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OFFSITE EMERGENCY PREPAREDNESS TRAINING

FOR

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

PILGRIM NUCLEAR POWER STATION

MODULE 26: Massachusetts Department of Public Works, District 7

LESSON PLAN 26-1S

"Overview of Implementing Procedure"

Preparer

Reviewed
Emergency Preparedness Coordinator

Approved for Use

NUCLEAR REGULATORY COMMISSION

Docket No. 50-443-04 Official Exh. No. 56

In the matter of PUBLIC SERVICE CO. OF N.H.

Staff IDENTIFIED 23538

Applicant ✓ RECEIVED 23538

Intervenor REJECTED

Cont'g Off'r

Contractor HERITAGE DATE 5-31-89

Other Witness

Revised DONNA LEE COOK

Effective Date

Training Program: Offsite Emergency Preparedness Training
Module 26: Massachusetts Department of Public Works
Lesson 26-1S: Overview of Implementing Procedure
Presentation Time: 60 minutes

References:

1. Massachusetts Department of Public Works, Implementing Procedure for an Emergency at PNPS.

Prerequisites: 1-1R Emergency Response Overview
2-1R Dosimetry

Target Audience: Massachusetts Department of Public Works employees

Recommended Class Size: Maximum of 30

Learning Goals: Upon completion of this Lesson, the participants will have an understanding of:

- The format and content of the Massachusetts Department of Public Works IP.
- Massachusetts Department of Public Works Response Actions in the event of an incident at PNPS.
- Responsibilities of the following personnel or groups of personnel:
 - District Maintenance Engineer.
 - District 7 Representative to MCDA Area II EOC.
 - District Traffic Maintenance Engineer.
 - Traffic Maintenance Section Foreman.
 - Traffic Maintenance Section Staff.
 - District 7 Dosimetry Coordinators.

Training Aids Required:

Transparencies (see index on Page 4)

Transparency Projector

Screen

3 Prong Plug Adapter

Long Extension Cord

Extra Bulb for Projector

Transparency Markers

Board Markers

Handout(s)

Pens and Pencils

Training Session Attendance Sheets

Training Facility Requirements:

Typical classroom lecture seating and setup.
120V AC power for projector.

Special Instructor Guidance:

- The objective of the trainer is not to have the participants memorize the IP, but to familiarize them with the IP so it becomes a tool they will be able to effectively use in the event of an emergency.

Learning Activities:

<u>Instructor</u>	<u>Student</u>	<u>Time</u>
1. Introduce Lesson (I)	Listen	8 min.
2. Present Lesson (II - III)	Listen	45 min.
3. Summarize and Review	Listen, Ask Questions	7 min.

Transparency Index:

- T1 Learning Goals
- T2 Purpose
- T3 Agency Responsibilities (Organization Chart)
- T4 Related Agency Responsibilities
- T5 Procedure Format
- T6 Maintenance Engineer Responsibilities
- T7 Evacuation Route Map
- T8 District 7 Representative to MCDA Area II EOC Responsibilities
- T9 Equipment Resource List
- T10 Traffic Maintenance Engineer Responsibilities
- T11 Traffic Maintenance Engineer Responsibilities (continued)
- T12 Traffic Maintenance Section Foreman Responsibilities
- T13 Sample Resource List
- T14 Sample Traffic/Access Control Point List
- T15 Traffic Maintenance Section Staff Responsibilities
- T16 Traffic Control Point Diagram

<u>Event</u>	<u>Visual or Activity</u>
I. INTRODUCTION	
A. Introduce yourself	
B. Purpose of this lesson	
1. This lesson is designed to familiarize you with the Massachusetts Department of Public Works Implementing Procedure.	
C. Distribute Handouts	This can be done before the training session starts, if it is more convenient.
D. Discuss the format and layout of the handout material with the participants.	Have participants review handout while you discuss it.
1. What they see on the screen (transparencies) will appear in their handouts.	
E. Describe today's training sequence, content, and conduct.	
1. Consists of stand-up instruction.	

<u>Event</u>	<u>Visual or Activity</u>
--------------	---------------------------

- | | |
|---|--|
| 2. Training will, in most cases, follow the sequence of the handout material. | |
|---|--|

- | | |
|--------------------------|--|
| 3. Lesson Learning Goals | |
|--------------------------|--|

T1

Upon completion of this lesson, the participant will have an understanding of:

- The format and content of the Massachusetts Department of Public Works IP.
- Massachusetts Department of Public Works Response Actions in the event of an incident at PNPS.
- Related responsibilities of the following personnel or groups of personnel:
 - District Maintenance Engineer.
 - District 7 Representative to MCDA Area II EOC.
 - District Traffic Maintenance Engineer.
 - Traffic Maintenance Section Foreman.
 - Traffic Maintenance Section Staff.
 - District 7 Dosimetry Coordinators.

- | | |
|---|--|
| 4. The lesson flowpath will follow the learning goals. | |
| 5. <u>Stress</u> that if a participant does not feel a learning goal has been covered to point it out, so the goal can be accomplished or reviewed to his/her satisfaction. | |

<u>Event</u>	<u>Visual or Activity</u>
6. There will be <u>no</u> test. <ul style="list-style-type: none">a. Attendance sheets will be distributed at the <u>end</u> of this session to document <u>your</u> participation.b. <u>Please</u> remember that the information presented will be used in responding to an actual emergency situation.c. Your skill and knowledge will be evaluated through periodic drills and exercises.	
7. It is our desire to conduct the training in as clear and concise a manner as possible. <ul style="list-style-type: none">a. We would like to keep atmosphere informal and encourage questions or comments at any time.	Provide any additional Guide-lines for fielding questions or comments.
F. Answer any questions on information presented to this point.	
II. <u>Implementing Procedure (IP)</u>	
A. The IP is divided into 3 sections; the Table of Contents, Part 1 - Concepts and Part 2 - Response Actions.	
B. <u>Part 1 - Concepts</u>	
1. PURPOSE	
Outlines the purpose of the IP and the major responsibilities of the organization.	T2
- Proper Response to an incident at PNPS. <ul style="list-style-type: none">• Removal of Traffic Impediments from Evacuation Routes.• Provide Transportation of Emergency Equipment.• Provide Traffic Control Equipment.	

<u>Event</u>	<u>Visual or Activity</u>
2. CONCEPT OF OPERATIONS	
a. Agency Responsibilities outlines basic responsibilities for each position that would be assigned during an incident at PNPS.	T3 Walk thru each position.
b. Related Agency Responsibilities outlines interactions between Massachusetts Department of Public Works and other agencies through MCDA Area II EOC.	T4 Note each agency.
C. <u>Part 2 - Response Actions</u>	
1. The Response Actions are divided into sections. There is one section for each position listed under Agency Responsibilities. The steps in "Response Actions" cover all responsibilities listed in "Concepts".	T5
2. Each section is divided by emergency classification; UNUSUAL EVENT, ALERT, SITE AREA EMERGENCY, AND GENERAL EMERGENCY.	
3. Each section is a checklist that is designed to be removed and used in the event of an incident at PNPS and may in fact be referred to as a checklist in the IP.	Ask participants to turn to District Maintenance Engineer Section page 3.

<u>Event</u>	<u>Visual or Activity</u>
III. <u>Massachusetts Department of Public Works Personnel Response Actions</u>	
A. Review steps of each section of the IP by classification. Emphasize the following items.	
1. Any notifications	
- Who is notified	
- How is he/she notified	
- Who does the notification	
2. Equipment required	
3. Any mass movements of personnel or equipment	
4. Additional skills and knowledge as indicated below.	
NOTE: Only District 7 issues dosimetry.	
B. District Maintenance Engineer Respons- ibilities. Show evacuation route map.	T6,T7
C. District 7 Representative to MCDA Area II EOC Responsibilities. Show Equipment Resource List.	T8,9
D. District Traffic Maintenance Engineer Responsibilities.	T10,11
E. Traffic Maintenance Section Foreman Responsibilities. Show sample Resource List and Traffic/Access Control Point Lists.	T12,13,14
F. Traffic Maintenance Section Worker Responsibilities. Show sample point diagram.	T15, 16

<u>Event</u>	<u>Visual or Activity</u>
IV. SUMMARY	
A. Summarize the lesson using the learning goals.	T1
V. REVIEW/QUESTIONS	
A. Ask participants if they have any questions.	
B. If there are no questions from participants, ask two (2) or three (3) questions centered on the learning goals.	
1. Review and upgrade as required.	
VI. TRAINING DOCUMENTATION	
A. Distribute Training Session Attendance Sheets.	
1. Provide directions on correct method for documenting attendance.	
2. Answer any questions.	
B. Collect Attendance Sheets.	

Massachusetts Department of Public Works

Lesson Learning Goals

Upon Completion of this Lesson, the participant will have an understanding of:

- The format and content of the Massachusetts Department of Public Works Implementing Procedure
- Massachusetts Department of Public Works Response Actions in the event of an incident at PNPS
- Responsibilities of the following personnel or groups of personnel:
 - District Maintenance Engineer
 - District 7 Representative to Area II EOC
 - District Traffic Maintenance Engineer
 - District Traffic Maintenance Section Foremen
 - District Traffic Maintenance Section Workers
 - District 7 Dosimetry Coordinators

T-1

Massachusetts Department of Public Works

Purpose

Proper Response to an Incident at PNPS

• Removal of Traffic Impediments

• Provide Transportation of Emergency Equipment

• Provide Traffic Control Equipment

T-2

Massachusetts Department of Public Works

Agency Responsibilities

Maintenance
Engineer

Supervise District Staff
Notify and update Key Staff

Arterial
Foreman

Advise Maintenance Engineer on Labor Related
Matters

Area II
Representative

Notify and update Maintenance Engineer
Provide liaison to MCDA Area II
Relay state request for assistance

Roadside
Engineer

Remove Impediments (trees etc.)

Highway Maintenance
Engineer

Provide Vehicles as requested

Snow and Ice Control
Engineer

Clear evacuation routes first

Traffic Maintenance
Engineer

Supervise delivery of equipment

Traffic Maintenance
Section Foreman

Inventory equipment
Dispatch equipment

Traffic Maintenance
Section Worker

Deliver equipment

Dosimetry
Coordinators

Issue Dosimetry
Track Dose of MDPW staff

T-3

Massachusetts Department of Public Works

Related Agency Responsibilities

1. Massachusetts State Police
 - Coordinates traffic and access control point activation
 - Staff traffic and access control points
2. Town Police Departments
 - Staff traffic and access control points
3. Town Public Works Departments
 - Provide traffic and access control equipment
 - Remove traffic impediments from town roads
4. Plymouth County Sheriff's Department
 - Staff traffic and access control points

T-4

Massachusetts Department of Public Works

Procedure Format

Part 1: Concepts

Purpose

Consider all Operations
Agency Responsibilities

Related Agency Responsibilities
1. State Police

2. Town Police

3. Town Public Works

4. Plymouth County Sheriff

Part 2: Response Actions

District Maintenance Engineer
Unusual Event

Alert

Site Area Emergency

General Emergency

District Traffic Maintenance Engineer
Unusual Event

Alert

Site Area Emergency

General Emergency

District Traffic Maintenance Engineer
Unusual Event

Alert

Site Area Emergency

General Emergency

T-5

Massachusetts Department of Public Works

District Maintenance Engineer Responsibilities

Receive notification from representative to
MCDA Area II EOC

Notify Key Staff Engineers and Arterial Foreman

Direct recall of personnel as necessary

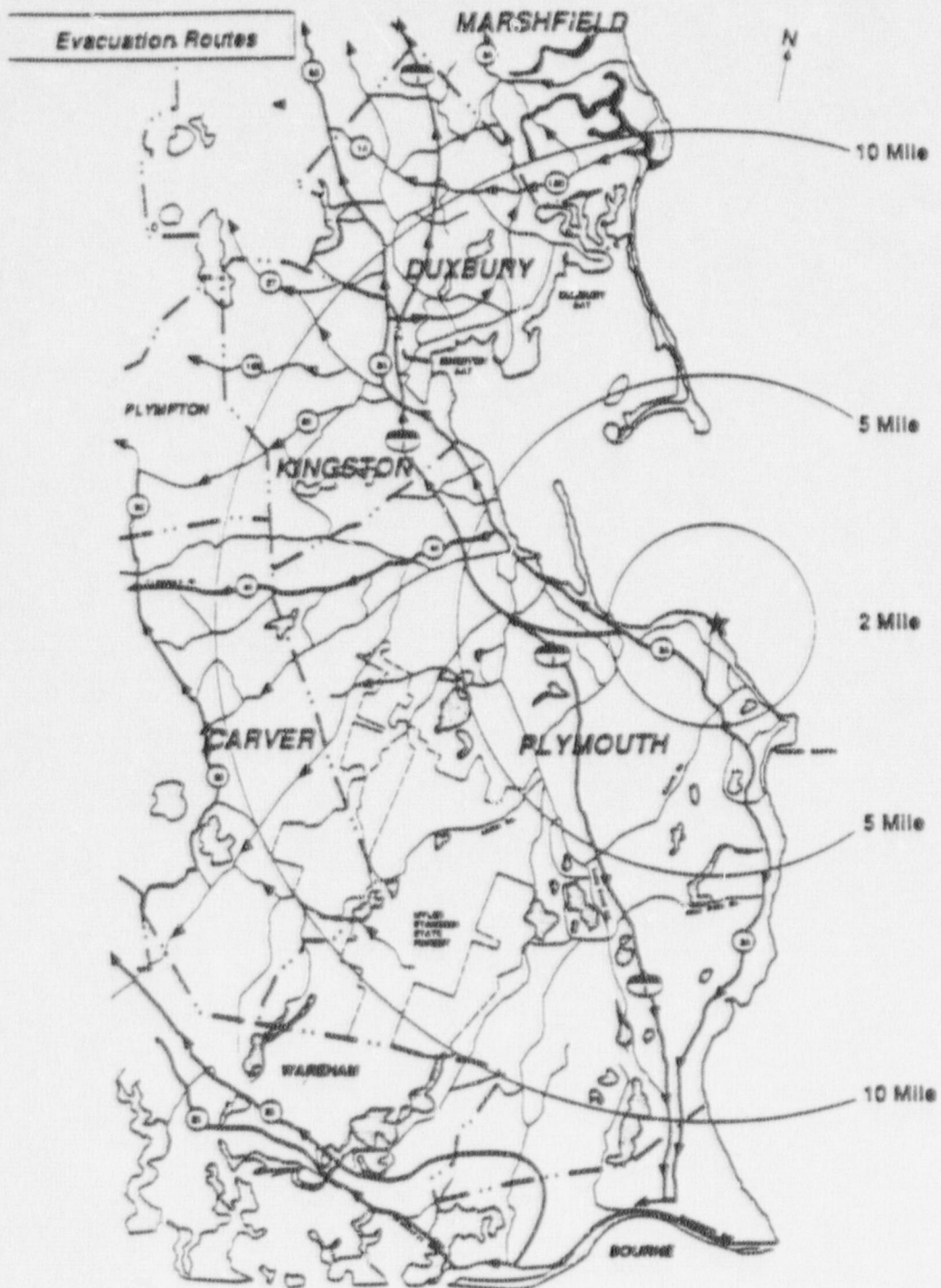
Ensure impediments are removed from evacuation
routes first

Ensure dispatch of equipment requested by MCDA
Area II EOC

Ensure all District personnel are informed of
state protective action recommendations

T-6

Evacuation Route Map



T-7

FILE NUMBER	REV CODE	PAGE
1		1
MASS. DEPT. OF PUBLIC WORKS		

District 7 Representative to MCDA Area II EOC Responsibilities

Receive notification from MCDA Area II

Report to MCDA Area II EOC

Notify the District 6 and District 7 Maintenance Engineer of Emergency Classification Level and plant status

Update Equipment Resource List

Inform the Maintenance Engineer of road impediments

Relay transportation requests to the Maintenance Engineer

Inform the Maintenance Engineer of traffic control equipment requested by MSP

Assign MDPW personnel to an EWMDS in consultation with the MCDA Area II RO

Massachusetts Department of Public Works

Equipment Resource List

Equipment	Sagamore		Whitman		Vine Street		District 5	
	Surplus	Shortage	Surplus	Shortage	Surplus	Shortage	Surplus	Shortage
1. Small Cones								
2. Large Cones								
3. Barricades								
4. Flashing Arrows								
5. Area Closed Signs								
6. Flashing Lights								
7. Vehicles								
8. Road Closed 500 Feet Signs								
9. Road Closed 1000 Feet Signs								
10. Road Closed 1/2 Mile Signs								
11. Road Closed 1 Mile Signs								
Route 3 Closed								
12. South of Exit 3 Signs								

Comments

Massachusetts Department of Public Works

Traffic Maintenance Engineer Responsibilities

Receive notification from Maintenance Engineer

Report to District Administrative Headquarters

Direct the traffic Maintenance Section Foreman and the Dosimetry Coordinator to the Highway Maintenance Garage

Place Department Personnel on Standby

Direct the Traffic Maintenance Section Foreman inventory and prepare equipment

Direct the Dosimetry Coordinator to prepare and issue dosimetry in accordance with his Checklist

Recall Department Personnel to Highway Maintenance Garage

Dispatch vehicles requested by MCDA Area II Representative

Dispatch Traffic Control Equipment requested by MCDA Area II Representative

Update Department personnel on incident

T-10

Massachusetts Department of Public Works**Traffic Maintenance Engineer Responsibilities**

**Relay State Protective Action Recommendations
to Department Personnel**

Direct Department Personnel to an EWMDS

T-11

Massachusetts Department of Public Works**Traffic Maintenance Section Foreman Responsibilities**

Receive Notification from Traffic Maintenance Engineer and report to the Highway Maintenance Garage

Operationally check radios

Refuel Vehicles and Equipment

Inventory equipment and report to MCDA Area II EOC Representative

Ensure all Traffic Maintenance Personnel are issued dosimetry

Dispatch Vehicles as requested by Traffic Maintenance Engineer

Dispatch Traffic Control Equipment and provide point diagram for each point requested by Traffic Maintenance Engineer

T-12

Resource List

	Required	Available	Surplus	Shortage
1. Small Cones				
2. Large Cones				
3. Barricades				
4. Flashing Arrows				
5. Area Closed Signs				
6. Flashing Lights				
7. Vehicles				
8. Road Closed 500 Feet Signs				
9. Road Closed 1000 Feet Signs				
10. Road Closed 1/2 Mile Signs				
11. Road Closed 1 Mile Signs				
Route 3 Closed				
12. South of Exit 3 Signs				

T-13

Massachusetts Department of Public Works

Traffic / Access Control Point List

TOWN Kingston

POINT NO.	LOCATION	AGENCY PRIORITY	GUIDES	CONES	BARRICADES	LIGHTS
K-T-01	Route 80 & Elm St.	K-2	1	3	-	1
K-T-02	Wapping Rd & Route 27	S-1	1	3	-	1
K-T-03	Main St & Rt. 80	S-2	1	3	-	1
K-AT-04 a	Main St. &	S-2	1	3	-	1
b	Summer St.	S-2	1	2	1	1
K-AT-05 a	Route 3 & Main St.	S-1	1	2	7	7
b		S-1	1	-	6	6
K-AT-06	Route 3 & Smith's Ln.	S-1	1	-	6	6
K-A-07	West St. & Lake St.	K-4	-	2	1	1
K-A-08	Lake St. & Grove St.	K-3	1	2	1	1
K-A-09	Lake St & Pembroke St.	K-3	1	2	1	1
K-A-10	School St. & Chapel St.	K-3	1	2	1	1
K-A-11	Winter St. & Pine St.	K-4	-	2	1	1
K-A-12 a	Winter St. &	K-3	1	2	1	1
b	Brookdale St.	K-3	1	2	1	1
K-A-13	Route 53 & Route 3A	K-3	1	2	1	1
K-A-14	Route 53 & Tremont St.	K-4	-	2	1	1
K-A-15 a	Maple St &	K-4	-	2	1	1
b	Landing Rd.	K-4	-	2	1	1

T-14

Massachusetts Department of Public Works**Traffic Maintenance Section Staff Responsibilities**

Report to the Highway Maintenance Garage when requested by the Traffic Maintenance Engineer

Obtain Dosimetry Packet

Transport equipment as requested

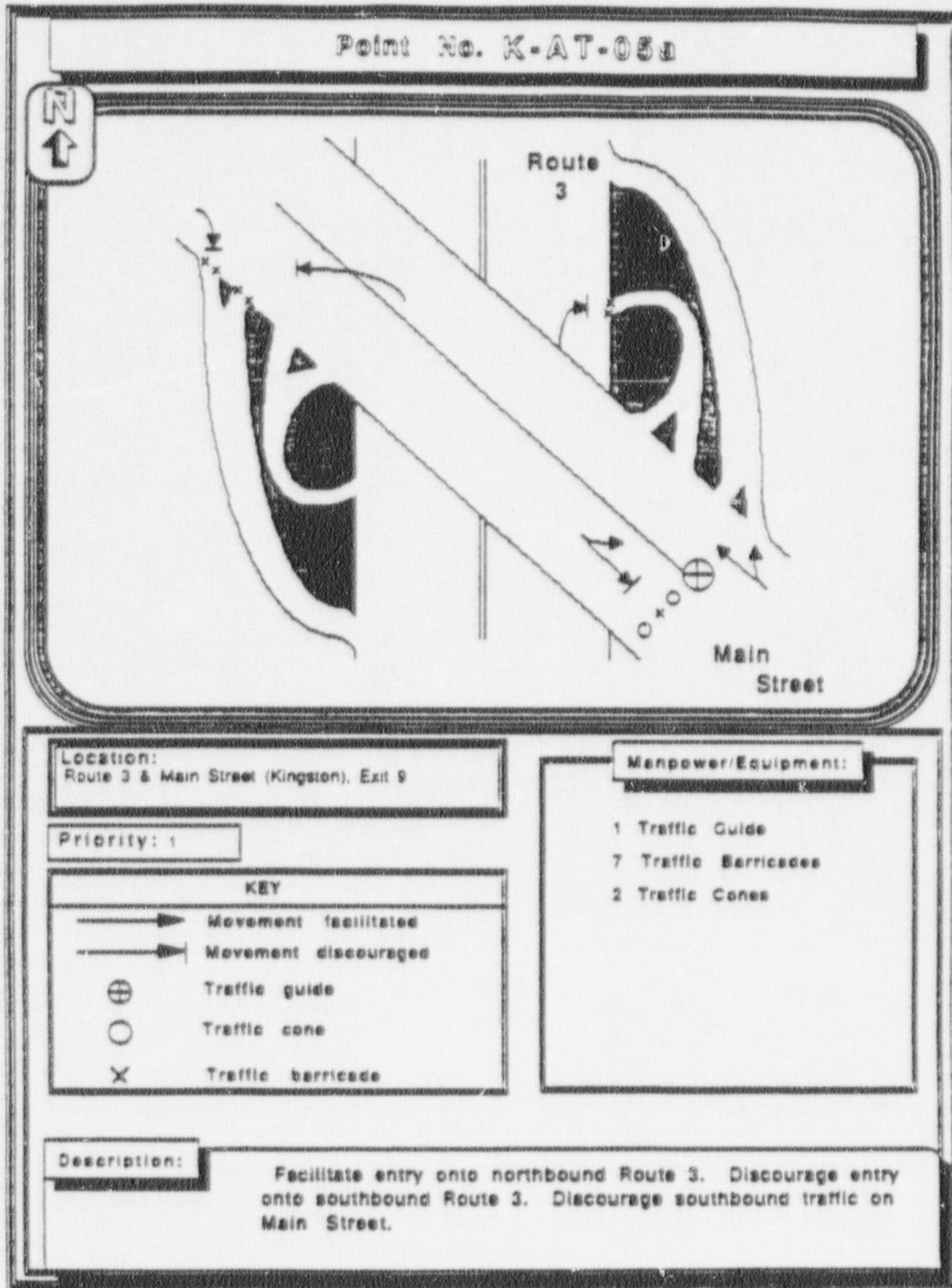
Deliver traffic control equipment to assigned locations and place equipment as shown in point diagrams

Report to assigned EWMDS when directed by Foreman

T-15

Massachusetts Department of Public Works

Traffic Control Point Diagram



T-16

Implementing Procedure
for an emergency at the
Pilgrim Nuclear Power Station

Area II

Massachusetts Department of Public Works

IP - 10

September 23, 1988

DRAFT - 2

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Part 1: Concepts

PURPOSE

This Implementing Procedure (IP) was prepared to assist the Massachusetts Department of Public Works in accomplishing its responsibilities during an emergency at the Pilgrim Nuclear Power Station (PNPS). The major responsibilities of the Massachusetts Department of Public Works are providing traffic and access control equipment, providing transportation for emergency equipment, and removal of traffic impediments.

CONCEPT OF OPERATIONS

Agency Responsibilities

1. District Maintenance Engineer
 - Direct response actions of District personnel.
 - Monitor completion of agency response actions.
2. District 7 Representative to MCDA Area II EOC
 - Coordinate delivery of traffic and access control equipment.
 - Coordinate transportation of emergency equipment.
 - Coordinate impediment removal.
3. District Traffic Maintenance Engineer
 - Supervise delivery of traffic and access control equipment as requested by the Massachusetts State Police.
4. Traffic Maintenance Section Foreman
 - Inventory equipment and report to MCDA Area II Representative.
 - Dispatch equipment as requested by the Traffic Maintenance Engineer.
5. District 7 Dosimetry Coordinators
 - Issue dosimetry to District 7 personnel.
 - Monitor exposure of District 7 personnel.

Part 1: Concepts (continued)

Related Agency Responsibilities

1. Massachusetts State Police
 - Coordinates traffic and access control point activation.
 - Staff traffic and access control points.
2. Town Police Departments
 - Staff traffic and access control points.
3. Town Public Works Departments
 - Provide traffic and access control equipment.
 - Remove traffic impediments.
4. Plymouth County Sheriff's Department
 - Staff traffic and access control points.

Part 2: Response Actions

District Maintenance Engineer

UNUSUAL EVENT

- _____ 1. Not notified at an UNUSUAL EVENT. No actions required.

ALERT/SITE AREA EMERGENCY/GENERAL EMERGENCY

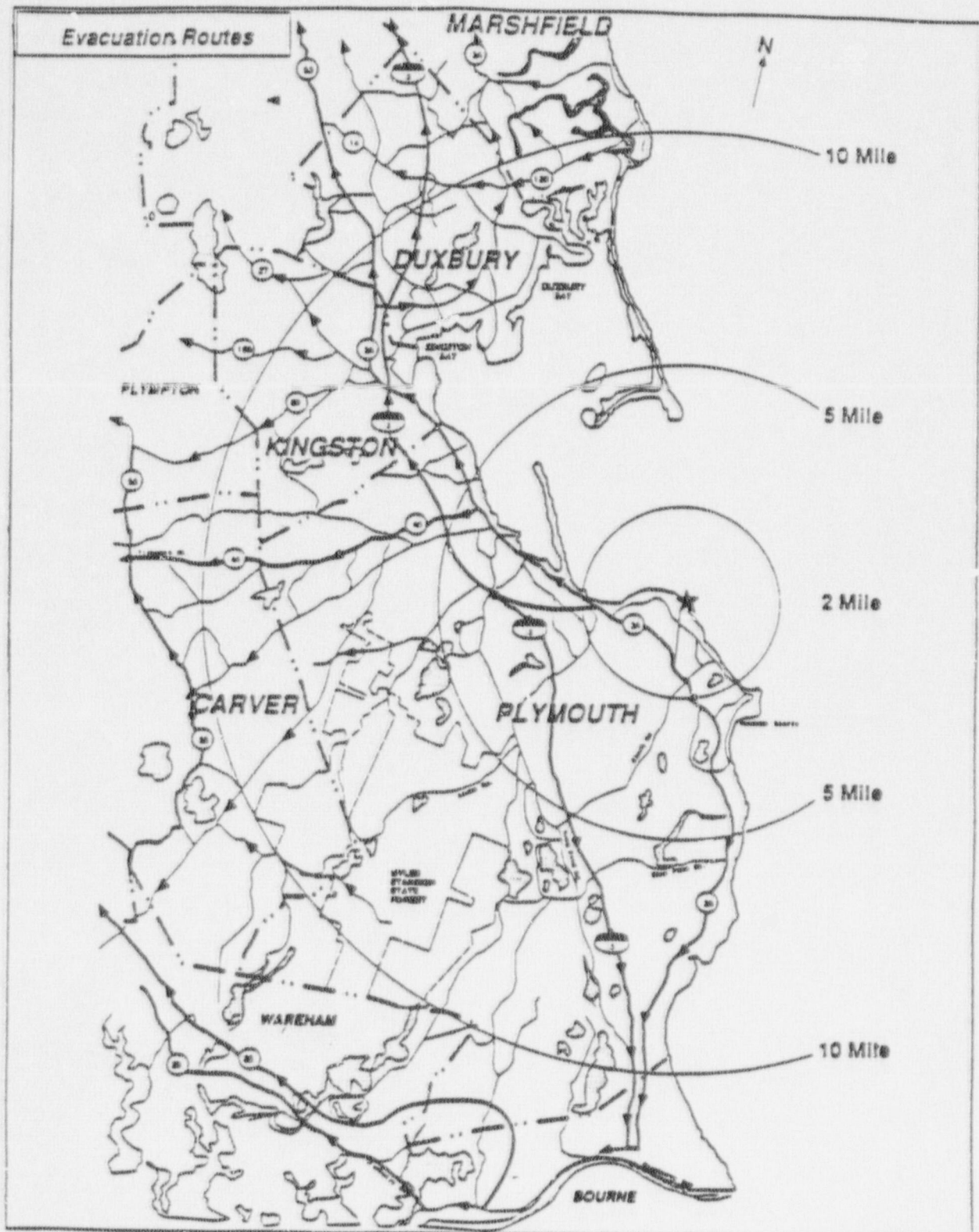
- _____ 1. Receive notification from the District 7 representative to the MCDA Area II EOC.
- _____ 2. Notify the following as appropriate and request them to determine a 24 hour staffing pattern. Recall personnel or place on standby as appropriate:
- _____ a. Arterial Foreman.
 - _____ b. Highway Maintenance Engineer.
 - _____ c. Traffic Maintenance Engineer.
 - _____ d. Roadside Engineer (if needed).
 - _____ e. Snow and Ice Control Engineer (if needed).
- _____ 3. Consult the Arterial Foreman to determine best use of labor resources.
- _____ 4. Request the Snow and Ice Control Engineer clear the evacuation routes first (see Attachments 1 & 2). Assist town public works departments as resources permit.
- _____ 5. Request the Roadside Engineer perform the following:
- _____ a. Lubricate and refuel chainsaws.
 - _____ b. Remove fallen trees on evacuation routes first (see Attachments 1 & 2).
 - _____ c. Remove fallen trees on other routes as resources permit.
- _____ 6. Request the Highway Maintenance Engineer perform the following:
- _____ a. Inventory operable vehicles and report to the MCDA Area II Representative.
 - _____ b. Refuel vehicles and equipment.
 - _____ c. Perform an operational check on all radios.

District Maintenance Engineer (continued)

- _____ d. Dispatch vehicles as requested.
- _____ 7. Request the Traffic Maintenance Engineer perform the following in accordance with his checklist:
 - _____ a. Inventory available equipment and report to MCDA Area II representative.
 - _____ b. Assign a Dosimetry Coordinator for the Sagamore, Whitman and Vine Street Highway Maintenance Garages (District 7 only).
 - _____ c. Perform an operational check on all radios.
 - _____ d. Dispatch and set up equipment as shown in the "Traffic/Access Control Plan for PNPS" for each point requested by the Massachusetts State Police. (Points to be activated will be relayed by the MCDA Area II representative).
- _____ 8. Ensure all District personnel are informed of State Protective Action Recommendations and of any change in Emergency Classification or Plant Status.

Attachment 1

Evacuation Route Map



Attachment 2

Evacuation Routes to Taunton (District 7)

Route 3
Route 3A
Route 6
Route 58
Route 44
Route 25
Route 495
Route 138

Evacuation Routes to Bridgewater (District 7)

Route 58
Route 106
Route 104
Route 3
Route 3A
Route 139
Route 27
Route 495
Route 18/28

Evacuation Routes to Wellesley (District 7)

Route 3A
Route 3
Route 14
Route 53
Route 139
Route 24

Evacuation Routes to Wellesley (District 5)

Route 3
Route 128
Route 9
Route 24
Route 139

Part 2: Response Actions

District 7 Representative to MCDA Area II EOC

UNUSUAL EVENT

- _____ 1. Not notified at an UNUSUAL EVENT. No actions required.

ALERT

- _____ 1. Receive notification of ALERT from MCDA MCDA Area II.
- _____ 2. Report to MCDA Area II EOC and perform the following:
- _____ a. Sign in on the Staffing Board.
 - _____ b. Inform the MCDA Area II Operations Officer of your presence.
 - _____ c. Receive a briefing from the MCDA Area II Director on the status of the emergency.
 - _____ d. Set up supplies.
 - _____ e. Contact your alternate and place on standby.
 - _____ f. Review and respond to all messages received.
 - _____ g. Send messages in accordance with the Message Control Procedure (IP-07).
- _____ 3. Notify the Maintenance Engineer of District 6 and District 7 and request them to report to the District Administration Headquarters and follow their checklist. Ensure the following actions are completed:
- _____ a. 24 hour staffing schedule (usually (2) 12-hour shifts) is established.
 - _____ b. Operational check performed on MDPW radios.
 - _____ c. Vehicles and equipment refueled as needed.
 - _____ d. Available vehicles and traffic control equipment inventoried.
 - _____ e. Available inventory compared to the Resource Lists (Attachment 1) and all differences reported.
- _____ 4. Record all reported changes to the Resource Lists on the Equipment Resource List (Attachment 2).

District 7 Representative to MCDA Area II EOC (continued)

- _____ 5. Request the Maintenance Engineer remove impediments as necessary.
 - _____ a. Evacuation routes have highest priority.
 - _____ b. Assist town public works departments as resources permit.
- _____ 6. Inform the District 6 and District 7 Maintenance Engineer of any change in Emergency Classification or Plant Status.

SITE AREA EMERGENCY/GENERAL EMERGENCY

- _____ 1. Ensure all actions under ALERT are completed.
- _____ 2. Perform the following when a request for transportation is received.
 - _____ a. Determine where the vehicle is needed.
 - _____ b. Determine the type of vehicle needed.
 - _____ c. Determine the preferred Maintenance Engineer based on distance and resource availability.
 - _____ d. Request the Maintenance Engineer dispatch the vehicle to the needed location and report completion of assignment or problems preventing completion.
- _____ 3. Perform the following when equipment to support traffic or access control is requested by the Massachusetts State Police:
 - _____ a. Verify each Traffic/Access Control Point number with the MCDA Area II State Police Representative using the "Traffic/Access Control Plan for PNPS".
 - _____ b. Request the appropriate Maintenance Engineer dispatch the equipment and set up each point as shown in the "Traffic/Access Control Plan for PNPS".
 - _____ c. Request the Maintenance Engineer report assignment completion or problems preventing completion.
- _____ 4. Determine the preferred Emergency Worker Monitoring and Decontamination Station for the Highway Maintenance Garage at Sagamore, Whitman and Vine Street in consultation with the MCDA Area II RO.
- _____ 5. Inform the District 6 and District 7 Maintenance Engineer of any change in Emergency Classification, Plant Status, or State Protective Action Recommendations.

Sagamore Resource List

	Required	Available	Surplus	Shortage
1. Small Cones				
2. Large Cones				
3. Barricades				
4. Flashing Arrows				
5. Area Closed Signs				
6. Flashing Lights				
7. Vehicles				
8. Road Closed 500 Feet Signs				
9. Road Closed 1000 Feet Signs				
10. Road Closed 1/2 Mile Signs				
11. Road Closed 1 Mile Signs Route 3 Closed				
12. South of Exit 3 Signs				

District 6 Resource List

	Required	Available	Surplus	Shortage
1. Small Cones				
2. Large Cones				
3. Barricades				
4. Flashing Arrows				
5. Area Closed Signs				
6. Flashing Lights				
7. Vehicles				
8. Road Closed 500 Feet Signs				
9. Road Closed 1000 Feet Signs				
10. Road Closed 1/2 Mile Signs				
11. Road Closed 1 Mile Signs Route 3 Closed				
12. South of Exit 3 Signs				

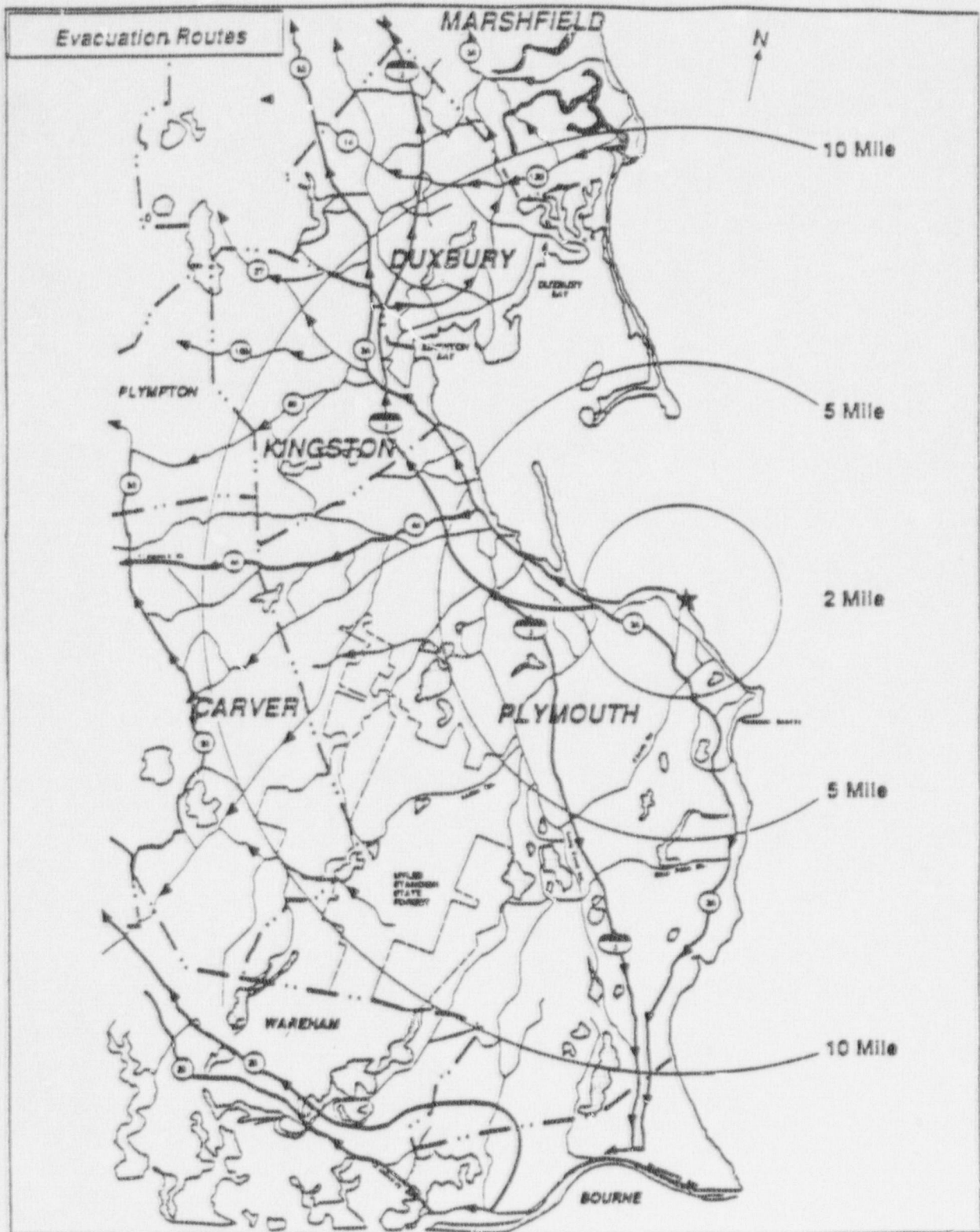
Equipment Resource List

Equipment	Sagamore Surplus Shortage	Whitman Surplus Shortage	Vine Street Surplus Shortage	District 6 Surplus Shortage
1. Small Cones				
2. Large Cones				
3. Barricades				
4. Flashing Arrows				
5. Area Closed Signs				
6. Flashing Lights				
7. Vehicles				
8. Road Closed 500 Feet Signs				
9. Road Closed 1000 Feet Signs				
10. Road Closed 1/2 Mile Signs				
11. Road Closed 1 Mile Signs Route 3 Closed				
12. South of Exit 3 Signs				

Comments

Attachment 3

Evacuation Route Map



Attachment 4
Evacuation Routes

Evacuation Routes to Tauriton (District 7)

Route 3
Route 3A
Route 6
Route 58
Route 44
Route 25
Route 495
Route 138

Evacuation Routes to Bridgewater (District 7)

Route 58
Route 106
Route 104
Route 3
Route 3A
Route 139
Route 27
Route 495
Route 18/28

Evacuation Routes to Wellesley (District 7)

Route 3A
Route 3
Route 14
Route 53
Route 139
Route 24

Evacuation Routes to Wellesley (District 6)

Route 3
Route 128
Route 9
Route 24
Route 139

Attachment 5
Telephone List

Part 2 Response Actions

District Traffic Maintenance Engineer

UNUSUAL EVENT

- _____ 1. Not notified at an UNUSUAL EVENT. No actions required.

ALERT

- _____ 1. Receive notification of ALERT from MDPW District Maintenance Engineer.
- _____ 2. Report to the District Administrative Headquarters, and perform the following:
- _____ a. District 7 notifies the following Traffic Maintenance Section Foremen and Dosimetry Coordinators and requests them to report to their respective Highway Maintenance Garage:
- _____ (1) Sagamore.
- _____ (2) Whitman.
- _____ (3) Middleboro (Vine Street).

NOTE: Ensure Staging Area personnel from the adjacent Park and Ride have access to the Sagamore Garage.

- _____ b. District 6 notifies the following Traffic Maintenance Section Foremen and Dosimetry Coordinators and requests them to report to their respective Highway Maintenance Garage:
- _____ c. Notify remainder of department personnel and place them on standby.
- _____ d. Establish a staffing schedule to ensure 24 hour coverage.
- _____ 3. Direct each Traffic Maintenance Section Foreman to perform the following:
- _____ a. Operationally check all radios.
- _____ b. Refuel vehicles and equipment as needed.
- _____ c. Compare available inventory to the Resource List (Attachment 1).
- _____ d. Report all differences to the MCDA Area II Representative.

District Traffic Maintenance Engineer (continued)

- _____ 4. Direct the Dosimetry Coordinator to prepare the dosimetry packets for issue in accordance with the Dosimetry Coordinator checklist.
- _____ 5. Update department personnel as information is received.

SITE AREA EMERGENCY/GENERAL EMERGENCY

- _____ 1. Ensure all actions under ALERT are completed.
- _____ 2. Notify personnel on the first shift (24 hour staffing) and request them to report to the appropriate Highway Maintenance Garage.
- _____ 3. Ensure all District 7 personnel are issued dosimetry packets by the Dosimetry Coordinator.
- _____ 4. Dispatch transport vehicles if requested by the MCDA Area II Representative.
 - _____ a. Verify the type of vehicle needed.
 - _____ b. Determine the best route in consultation with the MCDA Area II Representative.
 - _____ c. Inform the driver of his destination.
 - _____ d. Report assignment completion or difficulties preventing completion to the MCDA Area II Representative.
- _____ 5. Dispatch traffic control equipment as requested by the Massachusetts State Police. (Points to be activated will be relayed by the MCDA Area II Representative).
 - _____ a. Verify each Traffic/Access Control Point number with the MCDA Area II Representative.
 - _____ b. Confirm the equipment needed at each point is the equipment listed in the "Traffic/Access Control Plan for PNPS."
 - _____ c. Assign each point to a Highway Maintenance Garage based on distance and resource availability.
 - _____ d. Direct the Traffic Maintenance Section Foreman to provide drivers with the appropriate point diagram ("Traffic/Access Control Plan for PNPS") showing assigned delivery locations and the equipment to be delivered to each location.

District Traffic Maintenance Engineer (continued)

- _____ e. Direct the Traffic Maintenance Section Foreman to instruct the driver to place delivered equipment as shown in the point diagrams.
- _____ f. Report assignment completion or difficulties preventing completion to the MCDA Area II Representative.
- _____ 6. Update department personnel as information is received from the MCDA Area II Representative.
- _____ 7. Implement protective actions as directed by the MCDA Area II Representative.
- _____ 8. Request the MCDA Area II Representative determine the preferred Emergency Worker Monitoring and Decontamination Station (EWMDS) for each Highway Maintenance Garage.
- _____ 9. Direct department personnel who operated in or near the 10-mile EPZ to the EWMDS designated by the MCDA Area II Representative.

Part 2: Response Actions

Traffic Maintenance Section Foreman

UNUSUAL EVENT

- _____ 1. Not notified at an UNUSUAL EVENT. No actions required.

ALERT/SITE AREA EMERGENCY/GENERAL EMERGENCY

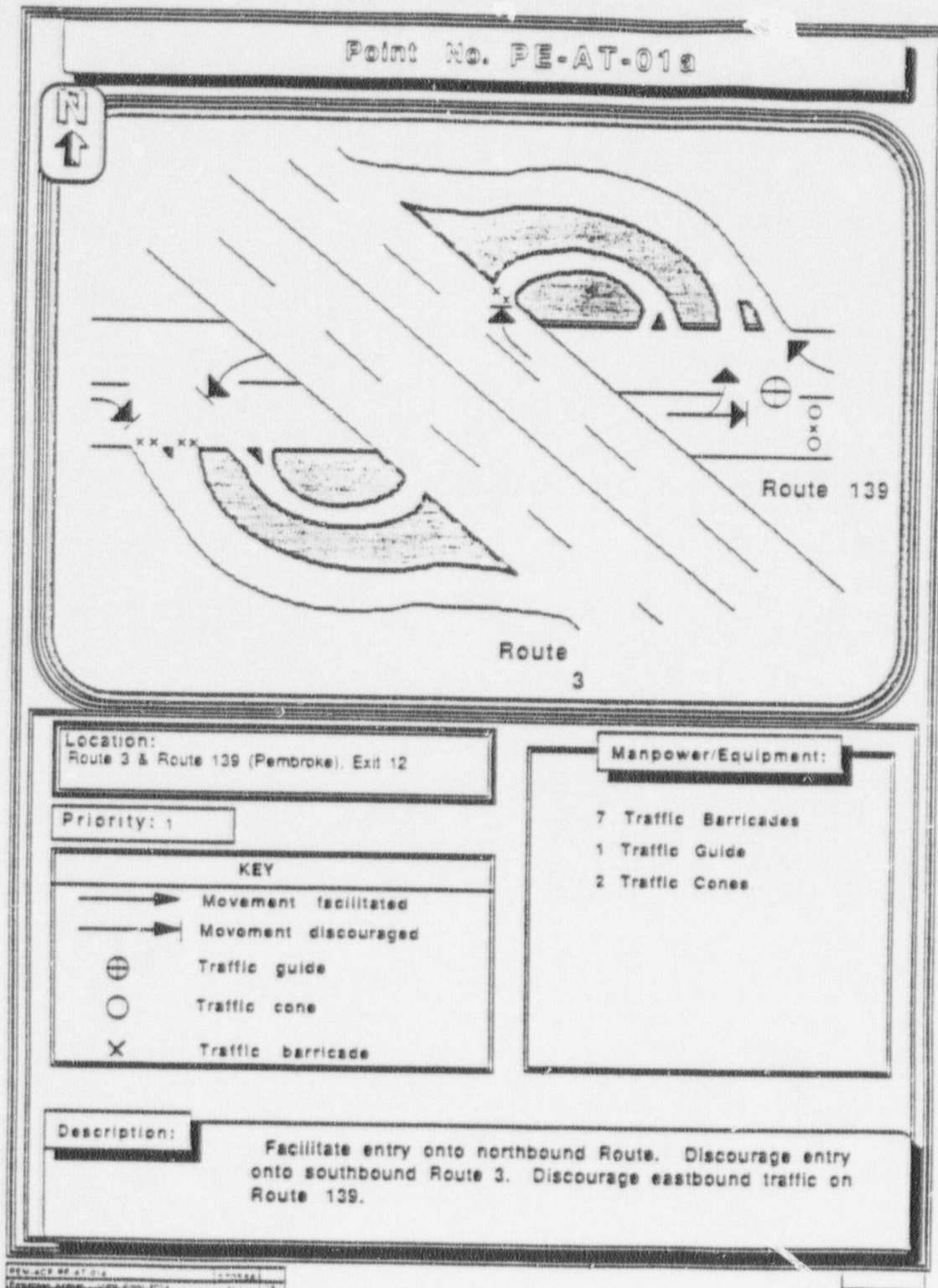
- _____ 1. Receive notification from the District Traffic Maintenance Engineer.
- _____ 2. Report to the assigned Highway Maintenance Garage.
- _____ 3. Perform an operation check on all radios.
- _____ 4. Refuel vehicles and equipment.
- _____ 5. Perform an operation check on flashing arrows and flashing lights.
- _____ 6. Complete the "Resource List" (Attachment 1) and report the results to the MCDA Area II Representative.
- _____ 7. Ensure all traffic maintenance personnel are issued dosimetry.
- _____ 8. Dispatch vehicles as requested by the Traffic Maintenance Engineer.
- _____ 9. Perform the following when requested to deliver traffic control equipment:
- _____ a. Verify each Point Number (turn to the appropriate section in the "Traffic/Access Control Plan for PNPS").
 - _____ b. Verify the equipment needed is that shown in the "Traffic/Access Control Plan for PNPS."
 - _____ c. Divide the points into routes that can be run within one hour (normally 10 points or less).
 - _____ d. Assign a traffic maintenance section team to each route and give them the applicable point diagrams (Attachment 2).
 - _____ e. Instruct the team to load the indicated equipment and set up the equipment as shown in the point diagrams.
- _____ 10. Keep traffic maintenance section personnel informed of all changes in emergency classification or plant status.
- _____ 11. Direct all personnel that operated in or near the 10-mile EPZ to the EWMS assigned by the MCDA Area II Representative.

Vine Street Resource List

Required	Available	Surplus	Shortage
1. Small Cones			
2. Large Cones			
3. Barricades			
4. Flashing Arrows			
5. Area Closed Signs			
6. Flashing Lights			
7. Vehicles			
8. Road Closed 500 Feet Signs			
9. Road Closed 1000 Feet Signs			
10. Road Closed 1/2 Mile Signs			
11. Road Closed 1 Mile Signs Route 3 Closed			
12. South of Exit 3 Signs			

Attachment 2

Point Diagram



Part 2: Response Actions
District 7 Dosimetry Coordinator

UNUSUAL EVENT

- _____ 1. Not notified at an UNUSUAL EVENT. No actions required.

ALERT

- _____ 1. Proceed to Highway Maintenance Garage.
- _____ 2. Obtain the Dosimetry Coordinator Kit located in the Highway Maintenance Garage.
- _____ 3. Inventory the Dosimetry Coordinator Kit, using the inventory sheet located in kit (Attachment 1).
- _____ 4. Establish communications with the MCDA Area II Radiological Officer (RO).
- _____ a. Inform RO of any items missing from kit.
- _____ 5. Prepare dosimeter chargers for use per instructions on charger case.
- _____ 6. Zero all self-reading dosimeters (SRD) using the dosimeter charger.
- _____ 7. Process control TLD's:
- _____ a. Record the storage location and current date on the back of all CONTROL TLD envelopes (see Attachment 4).
- _____ b. Place all CONTROL TLD envelopes in the lead storage container and seal the container with tape.
- _____ 8. Record the current date and the serial number of one each of the following dosimeters on a REP Form (see Attachment 2) and place the dosimeters in a plastic bag:
- _____ a. CDV-742 (O-200 R)
- _____ b. CDV-730 (O-20 R)
- _____ c. TLD
- _____ 9. Place the following in the plastic bag with the dosimeters.
- _____ a. REP Form with recorded serial numbers.
- _____ b. Emergency Worker Monitoring and Decontamination Station (EWMDS) map.
- _____ c. Neck chain

- _____ 10. Record the current date and the name of your organization on the Dosimetry Log (see Attachment 3).
- _____ 11. Stand by for further instructions.

SITE AREA EMERGENCY

- _____ 1. Complete all actions under ALERT.
- _____ 2. Issue a dosimetry packet to each individual with an assigned emergency duty within the 10 mile EPZ.
- _____ 3. Record the name of each individual and the serial number (5 digits) of the TLD issued on the Dosimetry Log.
- _____ 4. Instruct individuals to inventory their dosimetry packets. Each packet should contain one each of the following:
 - _____ a. CDV-742 (0-200 R)
 - _____ b. CDV-730 (0-20 R)
 - _____ c. TLD
 - _____ d. REP Form
 - _____ e. EWMDS Map
 - _____ f. Neck chain
- _____ 5. Direct each individual to complete the personal information at the top of the REP Form.
- _____ 6. Advise each individual to verify the dosimetry serial numbers recorded on the REP Form.
- _____ 7. Direct individuals to record the current reading of each of the SRD's in the appropriate "Initial" block of the REP Form.
- _____ 8. Place the chain around the neck.
- _____ 9. Advise each individual to attach SRDs and the plastic bag containing the remainder of packet to the neck chain near center of chest.
- _____ 10. Review the instructions and information on the bottom of the REP Form with all individuals.
- _____ 11. Review the KI instruction sheet. Inform workers that KI will be delivered to them if the MDPH Commissioner recommends its use.
- _____ 12. Inform all workers of Emergency Worker Monitoring and Decontamination Station (EWMDS) locations:
 - _____ a. Plymouth (Seven Hills and Cedarville Fire Stations)

- _____ b. Kingston (Police Station)
- _____ c. Carver (Department of Public Works)
- _____ d. Duxbury (Duxbury Ashdod Fire Station)
- _____ e. Marshfield (Central Fire Station)
- _____ f. Bridgewater (Vehicles - Roberts Road; Personnel -
Bridgewater State Collage)
- _____ g. Taunton (Taunton State Hospital)
- _____ h. Wellesley (DPW District 10 headquarters) proposed

GENERAL EMERGENCY

- _____ 1. Complete all actions under SITE AREA EMERGENCY.
- _____ 2. Once workers are deployed, radio the following reminder to read all
SRD's every 30 minutes or as recommended by the MCDA Area II RO.

"Attention all District 7 Public Works Department personnel. Read
your dosimeters. If any dosimeter has a reading greater than 1R
report your reading."
- _____ 3. Request the MCDA Area II Representative to designate an Emergency
Worker Monitoring and Decontamination Station (EWMDS) for your garage.
- _____ 4. Obtain directions to the assigned EWMDS.
- _____ 5. Record the time in the appropriate block of the Dosimetry Log as
readings are reported to you.
- _____ 6. Take the appropriate action for the following doses:

If the worker is
approaching this dose:

Then inform your supervisor that the
worker must be:

5R, 10R, 15R

- Relieved of duty and directed to an
EWMDS

-or-

- Authorized by MDPH (thru RO) to exceed
the respective limit

20R

- Relieved of duty and directed to an
EWMDS

-or-

- Authorized by MDPH (thru RO) for a
life saving dose.

NOTE: No worker may exceed 75R.

_____ 5. Direct the worker to an assigned EWMDS if any of the following occurs:

- _____ a. Assignment is completed.
- _____ b. Dosimetry is lost or damaged.
- _____ c. Radio communications are lost.
- _____ d. Maximum permissible dose is reached.

_____ 6. Take the following actions if MDPH recommends taking KI:

- _____ a. Record the time and the number of days recommended on the Dosimeter Log.
- _____ b. Request the Traffic Maintenance Foreman to supply a person to distribute KI to each of your workers affected by the recommendation.
- _____ c. Determine the current location of each emergency worker with a dosimetry packet.
- _____ d. Complete a KI Label for each emergency worker and attach it to a bottle of KI.
- _____ e. Provide the labeled bottles of KI to and review the following with the person dispatched to distribute the KI:
 - _____ (1) Location of each worker.
 - _____ (2) Contact point if a worker cannot be located.
- _____ f. Radio the following instruction:

"Attention all District 7 Public Works Department personnel. Take one tablet of potassium iodide KI as soon as it is delivered. Record the date and time on the REP Form.

Take one tablet every 24 hours for the next _____ days. Report each dose taken and any adverse affects."
- _____ g. If any worker reports adverse affects to KI, perform the following:
 - _____ (1) Advise the worker to discontinue taking KI and to report to the designated EWMDS and then see a doctor as soon as practical.
 - _____ (2) Inform the MCDA Area II RO of all reported side affects.

- _____ 7. Provide exposure information to the RO as requested.
- _____ 8. Discuss any abnormal readings with the RO.
- _____ 9. If an emergency worker is issued a new dosimetry packet, place an "X" in each 1R increment previously recorded on the Dosimetry Log.
- _____ 10. Direct all workers released by the Traffic Maintenance Section Foreman to the designated EWMDS.
- _____ 11. When released by the Traffic Maintenance Section Foreman, obtain the lead container with the Control TLD's and the Dosimetry Log and report to the EWMDS.
- _____ 12. The Control TLD's and the Dosimetry Log will be picked up at the EWMDS by the MCDA Area II RO.

Attachment 1

Dosimetry Coordinator Kit Inventory Sheet

DOSIMETRY

_____ CDV-742 SRD (0-200 R)

_____ CDV-730 SRD 0-20 R)

_____ TLD

_____ Bottle of KI

DOSIMETER CHARGER

_____ CDV-750

_____ Batteries for dosimeter charger ("D" cells)

FORMS

_____ REP Form

_____ Dosimetry Log

_____ CONTROL TLD envelope

_____ KI instruction sheet

_____ Plastic bags

_____ KI Labels

_____ EWMDS Maps

_____ Neck chains

_____ Lead storage container

Attachment 2

REP Form

Radiation Exposure Personnel (REP) Form

(Please Print Legibly)

Social Security Number

Emergency Worker's Name: _____

Emergency Worker's Organization: _____

Home Address: _____

Emergency Worker's Signature: _____

X

Date	CD V-742 (0-200R)				CD V-730 (0-20R)				CD V-138 (0-200mR)				TLD
	Serial No.	Initial	Final	Total	Serial No.	Initial	Final	Total	Serial No.	Initial	Final	Total	
		R	R	R		R	R	R		mR	mR	mR	Serial No. Reading Date Read
		R	R	R		R	R	R		mR	mR	mR	
		R	R	R		R	R	R		mR	mR	mR	
		R	R	R		R	R	R		mR	mR	mR	
		R	R	R		R	R	R		mR	mR	mR	
	Total		R		Total		R		Total		mR		

1. Read Dosimeters every 30 minutes and more often as directed
2. Report the following to your Dosimetry Coordinator
 - a. Any dosimeter offscale
 - b. Each 1 R increment
3. Permission must be obtained from MDPH* to exceed 5 R, 10 R and 15 R
4. 20 R may only be exceeded for MDPH*-approved Life-Saving Missions
5. Do not exceed 75 R
6. Notify your Dosimetry Coordinator and unless directed otherwise, report to an emergency worker monitoring and decontamination station when any of the following occurs:
 - a. Completion of assignment
 - b. Damaged or lost dosimetry
 - c. Loss of Radio Communications
 - d. Directed by proper authority to leave

NOTE: The emergency worker monitoring and decontamination station will retain the top 2 copies of this form, all dosimetry, and any contaminated items

Potassium Iodide (KI) Record

Date	Time	Amount Taken
Day 1		1 tablet / 130 mg
Day 2		1 tablet / 130 mg
Day 3		1 tablet / 130 mg
Day 4		1 tablet / 130 mg
Day 5		1 tablet / 130 mg
Day 6		1 tablet / 130 mg
Day 7		1 tablet / 130 mg
Day 8		1 tablet / 130 mg
Day 9		1 tablet / 130 mg
Day 10		1 tablet / 130 mg

Take KI only when directed by MDPH.* Take one tablet per day for 10 days unless directed otherwise. Request each tablet to your Dosimetry Coordinator. If you have any adverse reaction/discomfort taking KI, notify your Dosimetry Coordinator and not your physician.

* MDPH Recommendations/Permissions will come through your Dosimetry Coordinator

Copy 1-MDPH

Copy 2-Dosimetry Station

Copy 3-Physician

Copy 4-MDPH

Attachment 4

Control TLD

DO NOT OPEN	
CONTROL TLD	
STORE IN RADIATION FREE AREA AND RETURN WITH OTHER TLD'S OF SAME DATE	
111030X0000	080188
9474303	R

Attachment 5

EWMDs

Attachment 6

Telephone Listing

Area II Radiological Officer (RO)

697-3111

Emergency Worker Monitoring and Decontamination Stations (EWMDS)

- Plymouth: Seven Hills Fire Station
- Plymouth: Cedarville Fire Station
- Kingston: Kingston Police Station
- Carver: Department of Public Works
- Duxbury: Ashdod Fire Station
- Marshfield: Central Fire Station
- Bridgewater State College (Public Reception Center)
- Taunton State Hospital (Public Reception Center)
