EMERGENCY PLAN PROCEDURES INDEX

PEACH BOTTOM UNITS 2 AND 3

Number	Title	Review Date	Rev. No.	Revision Date
		RECEIVED		
EP-101	Classification of Emergencies	MAR 19 1982 02/17/82	3	02/17/82
EP-102	Unusual Event Immediate Actions	W. J. KNAPP 02/03/82	2	02/03/82
EP-103	Alert Response	02/04/82	3	02/04/82
EP-104	Site Emergency Response	02/04/82	2	02/04/82
EP-105	General Emergency Response	02/04/82	2	02/04/82
EP-201	Technical Support Center (TSC) Activation	02/05/82	2	02/05/82
EP-202	Operational Support Center (OSC) Activation	02/05/82	1	02/05/82
EP-203	Emergency Operations Facility (EOF) Activation	02/05/82	1	02/05/82
EP-205	Radiation Protection Team Activation	02/08/82	2	02/08/82
EP-205A	Chemistry Sampling and Analysis Group	02/08/82	2	02/08/82
EP-205B	Radiation Survey Groups	02/04/82	1	02/04/82
EP-205C	Personnel Dosimetry Bioassay and Respiratory Protection Group	02/04/82	1	02/04/82
EP-206	Fire and Damage Team Activation	02/25/82	3	02/25/82
EP-206A	Fire Fighting Group	02/25/82	1	02/25/82
EP-206B	Emergency Repair Group	02/26/82	1	02/26/82
EP-207	Personnel Safety Team Activation	02/26/82	2	02/26/82
EP-207A	Search and Rescue	02/26/82	1	02/26/82
EP-207B	Personnel Accountability	02/26/82	1	02/26/82
EP-207C	First Aid	03/02/82	1	03/02/82
EP-207D	Personnel Monitoring and Decontamination	02/26/82	1	02/26/82
EP-208	Security Team	04/01/81	0	04/01/81

EMERGENCY PLAN PROCEDURES INDEX

PEACH BOTTOM UNITS 2 AND 3

Number	Title	Review Date	Rev. No.	Revision Date
EP-209	Telephone List For Emergency Use	07/23/81	2	07/23/81
EP-209 Appendix A	Immediate Notification Call List	11/02/81	3	11/02/81
EP-209 Appendix B	Philadelphia Electric Company Officials	07/23/81	1	07/23/81
EP-209 Appendix C	Peach Bottom Station Supervision	12/07/81	3	12/07/81
EP-209 Appendix D-1	On Site Emergency Team Leaders	11/19/81	2	10/16/81
EP-209 Appendix D-2	Radiation Survey Team	10/16/81	2	10/16/81
EP-209 Appendix D-3	Fire and Damage Team	10/16/81	2	10/16/81
EP-209 Appendix D-4	Personnel Safety Team	10/16/81	2	10/16/81
EP-209 Appendix D-5	Security Team	11/19/81	2	10/16/81
EP-209 Appendix D-6	Re-Entry and Recovery Team	11/02/81	1	11/02/81
EP-209 Appendix D-7	Technical Support Center Team	11/02/81	2	11/02/81
EP-209 Appendix E	Corporate Emergency Team Leaders and Support Personnel	11/02/81	3	11/02/81
EP-209 Appendix F	U. S. Government Agencies	07/23/81	1	07/23/81
EP-209 Appendix G	Emergency Management Agencies	10/16/81	2	10/16/81
EP-209 Appendix H	Company Consultants	10/16/81	2	10/16/81
EP-209 Appendix I-1	Field Support Personnel	02/02/82	4	02/02/82
EP-209 Appendix I-2	Rad Services Call List	10/16/81	2	10/16/81
EP-209	Nearby Public and Industrial Users			

Number	Title	Review Date	Rev. No.	Revision Date
Appendix J		07/23/81	1	07/23/81
EP-209 Appendix K	Miscellaneous	07/23/81	1	07/23/81
EP-209 Appendix L	Local PECo Phones	07/23/81	1	07/23/81
EP-209 Appendix M	D E L E T E D	D E L E T E D		
EP-209 Appendix N	Medical Support Groups	11/19/81	2	10/16/81
EP-209 Appendix P	Staffing Augmentation - 60 Minute Call Procedure	03/05/82	1	03/05/82
EP-301	Operating the Evacuation Alarm and Pond Page System	04/01/81	0	04/01/81
EP-303	Partial Plant Evacuation	12/22/81	1	12/22/81
F 304	D E L E T E D			
EP-305	Site Evacuation	03/05/82	3	03/05/82
EP-306	Evacuation of the Information Center	12/22/81	1	12/22/81
EP-311	Handling Personnel with Serious Injuries, Radioactive Contamination Exposure, or Excessive Radiation Exposure Emergency Director Functions	02/08/82	2	02/08/82
EP-312	Radioactive Liquid Release (Emergency Director Functions)	04/01/81	0	04/01/81
EP-316	Cumulative Population Dose Calculations	04/01/81	0	04/01/81
EP-317	Direct Recommendations to County Emergency Management Agencies	03/31/81	0	03/31/81
EP-320	Procedure for Leaking Chlorine	03/12/82	1	03/12/82*
EP-401	Entry for Emergency Repair, Operations, and Search and Rescue	02/08/82	2	02/08/82
E 500	Review and Revision of Emergency Plan (FSAR Appendix Q)	04/01/81	0	04/01/81

Dr J Knapp

PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM UNITS 2 & 3

EF - 320 PROCEDURE FOR LEAKING CHLORINE

PURPOSE:

This procedure addresses to methods that are to be used to stop or contain chlorine container leaks.

REFERENCES:

1. Emergency Plan.
2. Contingency plan for spills of oil or other hazardous materials for inland waters of Region III - EPA.
3. Pollution Incident Report.
4. Pollution Incident Prevention Plan.
5. Chlorine Manual, 4th ed., The Chlorine Institute.
6. Instruction Booklets for Emergency Capping Kits. Kit "B" Ton Containers (attached)

PREREQUISITE:

Indication of Leaking Chlorine.

MATERIALS OR EQUIPMENT REQUIRED:

Chemox Mask or Air Mask.
Chlorine Emergency Kit "B" for 1 Ton Cylinders. Location inside Chlorinator Room.
Ammonium Hydroxide (NH_4OH).

ACTION LEVELS:

Minor Leaks - Handled by Station Personnel.
Major Leaks - Requiring Offsite Assistance.

SPECIAL PRECAUTIONS:

1. Never attempt to work around leaking chlorine without a chemox or air mask.
2. Do not work alone. Work at least in a pair.
3. Notify Shift Supervision or Control Room immediately if a significant leak is discovered.
4. Keep chlorine from contacting the skin by being properly clothed.
5. Do not spray ter on leaking chlorine. This will only make the leak worse because the acids formed will attack metal.

PROCEDURE:

A - Minor Leaks.

Leaking chlorine can be located by attaching a cloth saturated with ammonia solution to a pole and passing it over the suspected area. A leak will be indicated by the white vapor that is formed.

A.1. Angle Valve Stem Leak: Use wrench 200 from capping kit to pull up on packing nuts.

A.2. Valve or Manway Gasket Leaks: Use wrench 200 to pull up on stud nuts.

B - Leaks Requiring Use of Other Emergency Kit "B" Devices Refer to Manual (attached)

C - Major Leaks - Requiring Offsite Assistance.

If a chlorine leak develops which cannot be handled properly by station personnel, the following procedure should be followed:

1. Notify the station superintendent of staff individual on call.
2. Notify the load dispatcher.
3. Notify the vendor.
   a. Chlorine supplier
   b. Company, address, phone no. supply the following information to the vendor
   c. Directions to the plant.
   d. Type, size, and serial number of container.
   e. What has been done to contain the leaking chlorine.

Telephone numbers for requesting emergency assistance:

Pennwalt Chemical Corporation

9:00 a.m. to 5:00 p.m. Monday through Friday

B. E. Cooper-Phila.
H. F. Rice -Wayne
M. J. Nelson-Phila.

Emergency 24 hours

B. E. Cooper--
M. J. Nelson -
T. J. Doyle -
C. M. Weil -
R. F. Andrews-

Columbia Southern - Pittsburgh Plate Glass

9:00 a.m. to 5:00 p.m. Monday through Friday

Emergency 24 hours

Plant Numbers

Barberton, Ohio
Natrium, W. Va.

Area Sales

J. J. Burke

Allied Chemicals

Syracuse, New York

CHEMTREC

CHEMTREC stands for Chemical Transportation Emergency Center, a public service of the Manufacturing Chemists Association at its offices in Washington, D.C. It provides immediate advice for those at the scene of emergencies, then promptly contacts the shipper of the chemicals involved for more detailed assistance and appropriate follow-up.

CHEMTREC operates around the clock-seven days a week to receive direct dial toll-free calls from any point in the U.S.

WATTS Telephone Number

CHLORINE INSTITUTE EMERGENCY KIT 'B' FOR CHLORINE TON CONTAINERS

Edition 5

July 1978

INSTRUCTION BOOKLET

e Chlorine Institute, Inc., 342 Madison Ave., New York, N.Y. 10017. Additional copies of this pamphlet are available at nominal cost.

1. GENERAL

1.1 INTRODUCTION

THE CHLORINE INSTITUTE EMERGENCY KIT "B" IS DESIGNED FOR USE WITH THE STANDARD DOT 106A500X CHLORINE TON CONTAINER IN CHLORINE SERVICE ONLY. THESE CONTAINERS HAVE AN OUTSIDE DIAMETER OF APPROXIMATELY 30 INCHES AND OVERALL LENGTH FROM 80-3/4 to 82-1/4 INCHES. THE KIT IS NOT DESIGNED TO BE USED ON LIQUID FULL TON CONTAINERS. [SEE SECTION 8 FOR OTHER KIT LIMITATIONS.] IT IS ALSO SUITABLE FOR THE PROPOSED (TO DOT) 220A500W SPECIFICATIONS.

1.2 KIT CONTENTS

THE CHLORINE INSTITUTE EMERGENCY KIT "B" CONTAINS DEVICES TO STOP LEAKS AT VALVES AND FUSIBLE PLUGS, AND IN SIDEWALLS OF TON CONTAINERS. RESPIRATORY EQUIPMENT IS NOT INCLUDED IN THE KIT, BUT MUST ALWAYS BE WORN WHEN INVESTIGATING AND CORRECTING CHLORINE LEAKS. THE KIT, PACKED IN A STEEL BOX MEASURING 10" x 10" x 27", WEIGHS APPROXIMATELY 110 POUNDS.

1.3 KIT MAINTENANCE

FOR KIT MAINTENANCE, SEE SECTION 7.

1.4 EMERGENCY TRAINING

TRAINING IN THE USE OF THE KIT AND RESPIRATORY EQUIPMENT IS RECOMMENDED. THE INSTITUTE HAS DEVELOPED A TEACHING AID CONSISTING OF SLIDES WITH ACCOMPANYING SCRIPT.

1.5 TANK INSPECTION

DAILY INSPECTION OF LOADED CHLORINE CONTAINERS IS RECOMMENDED, WHETHER OR NOT THEY ARE CONNECTED TO UNLOADING LINES. THROUGH THIS MEANS A LEAK USUALLY CAN BE DETECTED IN AN EARLY STAGE WHEN IT CAN BE STOPPED READILY APPLYING KNOWN REMEDIES.

1.6 LEAK DETECTION

WHEN ODOR OF CHLORINE INDICATES A LEAK, AUTHROIZED, TRAINED PERSONNEL EQUIPPED WITH SUITABLE RESPIRATORY EQUIPMENT SHOULD INVESTIGATE PROMPTLY. ALL OTHER PERSONS SHOULD BE KEPT AWAY FROM THE AFFECTED AREA. THE LOCATION OF A LEAK IN A CHLORINE CONTAINING SYSTEM CAN USUALLY BE DETECTED BY THE REACTION OF AMMONIA VAPOR WITH THE ESCAPING CHLORINE. THE REACTION IS A DENSE WHITE CLOUD. THE MOST CONVENIENT WAY TO USE AMMONIA FOR THIS PURPOSE IS TO DIRECT THE VAPOR FROM A PLASTIC SQUEEZE BOTTLE CONTAINING AQUA AMMONIA AT THE SUSPECTED LEAK. DO NOT SQUIRT LIQUID AQUA AMMONIA ON PIPE & FITTINGS. ANY EFFORTS TO DETECT THE SOURCE OF A LEAK SHOULD BE CARRIED OUT WITH FULL CONSIDERATION FOR POTENTIAL HAZARDS.

1.7 ASSISTANCE

PROMPTLY NOTIFY YOUR CHLORINE SUPPLIER. IF THE SUPPLIER CANNOT BE REACHED, THE NEAREST CHLORINE PRODUCING PLANT WHERE HELP IS AVAILABLE SHOULD BE CALLED. CHLORINE LEAKS ALWAYS GET WORSE IF THEY ARE NOT CORRECTED PROMPTLY.

1.8 REPRODUCTION

1.9 APPROVAL

THE INSTITUTE'S COMMITTEE ON CONTAINER SPECIFICATIONS AND SAFETY APPROVED THE FIFTH EDITION OF THIS KIT INSTRUCTION BOOKLET ON JUNE 28, 1978.

1.10 REVISIONS

SUGGESTIONS FOR REVISIONS OF THE KIT OR THE INSTRUCTION BOOKLET SHOULD BE DIRECTED TO THE SECRETARY OF THE INSTITUTE.

2. IDENTIFYING AND STOPPING LEAKS

CHLORINE LEAKS

OCCURRING THROUGH...	ARE CORRECTED BY...	REFER TO SEC
A. VALVE PACKING GLAND	TIGHTENING PACKING NUT with Wrench 200	
B. VALVE SEAT (will not close tight)	GENTLY OPENING AND CLOSING VALVE (to dislodge scale from valve seat), or	
	APPLYING OUTLET CAP* AND GASKET 4G with Wrench 200 * AN OUTLET CAP IS INCLUDED AS PART OF HOOD 12A	
C. VALVE INLET THREADS	TIGHTENING VALVE INTO CONTAINER SLOWLY AND WITH STEADY PRESSURE with Wrench 106, or	
	APPLYING DEVICE 12	3
D. BROKEN OFF VALVE	DRIVING SMALL DRIFT PIN B-1 INTO VALVE SHANK and,	
	APPLYING DEVICE 12 [HOOD]	3
E. VALVE BLOWN OUT (due to stripped threads)	DRIVING LARGE DRIFT PIN B-2 INTO VALVE OPENING and APPLYING DEVICE 12 [HOOD]	3
F. FUSIBLE PLUG BLOWN OUT (due to stripped threads)	SEE SECTION 4	
G. FUSIBLE PLUG THREADS	TIGHTENING FUSIBLE PLUG SLOWLY USING STEADY PRESSURE with Wrenches 104, 104A and 104B, or	
	APPLYING DEVICE 4	4
H. FUSIBLE METAL OF PLUG	APPLYING DEVICE 4, or	4
	DRIVING SMALL DRIFT PIN B-1 THROUGH FUSIBLE PLUG	
I. SIDE WALL OF CONTAINER	APPLYING DEVICE 9 [PATCH]	5

Note: Ton containers are normally transported, stored & handled in a horizontal position; see Fig. 2.3. Emergency devices are designed to be applied with the container horizontal. See also Section 3, step 3. However, when feasible, the container should be positioned so that the leak is in the gas phase and this position should be maintained throughout the period while the device is in place.

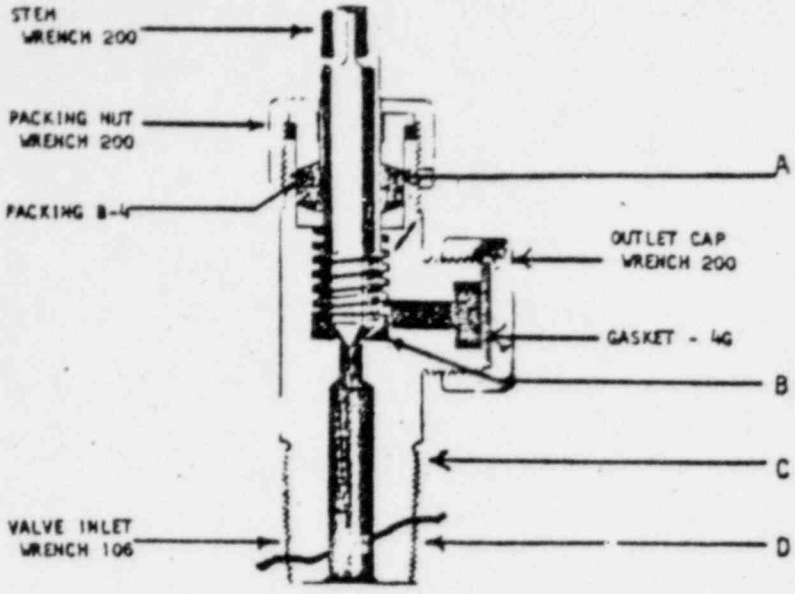

FIG. 2.1 CHLORINE INSTITUTE TON CONTAINER VALVE

FIG. 2.2 CHLORINE INSTITUTE STANDARD
3/4" or 1" FUSIBLE PLUG

TYPICAL CHLORINE LEAKS
OCCUR THROUGH.....

A- VALVE PACKING

B- VALVE SEAT

C- VALVE INLET THREADS

D- BROKEN OFF VALVE

E- VALVE BLOWN OUT

F- FUSIBLE PLUG BLOWN OUT

G- FUSIBLE PLUG THREADS

H- FUSIBLE METAL OF PLUG

I- SIDE WALL OF CONTAINER

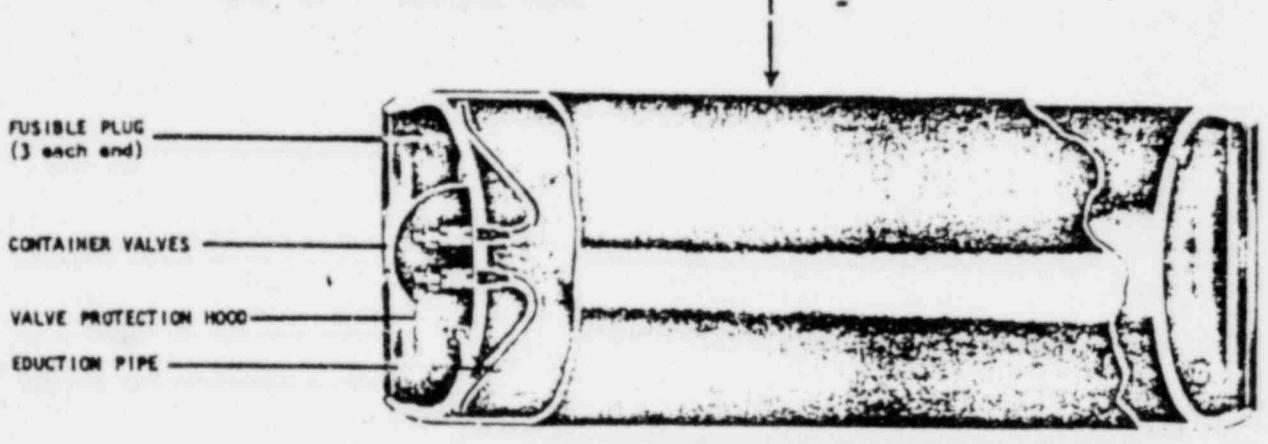

FIG. 2.3 CHLORINE TON CONTAINER

STEPS	EQUIPMENT REQUIRED
1. REMOVE VALVE PROTECTION HOOD if in place, ROLL CONTAINER SO THAT LEAKING VALVE IS IN UPPERMOST POSITION	
2. REMOVE OUTLET CAP FROM VENT VALVE ON HOOD (12A) and OPEN VALVE	WRENCH 200
3. LOOSEN ADJUSTING SCREWS (12F) and RETRACT JACK SCREWS (12E) sufficiently to allow INSERTION OF ADJUSTABLE BAR ASSEMBLY (12C) BEHIND CHIME OF CONTAINER BAR MUST BE IN VERTICAL POSITION to facilitate making adjustments	BAR ASSEMBLY 12C
4. CLEAN HEAD OF CONTAINER; USE SCRAPER IF PAINT IS LOOSE OR UNEVEN.	SCRAPER B-5
5. PLACE GASKET (4-12BMV) ON HOOD (12A). PLACE HOOD WITH GASKET OVER LEAKING VALVE (NOTE 1.)	HOOD ASSEMBLY 12A GASKET 4-12BMV
6. ADJUST LOWER JACK SCREW (12E) to CENTER ONE CAP SCREW (12D) OVER HOOD (12A) and ADJUST UPPER JACK SCREW SO THAT ADJUSTABLE BAR (12C) FITS TIGHTLY INSIDE CHIME. TIGHTEN ADJUSTING SCREWS (12F)	WRENCH 101
7. TIGHTEN CAP SCREW (12D), forcing Hood (12A) and Gasket against head of the container CAUTION: TIGHTEN JUST ENOUGH TO STOP LEAK; UNDUE PRESSURE WILL CUT GASKET	WRENCH 101
8. CLOSE VENT VALVE ON HOOD	WRENCH 200
9. TEST FOR LEAKS AROUND GASKET. TIGHTEN CAP SCREW (12D) further IF NECESSARY	WRENCH 101

Note 1: For certain containers having a ridge between the two valves, use Gasket 12BBV or the molded Gasket 12MV which has a depression to fit over the ridge.

DEVICE 12 Includes:

HOOD ASSEMBLY	(12A)
GASKETS	(4-12BMV, 12BBV or 12MV)
BAR ASSEMBLY	(12C)

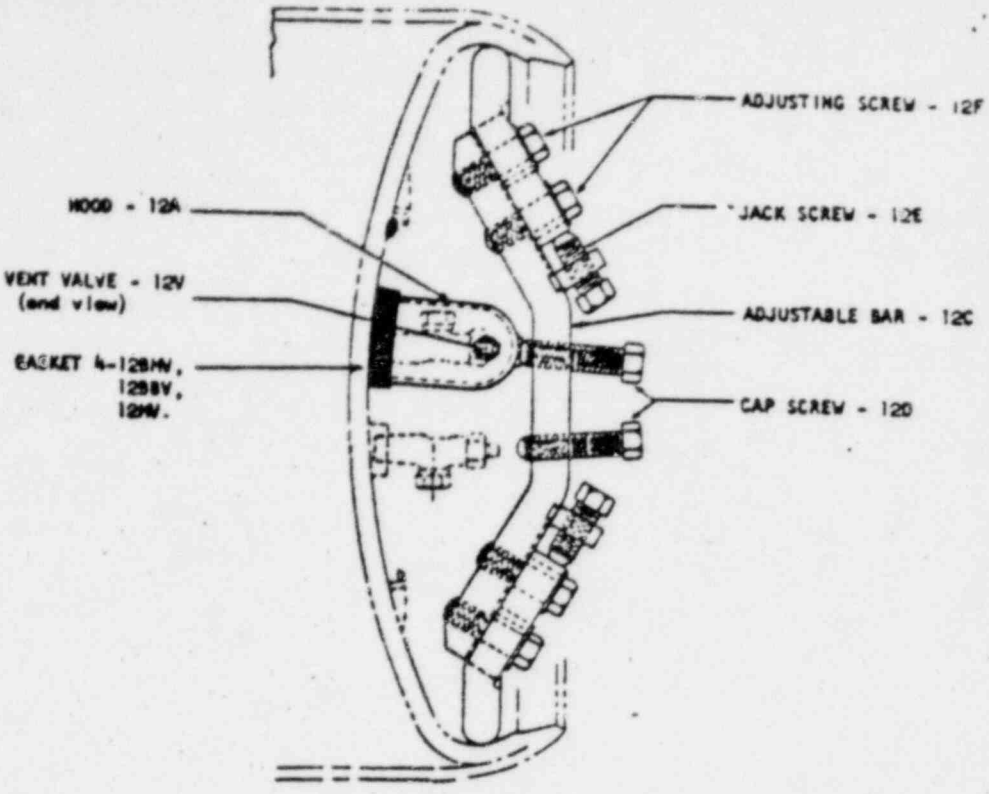

FIG. 3.1 DEVICE 12

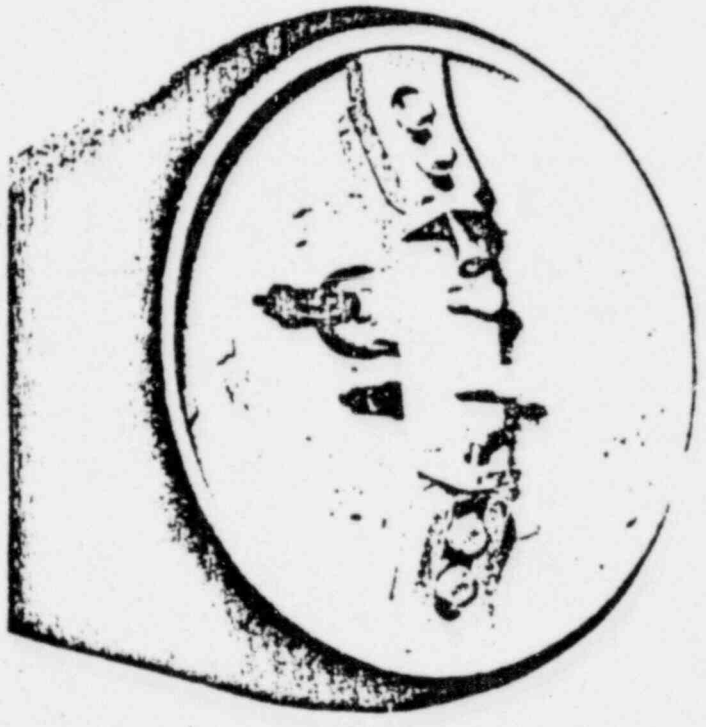

FIG. 3.2 DEVICE 12 FOR CAPPING VALVE

STEPS	EQUIPMENT REQUIRED
ROLL CONTAINER SO THAT LEAKING FUSIBLE PLUG IS IN UPPERMOST POSITION. REMOVE VALVE PROTECTION HOOD if in place.	
If leak is in threads of fusible plug: [See Fig. 4.1 and 4.3]	
1. CLEAN HEAD OF CONTAINER; USE SCRAPER (B-5) IF PAINT IS LOOSE OR UNEVEN	PAINT SCRAPER B-5
2. PLACE GASKET (4-12BMV) ON HOOD (4A). FIT YOKE (4C) WITH STUD (4E) OVER HEAD OF PLUG	GASKET 4-12BMV YOKE 4C STUD 4E
3. PLACE HOOD WITH GASKET OVER YOKE AND STUD SO THAT STUD EXTENDS OUT OF TOP OF HOOD	HOOD 4A
4. PLACE GASKET (4D) OVER STUD	GASKET 4D
5. SCREW CAP NUT (4F) ON STUD AND TIGHTEN GENTLY, forcing Hood and Gasket against head of the container firmly enough to stop leak.	CAP NUT 4F & WRENCH 101
6. TEST FOR LEAKS. TIGHTEN NUT further if necessary.	WRENCH 101
If threads of fusible plug are so corroded that plug should pull out:	
DRIVE SUITABLE DRIFT PIN INTO FUSIBLE PLUG OPENING	DRIFT PIN B-2 or B-3 (Note 2) HAMMER B-6
If leakage is through fusible metal only: [See Fig. 4.2 and 4.4]	
1. FIT YOKE (4C) WITH STUD (4E) OVER HEAD OF PLUG	YOKE 4C and STUD 4E
2. PLACE GASKET (4G) AGAINST FACE OF FUSIBLE PLUG	GASKET 4G
3. TIGHTEN STUD (4E), compressing Gasket (4G) against fusible plug	WRENCH 200 (Note 2)
4. TEST FOR LEAKS. TIGHTEN STUD further if necessary.	WRENCH 101

Notes: 1. Most containers have 3/4 inch fusible plug openings & require use of Drift Pin B-2; the containers with 1-inch openings require use of Drift Pin B-3.
2. If Stud 4E does not have 3/8 inch square head (some older Survey Kits), apply Cap Nut 4F and tighten with Wrench 101. Order a new stud.

DEVICE 4 includes:

HOOD	(4A)	STUD	(4E)
GASKET	(4-12BMV)	CAP NUT	(4F)
YOKE	(4C)	GASKET	(4G)
GASKET	(4D)		

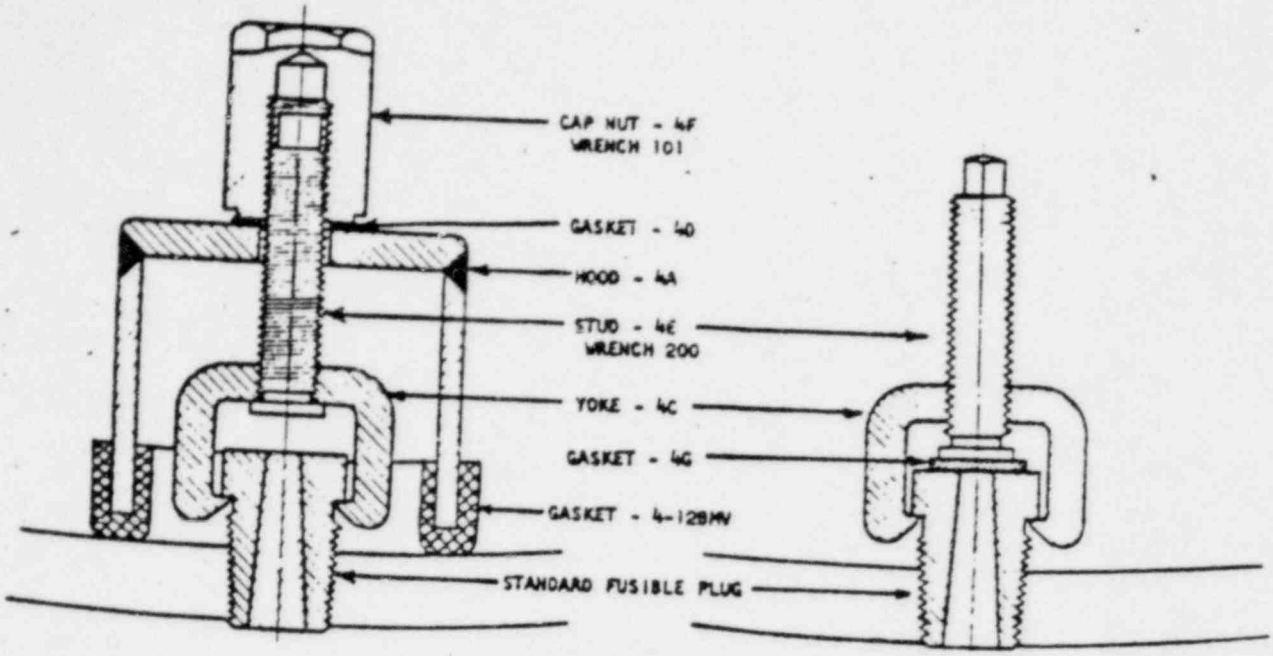

FIG. 4.1

FIG. 4.2

DEVICE 4

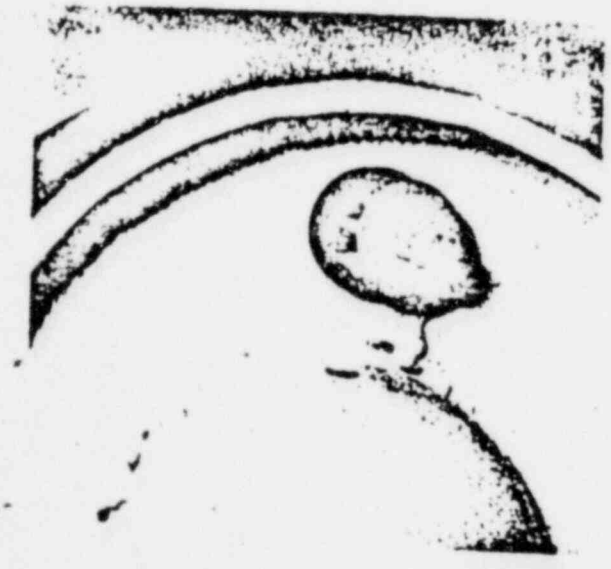

FIG. 4.3 DEVICE 4 APPLIED TO CONTAIN LEAK THROUGH FUSIBLE PLUG

FIG. 4.4 DEVICE 4 APPLIED TO CONTAIN LEAK THROUGH FUSIBLE METAL OF PLUG

STEPS	EQUIPMENT REQUIRED
1. ROLL CONTAINER SO THAT LEAK IS IN UPPERMOST POSITION. BE SURE CONTAINER WALL AROUND LEAK IS SOUND BEFORE PROCEEDING WITH APPLICATION OF DEVICE	
2. ADJUST CAP SCREW (9C) IN YOKE (9B) UNTIL POINT OF SCREW EXTENDS ONLY SLIGHTLY BELOW YOKE	YOKE 9B, CAP SCREW 9C
3. SLIP ONE END OF CHAIN (9A) UNDER CONTAINER AND PULL IT THROUGH UNTIL IT REACHES LEAK (Note 1)	CHAIN 9A
4. CENTER CAP SCREW (9C) IN YOKE (9B) IN PATCH DEPRESSION (9D)	PATCH 9D
5. ATTACH FREE ENDS OF CHAIN (9A) TO EACH SIDE OF THE YOKE (9B) (keeping chain as short as possible)	
6. PLACE GASKET (9EV) AND PATCH (9D) OVER LEAK. USE SCRAPER (B-5) IF PAINT IS LOOSE OR UNEVEN	GASKET 9EV & PATCH 9D & SCRAPER B-5
7. TIGHTEN CAP SCREW (9C) CAUTION: IF THERE IS ANY EVIDENCE OF WEAKENING OF CONTAINER WALL, IMMEDIATELY DISCONTINUE TIGHTENING SCREW	WRENCH 101
8. TEST FOR LEAKS. TIGHTEN SCREW further IF NECESSARY.	WRENCH 101

Note 1: If container is not on storage rack or rails, place it on rails or 2 x 4 planks, or dig a trench under it sufficient to allow free passage of chain under container.

DEVICE 9 includes:

CHAIN	(9A)	PATCH	(9D)
YOKE	(9B)	GASKET	(9EV)
CAP SCREW	(9C)		

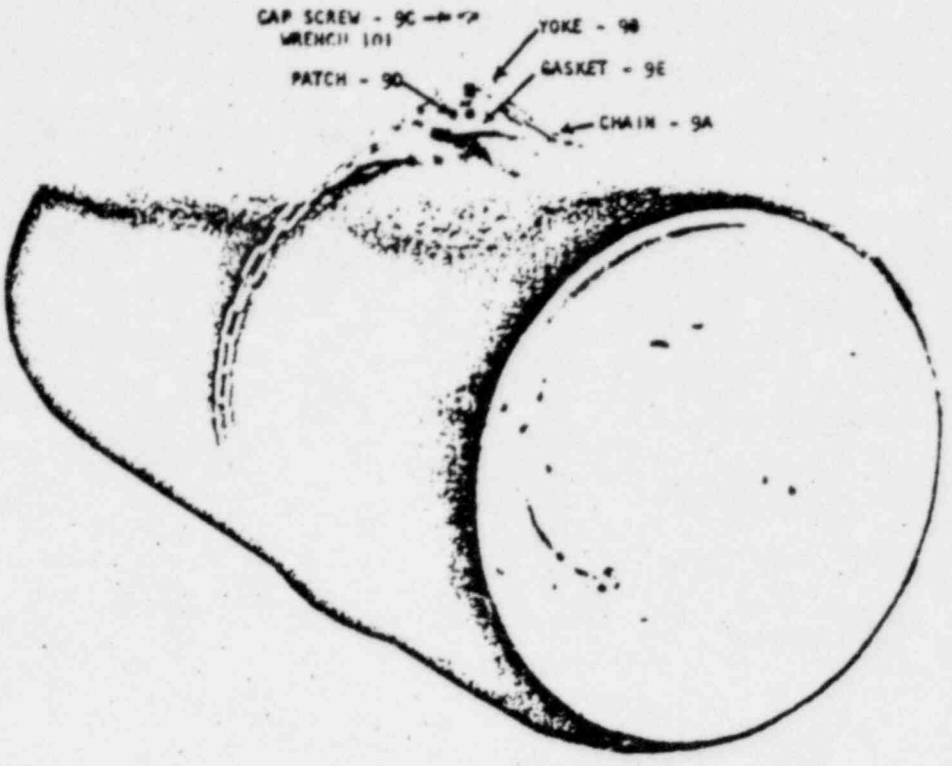

FIG. 5.1 DEVICE 9

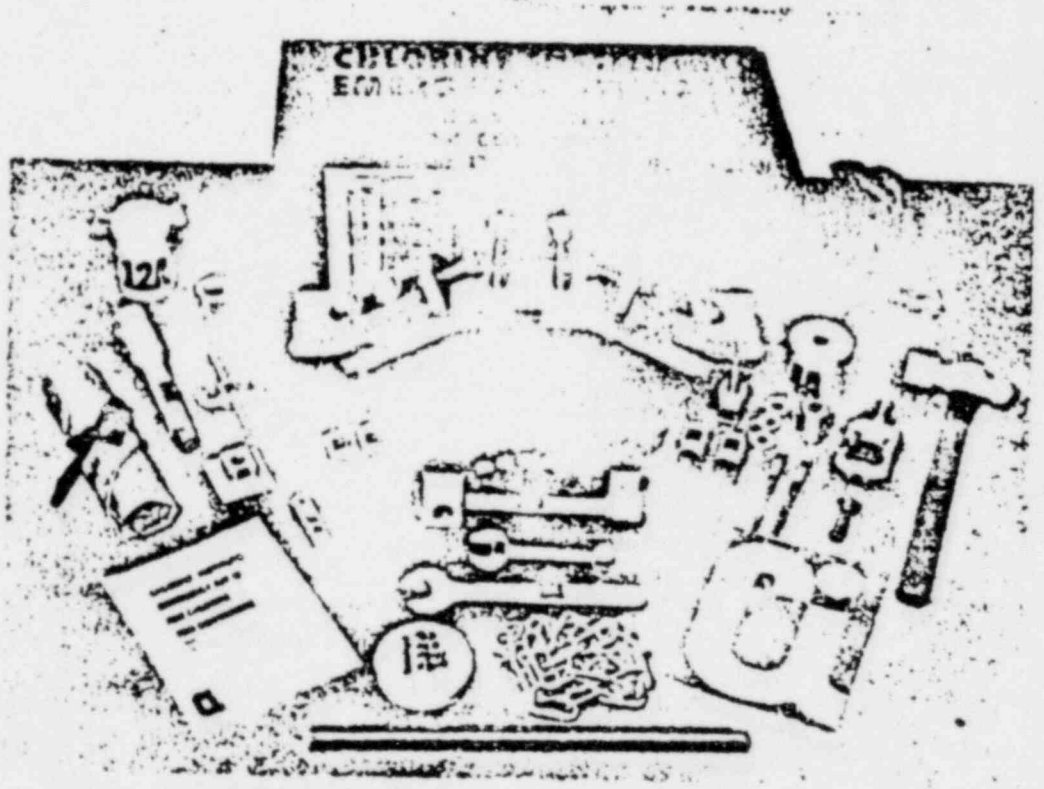

FIG. 5.2 CHLORINE INSTITUTE EMERGENCY KIT "B"

6. DISPOSAL OF CHLORINE REMAINING IN CONTAINER

THE STOPPING OF LEAKS BY THE EMERGENCY DEVICES IS ONLY AN INTERIM MEASURE; THE TON CONTAI MUST BE EMPTIED AS SOON AS POSSIBLE. CHLORINE MAY BE PASSED INTO AND ABSORBED BY A SOLUTI OF CAUSTIC SODA OR SODA ASH. EACH 100 POUNDS OF CHLORINE TO BE ABSORBED REQUIRES EITHER AT LEAST 125 POUNDS OF CAUSTIC SODA DISSOLVED IN ABOUT 42 GALLONS OF WATER OR 300 POUNDS OF SODA ASH DISSOLVED IN ABOUT 100 GALLONS OF WATER.

IF THE CHLORINE CANNOT BE CONSUMED OR ABSORBED, THE CAPPED OR PLUGGED CONTAINER SHOULD BE REMOVED TO A REMOTE AREA. CONSULT WITH THE CHLORINE SUPPLIER IMMEDIATELY & ARRANGE FOR ULTIMATE DISPOSAL.

7. KIT MAINTENANCE

7.1 AFTER USE

WHEN THE EMERGENCY DEVICE IS REMOVED FROM THE TON CONTAINER, ALL-METAL PARTS SHOULD BE THOR OUGHLY CLEANED WITH A DILUTE ALKALINE SOLUTION RINSED THOROUGHLY AND DRIED, AND LIGHTLY OILED TO PREVENT CORROSION. RETURN THE DEVICE, ALL WRENCHES AND OTHER TOOLS TO THE BOX, CHECK WITH THE CONTENTS LIST, AND RESEAL THE BOX SO THAT IT WILL AGAIN BE READY FOR AN EMERGENCY.

7.2 ROUTINE

THE KIT SHOULD BE FREQUENTLY INSPECTED BY THE PERSON RESPONSIBLE FOR THE EQUIPMENT AND CHECKED WITH THE CONTENTS LIST TO INSURE THAT EQUIPMENT IS COMPLETE AND READY FOR USE. THE BOX SHOULD BE SEALED AFTER EACH INSPECTION AND SUCH SEALS SHOULD BE BROKEN ONLY BY AUTHORIZED PERSONS OR IN CASE OF ACCIDENTS. MANY OWNERS COORDINATE ROUTINE INSPECTION WITH TRAINING DRILLS.

7.3 SPARE PARTS

SPARE PARTS MAY BE PURCHASED BY OWNERS OF THIS KIT OR THE SOLVAY EMERGENCY KIT "B", PROVIDE THAT THE KIT SERIAL NUMBER ACCOMPANIES THE ORDER. THE SERIAL NUMBER IS STEEL-STAMPED ON THE INSIDE, UPPER RIGHT CORNER OF THE COVER OF THE STEEL BOX IN 3/8" NUMBERS AND DECALED ON THE FRONT IN 1" NUMBERS. FOR INFORMATION ON ORDERING PROCEDURES, CONSULT THE INSTITUTE.

8. KIT LIMITATIONS

SOME TON CONTAINERS IN CURRENT USE ARE OF SUCH DESIGN THAT APPLICATION OF KIT "B" DEVICES MIGHT BE DIFFICULT OR IMPOSSIBLE. AMONG THESE ARE INCLUDED THOSE CONTAINERS WITH DOUBLE-DISHED HEADS; WITH FUSIBLE PLUGS LOCATED TOO CLOSE TO VALVE PROTECTION HOOD LUGS [PRECLUDING PROPER PLACEMENT OF DEVICE 4]; WITH FUSIBLE PLUGS LOCATED RADIALLY FROM THE CENTER OF THE HEAD TOO CLOSE TO THE CHIME [PRECLUDING USE OF DEVICE 4]; WITH VALVE PROTECTION HOOD FASTENED BY MEANS OF A SINGLE STUD LOCATED BETWEEN THE TWO OPERATING VALVES [PRECLUDING USE OF DEVICE 12]; AND, WITH OVER-SIZED VALVE BUSHING [PRECLUDING PROPER SEATING OF GASKET 4-12BMV, 12BBV OR 12MV AND OF HOOD ASSEMBLY 12A.]

KIT "B" DEVICES ALSO ARE UNSUITABLE FOR STOPPING LEAKS AROUND THE CHIME OF TON CONTAINERS.

CHLORINE INSTITUTE EMERGENCY KIT "B"

PARTS LIST

Part Number	Description	Quantity Per Kit
4A	Hood	1
4-12 BMV	Gasket, Molded Viton A®*	2
4C	Yoke	1
4D	Gasket, Garlock, 1-1/4 OD x 11/16 ID x 1/16	3
4E	Stud	1
4F	Cap Nut	1
4G	Gasket, Garlock, 15/16 dia. x 1/16	5
9A	Chain	1
9B	Yoke	1
9C	Cap Screw	1
9D	Patch	1
9EV	Gasket, Viton A®* 3" sq. x 1/8	2
12A	Hood Assembly (with 12V Vent Valve)	1
12BB	Gasket, Viton®A * 5 OD x 2 ID x 1/2	1
12C	Bar Assembly	1
12MV	Gasket, Viton A®* molded 5-1/4 OD x 2-1/4 ID x 3/4	1
101	Wrench, straight open end, 1-1/4 x 12	1
104	Wrench, socket, 1-1/4 hex	1
104A	Wrench extension, 1" sq. drive x 9	1
104B	Wrench Bar, 1" dia. x 20	1
104C	Wrench Bar, Adaptor, 1" RD to 1" sq.	1
106	Wrench, crowfoot special, 1-5/32 x 11	1
200	Wrench, 3/8 sq. box & 1-1/4 open end x 7-1/4	1
B-1	Drift Pin, 9/32 x 1/2 x 6	2
B-2	Drift Pin, 7/8 x 1-1/4 x 8	2
B-3	Drift Pin, 1-1/16 x 1-7/16 x 8	2
B-4	Ring, vent valve packing	5
B-5	Paint Scraper, 1-1/4 blade	1
B-6	Hammer, machinist, 48 oz.	1
B-7	Metal Railroad Car Seals	15
B-8	Gasket Sack	1
B-9	Valve Yoke	1
B-10	Valve Adaptor	1
B-11	Gasket, Garlock 15/16 OD x 9/16 ID x 1/16	5
B-12	Plastic Box	1
151-B	Steel Box	1
153	Tool Roll	1
	Instruction Booklets	2
	Chlorine Facts Booklet	1

*Note: Viton® is a registered trademark of E. I. duPont de Nemours, Inc.

EMERGENCY CONTACTS

CHLORINE SUPPLIER: _____

Address _____

Phone _____

NEAREST CHLORINE PRODUCER: _____

Address _____

Phone _____

POLICE DEPARTMENT: _____

FIRE DEPARTMENT : _____

FIRST AID : _____

CHEMTREC * : 800-424-9300

TEAP * : _____

: _____

: _____

: _____

*CHEMTREC number is for U.S., except Alaska, Hawaii and D.C. Consult the Institute for special phone numbers for these, as well as the Canadian TEAP numbers.

Initial M.J. - NRC action

W J Knapp

EMERGENCY PLAN PROCEDURES INDEX

PEACH BOTTOM UNITS 2 AND 3

Number	Title	Review Date	Rev. No.	Revision Date
EP-101	Classification of Emergencies	02/17/82	3	02/17/82
EP-102	Unusual Event Immediate Actions	02/03/82	2	02/03/82
EP-103	Alert Response	02/04/82	3	02/04/82
EP-104	Site Emergency Response	02/04/82	2	02/04/82
EP-105	General Emergency Response	02/04/82	2	02/04/82
EP-201	Technical Support Center (TSC) Activation	02/05/82	2	02/05/82
EP-202	Operational Support Center (OSC) Activation	02/05/82	1	02/05/82
EP-203	Emergency Operations Facility (EOF) Activation	02/05/82	1	02/05/82
EP-205	Radiation Protection Team Activation	02/08/82	2	02/08/82
EP-205A	Chemistry Sampling and Analysis Group	02/08/82	2	02/08/82
EP-205B	Radiation Survey Groups	02/04/82	1	02/04/82
EP-205C	Personnel Dosimetry Bioassay and Respiratory Protection Group	02/04/82	1	02/04/82
EP-206	Fire and Damage Team Activation	02/25/82	3	02/25/82
EP-206A	Fire Fighting Group	02/25/82	1	02/25/82
EP-206B	Emergency Repair Group	02/26/82	1	02/26/82
EP-207	Personnel Safety Team Activation	02/26/82	2	02/26/82
EP-207A	Search and Rescue	02/26/82	1	02/26/82
EP-207B	Personnel Accountability	02/26/82	1	02/26/82
EP-207C	First Aid	03/02/82	1	03/02/82
EP-207D	Personnel Monitoring and Decontamination	02/26/82	1	02/26/82
EP-208	Security Team	04/01/81	0	04/01/81

EMERGENCY PLAN PROCEDURES INDEX

PEACH BOTTOM UNITS 2 AND 3

Number	Title	Review Date	Rev. No.	Revision Date
EP-209	Telephone List For Emergency Use	07/23/81	2	07/23/81
EP-209 Appendix A	Immediate Notification Call List	11/02/81	3	11/02/81
EP-209 Appendix B	Philadelphia Electric Company Officials	07/23/81	1	07/23/81
EP-209 Appendix C	Peach Bottom Station Supervision	12/07/81	3	12/07/81
EP-209 Appendix D-1	On Site Emergency Team Leaders	11/19/81	2	10/16/81
EP-209 Appendix D-2	Radiation Survey Team	10/16/81	2	10/16/81
EP-209 Appendix D-3	Fire and Damage Team	10/16/81	2	10/16/81
EP-209 Appendix D-4	Personnel Safety Team	10/16/81	2	10/16/81
EP-209 Appendix D-5	Security Team	11/19/81	2	10/16/81
EP-209 Appendix D-6	Re-Entry and Recovery Team	11/02/81	1	11/02/81
EP-209 Appendix D-7	Technical Support Center Team	11/02/81	2	11/02/81
EP-209 Appendix E	Corporate Emergency Team Leaders and Support Personnel	11/02/81	3	11/02/81
EP-209 Appendix F	U. S. Government Agencies	07/23/81	1	07/23/81
EP-209 Appendix G	Emergency Management Agencies	10/16/81	2	10/16/81
EP-209 Appendix H	Company Consultants	10/16/81	2	10/16/81
EP-209 Appendix I-1	Field Support Personnel	02/02/82	4	02/02/82
EP 09 Appendix I-2	Rad Services Call List	10/16/81	2	10/16/81
EP-209	Nearby Public and Industrial Users			

EMERGENCY PLAN PROCEDURES INDEX

PEACH BOTTOM UNITS 2 AND 3

Number	Title	Review Date	Rev. No.	Revision Date
Appendix J		07/23/81	1	07/23/81
EP-209 Appendix K	Miscellaneous	07/23/81	1	07/23/81
EP-209 Appendix L	Local PECo Phones	07/23/81	1	07/23/81
EP-209 Appendix M	D E L E T E D			
EP-209 Appendix N	Medical Support Groups	11/19/81	2	10/16/81
EP-209 Appendix P	Staffing Augmentation - 60 Minute Call Procedure	03/05/82	1	03/05/82 *
EP-301	Operating the Evacuation Alarm and Pond Page System	04/01/81	0	04/01/81
EP-303	Partial Plant Evacuation	12/22/81	1	12/22/81
EP-304	D E L E T E D			
EP-305	Site Evacuation	03/05/82	3	03/05/82 *
EP-306	Evacuation of the Information Center	12/22/81	1	12/22/81
EP-311	Handling Personnel with Serious Injuries, Radioactive Contamination Exposure, or Excessive Radiation Exposure Emergency Director Functions	02/08/82	2	02/08/82
EP-312	Radioactive Liquid Release (Emergency Director Functions)	04/01/81	0	04/01/81
EP-316	Cumulative Population Dose Calculations	04/01/81	0	04/01/81
EP-317	Direct Recommendations to County Emergency Management Agencies	03/31/81	0	03/31/81
EP-320	Procedure for Leaking Chlorine	04/01/81	0	04/01/81
EP-401	Entry for Emergency Repair, Operations, and Search and Rescue	02/08/82	2	02/08/82
EP-500	Review and Revision of Emergency Plan (FSAR Appendix 0)	04/01/81	0	04/01/81

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PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-209 APP P - STAFFING AUGMENTATION - 60 MINUTE CALL PROCEDURE

PURPOSE
This appendix provides the method of contacting key staff personnel who will, in-turn, notify sufficient support personnel to meet the one-hour staffing requirement.

1. The following steps shall be performed, in sequence, by the Shift Clerk or other assigned personnel.

2. Inform each person contacted of the event classification and that 60 minute staffing is required.

3. Call pager number if the phone is busy, if there is no answer, or if you know that the individual is "on-the-pager". Individuals may, of course, supply temporary numbers which should be called first.

4. Contact two staff senior engineers. W. T. Ullrich is contacted by the Communicator and counts as one contact. Do not call W. T. Ullrich if the Communicator has successfully reached him. Attempt to contact the "Duty" and "Interim Site Coord." engineers first. If you are unsuccessful, continue to call or page personnel on the list until you contact two individuals who can be at the site in less than 60 minutes.

Name!	Phone	Time Called	Disposition No Ans.-Busy-Contacted	Called By
Ted Ullrich				
Dick Fleischmann				
Drew Smith				
Jack Winzenried				
Steve Roberts				
Allen Hilsmeier				
John Davenport				
Steve Kovacs				

5. Contact the on-shift I&C technician via plant phone (at Ext. , or plant paging system and request a call-in of two additional I&C technicians from their own support personnel call list.

I&C Technician Contacted _____

Time Contacted _____ by _____

6. Contact the on-shift Maintenance Sub-Foreman via phone (at Ext. or plant page system and request a call-in of two maintenance mechanics (preferrably one electrician and one fitter or machinist) from their own support personnel call list.

Maintenance Sub-Foreman_____

Time Contacted _____ by _____

7. Contact one of the representative from HP&C listed below and request the call-in of required HP and Chemistry, TAs and Technicians. Make the calls in the listed order unless individuals are known not to be available. This step may be omitted if A. E. Hilsmeier was contacted in step 4.

Name	Phone	Time Called	Disposition No Ans.-Busy-Contacted	Called By
Allen Hilsmeier				
Norb Gazda				
Harry Watson				
Stewart Nelson				
Ken James				
Jim Valinski				
Art Beward				
Dave Barron				

8. Contact one of the representative of the Engineering Support Group below and request the call-in of required Engineers and TAs Call in the listed order unless individuals are known not to be available. This step may be omitted if J. E. Winzenried was contacted in step 4.

Name	Phone	Time Called	Disposition No Ans.-Busy-Contacted	Called By
Jack Winzenried				
Fred Polaski				
Geoff Dawson				
Jim Mitman				
Ken Hunt				
Tony Wasong				
Joe Clupp				
Don Warfel				
Tom Niessen				

9. Contact one PO or APO on list provided by SS/SSV and call-in for work as Radwaste Operator. (If the person is contacted, he is required to come to plant). This step may be waived by Shift Supervision if an extra PO or APO is already on shift.

PO or APO Contacted _____ Est Arrival Time_____

Time Contacted _____ by _____

10. Attempt to contact all other senior engineers listed in Step 4. Document in step 4.

11. Notify Interim Emergency Director (Shift Supterintendent) when notifications are complete and inform him of any discrepancies.

Notified _____ at _____

Discrepancies_____

File Sys 3-1

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PEACH BOTTOM UNITS 2 AND 3
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-305 SITE EVACUATION

PURPOSE

To define the actions to be performed if a site evacuation is required due to unexpected or uncontrolled hazards involving the main plant and extensive site areas outside the plant.

REFERENCES

1. Peach Bottom Atomic Power Station Emergency Plan

Section	Title
6.0	Emergency Measures

2. NUREG 0654 — Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
3. EP 207A — Search and Rescue
4. EP 207B — Personnel Accountability
5. EP 207C — First Aid
6. EP 207D — Personnel Monitoring and Decontamination
7. EP 301 — Operating the Evacuation Alarm and Pond Page System
8. EP 306 — Evacuation of the Information Center
9. EP 11 — Security Force Actions During a Site Evacuation
10. 10 CFR 20

APPENDICES

EP 305-1 Disposition of Evacuees

ACTION LEVEL

1. An unexpected or uncontrolled hazard exists which affects the main plant and other areas of the site as indicated by Radiation Protection team surveys, airborne or area radiation monitoring equipment as follows:

   a. Airborne radioactivity outside the plant but within the security fence greater than 1×10^{-8} uCi/cc for an unidentified isotope in an occupational environment.

   b. Unexpected radiation levels outside the plant but within the security fence greater than 10 mR/hr.

2. Local plant evacuation conditions exist, as specified in EP-15.

   a. Radiation levels at the designated local plant evacuation assembly areas, are greater than 10 mR/hr or airborne contamination levels are greater than 4×10^{-10} uCi/cc for an unidentified isotope in a non-occupational environment.

3. Roof vent radiation recorders indicate roof vent release rates in excess of the following levels:

   One roof vent at Site Emergency Value (as per Appendix EP-101-1 of EP-101)

   Each roof vent at Alert Values (as per Appendix EP-101-1 of EP-101)

   CAUTION: IN-PLANT OR SITE RADIOLOGICAL HAZARDS MAY BE CAUSED BY RECIRCULATION OF ROOF VENT RELEASES.

PRECAUTIONS

None

IMMEDIATE ACTIONS

1.0 Emergency Director shall:

   1.1 Determine which assembly area will be used. If the wind is from the north at greater than 3 miles per hour, designate the North Substation as the assembly area. Otherwise, designate the President's Utility Building (PUB). The alternate location is the Delta Service Building.

1.3 Notify the senior ranking security officer on shift that a site evacuation is imminent and to carry out applicable emergency security procedures.

1.4 Announce a site evacuation over the station public address system as follows: (Announcements should be clear and distinct)

THIS IS A SITE EVACUATION. ALL PERSONNEL EVACUATE TO THE (state designated assembly area). OFF-SITE OPERATIONS PERSONNEL REPORT TO THE OPERATIONS SUPPORT CENTER OR THE CONTROL ROOM; PERSONNEL SAFETY TEAM, REPORT TO THE ASSEMBLY AREA; OTHER EMERGENCY TEAMS REPORT TO THE UNIT 1 AREA AND AWAIT FURTHER INSTRUCTIONS.

1.4 Repeat the announcement.

1.5 Direct activation of the evacuation sirens, including the Pond Page system in accordance with EP 201, Operating the Evacuation Siren and Pond Page System.

1.6 After the sirens have stopped, repeat the announcement and the activation of the evacuation sirens and the Pond Page System.

1.7 Direct the evacuation of the Information Center in accordance with EP 305, Evacuation of the Information Center.

1.8 Initiate accountability of personnel in accordance with EP 207, Personnel Accountability.

2.0 Plant Personnel (except designated emergency team members) shall:

2.1 Evacuate the site and report to the assigned location in the assembly areas. If the area is inaccessible, you will be directed to an alternate assembly area.

3.0 Shift Personnel shall:

3.1 Report to the Operations Support Center or the Control Room.

4.0 Emergency Team Members having emergency response roles shall:

4.1 Report to the Unit 1 Area and await further instructions.

5.0 Security Force shall:

5.1 Direct the evacuation of people to the assembly areas and carry out emergency security procedures, and appropriate parts of EP 207B, Personnel Accountability, as applicable.

6.0 Personnel Safety Team shall:

6.1 Report to the assembly area and form groups to carry out applicable portions of the following procedures as necessary.

EP 207A Search and Rescue
EP 207C First Aid
EP 207D Personnel Monitoring and Decontamination

FOLLOW-UP ACTIONS

1.0 Emergency Director shall:

1.1 Direct the Security Force to fill out Appendix EP 205-1, Disposition of Evacuees, listing all unaccounted for personnel.

2.0 Security Force shall:

2.1 Assist in evacuation of personnel.

2.2 Collect security badges.

2.3 Carry out EP 207B, Personnel Accountability and inform the Emergency Director and the Personnel Safety Team Leader of the results.

2.4 Control access to the plant per EP 11.

3.0 Personnel Safety Team shall:

3.1 Report results of activities performed to the Personnel Safety Team Leader.

APPENDIX EP 305-1

APPENDIX EP 305-1 DISPOSITION OF EVACUEES

NO.	DISP.[1]	P.P. EMPL[2]	NAME OR ADDRESS	HARSHAW BADGE NO.[3]	RESPIRATOR EXP. CHECK[5]	CONTAMINATION LEVEL/LOCATION[4]
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

PREPARED BY_____ DATE__/__/__ FORWARD TO_____FOR RETENTION

NOTES 1 DISPOSITION D-DETAINED R-RELEASED 2 P.P.EMPLOYEE CHECK IF YES 3 ADDRESS IF NOT SITE EMPLOYEE 4 CONTAMINATION LEVEL WITH UNITS 5 ENTER: POS NEG