lights illuminated. All "full in"
control rod indication illuminated GREEN.

1B21*LI-004, Panel 602: +55 inches (decreasing)
1B21*PI-004, Panel 602: 1,110 psig

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 3

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 00:25 (1725)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The RPV high water level trip was apparently caused by a feedwater controller signal failing high, thus increasing the speed of the feedpump turbine.

Attempts at feedwater pump restart and operation in the manual control mode are unsuccessful.

Control Room Annunciators

ARP 387 - RFPT "B" TRIPPED
ARP 011 - RFPT "A" TRIPPED

Control Room Indicators

1B21*LI-004, Panel 602: +20 inches (decreasing)
1B21*PI-004 Panel 602: 1,080 psig (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 4

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 00:40 (1740)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

As a result of SRV blowdown and bypass valve operation, RPV water level has reached the lo-level setpoint and is decreasing.

ECCS permissive logic is initiated.

Control Room Annunciators

ARP-1348 (ADS Panel 602) - RX SYS "A" LO WATER LEVEL CONFIRMED
ARP-1349 (ADS Panel 602) - RX SYS "B" LO WATER LEVEL CONFIRMED

Control Room Indicators

1B21*LI-004, Panel 602: +11 inches (decreasing)
1B21*PI-004, Panel 602: 920 psig (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 5

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 00:55 (1755)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

HPCI/RCIC initiation occurs on a lo-lo RPV water level signal

Control Room Annunciators

ARP-1308 - RX VESSEL WAT LEVEL LO-LO.
RCIC Auto-Initiation seal-in light illuminated.
HPCI White Auto-Sealing light illuminated

Control Room Indicators

1B21*LI-004, Panel 602:	-38 inches (decreasing)
1B21*PI-004, Panel 602:	920 psig (decreasing)
1E41*FI-003, Panel 601:	4,500 gpm
1E51*FI-003, Panel 602:	450 gpm

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 6

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 01:05 (1805)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Loss of all Control Room Annunciators due to power supply failure.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 7

TO: Watch Engineer (simulated)
LOCATION: Control Room
TIME: T = 01:10 (1810)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that an Alert has been declared at 1810.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 7
(Continued)

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message Transmittal:
Date _____ Time 1810
(24-hour clock)
2. Facility providing information:
A Indian Point Unit No. 2
B Indian Point Unit No. 3
C Ginna Station
D Nine Mile Point Unit No. 1
E FitzPatrick Plant
 F Shoreham Station
G Other _____
3. Reported by:
A Name _____
B Title _____
4. This ... A is ... an exercise.
B is NOT
5. Emergency Classification
 A Unusual Event
 B Alert
 C Site Area Emergency
 D General Emergency
6. This classification occurred at
Date _____ Time 1810
(24-hour clock)
7. Brief Event Description/
Initiating Condition:
Loss of all Control Room
Annunciators.

8. There has:
 A NOT been a release of radioactivity.
B been a release of radioactivity to the ATMOSPHERE.
C been a release of radioactivity to a BODY OF WATER _____
D been a GROUND SPILL release of radioactivity.
9. The release is:
A continuing
B terminated
 C NOT applicable.
10. Protective Actions:
 A There is NO need for Protective Actions outside the site boundary.
B Protective Actions are under consideration.
C Recommended Protective Actions:
Shelter within _____
miles/or _____
sectors/or ERPA's.
Evacuate within _____
miles/or _____
sectors/or ERPA's.
11. Weather:
A Wind speed 10 miles per hour or --- meters per second.
B Direction (from) NNW
337 degrees.
C Stability class (A-G) _____
D General Weather Condition (if available)
Overcast.

Message received by _____

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 7
(continued)

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____
Situation under control and should be terminated shortly.
13. Inplant Emergency Response Actions Underway: Repair crews have
been dispatched to repair Annunciator.
14. Utility Offsite Emergency Response Action Underway: EOF
Activation initiated.

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Noble Gas Release Rate	_____ Ci/sec	_____ Ci/sec
Radioiodine Release Rate	_____ Ci/sec	_____ Ci/sec
Elevated or Ground Release	_____	_____

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	_____	_____
Duration of Release	_____ hrs	_____ hrs
Volume of Release	_____ gal	_____ gal
Radioactivity Concentration (gross)	_____ uCi/ml	_____ uCi/ml
Total Radioactivity Released	_____ Ci	_____ Ci
Radionuclides in Release	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml
	_____ uCi/ml	_____ uCi/ml

Basis for release data, e.g., effluent monitors, grab
sample, composite sample, and sample location: _____

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 7
(continued)

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	_____ mR/hr	_____ mR/hr
Whole Body Commitment (for duration)	_____ Rem	_____ Rem
Thyroid Dose Commitment (1 hr. exposure)	_____ mRem	_____ mRem
Thyroid Dose (for duration)	_____ Rem	_____ Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	_____	_____	_____
Whole Body Dose (Rem)	_____	_____	_____
Thyroid Dose Commitment (1 hr. Exposure - mRem)	_____	_____	_____
Thyroid Dose (Total Commitment - Rem)	_____	_____	_____

17 Protective Action Recommendations and the basis for that recommendation: _____

None

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 8

TO: Response Manager and Director of Local Response
LOCATION: All Locations
TIME: T = 01:30 (1830)
MESSAGE: Drill Initiating Message

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Response Manager and Director of Local Response inform personnel in EOF and EOC respectively that based upon worsening plant and weather conditions they have decided to initiate activation of the EOF/EOC. At 1810 an Alert was declared at SNPS. As of 1830 hours the EOF/EOC is activated.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 9

TO: Control Room Operators (simulated)

FROM:

LOCATION: Control Room

TIME: T = 01:50 (1850)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Power supply to Annunciators is repaired and are operating.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 10

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 01:55 (1855)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The HPCI turbine steam supply line suffers a complete guillotine break. Break isolation logic fails, the break is unisolable. Water and steam are rushing from the break into the Reactor Building. Reactor Building ARMs in the vicinity of the break are alarming.

RPV pressure is rapidly decreasing.

Control Room Annunciators

MOV-041 - indicates RED (manual closure attempts fail)
MOV-042 - indicates GREEN
MOV-047 - indicates GREEN
MOV-048 - indicates GREEN

Control Room Indicators

1B21*LI-004,	Panel 602:	+20 inches (increasing)
1B21*PI-004,	Panel 602:	600 psig (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 10-C

TO: Response Manager
LOCATION: EOF
TIME: T = 02:10 (1910)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that a SITE AREA EMERGENCY be declared at this time.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 11

TO: Evacuation Coordinator
FROM: SNPS Security
LOCATION: EOC
TIME: T = 02:10 (1910)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Site personnel will be evacuating at 1910 hours. Evacuation Plan B will be used. Please inform us if any evacuation difficulties are known.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 12

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 02:10 (1910)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level reaches the 10-10-10 level setpoint.

Diesel generator 101 auto-starts. Diesel generator 103 malfunctions and does not start.

LPCI and Core Spray Pumps auto-start and begin restoration of RPV coolant inventory.

Control Room Annunciators

ARP 1130 - RHR SYS "A" RX LO LEVEL INIT.
ARP 1131 - RHR SYS "B" RX LO LEVEL INIT.
ARP 0336 - Diesel 3 System Degraded

Control Room Indicators

1B21*LI-004, Panel 602:	-132.5 inches (decreasing)
1B21*PI-004, Panel 602:	190 psig
1E11*FI-001A, Panel 601:	6,000 gpm
1E21*FI-002, Panel 601:	5,000 gpm

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

CONTROLLER INFORMATION ONLY!

RADIOLOGICAL EMERGENCY DATA FORM

PART I - GENERAL INFORMATION*

1. Date and Time of Message
Transmittal:
Date _____ Time 1910
(24-hour clock)
2. Facility providing information:
A Indian Point Unit No. 2
B Indian Point Unit No. 3
C Ginna Station
D Nine Mile Point Unit No. 1
E FitzPatrick Plant
 F Shoreham Station
G Other _____
3. Reported by:
A Name _____
B Title _____
4. This ... A is ... an exercise.
B is NOT
5. Emergency Classification
A Unusual Event
B Alert
 C Site Area Emergency
D General Emergency
6. This classification occurred at
Date _____ Time 1900
(24-hour clock)
7. Brief Event Description/
Initiating Condition:
HPCI turbine steam supply
line suffered a complete
break. Break is unisolable.

8. There has:
A NOT been a release of radioactivity.
 B been a release of radioactivity to the ATMOSPHERE.
C been a release of radioactivity to a BODY OF WATER _____.
D been a GROUND SPILL release of radioactivity.
9. The release is:
 A continuing
B terminated
C NOT applicable.
10. Protective Actions:
 A There is NO need for Protective Actions outside the site boundary.
B Protective Actions are under consideration.
C Recommended Protective Actions:
Shelter within _____
miles/or _____
sectors/or ERPA's.
Evacuate within _____
miles/or _____
sectors/or ERPA's.
11. Weather:
A Wind speed 10 miles per hour or --- meters per second.
B Direction (from) NNW
337 degrees.
C Stability class (A-G) D
D General Weather Condition (if available)
Severe tunderstorms

Message received by _____

INTEGRATED SNPS/LERO DRILL SCENARIO

CONTROLLER INFORMATION ONLY!
(continued)

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*

12. Prognosis for Worsening or Termination of the Emergency: _____

Situation appears to be worsening, reactor water level being maintained.

13. Inplant Emergency Response Actions Underway: Maintenance

crews dispatched to isolate break.

14. Utility Offsite Emergency Response Action Underway: _____

EOF activated.

15. Release Information

A. Atmospheric Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	<u>1855</u>	<u>1855</u>
Duration of Release	<u>--</u> hrs	<u>3</u> hrs
Noble Gas Release Rate	<u> </u> Ci/sec	<u>1.7 (-2)</u> Ci/sec
Radioiodine Release Rate	<u> </u> Ci/sec	<u>3.9 (-1)</u> Ci/sec
Elevated or Ground Release	<u> </u>	<u>Elevated</u>

B. Waterborne Release

	<u>Actual</u>	<u>Projected</u>
Date and Time Release Started	<u> </u>	<u> </u>
Duration of Release	<u> </u> hrs	<u> </u> hrs
Volume of Release	<u> </u> gal	<u> </u> gal
Radioactivity Concentration (gross)	<u> </u> uCi/ml	<u> </u> uCi/ml
Total Radioactivity Released	<u> </u> Ci	<u> </u> Ci
Radionuclides in Release	<u> </u> uCi/ml	<u> </u> uCi/ml
	<u> </u> uCi/ml	<u> </u> uCi/ml
	<u> </u> uCi/ml	<u> </u> uCi/ml

Basis for release data, e.g., effluent monitors, grab sample, composite sample, and sample location: Effluent monitors

INTEGRATED SNPS/LERO DRILL SCENARIO

CONTROLLER INFORMATION ONLY!
(continued)

RADIOLOGICAL EMERGENCY DATA FORM
(continued)

PART II - RADIOLOGICAL ASSESSMENT DATA*
(continued)

16. Dose and Measurements and Projections

A. Site Boundary

	<u>Actual</u>	<u>Projected</u>
Whole Body Dose Rate	mR/hr	2.7 mR/hr
Whole Body Commitment (for duration)	Rem	.008 Rem
Thyroid Dose Commitment (1 hr. exposure)	mRem	4.5 mRem
Thyroid Dose (for duration)	Rem	.014 Rem

B. Projected Offsite

	<u>2 Miles</u>	<u>5 Miles</u>	<u>10 Miles</u>
Whole Body Dose Rate (mR/hr)	2.0	0.7	0.3
Whole Body Dose (Rem)	.006	.002	.001
Thyroid Dose Commitment (1 hr. Exposure - mRem)	143.0	58.0	24.3
Thyroid Dose (Total Commitment - Rem)	0.429	0.174	.073

17 Protective Action Recommendations and the basis for that recommendation: _____

Plant recommends evacuation of all non-essential personnel
from site. No offsite actions recommended.

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 13

TO: Dosimetry Coordinator

LOCATION: EOC

TIME: T = 02:15 (1915)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Dosimetry Record Keeper first arriving at the SCCC Relocation Center called to say all 0-5R direct reading pocket dosimeters are missing. The 0-200mR direct reading dosimeters are there, he needs 0-5R dosimeters.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 14

TO: Evacuation Coordinator
FROM: FAA
LOCATION: EOC
TIME: T = 02:20 (1920)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Could you please supply names and telephone contacts for communications during the emergency. Eastern Airlines wants to know if it can continue its Boston Shuttle to Kennedy. The route comes within 3 miles north of the plant.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 15

TO: Public Schools Coordinator
LOCATION: EOC
TIME: T = 02:20 (1920)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

One of the Principals contacted called back to say that there is a dance going on in his school that is scheduled to run to midnight. He wants to know if he should institute early dismissal of the dance at this time and if so, could LERO provide 2 school buses to drive kids home whose parents are not now able to pick them up.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 16

TO: Evacuation Coordinator
FROM: Siren Verification Service
LOCATION: EOC
TIME: T = 02:25 (1925)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Siren 46 is stuck ON. We've got to shut it off. Can we send a route alert driver to kill the power. The residents are going nuts from the noise.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 17

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 02:25 (1925)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is responding to LPCI/Core Spray flow.

Control Room Indicators

1B21*LI-004, Panel 602:

-80 inches (increasing)

1B21*PI-004, Panel 602:

180 psig (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 18

TO: Lead Communicator
LOCATION: EOC
TIME: T = 02:30 (1930)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Inform the Security Coordinator that an irate caller just phoned to say that if he has to evacuate from his house because of an accident at Shoreham, he is going to drive his van full of dynamite right into the front entrance of the Brentwood Operations Center. He indicated he lives in Zone "A".

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 19

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 02:40 (1940)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Lightning strikes the station switchyard causing extensive transformer damage resulting in a loss of offsite power.

LPCI and Core Spray pumps trip as a result of the loss of offsite power. Diesel generator 101 ties in on the emergency bus and restores all Division I power. LPCI and Core Spray operation is resumed; however, with RHR Pump "A" and Core Spray Pump "A" only.

Control Room Annunciators

ARP 1098 - CS "A" Auto-trip (and restarts)
ARP 1100 - CS "B" Auto-trip
ARP 1134 - RHR "A" Auto-trip (and restarts)
ARP 1136 - RHR "C" Auto-trip
ARP 0218 - NSS TRANSFORMER PRIMARY PROTECTION TRIP
ARP 0219 - NSS TRANSFORMER BACKUP PROTECTION TRIP
ARP 0222 - NSS OR RSS TRANSFORMER PROTECTION LOSS OF CONTROL
ARP 0226 - NSS TRANSFORMER TROUBLE
ARP 0461 - REMOTE TRIP - SWITCHYARD RELAY OPERATED
ARP 0220 - RSS TRANSFORMER PRIMARY PROTECTION TRIP
ARP 0221 - RSS TRANSFORMER BACKUP PROTECTION TRIP
ARP 0227 - RSS TRANSFORMER TROUBLE

Control Room Indicators

1B21*LI-004, Panel 602: -25 inches (increasing)
1B21*PI-004, Panel 602: 165 psig

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 19-C

TO: Response Manager
LOCATION: EOF
TIME: T = 03:20 (2020)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that a GENERAL EMERGENCY be declared at this time.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 20

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 03:05 (2005)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Diesel generator 101 fails due to a ruptured fuel line; which in turn results in a fire in the vicinity of that diesel.

All onsite AC power is lost. LPCI and Core Spray pumps are disabled.

Control Room Annunciators

ARP-1098 - CS "A" Auto-trip
ARP-1134 - RHR "A" Auto-trip
ARP-0368 - Diesel 1 System Degraded
ARP-5262 - EMERGENCY DIESEL RM 101, FIRE DETECTED (ZONE A-7)
ARP-5263 - EMERGENCY DIESEL RM 101 CO2 DISCHARGED (ZONE A-7)

Control Room Indicators

1B21* LI-004, Panel 602:	+9 inches (decreasing)
1B21* PI-004, Panel 602:	140 psig
1E11*FI-001A, Panel 601:	0 gpm
1E21*FI-002, Panel 601:	0 gpm

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 21

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 03:10 (2010)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is not being maintained

The fire in the vicinity of diesel generator 101 is under control

Control Room Indicators

1B21*LI-004, Panel 602:	-60 inches (decreasing)
1E11*FI-001A, Panel 601:	0 gpm
1E21*FI-002, Panel 601:	0 gpm

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 22

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 03:20 (2020)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level reaches the 10-10-10 level setpoint.

Control Room Indicators

1B21*LI-004, Panel 602: -132.5 inches (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 23

TO: Home Coordinator

LOCATION: EOC

TIME: T = 03:25 (2025)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Initiate invalid and disabled notification of offer for LERO assistance per the attached lists.

THIS IS A DRILL

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE A

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Thomas Smith	111 Soundview Drive E. Shoreham /((516) 733-5087			
2. John Kilpatrick	12 Suffolk Drive ⁴³⁰² E. Shoreham /((516) 733- 4463			
3. James Kirwill	10 Highland Drive ⁴¹⁹ E. Shoreham /((516) 733- 5006			
4. Arthur Stigman	114 Robinson Street E. Shoreham /((516) 733-5095			
5. Kurt Lowen	21 Normal Avenue ⁵⁰⁹⁴ E. Shoreham /((516) 733- 5004			
6. Paul Senkri	41 Harvard Road ⁵⁰⁹⁷ E. Shoreham /((516) 733- 5129			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE B

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Fred Jackson	12 Cooper Street Rocky Point (516) 733-5096			
2. Karl Little	100 Walker Avenue Rocky Point (516) 733- 5079 ⁵⁰⁹⁴			
3. Ted Small	75 Randall Road Rocky Point (516) 733- 5092 ⁵⁰⁹⁵			
4. Joseph Krough	17 Bradley Drive Rocky Point (516) 733- 4944 ⁴¹¹⁹			
5. Mary Tilly	5 Akron Place Rocky Point (516) 733- 5078 ⁵⁰⁸⁷			
6. Frank Jones	83 Blackfoot Tr Rocky Point (516) 733- 5000 ⁴³⁰²			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE C

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Martha Holmes	12 Wading River Rd Wading River / (516) 733-5087			
2. Jonathen Zabriski	25 Pananoka Tr Brookhaven / (516) 733- 4463 ⁴¹¹⁹			
3. Helen Konkle	115 Lakeside Tr Brookhaven / (516) 733- 5086 ⁵²⁹⁷			
4. Robert Zastron	218 Oakview Tr Brookhaven / (516) 733-5095			
5. Abe Levin	29 Josephine Drive Brookhaven / (516) 733- 5004 ⁵⁰⁹⁶			
6. Homer Willisley	213 Mid. Country Rd Brookhaven / (516) 733- 5129 ⁴³⁰²			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE D

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Marybeth Carson	51 Kay Road Wading River / (516) 733-5096			
2. Jamie Frille	21 N. Country Rd Wading River / (516) 733-5087			
3. John Paulton	22 Mid. Country Rd Wading River / (516) 733-5077			
4. Jody Powell	83 Wading River - Manorville Rd Wading River / (516) 733-4944			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE E

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Robert Remington	31 North Side Dr. Wading River / (516) 733- 5070 ⁵⁰⁹⁶			
2. Helen Hayes	84 Songview Rd Wading River / (516) 733- 5087 ⁵⁰⁸⁷			
3. Philamino D'Laprio	71 N. Wading River Rd Wading River / (516) 733- 4463 ⁴¹¹⁹			
4. Josephine Gridley	16 Jeraco Street Wading River / (516) 733- 5086 ⁵⁰⁹⁷			
5. Jenny Field	5 N. Country Road Wading River / (516) 733-5095			
6. Jerald Lewin	1111 Woodchuck Harbor Lane Wading River / (516) 733- 5129 ⁴³⁰²			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE H

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. William Andrews	22 Elizabeth Drive Upton <i>4119</i> /(516) 733- 4944			
2. Heather Webb	22 Madeline Road Upton <i>5094</i> /(516) 733- 5078			
3. Lisa Gibbs	1818 Gold Dip Street Upton <i>5395</i> /(516) 733- 5080			
4. Leslie Walker	12 Pine Pike Upton /(516) 733-5087			
5. Shirley Sweczy	15 Deerleap Upton <i>4302</i> /(516) 733- 4463			
6. Pratt Lockhead	45 Madeline Road Upton <i>5097</i> /(516) 733- 5086			
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- THIS IS A DRILL -

- THIS IS A DRILL -

INVALID/DISABLED EVACUATION LISTING

ZONE I

(Names, Addresses and Phone Numbers are Fictitious)

Individual's Name	Individual's Address/ Phone Number	Special Care Required In Transport	Evacuation Destination Point (Reception Hospital)	Time Contact Was Made/Time Ambulance Was Dispatched
1. Jame Seymour	51 Manor Road Calverton / (516) 733-5095			
2. Henry T. Latrec	77 Jones Road Calverton / (516) 733-5094			
3. Tom Cratchet	100 Primrose Path Calverton / (516) 733-5129 ⁵⁰⁸⁷			
4. Clint Tovie	521 Gruman Boulevard Calverton / (516) 733-5096			
5. Emily Dickson	60 Oakwood Drive Calverton / (516) 733-5079 ⁴³⁰²			
6. Harry Nelson	701 1/2 Ninth Street Calverton / (516) 733-6098 ⁴¹¹⁹			
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INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 24

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 03:25 (2025)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is approaching TAF and decreasing.

The fire in the vicinity of diesel generator 101 has been extinguished.

Control Room Indicators

1B21*LI-007, Panel 601: - 158 inches

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 25-C

TO: Transportation Support Coordinator
LOCATION: EOC - Brentwood
TIME: T = 03:30 (2030)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Initiate appropriate evacuation actions for Zone A-E, H, I. Man the following transfer points and exercise the following routes:

<u>Transfer Points</u>	<u>Bus Routes</u>	<u>Staging Areas</u>
Brookhaven Laboratory	A1, C2 B1, D1 C1, E1	Port Jefferson
Brookhaven Substation	H1 I1 I2	Riverhead

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 26-C

TO: Traffic Control Point Coordinator
LOCATION: EOC
TIME: T = 03:30 (2030)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Send Traffic Guides from the Port Jefferson Staging Area to the following locations:

<u>Points</u>	<u>Number of Personnel</u>
4	1
140	1
6	1
5	2
38	1

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 27

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 03:35 (2035)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is significantly below TAF. Fuel assemblies are exposed and damaged, causing severe radiological releases through the HPCI turbine steam supply line break.

Control Room Annunciators

(Radiological - ARMS)

Control Room Indicators

1B21*LI-007, Panel 601: -206 inches (decreasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 28-C

TO: Traffic Control Point Coordinator
LOCATION: EOC
TIME: T = 03:35 (2035)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Send Traffic Guides from the Patchogue Staging Area to the following locations:

<u>Points</u>	<u>Number of Personnel</u>	<u>Points</u>	<u>Number of Personnel</u>
126	2	71	1
31	4	76	1
32	1	81	1
35	2	82	1
130	1	83	1
30	1	84	1
65	2	85	1
66	2	86	2
67	1	106	2
123	2	109	2
53	1	110	2
54	1	113	1
124	2	114	4
75	1	90	1
70	1	111	1
77	1	91	1
138	1	87	2
89	1		

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 29-C

TO: Traffic Control Point Coordinator
LOCATION: EOC
TIME: T = 03:40 (2040)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Send Traffic Guides from the Riverhead Staging Area to the following locations:

<u>Points</u>	<u>Number of Personnel</u>	<u>Points</u>	<u>Number of Personnel</u>
2	1	33	3
3	1	39	1
134	1	38	1
135	1	136	1
10	1	36	1
7	1	11	1
13	1	27	1
12	1	28	1
129	1	14	1
128	1	16	1
125	2	15	1
62	1	143	2
18	1	131	1
115	1	17	1
127	1	19	1
73	1	76	1
108	1	29	1
8	2	116	1
9	1		

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 30

TO: Public Information Coordinator

LOCATION: EOC

TIME: T = 03:45 (2045)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Jack Anderson called to say he has secret information which links the on-going situation at Shoreham to Libyan terrorists and wants you to return his call to confirm or deny the story before he goes on the air (in 45 minutes).

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 31-C

TO: Road Logistics Coordinator
LOCATION: EOC
TIME: T = 03:55 (2055)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

If the Road Logistics Coordinator has not done so already send road crews from the Patchogue Staging Area to the following predeployment spots:

Traffic Control Points - 77, 70, 126, 30

Send route spotters on Routes: 1002, 1004, 1010, 1011.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 32

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 03:55 (2055)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Attempts at restarting diesel generator 103 are successful. The diesel generator "ties-in" on the emergency bus and restores Division III power supply.

RHR pumps "C" and "D" start, and provide LPCI flow to the RPV.

Control Room Annunciators

ARP-0336 ("Diesel 3 System Degraded") annunciator has CLEARED.

Control Room Indicators

1E11*FI-001A, Panel 601: 8,000 gpm

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 33

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:00 (2100)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Port Jefferson Staging Area Bus Dispatcher informs you that a bus breaks down at the Brookhaven Laboratory Transfer Point. The bus is blocking the entrance to the Transfer Point.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 34

TO: Evacuation Route Coordinator
FROM: Road Crew
LOCATION: EOC
TIME: T = 04:00 (2100)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Road crew member responding to stalled vehicle reports that the driver will not let LILCO move his vehicle. The LILCO vehicle is a bucket truck. The owner wants only a tow truck for his Jaguar. Car is located on the south bound entrance ramp to William Floyd coming off of Route 25. What should the road crew do? The brakes are locked and the whole ramp is blocked now with about 25 cars. Cars cannot drive on shoulders. Too muddy. They probably will get stuck.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 35

TO: Security Coordinator

LOCATION: EOC

TIME: T = 04:00 (2100)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

One of the reporters hanging around the outside of the EOC told one of the EOC staffers who was taking some air that he's seen a peculiar van circling the block around the EOC. (Have some of the heavy equipment in the yard moved in front of the EOC and in back by the entrance near the cafeteria.)*

*Expected result - Do not give this information to Security Coordinator.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 36

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 04:05 (2105)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level begins to respond to LPCI flow.

Control Room Indicators

1B21*LI-007, Panel 601:

-175 inches (increasing)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 37

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:05 (2105)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Riverhead Staging Area bus dispatcher informs you that ACME Bus Company only supplied 10 of the 14 buses requested.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 38

TO: Traffic Control Point Coordinator
FROM: Port Jefferson Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:05 (2105)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 4 just phoned in. Their radio dosen't work. What do you want them to do. They've already set up the traffic control post.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 39-C

TO: Traffic Control Point Coordinator
LOCATION: EOC
TIME: T = 04:10 (2110)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Send road crews from the Riverhead Staging Area to the following locations:

Traffic Control Points: 62, 10, 27, 14

Send route spotters to Routes: 1007, 1008, 1009

(Only 2 routes can be normally covered since only 2 people are available. However, the Evacuation Route Coordinator should request that an additional traffic guide be recruited as a route spotter to cover the additional route.)*

*Expected result - Do not give this information to Traffic Control Point Coordinator.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 40

TO: Evacuation Route Coordinator
FROM: Patchogue Staging Area Coordinator
LOCATION: EOC
TIME: T = 04:15 (2115)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

You requested 4 Route Spotters. So far only 1 has shown up. What do you want us to do?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 41

TO: Traffic Control Point Coordinator
FROM: Patchogue Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:15 (2115)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

At 2110 hours the State Police showed up at Traffic Point 109. They will allow us to remain at the point, however, they want to direct the traffic. They requested to move the guide's vehicle to another location.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 42

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 04:15 (2115)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV water level is above TAF and increasing.

Control Room Indicators

1B21*LI-007, Panel 603:

-158 inches

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 43

TO: Evacuation Route Coordinator
FROM: Riverhead Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:17 (2117)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

You requested 3 Route Spotters, but we have only 2. What should we do?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 44

TO: Traffic Control Point Coordinator
FROM: Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:17 (2117)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 110 while showing his dosimeter to the police officer dropped his 0-200 mR dosimeter. Should we call him back in?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 45

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:20 (2120)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Port Jefferson Staging Area bus dispatcher informs you that all 5 buses have run Route B1 one time through and have only picked up a total of 50 people. (The last two buses didn't have any passengers.) Should he have the Transfer Point Coordinator send all 5 buses through the Route again?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 46

TO: Evacuation Route Coordinator
FROM: Helicopter
LOCATION: EOC
TIME: T = 04:20 (2120)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

What is the evacuation status and what is your request for surveying?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 47-C

TO: Road Logistics Coordinator
LOCATION: EOC
TIME: T = 04:20 (2120)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

If the Road Logistics Coordinator has not done so already send road crews to the following locations:

Traffic Control Point: 11

Send route spotters to Route: 1001

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 48

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:25 (2125)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Port Jefferson Bus dispatcher informs you a car collided with a bus with passengers aboard on Route E1. 3 persons seriously injured requiring ambulatory assistance, the other 27 passengers are only slightly injured. The accident is blocking traffic.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 49

TO: Traffic Control Point Coordinator
FROM: Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:25 (2125)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

A lot of motorists are stopping to talk to the Traffic Guide's asking for information about the emergency. Should the guides let them stop?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 50

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 04:30 (2130)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

HPCI turbine steam supply isolation valve MOV-041 responds to signal and closes. The pipe break has been isolated.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 51

TO: Traffic Control Point Coordinator

FROM: Lead Traffic Guide

LOCATION: EOC

TIME: T = 04:30 (2130)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 127 just reported that he pegged his 200 mR dosimeter.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 52

TO: Evacuation Route Coordinator
FROM: Helicopter
LOCATION: EOC
TIME: T = 04:30 (2130)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Stalled vehicle on Sunrise Highway in left lane just west of Chester Avenue. Do you want further surveillance. As of 2130 hours is causing minor delays.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 53

TO: Decon Coordinator

LOCATION: EOC

TIME: T = 04:30 (2130)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Decontamination leader at Stonybrook Relocation Center called with a problem. An evacuee arrived at the Relocation Center and refuses to be surveyed as he has a pacemaker and is afraid that the survey meter will cause his pacemaker to malfunction. He is also convinced he is contaminated and will not leave the monitoring area. What should we do?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 54

TO: Special Facilities Evac Coord.

LOCATION: EOC

TIME: T = 04:25 (2125)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

It appears the General Emergency Classification will last for another 12 hours at least.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 54-C

TO: Special Facilities Evac Coord.
LOCATION: EOC
TIME: T = 04:35 (2135)
MESSAGE: Contingency

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Have the Public Schools Coord. and the Private Schools Coord. contact the Principals/Administrators of the public/private schools in the 10 mile EPZ and inform them of the status of the situation and the fact that it may be necessary to delay the start of tomorrow's school day in order to keep necessary buses available and keep children at home in the event of continued evacuation.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 55

TO: Traffic Control Point Coordinator
FROM: Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:35 (2135)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide at point 36 says one too many guides were sent to this post. Could we send an extra route alert driver to go pick him up?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 56

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:35 (2135)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Riverhead bus dispatcher informs you that a transfer bus got a flat tire down enroute to SCCC relocation center.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 57

TO: Evacuation Coordinator

FROM: Coast Guard

LOCATION: EOC

TIME: T = 04:35 (2135)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

We understand that you have contracted helicopters spotting traffic. Will you do any boat spotting over the sound? If so please call so that we can coordinate our operations.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 58

TO: Evacuation Route Coordinator
FROM: Route Spotter
LOCATION: EOC
TIME: T = 04:35 (2135)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

How many times am I supposed to drive route 1001, and 1006?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 59

TO: Transportation Communicator

LOCATION: EOC - Brentwood

TIME: T = 04:40 (2140)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Port Jefferson Staging Area bus dispatcher informs you that 2 of the bus drivers on Route C2 have a dosimetry reading of 1200 mRem. They request Potassium Iodine pills.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 60

TO: Evacuation Route Coordinator

FROM: Helicopter

LOCATION: EOC

TIME: T = 04:40 (2140)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Bus spotted on Edwards Avenue. It is stopped for a long time.
Located about 1/2 mile south of Sound Avenue.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 61

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 04:45 (2145)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Station switchyard transformers have been repaired and offsite power has been restored.

Control Room Annunciators

The following annunciators have CLEARED:

ARP-0218, 0219, 0220, 0221, 0222, 0226, 0227, 0461

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 62

TO: Private Schools Coordinator
LOCATION: EOC
TIME: T = 04:45 (2145)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

One of the Private School Headmasters contacted called back to say that he has a class trip scheduled for tomorrow morning with buses scheduled to pick up children at the school at 7:00 a.m. The school is located in Zone "E". He wants to know if he should cancel the class trip and will LERO make good on the non refundable deposit already given to the bus company.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 63

TO: Traffic Control Point Coordinator
FROM: Riverhead Lead Traffic Guide
LOCATION: EOC
TIME: T = 04:50 (2150)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide #28 reports no Northbound traffic for 25 minutes. Is anything wrong?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 64

TO: Road Logistics Coordinator

LOCATION: EOC

TIME: T = 04:50 (2150)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

We have a line up of about 50 cars at the fuel tank truck on Sunrise Highway. Do we give gas to all these people? Half of them have more fuel than they need. What should we do?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 65

TO: Decontamination Coordinator
LOCATION: EOC
TIME: T = 05:00 (2200)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Decontamination Leader at Stonybrook Relocation Center. Man with pacemaker finally allowed himself to be surveyed. The good news is he's not contaminated, the bad news is he went into cardiac arrest. CPR being administered, need immediate ambulance.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 66

TO: Traffic Control Point Coordinator
FROM: Lead Traffic Guide
LOCATION: EOC
TIME: T = 05:00 (2200)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Traffic Guide 127 just reported that he has 3.5 R on his dosimeter.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 67

TO: Control Room Operator (simulated)

LOCATION: Control Room

TIME: T = 05:05 (2205)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Radioactive releases from the plant have been terminated.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 68

TO: Traffic Control Point Coordinator
FROM: Lead Traffic Guide
LOCATION: EOC
TIME: T = 05:10 (2210)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

There is a rumor circulating among the traffic guides that the evacuation is over. Is it true? If not what is the true status of the emergency and evacuation. What do we tell the guides?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 69

TO: Road Logistics Coordinator

FROM:

LOCATION: EOC

TIME: T = 05:15 (2215)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

A road crew spotted a small brush fire on Route 25A just west of Wildwood Park. Should we stay at the scene and fight the fire?

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 70

TO: Control Room Operator (simulated)
LOCATION: Control Room
TIME: T = 05:30 (2230)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

RPV level water level is stable.

Control Room Indicators

1B21* LI-004,	Panel 602:	+6 inches (increasing)
1B21* PI-004,	Panel 602:	40 psig (stable)

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 70-C

TO: Response Manager

LOCATION: EOF

TIME: T = 05:30 (2230)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

Conditions warrant that the emergency action level of General EMERGENCY be downgraded and reduced to ALERT status at this time.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 71

TO: All Drill Participants
LOCATION: All Locations
TIME: T = 05:35 (2235)
MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The radioactive plume has completely dispersed. In-plant decontamination activities are underway.

THIS IS A DRILL

INTEGRATED SNPS/LERO DRILL SCENARIO

MESSAGE NO. 72

TO: All Drill Participants

LOCATION: All Locations

TIME: T = 06:00 (2300)

MESSAGE:

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations.

The Drill is TERMINATED.

THIS IS A DRILL

Section 5.0 Plant Status

TABLE 5-1
PLANT STATUS BOARD

Drill Time	00:00-01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45	03:00
Clock Time	17:00-18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00
REACTOR STATUS									
Power Level (%)	100	0	0	0	0	0	0	0	0
Water Level (in.)	+35	+55	+15	+8	-40	+35	+35	-138	-67
Pressure (psig)	1,005	1,100	920	920	920	600	200	185	175
Temperature (°F)	545	520	530	530	530	470	400	395	390
Core Flow (lb/hr x 10 ⁶)	68.4	0	0	0	0	0	0	0	0
MSIVs (open/shut)	Open	Open	Open	Open	Closed	Closed	Closed	Closed	Closed
Scrammed Rod in (yes/no)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRI/SEC CONTAINMENT									
Suppression Pool Level (in.) (PNL 601)	0	0	0	0	0	0	0	-3	-4
Suppression Pool Temperature (°F)	80	80	80	80	80	80	80	80	80
Drywell Pressure (psig)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drywell Temperature (°F)	120	120	120	120	120	120	120	120	120
Drywell O ₂ (%)	0	0	0	0	0	0	0	0	0
Drywell H ₂ (%)	0	0	0	0	0	0	0	0	0
Rx Bldg. DP (in. H ₂ O)	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
RBSYS (cfm) (to atmosphere)	0	0	0	1,160	1,160	1,160	1,160	1,160	1,160
SAFETY SYSTEMS									
HPCI	S	S	S	S	0	0	I	I	I
ADS	S	S	S	S	S	S	S	S	S
CS	S	S	S	S	S	S	S	0	0
LPCI	S	S	S	S	S	S	S	0	0
RCIC	S	S	S	S	0	0	I	I	I
Relief Valves	Closed	Closed	Open	Open	Closed	Closed	Closed	Closed	Closed
Condenser/FW System	0	I	I	I	I	I	I	I	I
Condenser/Heat Sink	0	0	0	0	0	0	0	0	0
Service Water	0	0	0	0	0	0	0	0	0
Diesel Generators	S	S	S	S	S	S	S	A	A
Offsite Power	A	A	A	A	A	A	A	A	A

LEGEND

0 - Operating
S - Standby
I - Inoperative

A - Available
U - Unavailable

TABLE 5-1

PLANT STATUS BOARD
(continued)

Drill Time	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15
Clock Time	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15
REACTOR STATUS									
Power Level (%)	0	0	0	0	0	0	0	0	0
Water Level (in.)	+35	+35	-72	-240	-308	-210	+38	+38	+38
Pressure (psig)	160	147	135	120	107	95	80	67	55
Temperature (°F)	370	364	358	350	342	334	323	314	303
Core Flow (lb/hr x 10 ⁶)	0	0	0	0	0	0	0	0	0
MSIVs (open/shut)	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Scrammed Rod in (yes/no)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRI/SEC CONTAINMENT									
Suppression Pool Level (in.) (PNL 601)	-4	-5	-5	-5	-5	-5	-5	-5	-5
Suppression Pool Temperature (°F)	80	80	80	80	80	80	80	80	80
Drywell Pressure (psig)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Drywell Temperature (°F)	120	125	125	125	125	130	125	120	120
Drywell O ₂ (%)	0	0	0	0	0	0	0	0	0
Drywell H ₂ (%)	0	0	0	0	0	0	0	0	0
Rx Bldg. DP (in. H ₂ O)	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
RBSVS (cfm) (to atmosphere)	1,160	0	0	0	0	1,160	1,160	1,160	1,160
SAFETY SYSTEMS									
RPCI	I	I	I	I	I	I	I	I	I
ADS	S	S	S	S	S	S	S	S	S
CS	0	0	I	I	I	I	I	I	I
LPCI	0	0	I	I	I	0	0	0	0
RCIC	I	I	I	I	I	I	I	I	I
Relief Valves	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Condenser/FW System	I	I	I	I	I	I	I	I	I
Condenser/Heat Sink	U	U	U	U	U	U	U	U	S
Service Water	I	I	I	I	I	0	0	0	0
Diesel Generators	0	0	I	I	I	0	0	0	S
Offsite Power	U	U	U	U	U	U	U	U	A

LEGEND

0 - Operating
S - Standby
I - Inoperative

A - Available
U - Unavailable

TABLE 5-1

PLANT STATUS BOARD
(continued)

Drift Time	05:30	05:45	06:00						
Clock Time	22:30	22:45	23:00						
REACTOR STATUS									
Power Level (%)	0	0	0						
Water Level (in.)	+38	+38	+38						
Pressure (psig)	40	20	0						
Temperature (°F)	285	285	200						
Core Flow (lb/hr x 10 ⁶)	0	0	0						
MSIVs (open/shut)	Closed	Closed	Closed	d					
Scrammed Rod in (yes/no)	Yes	Yes	Yes						
PRI/SEC CONTAINMENT									
Suppression Pool Level (in.) (PNL 601)	-5	-5	-5						
Suppression Pool Temperature (°F)	80	80	80						
Drywell Pressure (psig)	1.1	1.1	1.1						
Drywell Temperature (°F)	125	125	120						
Drywell O ₂ (%)	0	0	0						
Drywell H ₂ (%)	0	0	0						
Rx Bldg. DP (in. H ₂ O)	1/4	1/4	1/4						
RBSVS (cfm) (to atmosphere)	1,160	1,160	1,160						
SAFETY SYSTEMS									
HPCI	I	I	I						
ADS	S	S	S						
CS	I	I	I						
LPCI	0	0	0						
RCIC	I	I	I						
Relief Valves	Closed	Closed	Closed						
Condenser/FW System	I	I	I						
Condenser/Heat Sink	S	S	S						
Service Water	0	0	0						
Diesel Generators	S	S	S						
Offsite Power	A	A	A						

LEGEND

O - Operating

S - Standby

I - Inoperative

A - Available

U - Unavailable

Section 6.0

Radiological Information

SECTION 6
RADIOLOGICAL INFORMATION

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6.0 RADIOLOGICAL INFORMATION

A. METEOROLOGICAL CONDITIONS

Meteorological conditions during the drill scenario will consist of intense thunderstorms which will indicate a stability class of D. The winds are from the NNW (337°) at 10 miles per hour. The temperature is 32°F. Thunder showers are forecasted for the Eastern Long Island area. Thunder storms occur and lightning strikes the station switchyard at T + 02:40. Winds remain at 10 mph. Hourly meteorological data is listed in Table 6-1.

B. RADIOACTIVITY SAMPLE INFORMATION (REACTOR WATER, SUPPRESSION POOL WATER, AND DRYWELL AIR SAMPLE)

Reactor Water, Suppression Pool Water, and Drywell Air Sample specific activities (gross) were derived from the following references:

EPIP 1-14
NUREG-0588
NUREG-0578
LILCO FSAR, Chapters 1 and 5

Times chosen represent key system response times in regard to scenario events. No decay is assumed for the 30-minute sample count delay time. The low level release corresponds to a 1% fuel failure. The high level release will correspond to a 30% fuel failure.

Table 6-2.1 lists the Reactor Water Sample Analysis for the entire scenario. Tables 6-2.2 to 6-2.4 are the reactor water sample analysis for the times listed at the top of the table. Data should be provided to the Radiochemistry people thirty (30) minutes after the sample requested. Table 6-3.1 lists the Suppression Pool Water Sample Analysis for the entire scenario. Tables 6-3.2 to 6-3.4 are to be provided to Radiochemistry thirty (30) minutes after the sample is requested. Table 6-4.1 is the entire Drywell Air Sample Analysis for the exercise. Tables 6-4.2 to 6-4.4 are to be provided to Radiochemistry thirty (30) minutes after the sample is withdrawn.

C. RADIOACTIVE RELEASE RATES

There will be two (2) separate radioactive releases. The first release is a low level release. The protective action expected for the low level release is no action. The low level release will last for one (1) hour and terminate for one hour with loss of all AC power.

Once AC power is restored, a high level release will cause a reading on the RBSVS high-range effluent monitor of 15,000 uCi/cc. Projected release rates are:

Gross Noble Gas	= 850 Ci/sec
Gross Iodine	= 2.3×10^{-3} Ci/sec

The protective action required for the high level release is evacuate zones A, B, C, D, E, H, I. Evaluation of the percent of core failure (30%) produces an iodine to noble gas ratio in the field of 10^{-5} , which includes filtering.

Field monitoring data assumes that 99.99% of the iodines will be adsorbed before release.

Inplant area radiation monitor readings are listed in Table 6-7.

Process and effluent radiation monitor readings are listed in Table 6-8.

A series of radiation zone maps are provided. Figures 6-1.1 to 6-1.6 are the Site Arrangement Maps, Figures 6-2.1 to 6-2.5 are the 1 Mile Radius Maps, Figures 6-3.1 to 6-3.6 are 10-Mile Emergency Planning Zone Maps. The letters listed in each zone represent radiation dose rates which are listed in Table 6-9.

TABLE 6-1
METEOROLOGICAL DATA

Date: _____

* * * *

Clock Time	Scenario Time	Wind Speed 150'/33' (mph)	Wind Direction 150/33 (mph)	Temperature (°F)	Delta Temperature
11:00	T-06:00	18	339	32	-1.5
12:00	T-05:00	17	339	33	-1.5
13:00	T-04:00	18	340	34	-1.6
14:00	T-03:00	20	339	35	-1.5
15:00	T-02:00	20	338	35	-1.5
16:00	T-01:00	15	338	34	-1.5
17:00	T+00:00	10	337	32	-1.0
18:00	T+01:00	10	337	30	-0.5
19:00	T+02:00	10	338	28	-0.5
20:00	T+03:00	10	336	27	-0.5
21:00	T+04:00	10	337	26	-0.5
22:00	T+05:00	10	337	26	-0.5
23:00	T+06:00	20	337	30	-0.5
24:00	T+07:00	15	336	29	-0.5
01:00	T+08:00	18	338	28	-0.5
02:30	T+09:00	19	337	29	-0.5

* Data to be provided to Station Shift Supervisor, Radiological Assessment Coordinator, or Environmental Survey Team Coordinator.

TABLE 6-1.1
METEOROLOGICAL DATA*

Time	<u>1700</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>32</u>	*F
Delta Temperature	<u>-1.0</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.2
METEOROLOGICAL DATA*

Time	<u>1715</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>32</u>	*F
Delta Temperature	<u>-1.0</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.3
METEOROLOGICAL DATA*

Time	<u>1730</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>31</u>	°F
Delta Temperature	<u>-0.7</u>	°F

*Data to be provided to individual using RMS.

TABLE 6-1.4
METEOROLOGICAL DATA*

Time	<u>1745</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>30</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.5
METEOROLOGICAL DATA*

Time	<u>1800</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>30</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.6

METEOROLOGICAL DATA*

Time	<u>1815</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>338</u>	Degrees
Wind Direction 33'	<u>338</u>	Degrees
Temperature	<u>30</u>	°F
Delta Temperature	<u>-0.5</u>	°F

*Data to be provided to individual using RMS.

TABLE 6-1.7
METEOROLOGICAL DATA*

Time	<u>1830</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>338</u>	Degrees
Wind Direction 33'	<u>338</u>	Degrees
Temperature	<u>29</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.8
METEOROLOGICAL DATA*

Time 1845

Wind Speed 150' 10 mph

Wind Speed 33' 10 mph

Wind Direction 150' 337 Degrees

Wind Direction 33' 337 Degrees

Temperature 28 °F

Delta Temperature -0.5 °F

*Data to be provided to individual using RMS.

TABLE 6-1.9
METEOROLOGICAL DATA*

Time	<u>1900</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>338</u>	Degrees
Wind Direction 33'	<u>338</u>	Degrees
Temperature	<u>28</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.10

METEOROLOGICAL DATA*

Time	<u>1915</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>338</u>	Degrees
Wind Direction 33'	<u>338</u>	Degrees
Temperature	<u>28</u>	*F
Delta Temperature	<u>-0.5</u>	--*F

*Data to be provided to individual using RMS.

TABLE 6-1.11

METEOROLOGICAL DATA*

Time	<u>1930</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>28</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.12
METEOROLOGICAL DATA*

Time	<u>2100</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>27</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.13
METEOROLOGICAL DATA*

Time	<u>2115</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.14
METEOROLOGICAL DATA*

Time	<u>2130</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.15
METEOROLOGICAL DATA*

Time	<u>2145</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.16
METEOROLOGICAL DATA*

Time	<u>2200</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.17
METEOROLOGICAL DATA*

Time	<u>2215</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.18
METEOROLOGICAL DATA*

Time	<u>2230</u>	
Wind Speed 150'	<u>10</u>	mph
Wind Speed 33'	<u>10</u>	mph
Wind Direction 150'	<u>337</u>	Degrees
Wind Direction 33'	<u>337</u>	Degrees
Temperature	<u>26</u>	*F
Delta Temperature	<u>-0.5</u>	*F

*Data to be provided to individual using RMS.

TABLE 6-1.19

WEATHER FORECAST*

Time: T = 01:00 (1800 hrs)

Weather forecast from Cape May to Block Island.

Present - Thunder Showers

Winds 8 to 10 knots with gusts to 35 knots from the NNW. Severe thunder storm activity forming along coastal areas. Temperature in the mid 30's. Waves 2 to 3 feet in the sound, 3 to 5 feet off shore.

Tonight - Winds continuing from the NNW at 8 to 10 knots. Thunder storm activity decreasing. Temperature in the low 30's. Waves 2 to 3 feet in the sound, 3 to 4 feet off shore.

Tomorrow Morning - Winds diminishing, clearing skies by 8 a.m. Lows around 30 degrees. Seas calming with wave heights 1 to 2 feet in the sound and off shore.

*Data to be provided upon request.

TABLE 6-2.1

REACTOR WATER SAMPLE ANALYSIS

Total Concentration uci/ml *

Nuclide	(17:00 - 18:45)	(18:45 - 20:00)	(20:00 - 2300)
	T + 00:00 - 01:45	T + 01:45 - 03:00	T + 03:00 - 06:00
I-131	8.46×10^{-5}	17,900	31,263
132	4.43×10^{-3}	12,600	18,501
133	1.43×10^{-3}	34,600	60,785
134	1.57×10^{-2}	4,900	6,934
135	2.92×10^{-3}	28,500	45,894
Xe-133	1.67×10^{-4}	--	--
135	5.09×10^{-3}	--	--
Kr-85m	---	--	--
87	---	--	--
88	---	--	--
Te-132	---	.49	886
Cs-134	3.59×10^{-6}	.06	101
137	---	.05	80
Co-58	1.89×10^{-4}	.07	18
60	2.67×10^{-4}	.04	9
Ce-141	---	.87	1,485
Ba-140	1.18×10^{-4}	.62	1,190
La-140	1.18×10^{-4}	.62	1,139

* Data provided reflects analysis results from samples taken at the indicated times.

TABLE 6-2.2

EQUILIBRIUM REACTOR COOLANT SAMPLE ACTIVITY (T + 00:00 - 01:45)
(1700-1845)

* <u>Nuclide</u>	* <u>Total Concentration</u> (<u>uCi/ml</u>)
I-131	8.46 x 10 ⁻⁵
132	4.43 x 10 ⁻³
133	1.43 x 10 ⁻³
134	1.57 x 10 ⁻²
135	2.92 x 10 ⁻³
Xe-133	1.67 x 10 ⁻⁴
135	5.09 x 10 ⁻³
Kr-85m	---
87	---
88	---
Te-132	---
Cs-134	3.59 x 10 ⁻⁶
137	---
Co-58	1.89 x 10 ⁻⁴
-60	2.67 x 10 ⁻⁴
Ce-141	---
Ba-140	1.18 x 10 ⁻⁴
La-140	1.18 x 10 ⁻⁴

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-2.3

REACTOR WATER SAMPLE ACTIVITY (T+01:45 - 03:00) (1845-2000)

<u>Nuclide</u>	<u>Total Concentration</u> <u>(uCi/cc)</u>
I-131	17,900
132	12,600
133	34,600
134	4,900
135	28,500
Xe-133	--
135	--
Kr-85m	--
87	--
88	--
Te-132	.49
Cs-134	.06
137	.05
Co-58	.07
-60	.04
Ce-141	.87
Ba-140	.62
La-140	.62

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-2.4

REACTOR WATER SAMPLE ACTIVITY (T+03:00 - 06:00) (2000-2300)

*	*
<u>Nuclide</u>	<u>Total Concentration (uCi/cc)</u>
I-131	31,263
132	18,501
133	60,795
134	6,934
135	45,894
Xe-133	--
135	--
Kr-85m	--
87	--
88	--
Te-132	886
Cs-134	101
137	80
Co-58	18
-60	9
Ce-141	1,485
Ba-140	1,190
La-140	1,139

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-3.1

SUPPRESSION POOL WATER SAMPLE ANALYSIS

Total Concentration uci/ml *

Nuclide	(17:00 - 18:45)	(18:45 - 20:00)	(20:00 - 23:00)
	T + 00:00 - 01:45	T + 01:45 - 03:00	T + 03:00 - 06:00
I-131	1.65×10^{-5}	1.65×10^{-5}	1.65×10^{-5}
132	2.23×10^{-5}	2.23×10^{-5}	2.23×10^{-5}
133	3.30×10^{-5}	3.30×10^{-5}	3.30×10^{-5}
134	3.69×10^{-5}	3.69×10^{-5}	3.69×10^{-5}
135	2.91×10^{-5}	2.91×10^{-5}	2.91×10^{-5}
Xe-133	---	---	---
135	---	---	---
Kr-85m	---	---	---
87	---	---	---
88	---	---	---
Te-132	2.33×10^{-5}	2.33×10^{-5}	2.33×10^{-5}
Cs-134	1.46×10^{-6}	1.46×10^{-6}	1.46×10^{-6}
137	9.13×10^{-7}	9.13×10^{-7}	9.13×10^{-7}
Co-58	1.52×10^{-7}	1.52×10^{-7}	1.52×10^{-7}
60	5.63×10^{-8}	5.63×10^{-8}	5.63×10^{-8}
Ce-141	2.91×10^{-5}	2.91×10^{-5}	2.91×10^{-5}
Ba-140	3.11×10^{-5}	3.11×10^{-5}	3.11×10^{-5}
La-140	3.11×10^{-5}	3.11×10^{-5}	3.11×10^{-5}

* Data provided reflects analysis results from samples taken at the indicated times.

TABLE 6-3.2

SUPPRESSION POOL WATER SAMPLE ACTIVITY (T+00:00 - 01:45) (1700-1845)

* <u>Nuclide</u>	* <u>Total Concentration (uCi/ml)</u>
I-131	1.65×10^{-5}
132	2.33×10^{-5}
133	3.30×10^{-5}
134	3.69×10^{-5}
135	2.91×10^{-5}
Xe-133	---
135	---
Kr-85m	---
87	---
88	---
Te-132	2.33×10^{-5}
Cs-134	1.46×10^{-6}
137	9.13×10^{-7}
Co-58	1.52×10^{-7}
-60	5.63×10^{-8}
Ce-141	2.91×10^{-5}
Ba-140	3.11×10^{-5}
La-140	3.11×10^{-5}

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-3.3

SUPPRESSION POOL WATER SAMPLE ACTIVITY (T+01:45 - 03:00) (1845-2000)

*	*
<u>Nuclide</u>	<u>Total Concentration (uCi/ml)</u>
I-131	1.65×10^{-5}
132	2.33×10^{-5}
133	3.30×10^{-5}
134	3.69×10^{-5}
135	2.91×10^{-5}
Xe-133	---
135	---
Kr-85m	---
87	---
88	---
Te-132	2.33×10^{-5}
Cs-134	1.46×10^{-6}
137	9.13×10^{-7}
Co-58	1.52×10^{-7}
-60	5.63×10^{-8}
Ce-141	2.91×10^{-5}
Ba-140	3.11×10^{-5}
La-140	3.11×10^{-5}

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-3.4

SUPPRESSION POOL WATER SAMPLE ACTIVITY (T+03:00 - 06:00) (2000-2300)

*	*
<u>Nuclide</u>	<u>Total Concentration</u> (uCi/ml)
I-131	1.65×10^{-5}
132	2.33×10^{-5}
133	3.30×10^{-5}
134	3.69×10^{-5}
135	2.91×10^{-5}
Xe-133	---
135	---
Kr-85m	---
87	---
88	---
Te-132	2.33×10^{-5}
Cs-134	1.46×10^{-6}
137	9.13×10^{-7}
Co-58	1.52×10^{-7}
-60	5.63×10^{-8}
Ce-141	2.91×10^{-5}
Ba-140	3.11×10^{-5}
La-140	3.11×10^{-5}

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-4.1

DRYWELL AIR SAMPLE ANALYSIS

Total Concentration uci/cc *

Nuclide	(17:00 - 18:45)	(18:45 - 20:00)	(20:00 - 2300)
	T + 00:00 - 01:45	T + 01:45 - 03:00	T + 03:00 - 06:00
I-131	3.3×10^{-10}	3.3×10^{-10}	3.3×10^{-10}
132	4.8×10^{-10}	4.8×10^{-10}	4.8×10^{-10}
133	7.2×10^{-10}	7.2×10^{-10}	7.2×10^{-10}
134	8.1×10^{-10}	8.1×10^{-10}	8.1×10^{-10}
135	6.6×10^{-10}	6.6×10^{-10}	6.6×10^{-10}
Xe-133	8.6×10^{-9}	8.6×10^{-10}	8.6×10^{-10}
135	4.1×10^{-9}	4.1×10^{-10}	4.1×10^{-10}
Kr-85m	1.9×10^{-9}	1.9×10^{-10}	1.9×10^{-10}
87	4.1×10^{-9}	4.1×10^{-10}	4.1×10^{-10}
88	5.9×10^{-9}	5.9×10^{-10}	5.9×10^{-10}
Te-132	---	---	---
Cs-134	---	---	---
137	---	---	---
Co-58	---	---	---
60	---	---	---
Ce-141	---	---	---
Ba-140	---	---	---
La-140	---	---	---

* Data provided reflects analysis results from samples taken at the indicated times.

TABLE 6-4.2

DRYWELL AIR SAMPLE ACTIVITY (T+00:00 - 01:45) (1700-1845)

*	*
<u>Nuclide</u>	<u>Total Concentration (uCi/cc)</u>
I-131	3.3×10^{-10}
132	4.8×10^{-10}
133	7.2×10^{-10}
134	8.1×10^{-10}
135	6.6×10^{-10}
Xe-133	8.6×10^{-9}
135	4.1×10^{-9}
Kr-85m	1.9×10^{-9}
87	4.1×10^{-9}
88	5.9×10^{-9}
Te-132	---
Cs-134	---
137	---
Co-58	---
-60	---
Ce-141	---
Ba-140	---
La-140	---

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-4.3

DRYWELL AIR SAMPLE ACTIVITY (T+01:45 - 03:00) (1845-2000)

*	*
<u>Nuclide</u>	<u>Total Concentration (uCi/cc)</u>
I-131	3.3×10^{-10}
132	4.8×10^{-10}
133	7.2×10^{-10}
134	8.1×10^{-10}
135	6.6×10^{-10}
Xe-133	8.6×10^{-9}
135	4.1×10^{-9}
Kr-85m	1.9×10^{-9}
87	4.1×10^{-9}
88	5.9×10^{-9}
Te-132	---
Cs-134	---
137	---
Co-58	---
-60	---
Ce-141	---
Ba-140	---
La-140	---

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-4.4

DRYWELL AIR SAMPLE ACTIVITY (T+03:00 - 06:00) (2000-2300)

* <u>Nuclide</u>	* <u>Total Concentration (uCi/cc)</u>
I-131	3.3 x 10 ⁻¹⁰
132	4.8 x 10 ⁻¹⁰
133	7.2 x 10 ⁻¹⁰
134	8.1 x 10 ⁻¹⁰
135	6.6 x 10 ⁻¹⁰
Xe-133	8.6 x 10 ⁻⁹
135	4.1 x 10 ⁻⁹
Kr-85m	1.9 x 10 ⁻⁹
87	4.1 x 10 ⁻⁹
88	5.9 x 10 ⁻⁹
Te-132	---
Cs-134	---
137	---
Co-58	---
-60	---
Ce-141	---
Ba-140	---
La-140	---

* Data to be provided to Dose Assessment personnel. Data is not available for use until 30 minutes after request for sample is made.

TABLE 6-5.1

VENT AIR SAMPLE ANALYSIS

(Prior to Filtration)

Total Concentration uci/cc *

Nuclide	(17:00 - 18:45)	(18:45 - 20:00)	(20:00 - 2300)
	T + 00:00 - 01:45	T + 01:45 - 03:00	T + 03:00 - 06:00
I-131	3.3×10^{-10}	.305	566
132	4.8×10^{-10}	.288	333
133	7.2×10^{-10}	.628	1,166
134	8.1×10^{-10}	.339	133
135	6.6×10^{-10}	.526	849
Xe-133	8.6×10^{-9}	2.630	4,995
135	4.1×10^{-9}	.645	1,099
Kr-85m	1.9×10^{-9}	.390	582
87	4.1×10^{-9}	.628	333
88	5.9×10^{-9}	.950	1,165
Te-132	---	.017	33
Cs-134	---	.00187	3
137	---	.002	3
Co-58	---	.001	2
60	---	3.39×10^{-4}	1
Ce-141	---	.029	56
Ba-140	---	.024	45
La-140	---	.022	43

* Data provided reflects analysis results from samples taken at the indicated times.

TABLE 6-5.2

VENT AIR SAMPLE ANALYSIS (T + 00:00-01:45) (1700-1845)

(Prior to Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(17:00 - 18:45)</u> <u>T + 00:00 - 01:45</u>
I-131	3.3×10^{-10}
132	4.8×10^{-10}
133	7.2×10^{-10}
134	8.1×10^{-10}
135	6.6×10^{-10}
Xe-133	8.6×10^{-9}
135	4.1×10^{-9}
Kr-85m	1.9×10^{-9}
87	4.1×10^{-9}
88	5.9×10^{-9}
Te-132	---
Cs-134	---
137	---
Co-58	---
60	---
Ce-141	---
Ba-140	---
La-140	---

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-5.3

VENT AIR SAMPLE ANALYSIS (T + 01:45-03:00) (1845-2000)

(Prior to Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(18:45 - 20:00)</u> <u>T + 01:45 - 03:00</u>
I-131	.305
132	.288
133	.628
134	.339
135	.526
Xe-133	2.630
135	.645
Kr-85m	.390
87	.628
88	.950
Te-132	.017
Cs-134	00187
137	.002
Co-58	.001
60	3.39 x 10 ⁻⁴
Ce-141	.029
Ba-140	.024
La-140	.022

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-5.4

VENT AIR SAMPLE ANALYSIS (T + 03:00-06:00) (2000-2300)

(Prior to Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(20:00 - 23:00)</u> <u>T + 03:00 - 06:00</u>
I-131	566
132	333
133	1,166
134	133
135	849
Xe-133	4,995
135	1,099
Kr-85m	582
87	333
88	1,165
Te-132	33
Cs-134	3
137	3
Co-58	2
60	1
Ce-141	56
Ba-140	45
La-140	43

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-6.1
VENT AIR SAMPLE ANALYSIS
 (After Filtration)

Total Concentration uci/cc *

Nuclide	(17:00 - 18:45)	(18:45 - 20:00)	(20:00 - 2300)
	T + 00:00 - 01:45	T + 01:45 - 03:00	T + 03:00 - 06:00
I-131	3.3×10^{-10}	3.1×10^{-6}	5.7×10^{-3}
132	4.8×10^{-10}	2.6×10^{-6}	3.3×10^{-3}
133	7.2×10^{-10}	6.3×10^{-6}	1.2×10^{-2}
134	8.1×10^{-10}	3.4×10^{-6}	1.4×10^{-3}
135	6.6×10^{-10}	6.3×10^{-6}	8.5×10^{-3}
Xe-133	8.6×10^{-9}	2.630	4,995
135	4.1×10^{-9}	.645	1,099
Kr-85m	1.9×10^{-9}	.390	582
87	4.1×10^{-9}	.628	333
88	5.9×10^{-9}	.950	1,165
Te-132	---	1.7×10^{-6}	3.3×10^{-3}
Cs-134	---	1.9×10^{-7}	3.0×10^{-4}
137	---	2.0×10^{-7}	3.0×10^{-4}
Co-58	---	1.0×10^{-7}	2.0×10^{-4}
60	---	3.39×10^{-8}	1.0×10^{-4}
Ce-141	---	2.9×10^{-6}	5.6×10^{-3}
Ba-140	---	2.4×10^{-6}	4.5×10^{-3}
La-140	---	2.2×10^{-6}	4.3×10^{-3}

* Data provided reflects analysis results from samples taken at the indicated times.

TABLE 6-6.2

VENT AIR SAMPLE ANALYSIS (T + 00:00-01:45) (1700-1845)

(After Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(17:00 - 18:45)</u> <u>T + 00:00 - 01:45</u>
I-131	3.3×10^{-10}
132	4.8×10^{-10}
133	7.2×10^{-10}
134	8.1×10^{-10}
135	6.6×10^{-10}
Xe-133	8.6×10^{-9}
135	4.1×10^{-9}
Kr-85m	1.9×10^{-9}
87	4.1×10^{-9}
88	5.9×10^{-9}
Te-132	---
Cs-134	---
137	---
Co-58	---
60	---
Ce-141	---
Ba-140	---
La-140	---

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-6.3

VENT AIR SAMPLE ANALYSIS (T + 01:45-03:00) (1845-2000)

(After Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(18:45 - 20:00)</u> <u>T + 01:45 - 03:00</u>
I-131	3.1×10^{-6}
132	2.6×10^{-6}
133	6.3×10^{-6}
134	3.4×10^{-6}
135	6.3×10^{-6}
Xe-133	2.630
135	.645
Kr-85m	.390
87	.628
88	.950
Te-132	1.7×10^{-6}
Cs-134	1.9×10^{-7}
137	2.0×10^{-7}
Co-58	1.0×10^{-7}
60	3.39×10^{-8}
Ce-141	2.9×10^{-6}
Ba-140	2.4×10^{-6}
La-140	2.2×10^{-6}

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-6.4

VENT AIR SAMPLE ANALYSIS (T + 03:00-06:00) (2000-2300)

(After Filtration)

Total Concentration uci/cc *

<u>Nuclide</u>	<u>(20:00 - 23:00)</u> <u>T + 03:00 - 06:00</u>
I-131	5.7×10^{-3}
132	3.3×10^{-3}
133	1.2×10^{-2}
134	1.4×10^{-3}
135	8.5×10^{-3}
Xe-133	4,995
135	1,099
Kr-85m	582
87	333
88	1,165
Te-132	3.3×10^{-3}
Cs-134	3.0×10^{-4}
137	3.0×10^{-4}
Co-58	2.0×10^{-4}
60	1.0×10^{-4}
Ce-141	5.6×10^{-3}
Ba-140	4.5×10^{-3}
La-140	4.3×10^{-3}

* Data to be provided to dose assessment personnel. Data not available for use until 30 minutes after request.

TABLE 6-7
AREA RADIATION MONITORS

mRem/Hr

Elevation	Location	RE No.	(17:00-18:45)	(18:45)	(19:00)	(19:15)	(19:30)	(19:45)	(20:00)
			T + 00:00 - T + 01:45	T + 01:45	T + 02:00	T + 02:15	T + 02:30	T + 02:45	T + 03:00
8'	RB	001	.7	30	45	45	45	45	45
8'	RB	002	.2	100	150	150	150	150	150
8'	RB	003	.5	30	45	45	45	45	45
8'	RB	035	.5	30	45	45	45	45	45
40'	RB	004	1	1	4	4	5	5	5
40'	RB	005	1	1	4	4	5	5	5
63'	RB	006	1	200	OSH	OSH	OSH	OSH	OSH
63'	RB	007	1	200	OSH	OSH	OSH	OSH	OSH
78'	RB	008	.5	.5	OSH	OSH	OSH	OSH	OSH
78'	RB	009	.5	.5	OSH	OSH	OSH	OSH	OSH
78'	RB	036	.5	.5	OSH	OSH	OSH	OSH	OSH
78'	RB	037	.5	.5	OSH	OSH	OSH	OSH	OSH
78'	RB	085A	80	80	80	80	80	80	80
78'	RB	085B	80	80	90	80	80	80	80
112' - 9"	RB	010	1	1	2	2	2	2	2
112' - 9"	RB	011	1	1	2	2	2	2	2
160' - 9"	RB	012	1	1	2	2	2	2	5
160' - 9"	RB	013	1	1	2	2	2	2	2

* R/hr
OSH - Off Scale High

TABLE 6-7
AREA RADIATION MONITORS

mRem/Hr

(continued)

Elevation	Location	RE No.	(17:00-18:45)	(18:45)	(19:00)	(19:15)	(19:30)	(19:45)	(20:00)
			T + 00:00 - T + 01:45	T + 01:45	T + 02:00	T + 02:15	T + 02:30	T + 02:45	T + 03:00
175' - 9"	RB	014	1	2	2	2	2	2	5
175' - 9"	RB	015	1	2	2	2	2	2	1
175' - 9"	RB	038	1	2	2	2	2	2	5
63'	TB	019	1	2	10	10	10	10	10
63'	TB	020	1	2	2	2	2	2	2
63'	TB	021	1	2	2	2	2	2	2
	P-Accident Sampling	043	1	1	1	1	1	1	5
		044	1	1	1	1	1	1	5

* R/hr
OSH - Off Scale High

TABLE 6-7

AREA RADIATION MONITORS

mRem/Hr

(continued)

Elevation	Location	RE No.	(20:15) T + 03:15	(20:30) T + 03:30	(20:45) T + 03:45	(21:00) T + 04:00	(21:15) T + 04:15	(21:30) T + 04:30	(21:45) T + 04:45
8'	RB	001	45	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	002	150	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	003	45	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	035	45	OSH	OSH	OSH	OSH	OSH	OSH
40'	RB	004	OSH	OSH	OSH	OSH*	OSH	OSH	OSH
40'	RB	005	OSH	OSH	OSH	OSH	OSH	OSH	OSH
63'	RB	006	OSH	OSH	OSH	OSH	OSH	OSH	OSH
63'	RB	007	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	008	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	009	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	036	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	037	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	085A	80	80	80	80	80	80	80
78'	RB	085B	80	80	80	80	80	80	80
112' - 9"	RB	010	OSH	OSH	OSH	OSH	OSH	OSH	OSH
112' - 9"	RB	011	OSH	OSH	OSH	OSH	OSH	OSH	OSH
160' - 9"	RB	012	OSH	OSH	OSH	OSH	OSH	OSH	OSH
160' - 9"	RB	013	OSH	OSH	OSH	OSH	OSH	OSH	OSH

* - R/hr
OSH - Off Scale High

TABLE 6-7
AREA RADIATION MONITORS

mRem/Hr

(continued)

Elevation	Location	RE No.	(20:15)	(20:30)	(20:45)	(21:00)	(21:15)	(21:30)	(21:45)
			T + 03:15	T + 03:30	T + 03:45	T + 04:00	T + 04:15	T + 04:30	T + 04:45
175' - 9"	RB	014	5	OSH	OSH	OSH	OSH	OSH	OSH
175' - 9"	RB	015	2	OSH	OSH	OSH	OSH	OSH	OSH
175' - 9"	RB	038	5	OSH	OSH	OSH	OSH	OSH	OSH
63'	TB	019	20	20	120	300	300	300	300
63'	TB	020	2	2	10	30	30	30	30
63'	TB	021	2	2	10	30	30	30	30
	P-Accident Sampling	043	10	15	40	45	50	50	55
		044	10	15	40	45	50	50	55

* - R/hr
OSH - Off Scale High

TABLE 6-7

AREA RADIATION MONITORS

mRem/Hr

(continued)

Elevation	Location	RE No.	(22:00)		(22:15)		(22:30)		(22:45)		(23:00)	
			T	+ 05:00	T	+ 05:15	T	+ 05:30	T	+ 05:45	T	+ 06:00
8'	RB	001	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	002	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	003	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
8'	RB	035	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
40'	RB	004	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
40'	RB	005	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
63'	RB	006	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
63'	RB	007	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	008	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	009	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	036	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	037	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
78'	RB	085A	80	80	80	80	80	80	80	80	80	80
78'	RB	085B	80	80	80	80	80	80	80	80	80	80
112' - 9"	RB	010	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
112' - 9"	RB	011	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
160' - 9"	RB	012	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
160' - 9"	RB	013	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH

* - R/hr
OSH - Off Scale High

TABLE 6-7
AREA RADIATION MONITORS

mRem/Hr

(continued)

Elevation	Location	RE No.	(22:00)	(22:15)	(22:30)	(22:45)	(23:00)		
			+ 05:00	+ 05:15	+ 05:30	+ 05:45	+ 06:00		
175' - 9"	RB	014	OSH	OSH	OSH	OSH	OSH		
175' - 9"	RB	015	OSH	OSH	OSH	OSH	OSH		
175' - 9"	RB	038	OSH	OSH	OSH	OSH	OSH		
63'	TB	019	300	200	50	20	10		
63'	TB	020	30	20	5	2	1		
63'	TB	021	30	20	5	2	1		
	P-Accident	043	15	15	5	2	1		
	Sampling	044	15	15	5	2	1		

* - R/hr

OSH - Off Scale High

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS

System	(17:00) T + 00:00	(17:15) T + 00:15	(17:30) T + 00:30	(17:45) T + 00:45	(18:00) T + 01:00	(18:15) T + 01:15	(18:30) T + 01:30	(18:45) T + 01:45
Containment Drywell Filter Train Exhaust A B	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA
Main Steam Line A B C D	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr
Station Vent Exhaust PM-126 (uCi/cc)	N	N	N	N	N	N	N	N
Station Vent Exhaust PM-42 (CPM)	N	N	N	N	250	240	250	255
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	N	N	N	N	N	N	N	N
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	N	N	N	N	N	N	2,000	10,000
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	N	N	N	N	N	N	N	N
Station Vent Flow cfm	366,600	366,600	366,600	366,600	366,600	366,600	366,600	366,600
PM-21/PM-22 Flow cfm	0	0	0	0	0	0	0	0
RBSVS Flow cfm	0	0	0	0	0	0	0	0

MDA - Minimum Detectable Activity
 OSH - Off Scale High
 N - Normal

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS
(continued)

System	(19:00) T + 02:00	(19:15) T + 02:15	(19:30) T + 02:30	(19:45) T + 02:45	(20:00) T + 03:00	(20:15) T + 03:15	(20:30) T + 03:30	(20:45) T + 03:45
Containment Drywell Filter Train Exhaust								
A	MDA	MDA	MDA	MDA	MDA	MDA	MDA	MDA
B	MDA	MDA	MDA	MDA	MDA	MDA	MDA	MDA
Main Steam Line								
A	1 mr/hr	1 mr/hr	1 mr/hr	1 mr/hr	OSH	OSH	OSH	OSH
B	1 mr/hr	1 mr/hr	1 mr/hr	1 mr/hr	OSH	OSH	OSH	OSH
C	1 mr/hr	1 mr/hr	1 mr/hr	1 mr/hr	OSH	OSH	OSH	OSH
D	1 mr/hr	1 mr/hr	1 mr/hr	1 mr/hr	OSH	OSH	OSH	OSH
Station Vent Exhaust PM-126 (uCi/cc)	.04	.05	.06	--	--	--	--	--
Station Vent Exhaust PM-42 (CPM)	1000	2000	3000	--	--	--		
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	N	N	N	N	N	N	--	--
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	N	N	N	N	N	N	N	N
Station Vent Flow cfm	366,600	366,600	366,600	0	0	0	0	0
PM-21/PM-22 Flow cfm	6	6	6	6	6	0	0	0
RBSYS Flow cfm	0	0	0	1160	1160	0	0	0

MDA - Minimum Detectable Activity
OSH - Off Scale High
N - Normal

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS

(continued)

System	(21:00) T + 04:00	(21:15) T + 04:15	(21:30) T + 04:30	(21:45) T + 04:45	(22:00) T + 05:00	(22:15) T + 05:15	(22:30) T + 05:30	(22:45) T + 05:45
Containment Drywell Filter Train Exhaust A B	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA
Main Steam Line A B C D	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH
Station Vent Exhaust PM-126 (uCi/cc)	--	--	--	--	OSH	N	N	N
Station Vent Exhaust PM-42 (CPM)	--	--	--	OSH	1000	N	N	N
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	15,000	15,000	15,000	7,000	3,000	N	N	N
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	OSH	OSH	OSH	OSH	OSH	N	N	N
Station Vent Flow cfm	0	0	0	366,600	366,600	366,600	366,600	366,600
PM-21/PM-22 Flow cfm	0	0	0	0	0	0	0	0
RBSVS Flow cfm	1160	1160	1160	1160	0	0	0	0

MDA - Minimum Detectable Activity

OSH - Off Scale High

N - Normal

TABLE 6-9

RADIOLOGICAL SURVEY/SAMPLING DATA

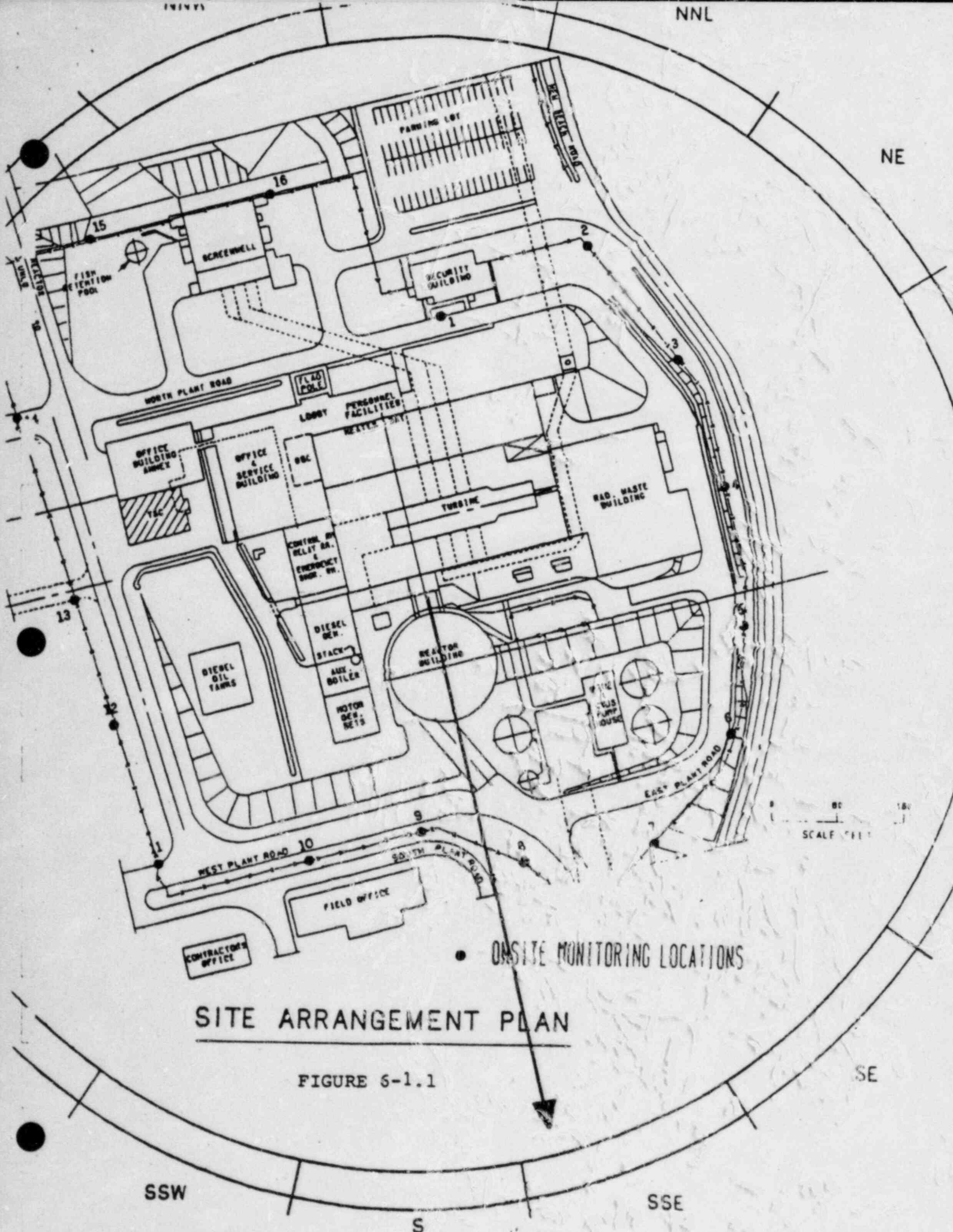
Sample Collection Time: 5 min
 Sample Starting Flow Rate: 5 CFM
 Sample Ending Flow Rate: 5 CFM
 Air Sample Volume: 25 Ft.³
 Background Level During Release: 60 CPM

AREA LOCATION KEY	CLOSED WINDOW		OPEN WINDOW		SMEARABLE (CPM)	BARE CANISTER (Gross CPM)	CANISTER WITH FILTER (Gross CPM)	DOSIMETRY INCREMENTAL EXPOSURE (mRem)	THYROID (mR/hr)
	4 Feet	4 Inches	4 Feet	4 Inches					
A	7000 mR/hr	7000 mR/hr	14000 mR/hr	14000 mR/hr				3500	
B	6000 mR/hr	6000 mR/hr	12000 mR/hr	12000 mR/hr				3000	
C	3000 mR/hr	3000 mR/hr	5500 mR/hr	5500 mR/hr				1375	
D	1000 mR/hr	1000 mR/hr	1500 mR/hr	1500 mR/hr				375	
E	600 mR/hr	600 mR/hr	800 mR/hr	800 mR/hr				200	
F	300 mR/hr	300 mR/hr	400 mR/hr	400 mR/hr				100	
G	100 mR/hr	100 mR/hr	125 mR/hr	125 mR/hr				31	
H	60 mR/hr	60 mR/hr	75 mR/hr	75 mR/hr				19	
I	36000 CPM	36000 CPM	36000 CPM	36000 CPM				7.5	
J	12000 CPM	12000 CPM	12000 CPM	12000 CPM				2.5	
K	7200 CPM	7200 CPM	7200 CPM	7200 CPM				1.5	
L	3600 CPM	3600 CPM	3600 CPM	3600 CPM				0.75	
M	1200 CPM	1200 CPM	1200 CPM	1200 CPM				0.25	
N	1200 CPM	1200 CPM	1200 CPM	1200 CPM				----	

* Data to be provided to Survey/Sample Team personnel at the appropriate times and locations.

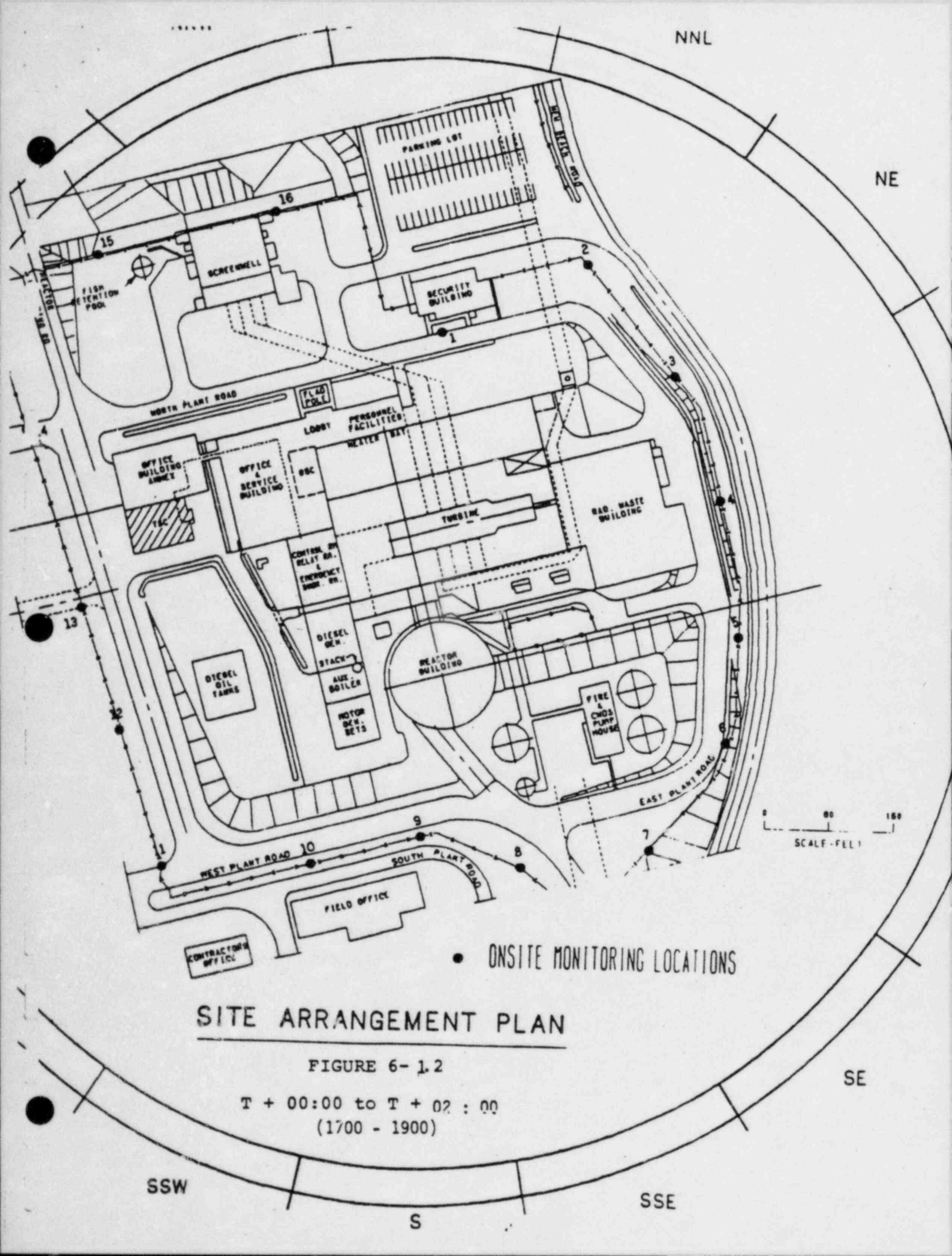
** Surveys taken inside buildings (onsite) will show radiation levels that are 1/10 of those indicated.

*** Each time an entry into this area is made, participants will be told every 15 minutes they have received the corresponding radiation exposure via self-reading dosimeters. This exposure will be repeated for each 15 minute period, or portion thereof. Controllers must estimate time - if unsure, give the higher exposure value.



SITE ARRANGEMENT PLAN

FIGURE S-1.1



NNL

NE

0 60 180
SCALE - FEET

• ONSITE MONITORING LOCATIONS

SITE ARRANGEMENT PLAN

FIGURE 6-1.2

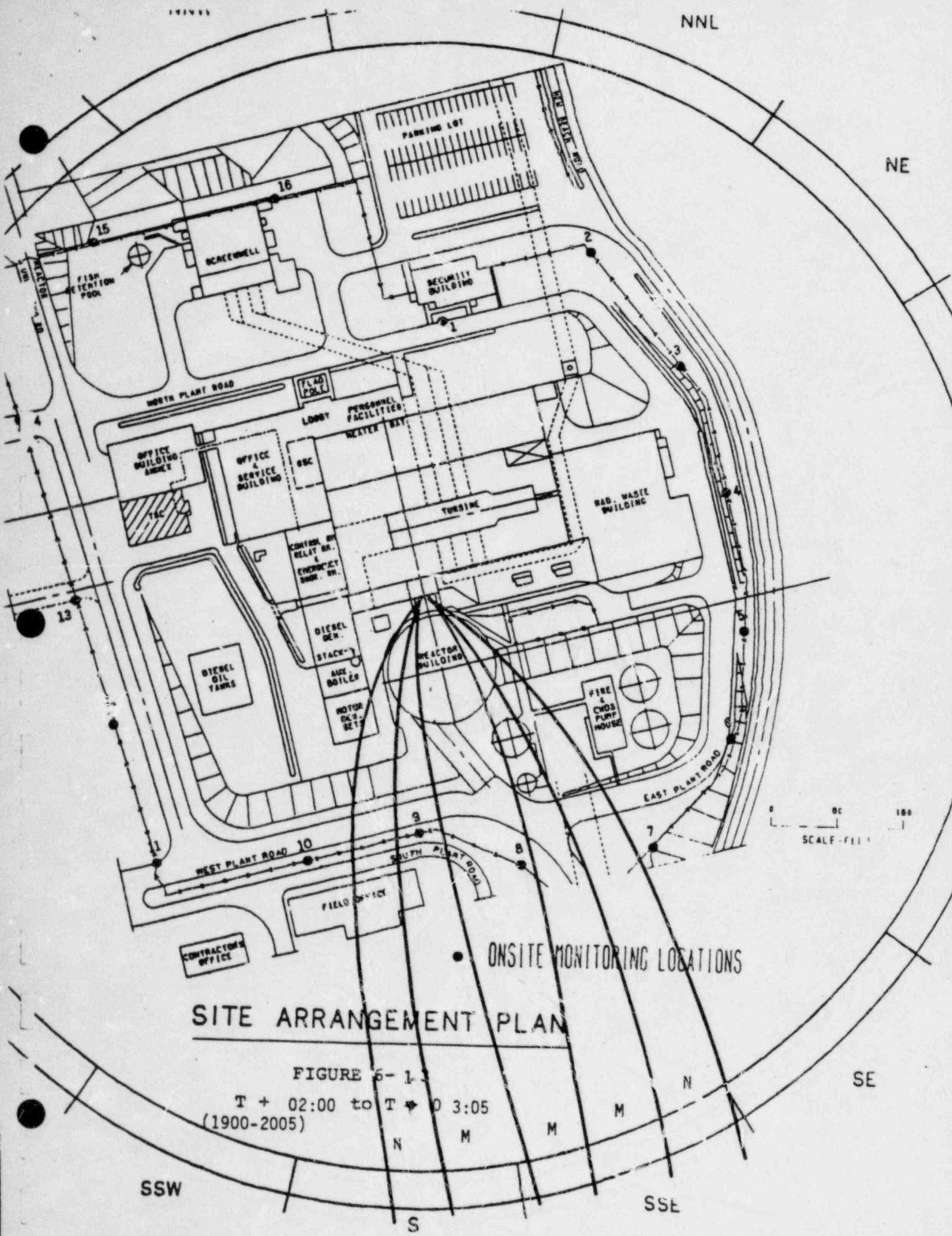
T + 00:00 to T + 02:00
(1700 - 1900)

SSW

S

SSE

SE



SITE ARRANGEMENT PLAN

FIGURE 6-1
 T + 02:00 to T + 03:05
 (1900-2005)

ONSITE MONITORING LOCATIONS

SSW

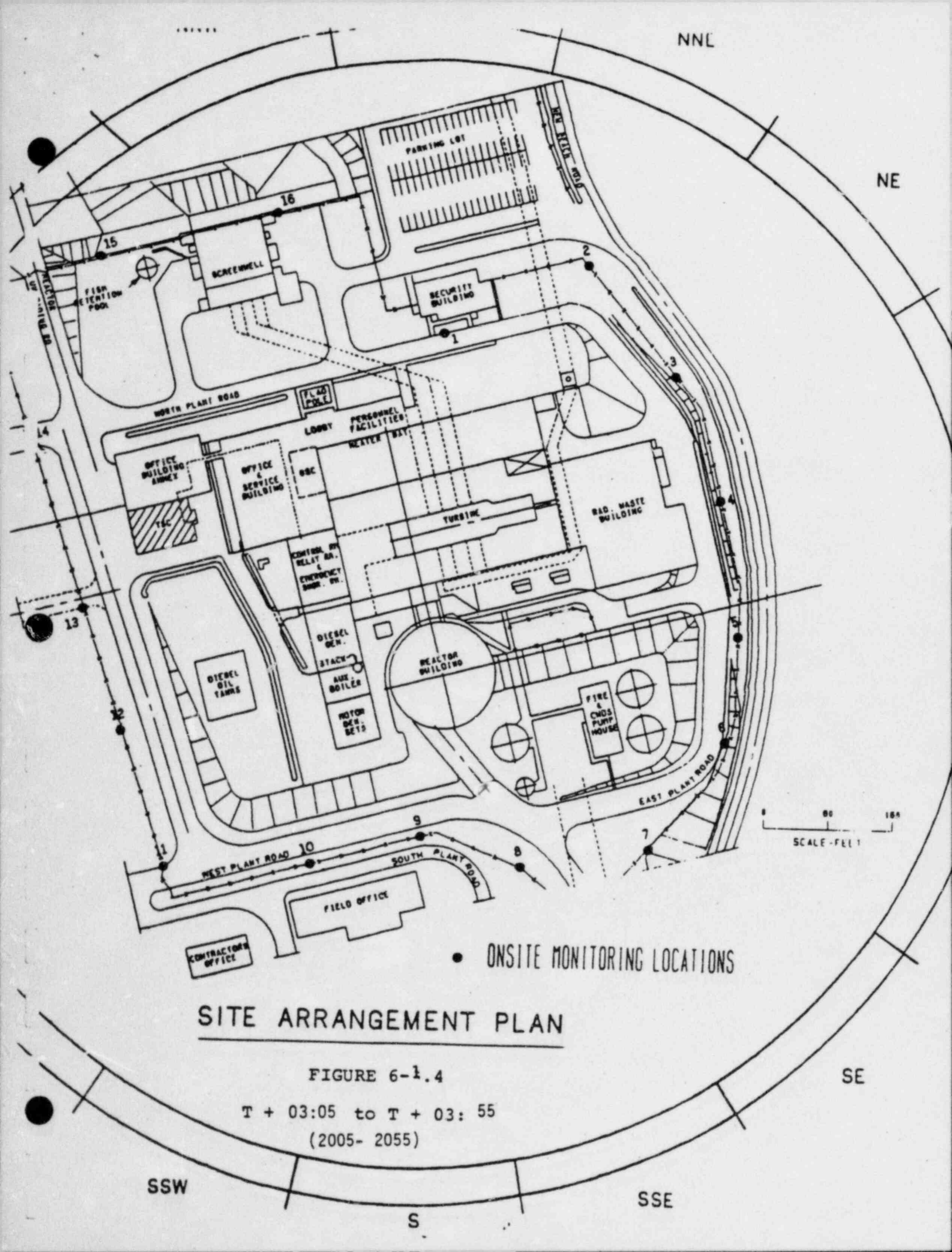
S

SSE

SE

NNL

NE



NNL

NE

SITE ARRANGEMENT PLAN

FIGURE 6-1.4

T + 03:05 to T + 03:55
(2005- 2055)

SSW

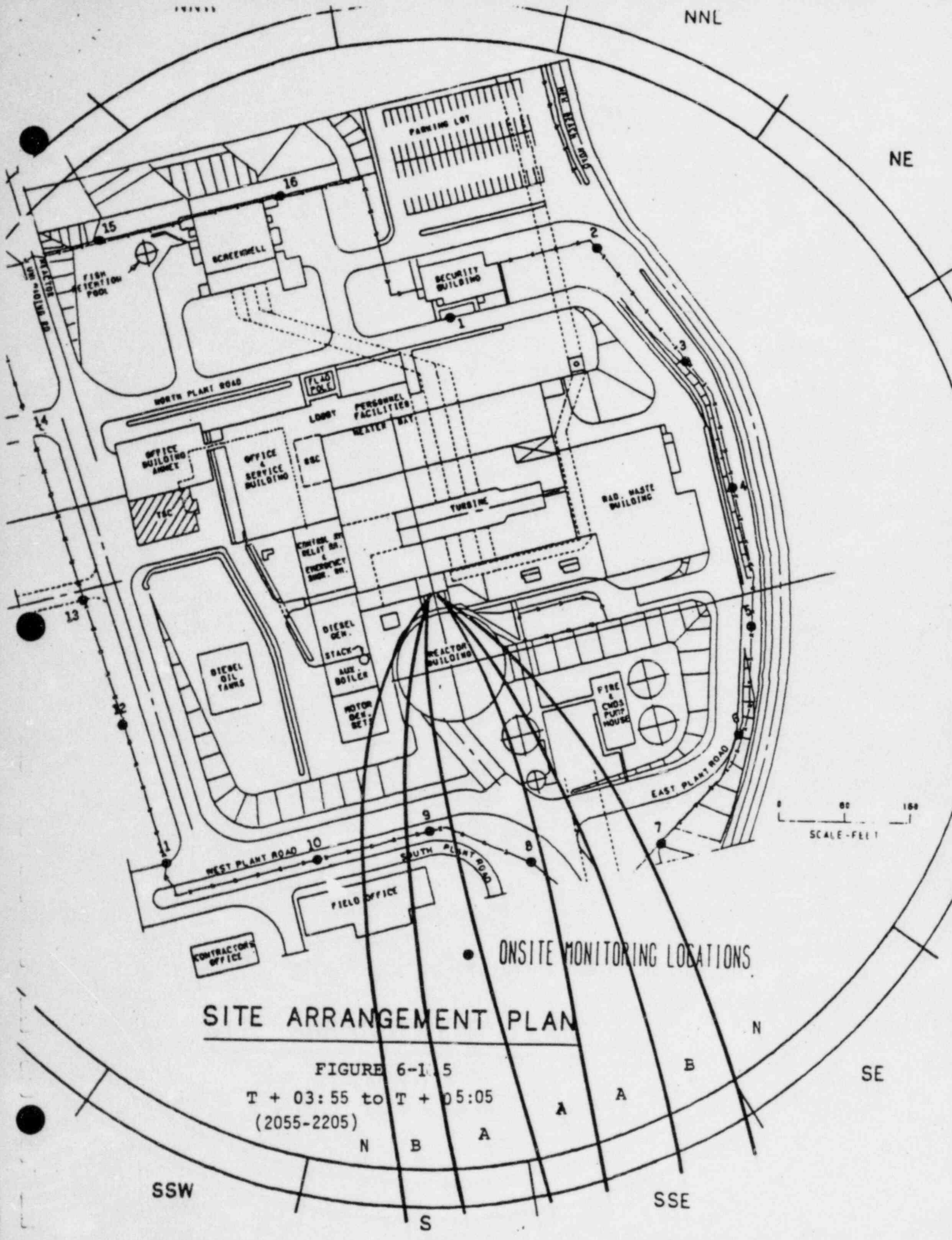
S

SSE

SE

• ONSITE MONITORING LOCATIONS

0 60 120
SCALE - FEET



SITE ARRANGEMENT PLAN

FIGURE 6-1.5
 T + 03:55 to T + 05:05
 (2055-2205)

ONSITE MONITORING LOCATIONS

SSW

S

SSE

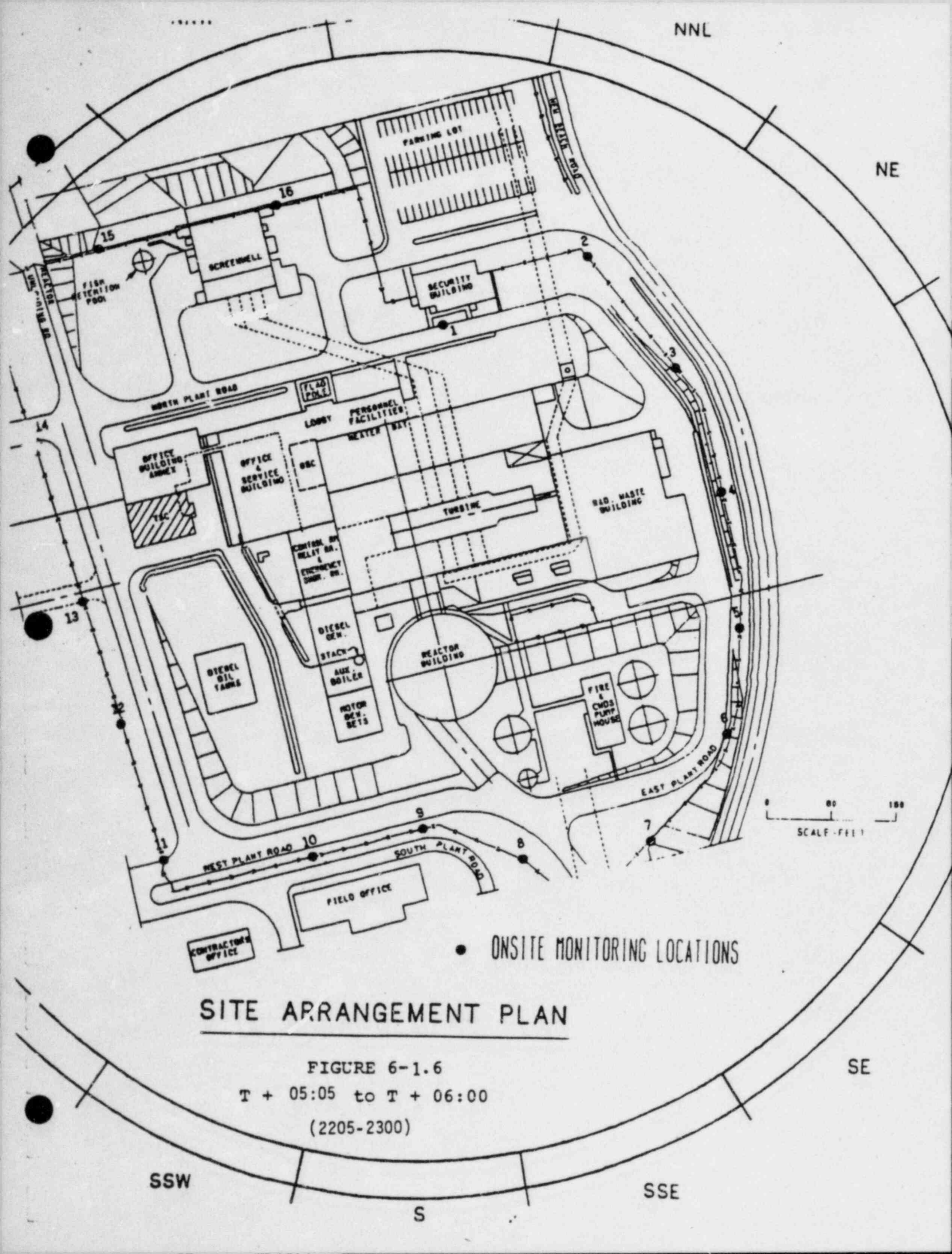
N

SE

NNL

NE

0 80 160
 SCALE - FEET



SITE ARRANGEMENT PLAN

FIGURE 6-1.6
 T + 05:05 to T + 06:00
 (2205-2300)

1-MILE RADIUS OF SNPS

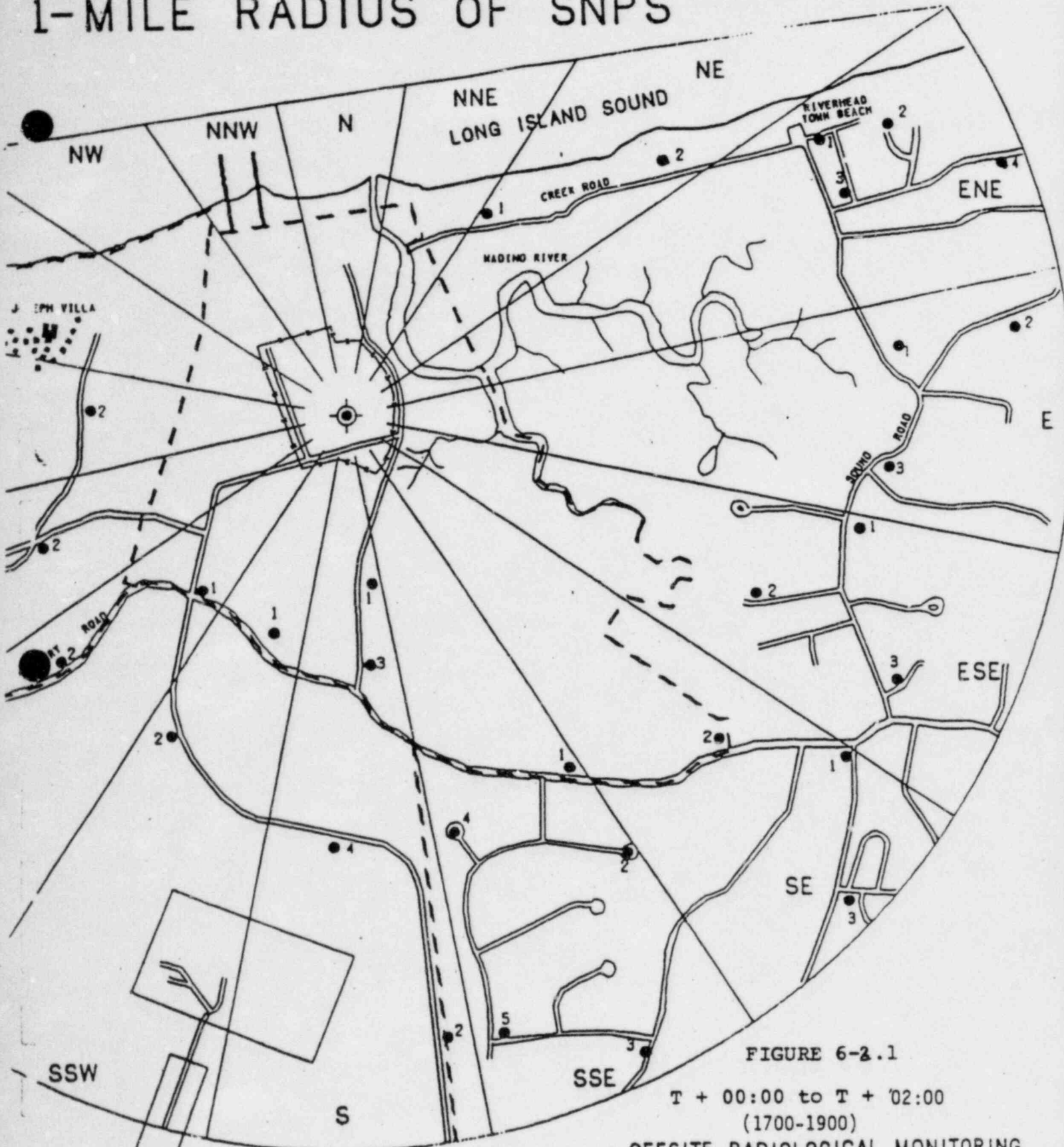


FIGURE 6-2.1

T + 00:00 to T + '02:00
(1700-1900)

● OFFSITE RADIOLOGICAL MONITORING LOCATIONS

— SECURITY FENCE

- - - PROPERTY LINE

0 200 500 1000 1500 2000 2500

SCALE IN FEET

1-MILE RADIUS OF SNPS

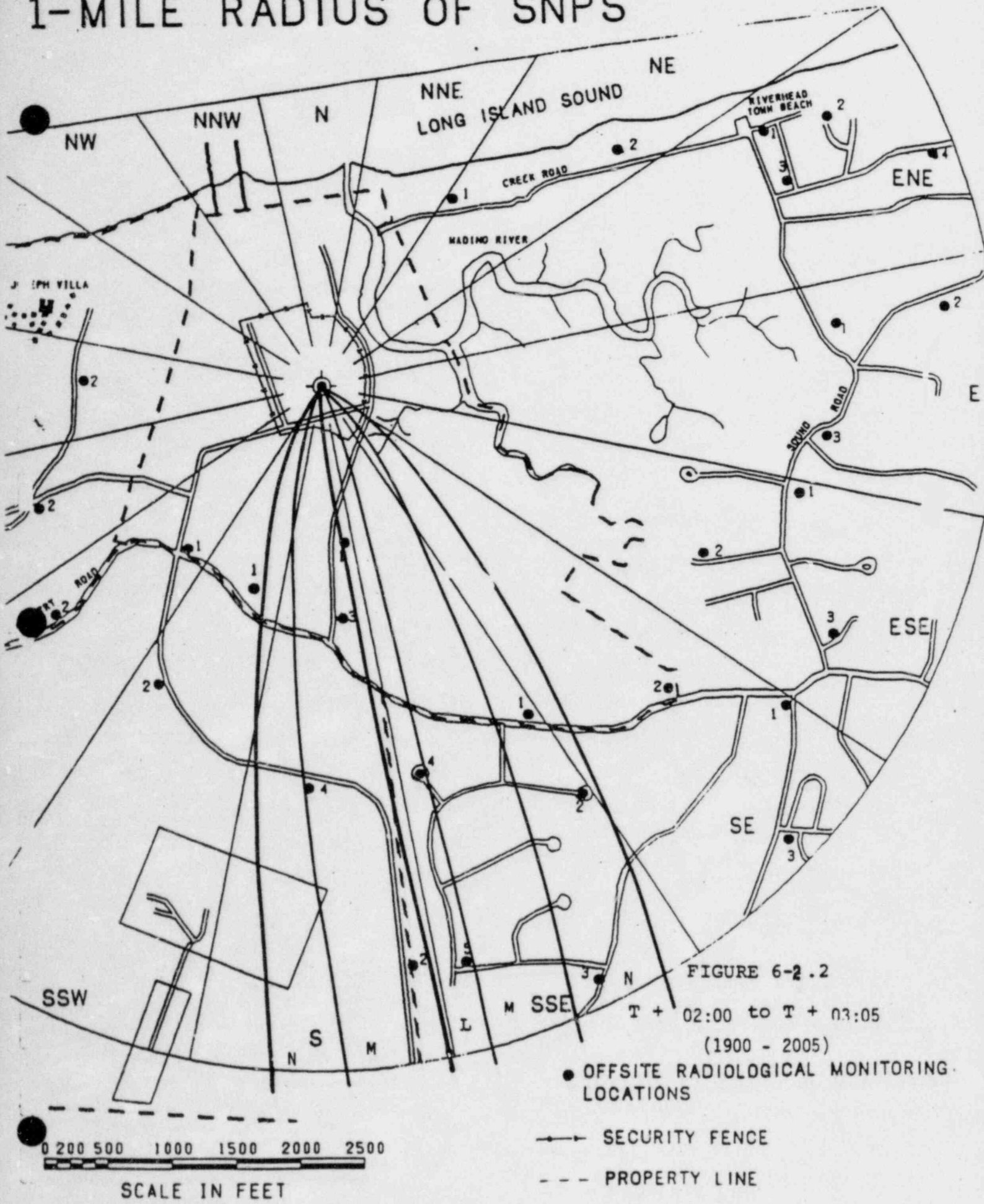


FIGURE 6-2.2

T + 02:00 to T + 03:05
(1900 - 2005)

● OFFSITE RADIOLOGICAL MONITORING LOCATIONS

—→ SECURITY FENCE

- - - PROPERTY LINE

0 200 500 1000 1500 2000 2500
SCALE IN FEET

1-MILE RADIUS OF SNPS

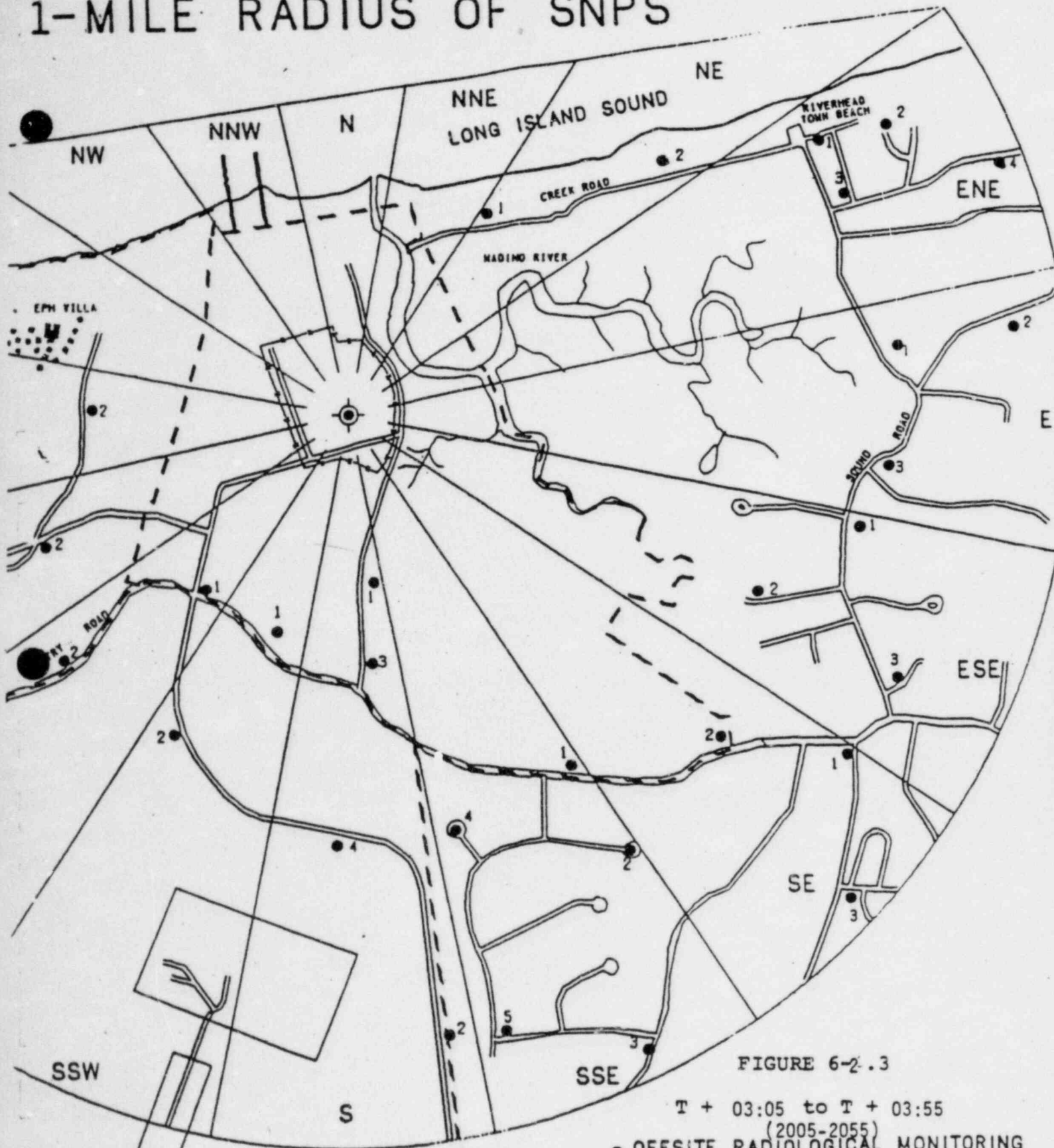


FIGURE 6-2.3

T + 03:05 to T + 03:55
(2005-2055)

● OFFSITE RADIOLOGICAL MONITORING LOCATIONS

— SECURITY FENCE

- - - PROPERTY LINE

0 200 500 1000 1500 2000 2500

SCALE IN FEET

1/2-MILE RADIUS OF SNPS

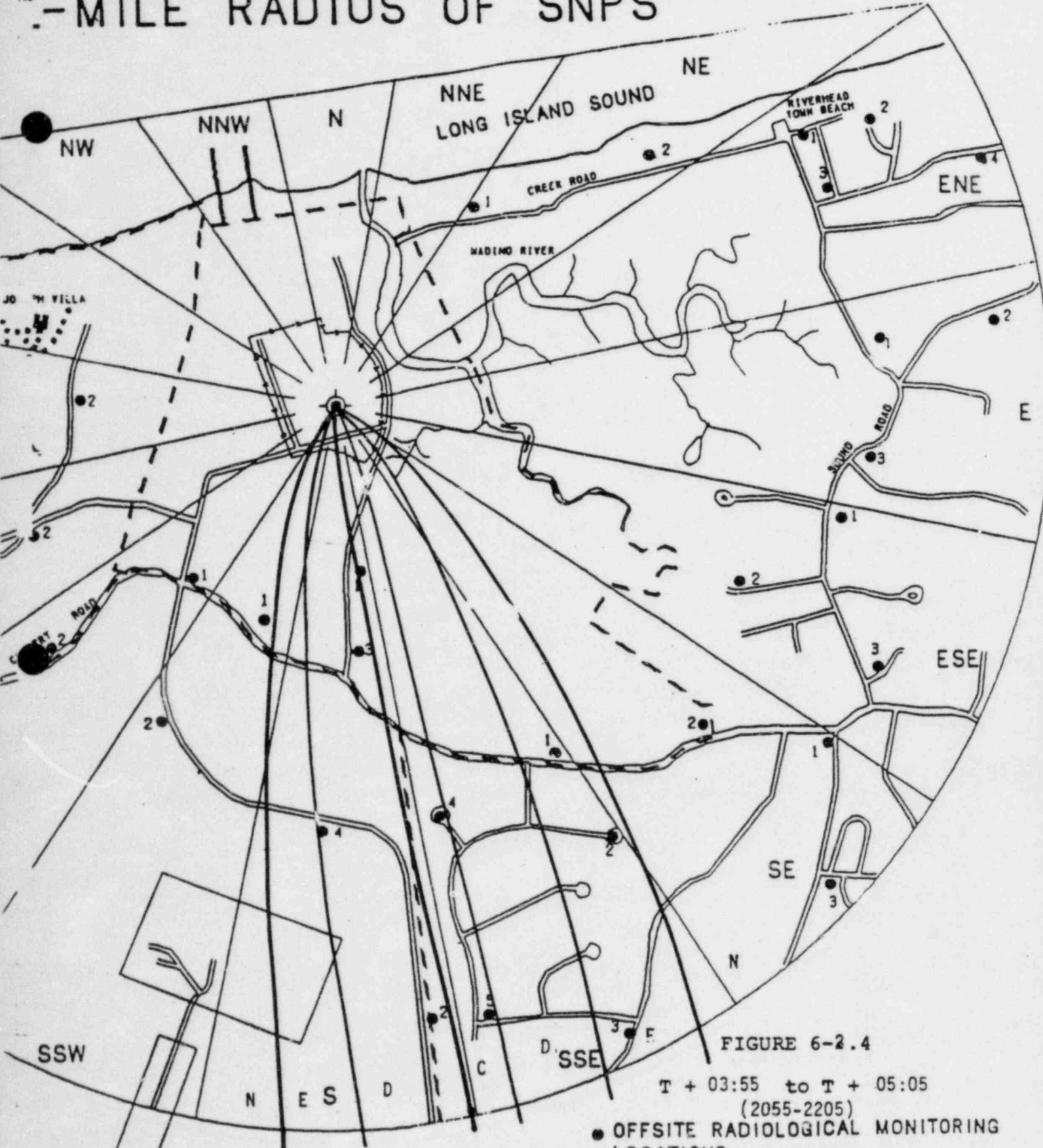


FIGURE 6-2.4

T + 03:55 to T + 05:05
(2055-2205)

● OFFSITE RADIOLOGICAL MONITORING LOCATIONS

—→ SECURITY FENCE

- - - PROPERTY LINE

0 200 500 1000 1500 2000 2500

SCALE IN FEET

1/2-MILE RADIUS OF SNPS

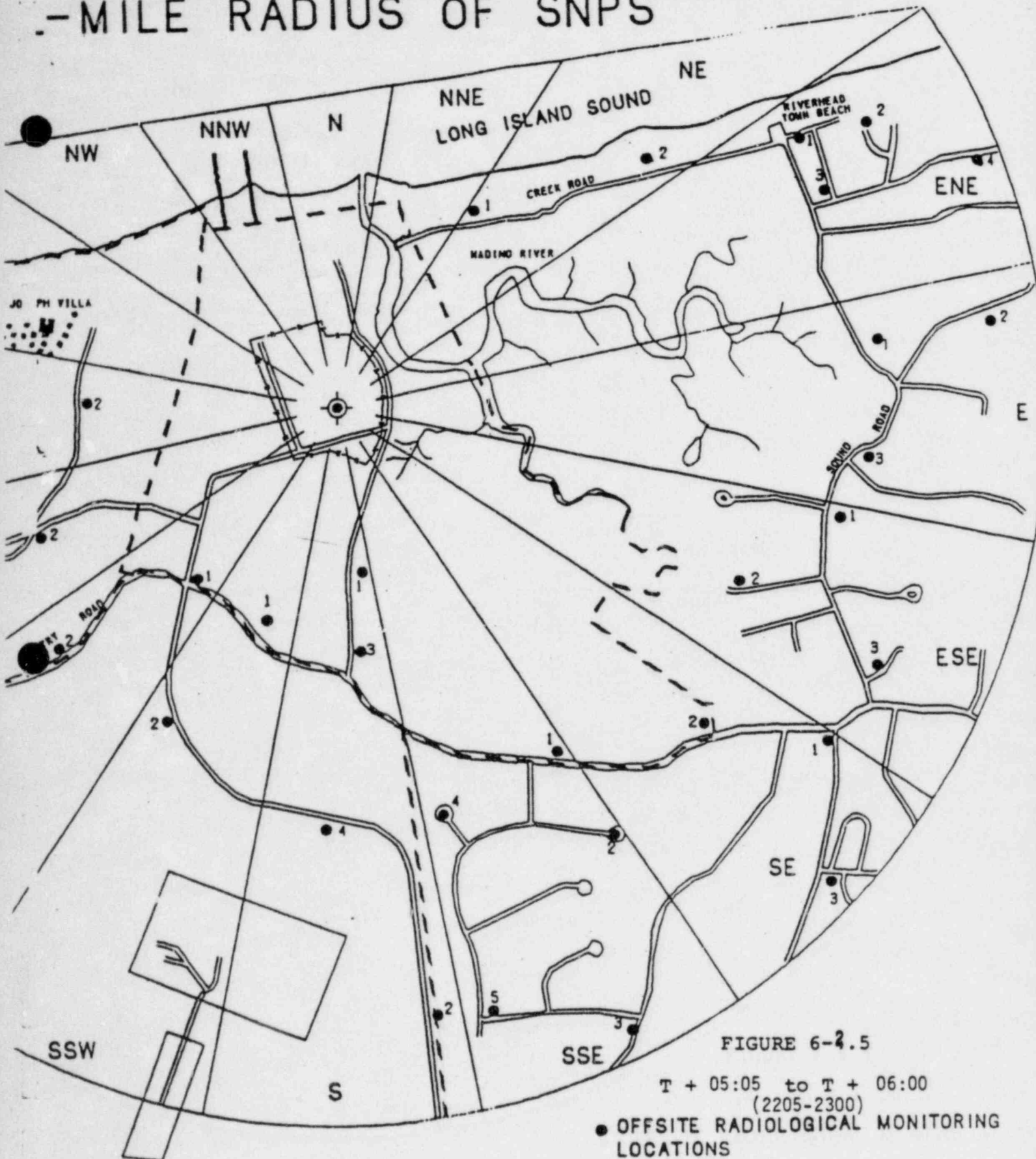


FIGURE 6-4.5

T + 05:05 to T + 06:00
(2205-2300)

● OFFSITE RADIOLOGICAL MONITORING LOCATIONS

— SECURITY FENCE

- - - PROPERTY LINE

0 200 500 1000 1500 2000 2500

SCALE IN FEET

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE: NOV-82

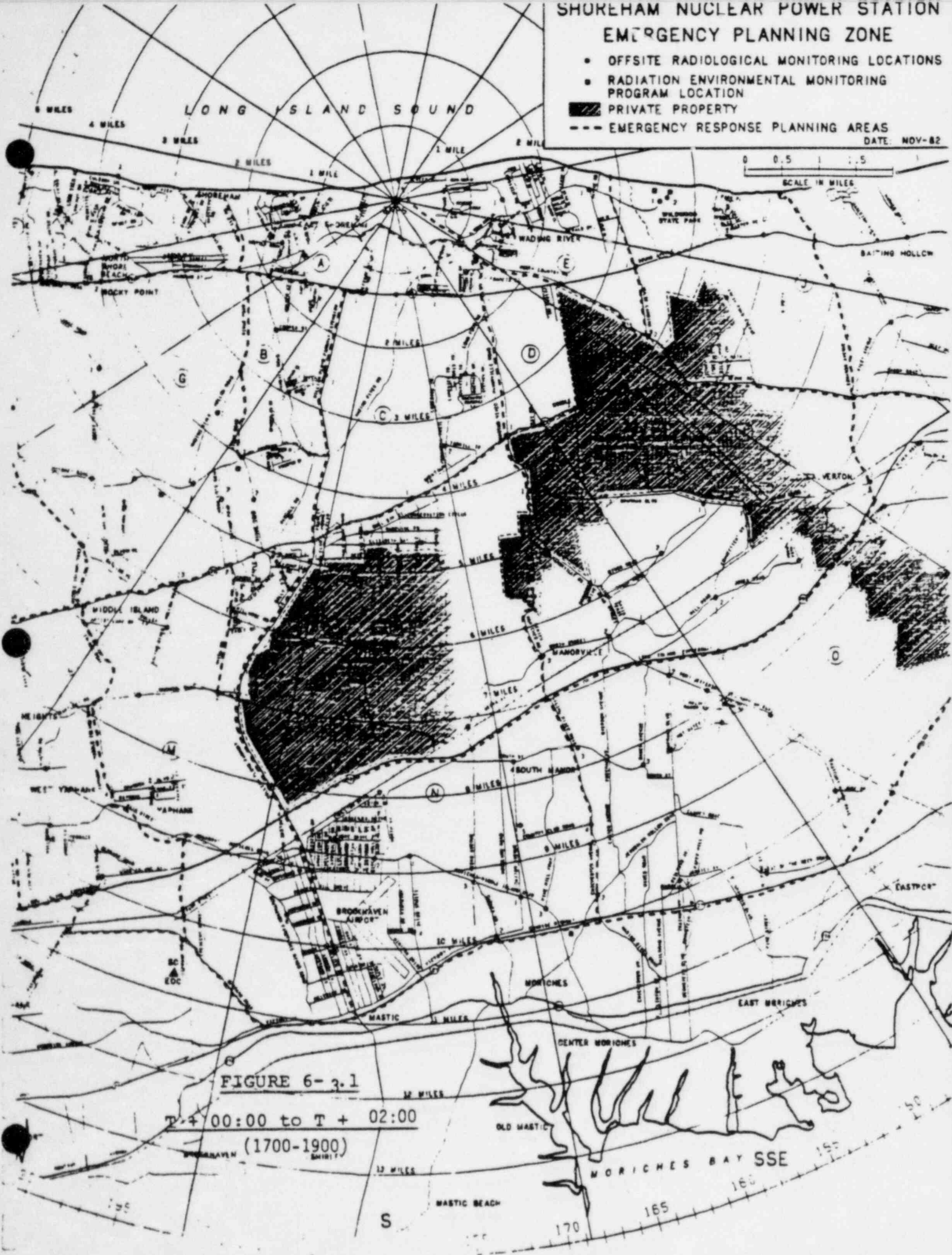
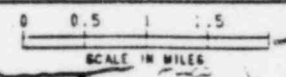


FIGURE 6-3.1

T + 00:00 to T + 02:00
 (1700-1900)

S

170

165

160

155

150

12 MILES

13 MILES

MASTIC BEACH

OLD MASTIC

CENTER MORICHES

MORICHES

EAST MORICHES

EASTPORT

SOUTH HAVEN

SAVOYVILLE

VERTON

BAITING HOLLOW

WADING RIVER

LONG ISLAND SOUND

SHOREHAM

WORLD WIDE BEACH

ROCKY POINT

MIDDLE ISLAND

WEST VERNON

VAPHAM

BROCKHAVEN AIRPORT

EDC

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

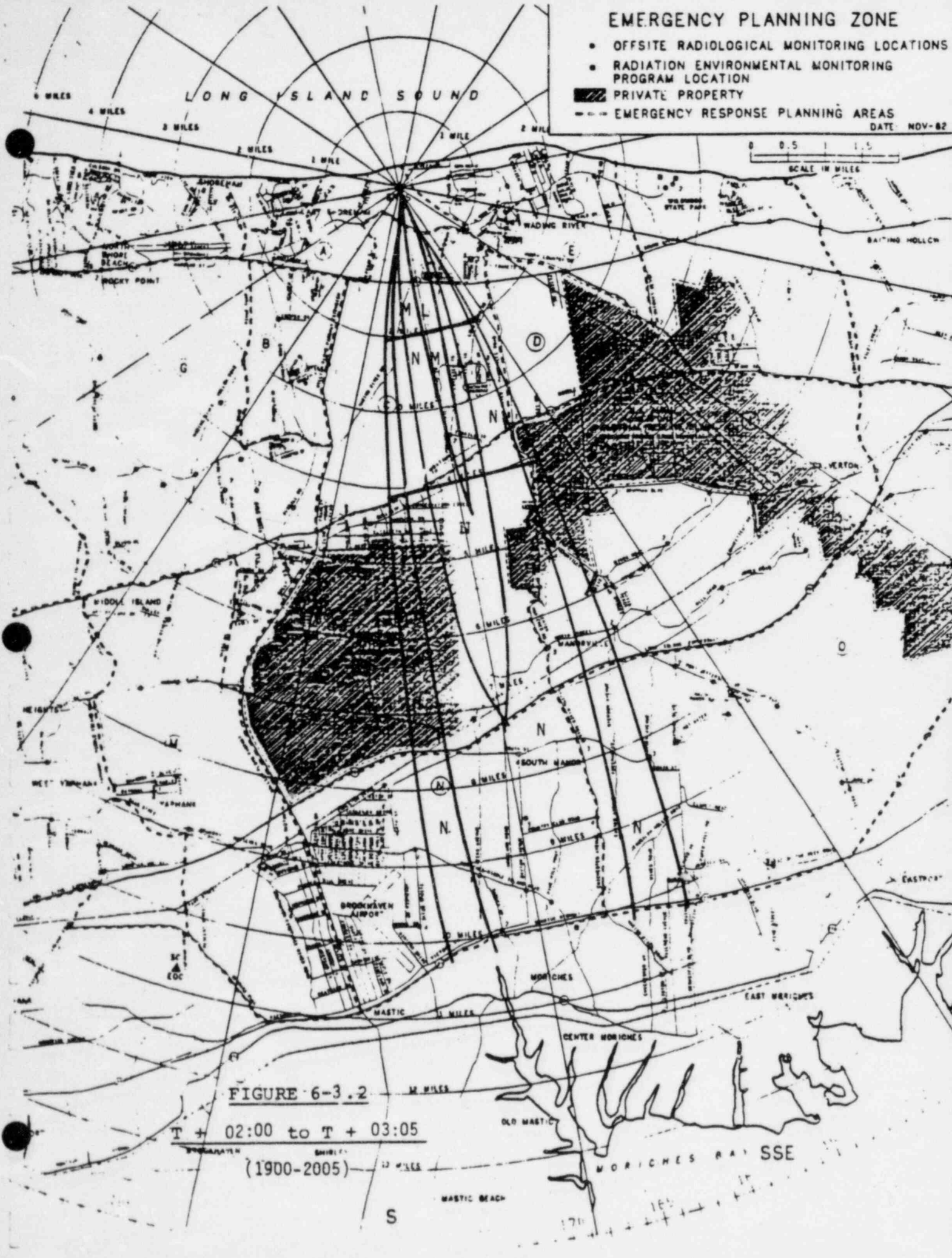
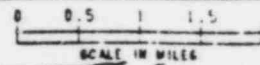


FIGURE 6-3.2
T + 02:00 to T + 03:05
(1900-2005)

S

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

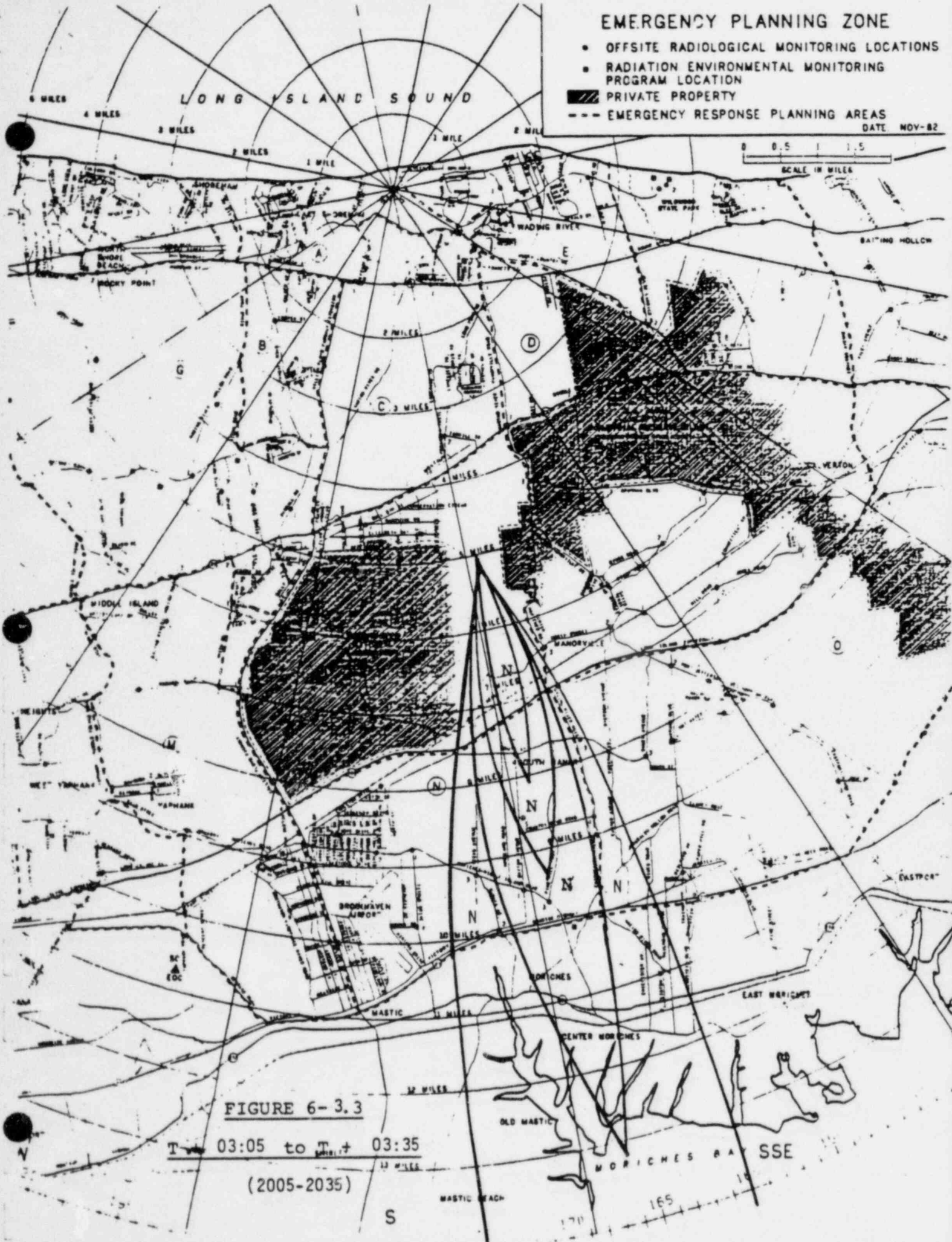
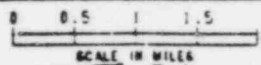


FIGURE 6-3.3

T-03:05 to T+03:35

(2005-2035)

S

MORICHES RA SSE

165

170

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

0 0.5 1 1.5
SCALE IN MILES

LONG ISLAND SOUND

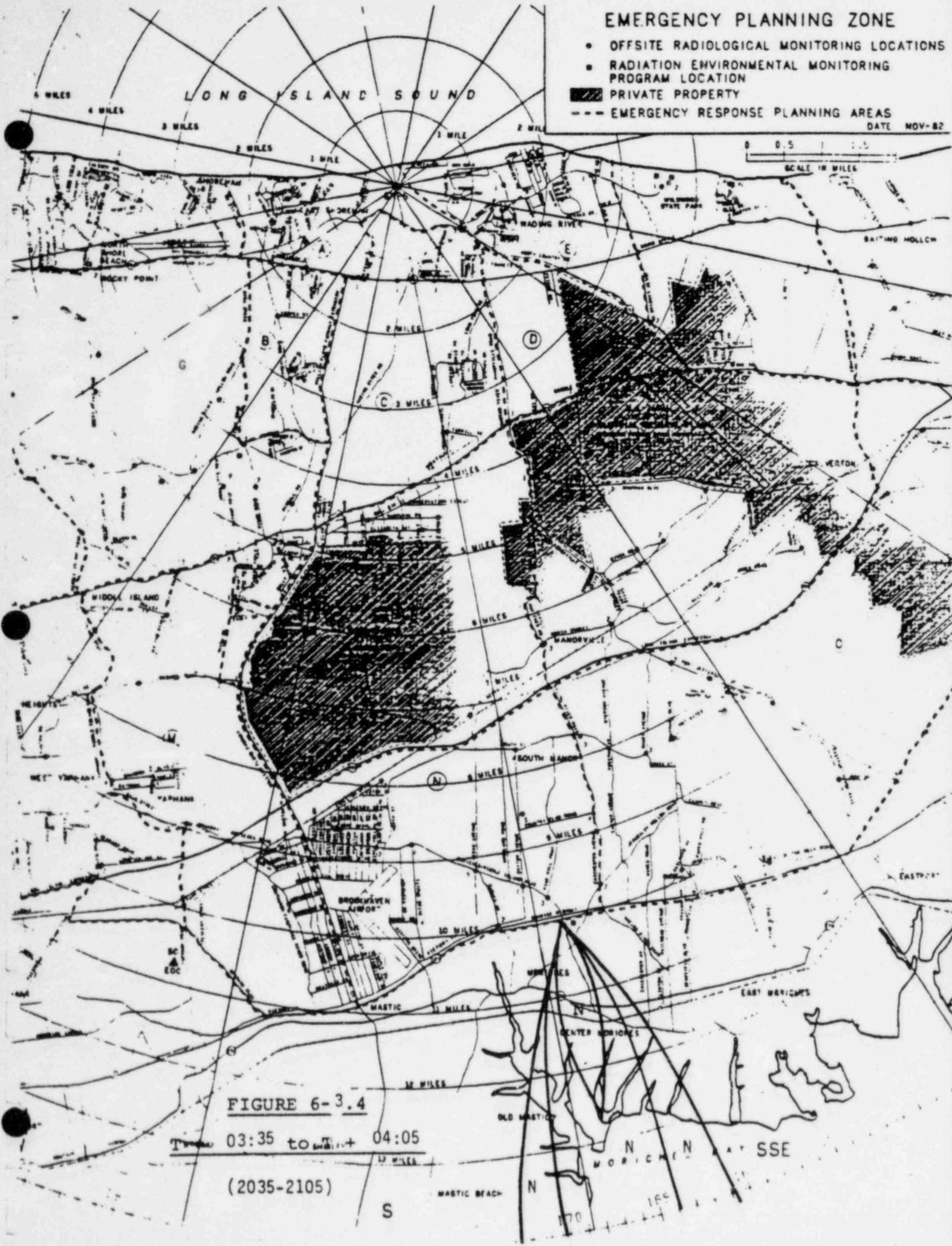


FIGURE 6-3.4

03:35 to 04:05

(2035-2105)

S

MASTIC BEACH

MORICHES N AT SSE

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE NOV-82

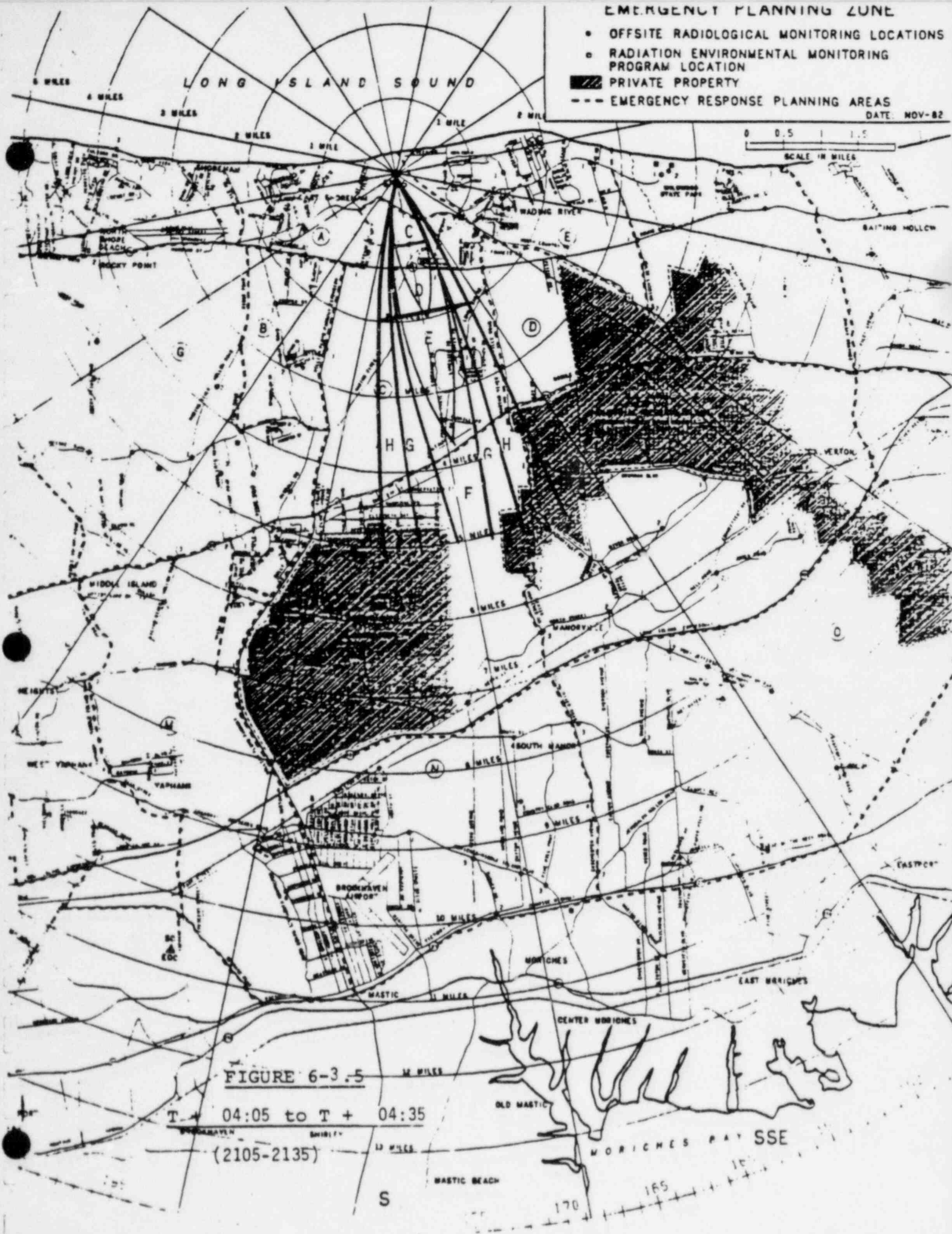
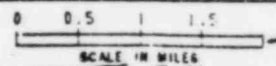


FIGURE 6-3.5

T + 04:05 to T + 04:35

(2105-2135)

S

170

165

15

EMERGENCY PLANNING ZONE

- OFFSITE RADIOLOGICAL MONITORING LOCATIONS
- RADIATION ENVIRONMENTAL MONITORING PROGRAM LOCATION
- ▨ PRIVATE PROPERTY
- - - EMERGENCY RESPONSE PLANNING AREAS

DATE: NOV-82

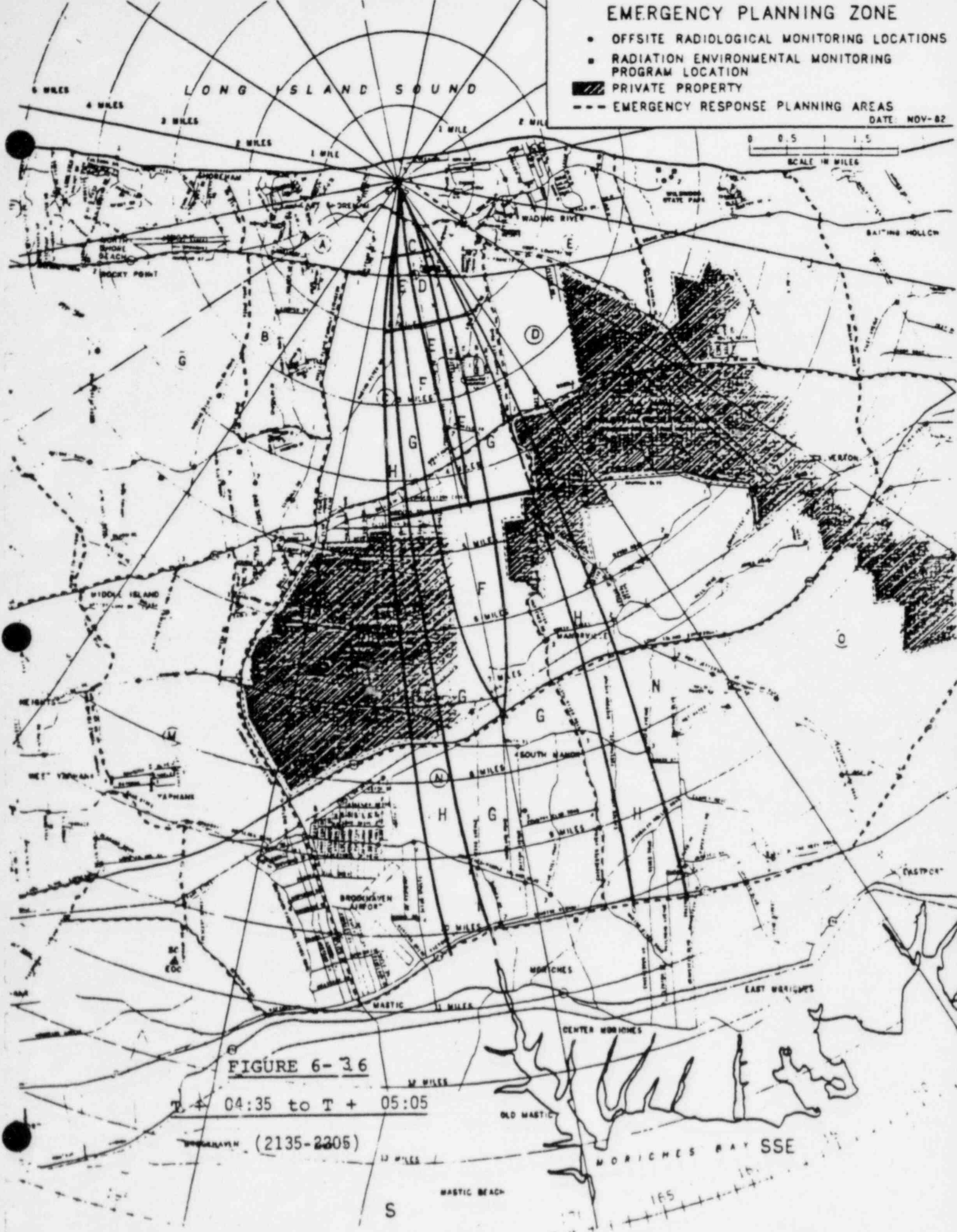
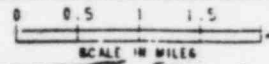


FIGURE 6-36

T + 04:35 to T + 05:05

BROOKHAVEN (2135-2205)

1 MILE
2 MILES
3 MILES
4 MILES
5 MILES
6 MILES

S

MORICHES BAY SSE

1.5

7.0 CONTROLLER/OBSERVER INSTRUCTIONS

Exercise Controller/Observer Conduct

- A. Each Controller/Observer should be familiar with the following:
1. The basic objectives of the exercise.
 2. The assumptions and precautions being taken.
 3. The exercise scenario, including the initiating events and the expected course of action to be taken.
 4. The various locations that will be involved and the specific items to be observed when at those locations.
- B. Controllers/Observers are assigned to various locations as indicated in this section.
- C. If Controllers are to provide information via "cue cards," (e.g., initiating events, instrument readings, monitoring results, etc.) to the drill participants, the information must be provided exactly as and when prescribed. Failure to provide information appropriately may invalidate the results of the drill.
- D. Controllers/Observers shall maintain an accurate chronological record of activities for the locations observed.
- A Lead Exercise Controller has been designated for this drill. Those Controllers responsible for initiating an action should coordinate their action times closely with the Lead Controller. Provisions will be made available for necessary communications with this designated individual should scenario variations warrant.
- E. The Controller/Observer must remain cognizant of all the events and circumstances at their assigned locations. These should include, but not be limited to: Participants' actions and reactions, communications methods and record keeping, chain of command, equipment performance and the overall ability to interface with other emergency facilities.
- F. Controller/Observers should record all times (both start and finish), actions and comments or suggestions, as complete and precise as possible, in a chronological order.

- G. Significant items, both major deficiencies and strong performance points, should be highlighted upon occurrence and condensed for presentation in the subsequent critique.

Precautions and Limitations

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

- A. Should, at any time during the course of the conduct of this drill, an actual emergency situation arise, all activities and communications related to the drill will be suspended. It will be the responsibility of any Drill Controller or Observer that becomes aware of an actual emergency to suspend drill response in his/her immediate area and to inform the Lead Drill Controller of the situation. Upon notification of an actual emergency, the Lead Drill Controller will notify all other Controllers/Observers to suspend all drill activities.
- B. Should, at any time during the course of the conduct of this drill, a Drill Controller or Observer witness a drill participant undertake any action which would, in the opinion of the Controller/Observer, place either an individual or component in an unsafe condition, the Controller/Observer is responsible for intervening in the individual's actions and terminating the unsafe activity immediately. Upon termination of the activity, the Controller/Observer is responsible for contacting the Lead Drill Controller and informing him of the situation. The Lead Drill Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the drill.
- C. Pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems, is not to occur in response to any simulated fires during this drill.
- D. Manipulation of any plant operating system, valves, breakers or controls in response to this drill are only to be simulated. There is to be no alteration of any plant operating equipment, systems or circuits during the response to this drill.
- E. All telephone communications, radio transmissions and public address announcements related to the drill must begin and end with the statement, "This is a drill." Should a Controller or Observer witness a drill participant not observing this practice, it is the Controllers/Observers responsibility to remind the individual of the need to follow this procedure.

- F. Any motor vehicle response to this drill whether it be ambulance, fire fighting equipment, security vehicles or field monitoring teams, should observe all normal motor vehicle operating laws including posted speed limits, stop lights/signs, one way streets, etc.
- G. Drill participants are to inject as much realism into the drill as is consistent with its safe performance, however, caution must be used to prevent overreaction.
- H. Care must be taken to assure that any non-participating individuals who may observe drill activities or overhear drill communications are not misled into believing that an actual emergency exists. Any Drill Controller or Observer who is aware of an individual or group of individuals in the immediate vicinity who may have become alarmed or confused about the situation, should approach that individual or group and explain the nature of the exercise and its intent.

Drill Evaluation

<u>Area Evaluated</u>	<u>Monitors Rating</u>					
A. <u>Activation and Response</u>						
1. Was the activation/initiation efficient and organized?	5	4	3	2	1	N.O.
2. Were personnel familiar with their responsibilities and respond in a timely manner?	5	4	3	2	1	N.O.
3. Was the person in charge clearly identifiable?	5	4	3	2	1	N.O.
4. Was the transfer of responsibilities accomplished effectively and efficiently?	5	4	3	2	1	N.O.
B. <u>Communications</u>						
1. Were all required and specified communications circuits operable?	5	4	3	2	1	N.O.
2. Were personnel familiar with communications available and the intended use of each?	5	4	3	2	1	N.O.
3. Were there sufficient personnel to conduct communications tasks?	5	4	3	2	1	N.O.
4. Was incoming information effectively and efficiently distributed to appropriate personnel?	5	4	3	2	1	N.O.
5. Were periodic updates made by the senior individual?	5	4	3	2	1	N.O.
6. Were accurate communication logs kept?	5	4	3	2	1	N.O.
7. Were the status boards properly utilized and updated?	5	4	3	2	1	N.O.
8. Did individuals in charge spend an inordinate amount of time on communications, such that their attention was diverted from the incident? (No = 5, Yes = 1)	5	4	3	2	1	N.O.

<u>Area Evaluated</u>	<u>Monitors Rating</u>					
9. Were the correct private lines used and did non-emergency communications interfere with emergency transmissions? (No = 5, Yes = 1)	5	4	3	2	1	N.O.
10. Were logs used effectively by personnel to review past events and to trend data?	5	4	3	2	1	N.O.
11. Were appropriate communications techniques followed? (Phonetic alphabet, sign-on, sign-off, no abbreviations or acronyms)	5	4	3	2	1	N.O.
<u>C. Procedures</u>						
1. Were personnel generally familiar with the relevant procedures?	5	4	3	2	1	N.O.
2. Were procedures followed?	5	4	3	2	1	N.O.
3. Were personnel so overwhelmed with procedural requirements that they were distracted from the appropriate response?	5	4	3	2	1	N.O.
4. Were the procedures appropriate?	5	4	3	2	1	N.O.
<u>D. Direction and Control</u>						
1. Could the response be categorized as a team effort or a group of individual efforts? (Team = 5, Individuals = 1)	5	4	3	2	1	N.O.
2. Was there an effective mechanism for resolving differences of opinion regarding technical issues and actions to be taken?	5	4	3	2	1	N.O.
3. Was there excessive noise and loitering in the response facility? (No = 5, Yes = 1)	5	4	3	2	1	N.O.
<u>E. Material and Equipment</u>						
1. Was all the required material and equipment available?	5	4	3	2	1	N.O.

Area EvaluatedMonitors Rating

- | | | | | | | |
|--|---|---|---|---|---|------|
| 2. Did personnel check to ensure that all equipment was available and functional early in the activation process? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. If equipment was inoperable or failed in use, were appropriate actions taken to resolve the deficiency? (spares/ backup equipment) | 5 | 4 | 3 | 2 | 1 | N.O. |
| 4. Were there any situations in which the lack of equipment, or a lack of ability to operate the equipment, prevented personnel from completing their tasks? (No = 5, Yes = 1) If so, please indicate details. | 5 | 4 | 3 | 2 | 1 | N.O. |
| 5. Were there any situations in which additional equipment or materials, or different types of equipment could have made the activity more effective? (No = 5, Yes = 1) If so, please indicate details. | 5 | 4 | 3 | 2 | 1 | N.O. |
| 6. Could the area support the personnel assigned to it? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 7. Were there sufficient resource materials readily available to support the conduct of the response? (maps, reference documents, copies of plans and procedures, data sheets, etc.) | 5 | 4 | 3 | 2 | 1 | N.O. |

F. Protective Measures

- | | | | | | | |
|--|---|---|---|---|---|------|
| 1. Were appropriate protective measures implemented for response personnel? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Did personnel properly wear protective clothing and dosimetry? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 3. Were appropriate radiological practices observed? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 4. Were field personnel kept apprised of radiological conditions? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 5. Were response activities conducted with regard for personnel safety, consistent with the need to complete the activity? | 5 | 4 | 3 | 2 | 1 | N.O. |

Area Evaluated

Monitors Rating

G. Access Control

- | | | | | | | |
|---|---|---|---|---|---|------|
| 1. Was an appropriate access control posture established? | 5 | 4 | 3 | 2 | 1 | N.O. |
| 2. Was there an identifiable system implemented that effectively identified authorized personnel within the facility? | 5 | 4 | 3 | 2 | 1 | N.O. |

H. Summary

1. Describe any problems noted by the area being evaluated. Provide a description of the problem, its outcome or effect and any recommended corrective courses of action to alleviate or correct the deficiency. Any of the previously listed areas that receive an evaluation grade of 2 or 1 require a written explanation on this page.

Evaluators Signature / Date

Evaluation Standards

- "5" Excellent - Personnel and equipment always functioned without error. There were no problems encountered and all personnel and equipment functioned at a superior level.
- "4" Good - Personnel and equipment generally performed as expected. Any errors or problems were minor and did not detract from completion of the task.
- "3" Satisfactory - Personnel and equipment performed at an acceptable level. Errors noted were not severe and completion of the task was achieved within acceptable limits.
- "2" Poor - Personnel and equipment generally performed below expectations. There were deficiencies of a significant nature. The areas ability to carry out its function was diminished.
- "1" Failure - Personnel and equipment consistently failed to perform as required. Acceptable completion of the task was not achieved.
- N.O. Not Observed

CONTROLLER/OBSERVER LOCATIONS

1. Lead Drill Controller K. Krasner
Local EOC (Management/Roving) _____

2. Lead Drill Controller R. Campanelli
EOF (Management/Roving) _____

3. Drill Controller #1 S. Moss
Brookhaven Area Office _____

4. Drill Controller #2 R. Markovich
Local EOC, Transportation _____

5. Drill Controller #3 G. Krieger
Local EOC, Dose Assessment _____

6. Drill Controller #4 C. Garcia
Local EOC, Communications _____

7. Drill Controller #5 C. Starkman
Local EOC (Public Information) _____

8. Drill Controller #6 C. Heitz
Local EOC, Traffic Group _____

9. Drill Controller #7 D. Beres
Local EOC, Dosimetry Group _____

10. Drill Controller #8 N. Molter
Local EOC, Transportation Group _____

11. Drill Controller #9 B. Kobel
Local EOC (Administrative) _____

12. Drill Controller #10 P. Smalley
EOF, Dose Assessment _____

13. Drill Controller #11 J. Bisson
EOF, ORM Teams _____

14. Drill Controller #12 S. Milioti
EOF, (Management, Roving) _____

DRILL BRIEFING ATTENDANCE SHEET

Date: _____

Location: _____

<u>Name (Print)</u>	<u>Signature</u>	<u>Company or Agency</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
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8.0 GLOSSARY

A - Glossary of Terms

Brief definitions of many of the terms used in this plan are given here. For more exact and detailed information, standard reference works can be consulted.

Absorbed Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Airborne Radioactive Material: Any radioactive material dispersed in the air in the form of dusts, fumes, mists, vapors or gases.

Alpha Particle: Positively charged particles identical with the nuclei of helium atoms. They penetrate tissues to usually less than 0.1 mm (1/250 inch), but create dense ionization and heavy absorbed doses along these short tracks.

Background Radiation: Radiation arising from material other than the one directly under consideration. Cosmic rays and natural radioactivity are always present, and man-made sources may also contribute to the background radiation level.

Beta Particles: Electrons ejected from the nuclei of atoms; extremely tiny bits of matter traveling at nearly the speed of light. Their range in air can be several feet. In heavier material, such as the human body, they expend their energy within about 2 mm (1/10 inch).

Contamination (Radioactive): Deposition of radioactive material in any place where it may harm persons, spoil experiments or make products of equipment unsuitable or unsafe for some specific use. The presence of unwanted radioactive matter.

Decay: Disintegration of the nucleus of the radionuclide in a radioactive process.

Decay Product: A nuclide, either radioactive or stable, resulting from the disintegration of a radioactive material.

Decontamination: The reduction or removal of contaminating radioactive material from a structure, area, object or person.

Dose: The quantity of energy absorbed from ionization per unit mass of tissue. The rad is the unit of absorbed dose.

Dose Equivalent: A quantity that expresses all types of nuclear radiation on a common scale to indicate relative biological effects. The rem is the unit of dose equivalent.

Dose Rate: Absorbed dose delivered per unit time, as rads per seconds or rads per hour.

Dosimeter: A device that measures radiation dose, such as a film badge or ionization chamber.

Emergency Director: A highly trained individual totally responsible for directing onsite actions during an emergency at the nuclear plant site. Position occupied by the Shift Supervisor until relieved by a higher ranking individual.

Emergency Operations Facility: A facility operated by the licensee for the purpose of evaluating and controlling emergency situations and coordinating emergency responses.

Emergency Planning Zone (EPZ): The area surrounding the nuclear plant site for which planning has been done to assure that prompt and effective actions can be taken to protect the public in the event of a radiological incident. The EPZ is usually a radius of about ten (10) miles for the plume exposure pathway and a radius of about fifty (50) miles for the ingestion exposure pathway.

Evacuation: The process of removing people from a hazardous or potentially hazardous area to a safe area.

Evacuation Time Estimate: The roadway travel time required to leave the plume exposure emergency planning zone after mobilization has been completed.

Exposure: A measure of the ionization produced in air by X-ray or gamma radiation. The roentgen (R) is the unit of exposure. The term "dose" sometimes used interchangeably with exposure, actually refers to absorbed radiation.

Film Badge: A light-tight package of photographic film worn like a badge by workers in the nuclear industry or research, used to measure possible exposure to ionizing radiation. The absorbed dose can be calculated by the degree of film darkening caused by the irradiation.

Gamma Rays: Electromagnetic radiation comparable to light. They are similar to X-rays except for their origin. They are emitted with energies characteristic of each nuclide, and many are highly penetrating. Although their intensity decreases exponentially with thickness of the absorbing material, they can travel hundreds of feet in air and penetrate completely through the body.

General Population: People permanently residing within the plume exposure emergency planning zone (not including residents of nursing homes and long-term health-care facilities).

Geiger-Muller Counter (Geiger-Muller Tube): A radiation detection and measuring instrument. It consists of a gas-filled (Geiger-Muller) tube containing electrodes, between which there is an electrical voltage but not current flowing. When ionizing radiation passes through the tube, a short intense pulse of current passes from the negative electrode to the positive electrode and is measured or counted. The number of pulses per second measures the intensity of radiation. It is also often known as a Geiger Counter.

Incident: An occurrence that results in the loss of control of radioactive materials and involves a potential hazard to life, health or property.

Ingestion Exposure Pathway (50-mile EPZ): For planning purposes, the area within about a fifty (50) mile radius surrounding a nuclear plant site. The principal exposure from this pathway would be from the ingestion of contaminated water or foods.

Internal Radiation: Radiation (including alpha and beta particles and gamma radiation) resulting from radioactive substances within the body.

Isotopes: Forms of the same element having identical chemical properties but differing in their atomic masses. A radioisotope is an unstable isotope of an element that decays or disintegrates spontaneously, emitting radiation.

Local Emergency Operations Center: A location at the headquarters of each offsite response agency or some other designated location that may be used to direct the action taken by designated agencies under its jurisdiction during an emergency at the Shoreham Nuclear Power Station.

Millirem (mrem): One-thousandth (1/1000) of a rem.

Milliroentgen (mR): One-thousandth (1/1000) of a Rcentgen.

Monitoring, Radiological: The operation of locating and measuring radioactive contamination by means of survey instruments that can detect and measure (as dose rates) ionizing radiations.

Nuclear Reactor: A device in which a fission chain reaction can be initiated, maintained, and controlled. Its essential component is a core with fissionable fuel.

Plume Exposure Pathway (10-mile EPZ): For planning purposes, the area within a ten (10) mile radius surrounding a nuclear plant site. The principal exposure sources from this pathway are: (a) whole body exposure to gamma radiation from the plume and from deposit material, and (b) inhalation exposure from the passing radioactive plume.

Protective Action Guide: The projected radiological dose, or dose commitment, values to individuals in the general population which warrants a protective action response following a release of radiological material.

Rad: The unit of absorbed dose in body tissue or other material.

Radiation Area: Any accessible area in which the level of radiation is such that a major portion of an individual's body could receive, in any one hour, a dose in excess of 5 millirem, or in any 5 consecutive days, a dose in excess of 100 millirem.

Radioactivity: The property of certain nuclides of spontaneously emitting nuclear particles or gamma or X-ray radiation, or of undergoing spontaneous fission.

Radioassay: The analysis of any substance (food, water, soil, etc.) to determine the presence and magnitude of radioactive contamination.

Radiological: A general term referring to processes that involve nuclear radiation.

Relocation Center: A pre-designated facility outside the plume exposure emergency planning zone at which evacuees can receive directions to congregate care centers, reunite with others, receive general information and, if necessary, receive radiological monitoring and decontamination and provide temporary housing, food and other necessities to evacuees needing them.

Release: Escape of radioactive materials into the environment.

Rem: The unit of radiation dose affecting body tissue. It is equal to the absorbed dose (measured in rads) multiplied by the quality factor (which takes into account the effectiveness of different types of radiation) and by other multiplying factors. For beta and gamma radiation the quality factor is 1.

Roentgen (R): The unit of radiation exposure in air. Roentgens are the units for quantities of X-ray or gamma radiation measured by detection and survey meters.

Scenarios: Time-based characterizations of plume exposure emergency planning zone populations and their variations by time of day, day of week and season.

Shelter: A structure or other location offering shielding from nuclear radiation in the environment.

Shielding: Any material or barrier that attenuates radiation.

Site Boundary: Area surrounding the nuclear plant site in which the Nuclear Facility Operator (NFO) has the authority to determine and control all activities including exclusion or removal of personnel and property from the area.

Source Term: A particular type or amount of radionuclide originating at the source of a nuclear incident. In its broadest sense, source term also describes the conditions and mode of emission.

Special Facility: Institution or location having either a residential population of fifteen or more people or having sizeable, but temporary, attendance at predictable times (e.g., nursing homes, hospitals, schools, parks).

Survey Meter: A portable instrument used in radiological monitoring to detect and measure ionizing radiation.

Thermoluminescent Dosimeter: A dosimetry badge worn by workers in the nuclear industry or research, used to measure possible exposure to ionizing radiation. It is characteristic of thermoluminescent material that radiation causes internal changes which make the material, when subsequently heated, give off an amount of light directly proportional to the radiation dose, which can be measured.

Thyroid Exposure: Exposure of the thyroid gland to radiation from radioactive isotopes of iodine which have been either absorbed or ingested.

Traffic Zone: A sub-division of an emergency response planning area associated with one specified primary evacuation route and particular reception center.

Transient Population: Those people who are only temporarily in, but do not permanently reside in, the plume exposure emergency planning zone.

Transient-dependents: People without access to an automobile for the purpose of leaving the plume exposure emergency planning zone at the time of an evacuation.

Whole Body Counter: A device used to identify and measure the radiation in the body (body burden) of human beings and animals; it uses heavy shielding to keep out background radiation and ultrasensitive scintillation detectors and electronic equipment.

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS

System	(17:00) T + 00:00	(17:15) T + 00:15	(17:30) T + 00:30	(17:45) T + 00:45	(18:00) T + 01:00	(18:15) T + 01:15	(18:30) T + 01:30	(18:45) T + 01:45
Containment Drywell Filter Train Exhaust A B	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA
Main Steam Line A B C D	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr	1 mr/hr 1 mr/hr 1 mr/hr 1 mr/hr
Station Vent Exhaust PM-126 (uCi/cc)	N	N	N	N	N	N	N	N
Station Vent Exhaust PM-42 (CPM)	N	N	N	N	250	240	250	255
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	N	N	N	N	N	N	N	N
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	N	N	N	N	N	N	2,000	10,000
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	N	N	N	N	N	N	N	N
Station Vent Flow cfm	366,600	366,600	366,600	366,600	366,600	366,600	366,600	366,600
PM-21/PM-22 Flow cfm	0	0	0	0	0	0	0	0
RBSVS Flow cfm	0	0	0	0	0	0	0	0

MDA - Minimum Detectable Activity
 OSH - Off Scale High
 N - Normal

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS

(continued)

System	(19:00) T + 02:00	(19:15) T + 02:15	(19:30) T + 02:30	(19:45) T + 02:45	(20:00) T + 03:00	(20:15) T + 03:15	(20:30) T + 03:30	(20:45) T + 03:45
Containment Drywell Filter Train Exhaust A	MDA	MDA	MDA	MDA	MDA	MDA	MDA	MDA
B	MDA	MDA	MDA	MDA	MDA	MDA	MDA	MDA
Main Steam Line A	1 m/hr	1 m/hr	1 m/hr	1 m/hr	OSH	OSH	OSH	OSH
B	1 m/hr	1 m/hr	1 m/hr	1 m/hr	OSH	OSH	OSH	OSH
C	1 m/hr	1 m/hr	1 m/hr	1 m/hr	OSH	OSH	OSH	OSH
D	1 m/hr	1 m/hr	1 m/hr	1 m/hr	OSH	OSH	OSH	OSH
Station Vent Exhaust PM-126 (uCi/cc)	.04	.05	.06	--	--	--	--	--
Station Vent Exhaust PM-42 (CPM)	1000	2000	3000	--	--	--	--	--
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	N	N	N	N	N	N	--	--
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	N	N	N	N	N	N	N	N
Station Vent Flow cfm	366,600	366,600	366,600	0	0	0	0	0
PM-21/PM-22 Flow cfm	6	6	6	6	6	0	0	0
RBSVS Flow cfm	0	0	0	1160	1160	0	0	0

MDA - Minimum Detectable Activity

OSH - Off Scale High

N - Normal

TABLE 6-8

PROCESS & EFFLUENT RADIATION MONITORS
(continued)

System	(21:00) T + 04:00	(21:15) T + 04:15	(21:30) T + 04:30	(21:45) T + 04:45	(22:00) T + 05:00	(22:15) T + 05:15	(22:30) T + 05:30	(22:45) T + 05:45
Containment Drywell Filter Train Exhaust A B	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA	MDA MDA
Main Steam Line A B C D	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH	OSH OSH OSH OSH
Station Vent Exhaust PM-126 (uCi/cc)	--	--	--	--	OSH	N	N	N
Station Vent Exhaust PM-42 (CPM)	--	--	--	OSH	1000	N	N	N
Reactor Standby Vent Exhaust PM-134 (uCi/cc)	15,000	15,000	15,000	7,000	3,000	N	N	N
Reactor Building Re- fueling Floor Contin- uous Air Monitor (CPM)	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
Reactor Building Standby Vent Exhaust Low Range* PM-21/PM-22 CPM	OSH	OSH	OSH	OSH	OSH	N	N	N
Station Vent Flow cfm	0	0	0	366,600	366,600	366,600	366,600	366,600
PM-21/PM-22 Flow cfm	0	0	0	0	0	0	0	0
RBSYS Flow cfm	1160	1160	1160	1160	0	0	0	0

MDA - Minimum Detectable Activity
OSH - Off Scale High
N - Normal