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- 11 Evaluation for the Effects of the Dresden Unit 3 Polyurethane Fire
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- 13 Using the Service Water System as Backup for the Fire Water System
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- 1 Appendix R Station Modifications Meetings
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Correspondence Referenced in the September 28, 1987 Safety Evaluation and Acceptance of Exemption Request for Drywell Expansion Gap

Page	Date	To/From	Subject
V.0-15	06-05-86	NRC/CECO	Request for Exemption from 10CFR50 Appendix R for Drywell Expansion Gap

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Volume 3 – Fire Protection Drawings (For Reference Only)

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Fire Protection Program Documentation Package

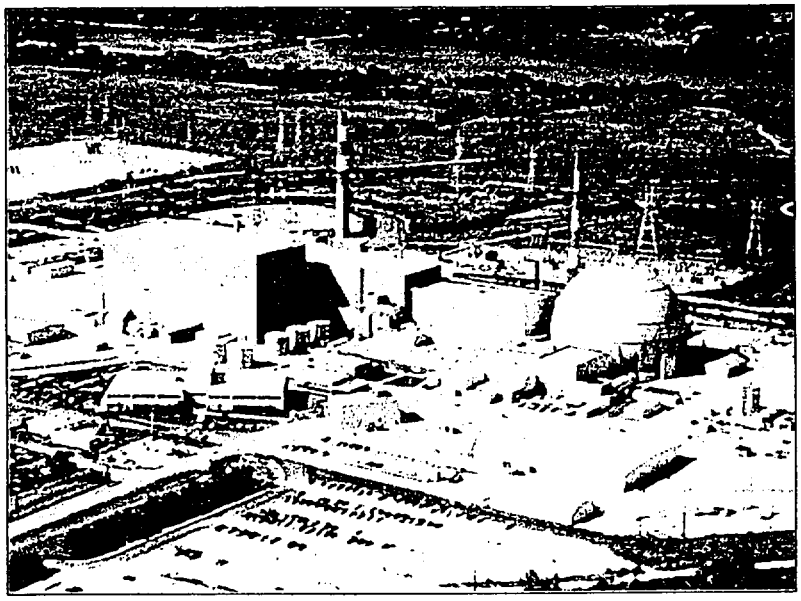
Fire Protection Drawings

The Fire Protection Drawings are available through Central Files.

QA-4255-16
Retain Until Years

QA RECORD

COMMONWEALTH EDISON COMPANY
DRESDEN NUCLEAR STATION
UNITS 2 & 3



FIRE PRE-PLANS

Revision 4 **Prepared By: Nexus Technical Services Corp.**

Date: 12/13/99

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

FIRE-PRE PLANS
Revision: 4
Date: 12/13/99

1.0 INTRODUCTION

The Dresden Fire Pre-Plans have been developed to provide guidance for fire brigade actions as required by NRC guidelines.

Each Pre-Plan is developed in two parts. The first is the "Pre-Plan Summary" which is just that; a brief summary of the data in the main body of the pre-plan. The main body is entitled "Fire Pre-Plan" and includes detailed data such as identification of individual circuit breakers necessary to disconnect power to major pieces of equipment.

A drawing of each pre-plan area is included on page 2 of each pre-plan.

2.0 DEVELOPMENT

Initial development of the pre-plans was accomplished by review of the Fire Hazard Analysis (FHA). Initial pre-plan organization followed the various fire areas as identified in the FHA. Each fire area was evaluated relative to such factors as: combustible loading, fixed suppression systems, and accessibility. From this evaluation, each pre-plan area was defined. After development, the pre-plans were organized and numbered in a manner which will allow for easy reference.

Utilizing the FHA, Station "F-Drawings," General Arrangement Drawings, Electrical Line Diagrams and other documentation, first-draft pre-plans were developed. The pre-plans were then field-checked to verify manual suppression equipment, communications equipment, access, automatic protection and general area lay-out. (A few areas of the plant could not be checked due to Health-Physics restrictions.)

Data gathered in the field was incorporated into the pre-plans and a revised draft published and sent to the plant for review. Station comments were incorporated and the pre-plans were published and released.

2.1 1990 UPDATE (REVISION 1)

For the 1990 update of the pre-plans, a review was performed to identify certain types of discrepancies between the plant status as described in the pre-plans and the actual status. The following tasks were performed:

A. The pre-plans were reviewed to identify: safe shutdown access paths which are supposed to be available according to the text; fire hazards listed as being present in each fire zone; fire protection-related structures and equipment; and exposures (i.e., vulnerable safe shutdown equipment).

B. The list of items identified in Task A above were reviewed against the Fire Hazards Analysis (FHA) and the "F" series (fire protection) drawings to identify discrepancies. This review was performed as follows: safe shutdown access paths were checked against the lighting and access drawings; fire hazards were checked against the FHA; fire protection-related structures and equipment were checked against the FHA and "F" drawings; and exposures were checked against the FHA.

C. A walkdown of appropriate areas of the plant was performed to verify the existence and location of the items identified in Task A and discrepancies were recorded.

D. Based on the discrepancies noted in the reviews and walkdowns described above, the pre-plans were revised as appropriate. The pre-plan text and figures were produced using PC-based software to facilitate future revisions and the entire document was reissued.

2.2 1992 UPDATE (Revision 2)

This revision incorporated identification of areas which contain CO_2 gaseous suppression systems and areas which may be affected by the gaseous suppression systems. Additionally, the isolation valves for the water suppression systems in the plant have been identified.

2.3 1998 UPDATE (Revision 3)

This revision incorporated the identification of the areas in which the arrangement of several items of fire protection equipment have been changed . This includes the portable extinguishers, hose reels, detection, and placement thereof. Many items of this nature have been either relocated, changed to a different media, or deleted from the area altogether. Additionally, several areas in which combustible gap material was identified at the expansion gap around the tops of various walls were incorporated into the pre-plans.

2.4 1999 UPDATE (Revision 4)

The purpose of this report is to update the existing Dresden Nuclear Station, Units 2 & 3 Fire Pre-Plans to incorporate plant changes that have occurred since the last update. In addition, to address pre-plan issues discussed in Fire Protection Self-Assessment Report dated 12/15/98, Special Notes were incorporated into the following fire pre-plans to indicate: 1) Hose stations provided with non-electrically rated nozzles (2/3 RB-32, U2TB-48 and U2TB-49); 2) Hose stations with fire hoses that do not provide coverage to certain plant areas (U2RB-5, U3RB-25, U2TB-50, U3TB-78, 3CT-100, 3CT-101, 2/3C-124, 2/3C-125, 2/3OG-131, 2/3OG-132 and 1C-137); and 3) Locations where the brigade may open a fire door to route a hose potentially exposing required Appendix R safe shutdown components to fire (U2RB-5, U2RB-6, U3RB-24, U3RB-28, and U2TB-43).

3.0 PRE-PLAN DIRECTORY

A summary of the pre-plans is provided in Table 3.1.

An individual listing of the pre-plans is provided in Table 3.2.

TABLE 3.1

FIRE PRE-PLAN SUMMARY

Section	Pre-Plan Numbers	Area
U2RB	U2RB1 thru U2RB12	Unit 2 Reactor Building
U3RB	U3RB19 thru U3RB31	Unit 3 Reactor Building
U2/3RB	2/3RB32	Unit 2 & 3 Reactor Building
U2TB	U2TB36 thru U2TB58	Unit 2 Turbine Building
U3TB	U3TB68 thru U3TB85	Unit 3 Turbine Building
2/3TB	2/3TB92 thru 2/3TB97	Unit 2 & 3 Turbine Building Common Area
3CT	U3CT100 thru U3CT101 2/3DG105	Unit 3 Cable Tunnel Swing Diesel Generator
2/3RW	2/3RW108 thru 2/3RW118	Radwaste Building
2/3C	2/3C124 thru 2/3C126	Unit 2/3 Crib House
2/3OG-1C-TR	2/3OG131 thru 2/3OG133 U1C-137 1/2/3TRH2-140 thru 1/2/3TRH2-143	Off-Gas Filter Building Unit 1 Crib House Transformers and Hydrogen Areas

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

Pre-Plan Number	Fire Zone	Unit No.	Description	Elev.	Rev.
U2RB-1	1.1.2.1	2	Torus	476	4
U2RB-2	11.2.1	2	Southwest Corner Room	476	4
U2RB-3	11.2.2	2	Southeast Corner Room	476	4
U2RB-4	11.2.3	2	HPCI Pump Room	476	4
U2RB-5	1.1.2.2	2	Ground Floor	517	4
U2RB-6	1.3.2	2	Shutdown Cooling Pump Room	517	4
U2RB-7	1.1.2.3	2	Secondary Containment	545	4
U2RB-8	1.1.2.3	2	Non-Reg. Heat Exchanger	545	4
U2RB-9	1.1.2.3	2	Shutdown Heat Exchanger	545	4
U2RB-10	1.1.2.4	2	Secondary Containment	570	4
U2RB-11	1.1.2.5.D	2	Stand-by Liquid Control Area	589	4
U2RB-12	1.1.2.5.A	2	Isolation Condenser Area	589	4
U3RB-19	1.1.1.1	3	Torus	476	4
U3RB-20	11.1.1	3	Southwest Corner Room	476	4
U3RB-21	11.1.2	3	Southeast Corner Room	476	4
U3RB-22	11.1.3	3	HPCI Pump Room	476	4
U3RB-23	1.1.1.2	3	Ground Floor	517	4
U3RB-24	1.3.1	3	Shutdown Cooling Pump Room	517	4
U3RB-25	1.4.1	3	Tip Drive Room	517	4
U3RB-26	1.1.1.3	3	Secondary Containment	545	4
U3RB-27	1.1.1.3	3	Non-Reg. Heat Exchanger	545	4
U3RB-28	1.1.1.3	3	Shutdown Heat Exchanger	545	4
U3RB-29	1.1.1.4	3	Secondary Containment	570	4
U3RB-30	1.1.1.5.D	3	Standby Liquid Control Area	589	4

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

Pre-Plan Number	Fire Zone	Unit No.	Description	Elev.	Rev.
U3RB-31	1.1.1.5.A	3	Isolation Condenser Area	589	4
U2/3RB-32	1.1.1.2 1.1.2.6	2/3	Refueling Floor	613	4
U2TB-36	8.2.1.A	2	Condensate Pumps	469	4
U2TB-37	8.2.2.A	2	CCSW Pumps	495	4
U2TB-38	8.2.5.B	2	Low Pressure Heater Bays	517	4
U2TB-39	8.2.5.C	2	Oil Storage	517	4
U2TB-40	8.1	2	Clean and Dirty Oil Room	517	4
U2TB-41	8.2.5.A	2	H.P. Heaters/Steam Lines	517	4
U2TB-42	8.2.5.A	2	Reactor Feed Pumps	517	4
U2TB-43	9.0.A	2	Diesel Generator	517	4
U2TB-44	8.2.5.A	2	Cond. Transfer Pumps/Hallway	517	4
U2TB-45	8.2.5.A	2	Trackway Area	517	4
U2TB-46	6.2	2/3	Computer Room and Auxiliary Electrical Room	517	4
U2TB-47	8.2.5.A	2	Switchgear and MCC	517	4
U2TB-48	8.2.6.A	2	RFP Vent, H_2 Seal Area	538	4
U2TB-49	2.0	2	Control Room	534	4
U2TB-50	8.2.6.B	2	Low Pressure Heater Bays	538	4
U2TB-51	8.2.6.A	2	Switchgear Area	534	4
U2TB-52	8.2.7	2	T.B. Ventilation Area	549	4
U2TB-53	7.0.A.1-.3/ 8.2.7	2	Battery Rooms	549	4
U2TB-54	8.2.8.D/14.2.A	2	Fan Floor	549	4
U2TB-55	14.2.B/8.2.8.D	2	Off-Gas Recombiner	571	4

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

Pre-Plan Number	Fire Zone	Unit No.	Description	Elev.	Rev.
U2TB-56	14.2.C	2	Off-Gas Recomb./H2 Analyzer	590	4
U2TB-57	8.2.8.A	2	Main Turbine Floor	561	4
U2TB-58	8.2.8.A	2	Turbine Area	561	4
U3TB-68	8.2.1.B	3	Condensate Pumps	469	4
U3TB-69	8.2.2.B	3	CCSW Pumps	495	4
U3TB-70	8.2.5.D	3	Low Pressure Heater Bays	517	4
U3TB-71	8.2.5.E	3	H.P. Heaters/Steam Line	517	4
U2TB-72	8.2.5.E	3	Reactor Feed Pump	517	4
U3TB-73	9.0.B	3	Diesel Generator	517	4
U3TB-74	8.2.5.E	3	Cond. Transfer Pumps/Hallway	517	4
U3TB-75	8.2.5.E	3	Trackway Area	517	4
U3TB-76	8.2.5.E	3	Switchgear Area	517	4
U3TB-77	8.2.6.E	3	RFW SWGR H_2 Seal	538	4
U3TB-78	8.2.6.D	3	Low Pressure Heater Bays	538	4
U3TB-79	6.1	3	U-3 Battery Charger Room	538	4
U3TB-80	7.0.B	3	250V Battery Room	551	4
U3TB-81	8.2.8.D/14.3.A	3	Fan Floor	549	4
U3TB-82	14.3.B/8.2.8.D	3	Off-Gas Recombiner	571	4
U3TB-83	14.3.C/8.2.8.D	3	Off-Gas Recomb./H_2 Analyzer	590	4
U3TB-84	8.2.8.A	3	Main Turbine Floor	561	4
U3TB-85	8.2.8.A	3	Turbine Area	561	4
2/3TB-92	8.2.5.C	2/3	EHC Reservoir Area	517	4
2/3TB-93	8.2.5.C	2/3	Cond. Demin. Area	517	4
2/3TB-94	8.2.6.C	2/3	Lube Oil Reservoir Area	534	4

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

Pre-Plan Number	Fire Zone	Unit No.	Description	Elev.	Rev.
2/3TB-95	8.2.6.C	2/3	Heat Exchanger Area	534	4
2/3TB-96	8.2.8.A	2/3	MG Sets	561	4
2/3TB-97	8.2.8.B/8.2.8C	2/3	Rx. Bldg. Ventilation Equip.	581	4
U3CT-100	8.2.4	3	Cable Tunnel East	502	4
U3CT-101	8.2.4	3	Cable Tunnel West	502	4
2/3DG-105	9.0.C	2/3	Swing Diesel Generator Room	517	4
2/3RW-108	14.1	2/3	Sludge/Spent Resin Tank	488	4
2/3RW-109	14.1	2/3	Barrel Storage	507	4
2/3RW-110	14.1	2/3	Barrel Storage	517	4
2/3RW-111	14.1	2/3	Area "A" – Vent Fan Room Area "B" – Cement Silo/Hopper	529/544	4
2/3RW-112	14.5	2/3	Control Room/Truck Lock	517	4
2/3RW-113	14.5	2/3	Solidification Building	529	4
2/3RW-114	14.6	2/3	Max Recycle	529	4
2/3RW-115	14.6	2/3	Max Recycle	540	4
2/3RW-116	14.5	2/3	Stock Vent Room	551	4
2/3RW-117	14.6	2/3	Max Recycle	558	4
2/3RW-118	14.6	2/3	Max Recycle	579	4
2/3C-124	11.3	2/3	Circulating Water Pumps Room	490	4
2/3C-125	11.3	2/3	Service Water Pumps Room	509	4
2/3C-126	11.3	2/3	Ground Floor	517	4
2/3OG-131	14.4	2/3	Equipment	476	4
2/3OG-132	14.4	2/3	Agitator Area	497	4
2/3OG-133	14.4	2/3	Ventilation Equipment Room	517	4

COMMONWEALTH EDISON COMPANY
DRESDEN STATION
UNITS 2 & 3

Pre-Plan Number	Fire Zone	Unit No.	Description	Elev.	Rev.
U1C-137		1	Crib House	517	4
TRH_2-140	18.1.1, 18.2.1, 18.3.1	3	Unit 3 Transformer Area	517	4
TRH_2-141	18.1.2, 18.2.2, 18.3.2	2	Unit 2 Transformer Area	517	4
TRH_2-142	18.5.1	1/2/3	Hydrogen Tank Farm	517	4
TRH_2-143	18.5.2	1/2/3	Hydrogen Trailer Area/Empty Radwaste Container Storage	517	4

4.0 ASSUMPTIONS & METHODOLOGY

The location of each pre-plan area is provided in general terms and by area name. It is assumed that persons using the pre-plans are familiar with general plant lay-out and area designations.

Access is defined to identify the point of entry to the area. No attempt was made to describe travel route from major plant area (such as the Control Room).

Electrical equipment of 480-V and higher rating only was listed. Minor items such as small motor-operated valves, light fixtures, etc. were not identified regardless of voltage.

Radioactive equipment listed in Section 3.0 reflects permanently installed equipment and does not take into account areas that may become contaminated due to maintenance, etc.

Equipment listed under Fire Protection Equipment includes manual fire fighting equipment (i.e., hose lines and portable extinguishers), automatic and manual suppression, and detection equipment.

The guidelines for fire attack are not intended to be strictly followed in sequence. It will be necessary to apply these guidelines to the specific fire situation and adapt as necessary.

1.0 LOCATION

Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 1.1.2.1
Torus

2.0 ACCESS

Primary: From door in SE corner room Unit 2 el. 476'

Secondary: From door in SW corner room Unit 2 el. 476'

3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Entrapment Possible
Radioactive Equipment

4.0 FIRE PROTECTION EQUIPMENT

Detection: Linear thermal in and under cable trays

4 - Hose Cabinets
(2 available in corner rooms)
4 - CO_2 Port. Extinguishers
(2 available in corner rooms)
(2 available at el. 517')
1 – Dry Chemical Portable Extinguisher available in corner room

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in SE corner of U-2 at 517'-6"
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize elect. equip.
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up the ladder to hatch at el. 517'-6" Rad Key needed to unlock hatch

7.0 EXPOSURES

Div. I and II Cable Trays

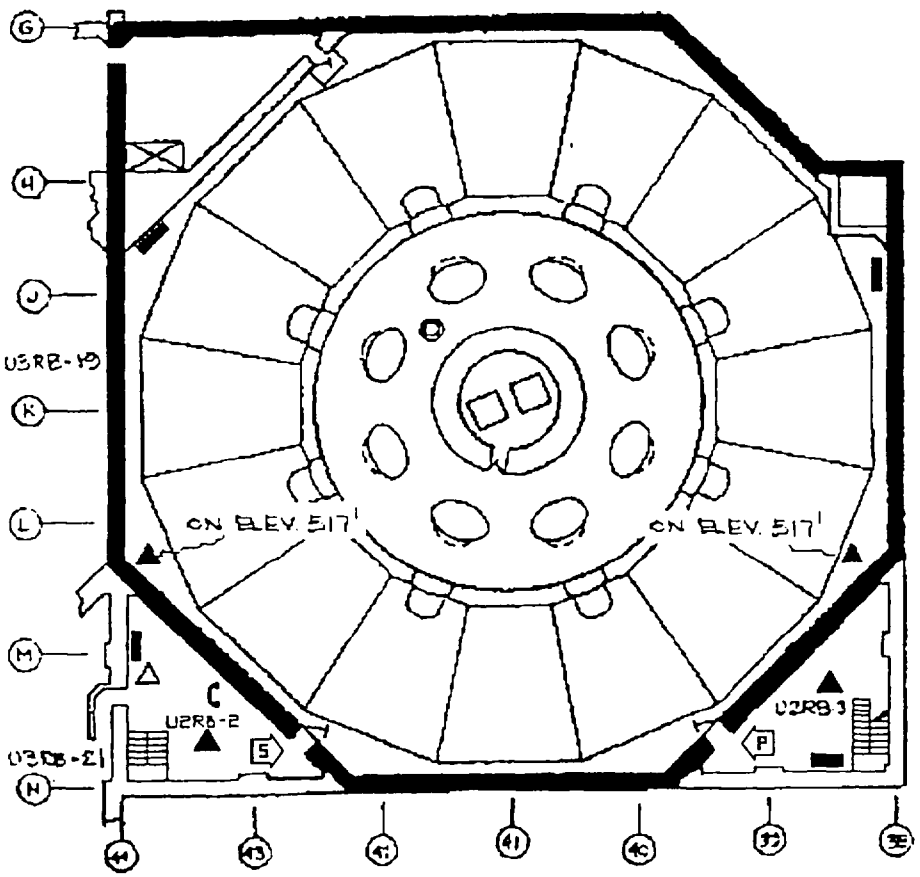
8.0 COMMUNICATIONS

1 Extension Phone in corner room
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides
Part of West wall is 3-hour rated

FIRE ZONE 1.1.2.1
ELEVATION 476'-6"



N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- C TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

(CP) AT LEVEL ABOVE

NOTES.
1. U2RB-5, U2RB-6 AT LEVEL ABOVE
2. 2-▲ ON ELEV. 517'

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 1.1.2.1
Torus

2.0 Access:

2.1 Primary: From door in SE corner room Unit 2 el. 476'

2.2 Secondary: From door in SW corner room Unit 2 el. 476'

3.0 Hazards:

3.1 Fire:

Hatch	Materials	Class
Pumps	Lubricating oil	B
Panels	Cable insulation	A,C
Electrical cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-3702	Closed Cooling Water Drywell Supply Valve	F4	MCC 28-1
2-3703	Closed Cooling Water Drywell Return Valve 2A	F3	MCC 29-1
2-1501-21A	LPC1 Outboard Isolation Valve 2A	D2	MCC 28-7
2-1501-22A	LPC1 Outboard Isolation Valve 2A	B3	MCC 28-7
2-1001-5A	Shutdown Cooling Return Isolation Valve 2A	C3	MCC 28-1

Component Number	Component Description	Circuit Breaker	Power Supply
2-1402-38A	Core Spray Pump Recirc. Isolation Valve 2A	E4	MCC 28-1
2-1402-4A	Core Spray Vest Test Bypass Valve 2A	J1	MCC 28-1
2-1001-5B	Shutdown Cooling Return Isolation Valve 2B	B4	MCC 28-1
2-1501-22B	LPC1 Inboard Isolation Valve 2B	C3	MCC 29-7
2-202-7A	Recirculation Pump 2A Discharge Bypass Valve	C3	MCC 28-7
2-202-7B	Recirculation Pump 2B Discharge Bypass Valve		MCC 29-7
2-1402-3B	Core Spray Pump Recirc. Isolation Valve	E3	MCC 29-4
2-1402-4	Core Spray Test Bypass Valve 2B	A2	MCC 29-4
2-2042 (7)	Reactor Bldg. Equipment Pump and Heat Exchanger	B-1	MCC 29-3
2001-452A	Rx Bldg. Floor Drain Sump Pump	B-2	MCC 20-3
2001-452B	Rx Bldg. Floor Drain Sump Pump	B-3	MCC 29-3
2-1501-20A	LPC1 Torus Spray Valve	L2	MCC 28-1
2-1501-13A	LCP1 Pump Flow Bypass Valve 2	N1	MCC 28-1
2-1501-38A	LPC1 Torus Spray Valve 2A	L1	MCC 28-1
2-1501-18A	LPC1 Torus Ring Spray Valve 2A	L3	MCC 28-1
2-1501-19A	LPC1 Torus Ring Spray Valve 2B	L4	MCC 28-1
2-1501-13B	LPC1 Pump Flow Bypass Valve 2B	C4	MCC 29-4
2-1501-19B	LPC1 Torus Ring Spray Valve 2D	B4	MCC 29-4
2-1501-18B	LPC1 Torus Ring Spray Valve 2C	B3	MCC 29-4
2-1501-20B	LPC1 Torus Spray Valve 20	B2	MCC 29-4
2-1501-38B	LPC1 Torus Spray Valve 2C	B1	MCC 29-4

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: Entrapment Possible

4.0 Fire Protection Equipment:

4.1 Detection: Linear thermal detectors in and under cable trays southside of Torus connected with both LPCI rooms panel #2223-114 located el. 517' West wall Unit 2.

4.2 Automatic Suppression: None

4.3 Hose Reels: 4 - Hose Cabinets (2 located in corner rooms)

4.4 Portable Extinguishers: 4 - CO_2 (2 located in corner rooms, 2 located on catwalk at el. 517')
1 - Dry Chemical Extinguisher available in corner room

5.0 Guidelines for Fire Attack:

- Establish command post in SE corner of U-2 Reactor Bldg at 517'-6" el.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up ladder and thru hatch on elev. 517'-6". Rad Key needed to unlock hatch.

6.3 Exposures: Division I and II Cable Trays

7.0 Exposures: Division I and II Cable Trays
LPCI Valve Motors: 2-1501-13B, 2-1501-18B, 2-1501-19B, 2-1501-20B, 2-1501-38B, 2-1501-22A, 2-1501-22B,
HPCI Valve Motors: 2-1001-5A and 2-1001-5B
RBCCW Valve Motor: 2-3702, 2-3703

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone available in corner room (U2RB-2)

9.0 Construction:

9.1 Floor: 30" Reinforced concrete on grade

9.2 Wall:

a. North: 12" Concrete
b. South: 12" Concrete
c. East: 12" Concrete
d. West: 24" Concrete, 3-hour rated except for an unrated door
e. Southeast: 30" Concrete
f. Southwest: 30" Concrete

9.3 Ceiling: 24" Reinforced concrete

1.0 LOCATION

Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.1
Southwest Corner Room

2.0 ACCESS

Primary: Stairs in SW corner of Unit 2 Reactor Building at Ground Floor el. 476'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
HVAC Duct Lining

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

Detection: Linear Thermal
1 - Hose Station
2 - CO_2 Portable Extinguishers
1 - Dry Chemical Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at top of stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors to exhaust smoke up stairs in SW corner room Unit 2

7.0 EXPOSURES

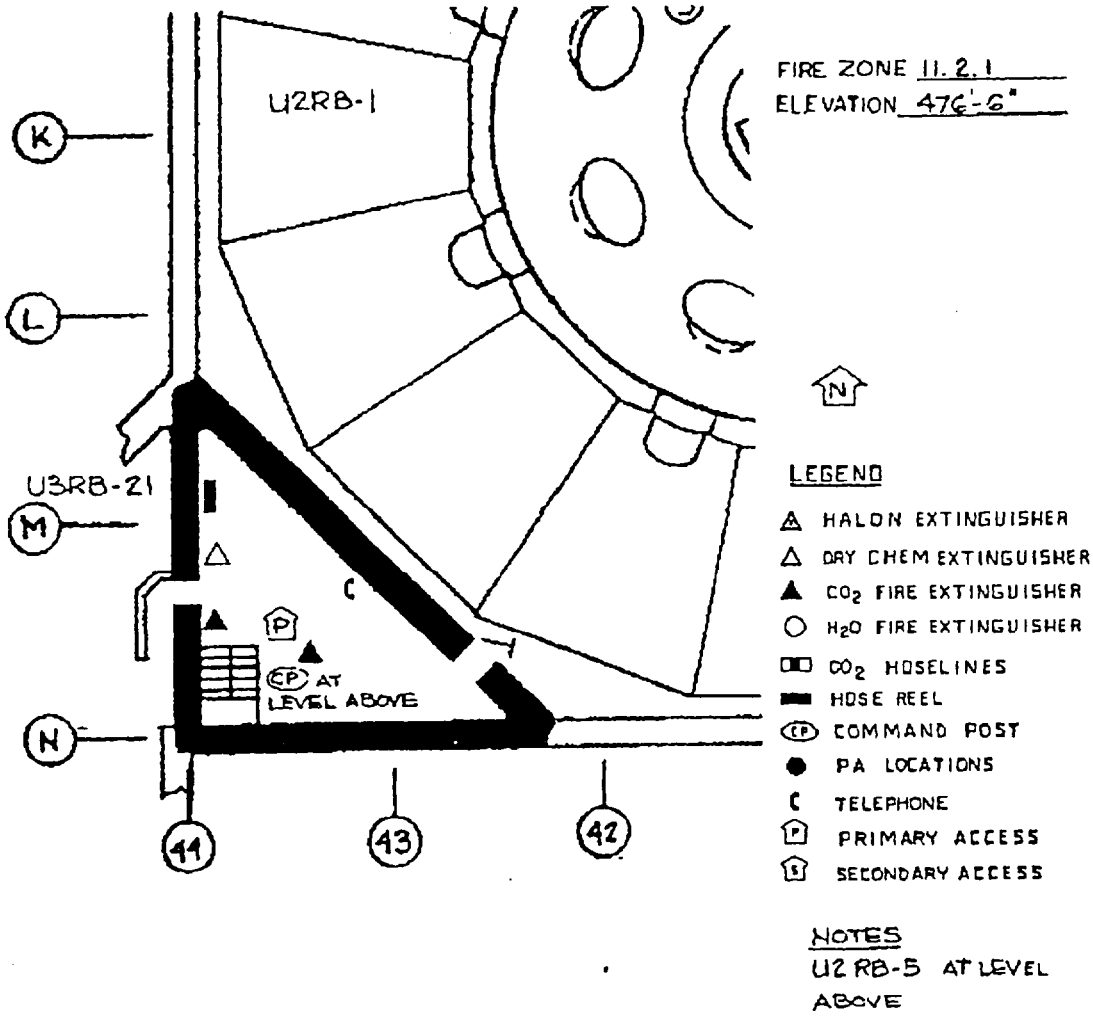
Core Spray Pump,
LPCI/Cont. Cooling Heat Exchanger
LPCI/Cont. Cooling Pump
LPCI Valves

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides
West wall 3-hour rated


U2RB-1
U3RB-21
K
L
M
N
41
43
42
P
C
CP AT LEVEL ABOVE
FIRE ZONE 11.2.1
ELEVATION 476'-6"
N
LEGEND
HALON EXTINGUISHER
DRY CHEM EXTINGUISHER
CO_2 FIRE EXTINGUISHER
H_2O FIRE EXTINGUISHER
CO_2 HOSELINES
HOSE REEL
COMMAND POST
PA LOCATIONS
TELEPHONE
PRIMARY ACCESS
SECONDARY ACCESS
NOTES
U2RB-5 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.1
Southwest Corner Room

2.0 Access:

2.1 Primary: From stairs in SW corner of Unit 2 Reactor Building at Ground Floor to el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Ventilation System	Duct lining	A
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-B-1401	Core Spray Pump	2429	4160V Swgr 24-1
2-2001-311A&B	Core Spray Pump 2A	E5	MCC 29-1
2-2001-311A&B	Area Sump Pumps 2B	E3	MCC 29-1
2C-1502	LPCI/Containment Cooling Pump	2425	4160V Swgr 24-1
2D-1502	LPCI/Containment Cooling Pump	2427	4160V Swgr 24-1
2-5782 2A	Reactor Bldg. Cond. Return Pump	A3	MCC 29-3
2B	Reactor Bldg. Cond. Return Pump	D2	MCC 29-3

Component Number	Component Description	Circuit Breaker	Power Supply
2A	LPCI Core Spray Pump Area Cooling Unit	F3	MCC 28-1
2A	LPCI Core Spray Pump Area Cooling Unit	D4	MCC 29-4
2-1501-11B	LCPI Heat Exchanger Bypass Valve 2B	E4	MCC 29-4
2B-1402-3	Core Spray Pump Suction Valve 2B	A1	MCC 29-4
2-1501-32B	LPCI Header Crosstie Isolation Valve 2B	C3	MCC 29-4
2-1501-3B	Contain Cooling Heat Exchanger Valve 2B	C2	MCC 29-4
2-1501-5D	LPCI Pump 2D Suction Valve	A4	MCC29-4
2-1501-5C	LPCI Pump 2C Suction Valve	A3	MCC

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Linear Thermal Detectors
Panel #2223-114 located 517'-6" West wall Unit 2

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Station

4.4 Portable Extinguishers: 2 - CO_2
1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post at stairs in SW corner of Unit 2 Reactor Building at Ground Floor.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).

- Caution should be used when applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in SW Corner Room Unit 2

7.0 Exposures: LPCI/Containment Cooling/Core Spray Instrument Rack 2-2202-198
Recirculation Pump Instrument Rack (4) 2-2202-10A, 2-2202-10B, 2-202-1OC, 2-2202-36
HPCI Instrument Racks 2202-29 A & B
Core Spray Pump B
LPCI Containment Cooling Heat Exchanger B
LPCI/Containment Cooling Pump C,D
LPCI/Emergency Air Cooler B
LPCI Valves:
MO2-1501-11B, MO2-1501-32B, MO2-1501-3B,
MO2-1501-5C, MO2-1501-5D
HPCI Valve MO2/3-2301-36

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 18" Reinforced concrete

9.2 Wall:

a. Northeast: 30" Reinforced concrete
b. South: 18" Reinforced concrete
c. West: 36" Reinforced concrete, 3-hour rated

9.3 Ceiling: 24" Reinforced concrete

1.0 LOCATION

Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.2
Southeast Corner Room

2.0 ACCESS

Primary: From stairs at SE corner of Unit 2 Reactor Building at Ground Floor to el. 476'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
HVAC Duct Lining
Lubricating Oil

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

Detection: Linear Thermal
1 - Hose Cabinet
2 - CO_2 Portable Extinguishers
(one located at el. 494')

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs el. 517'-6"
- S.C.B.A.
- Attack with Port. Ext., followed by 1-1/2" hose line
- Search area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in SE corner room Unit 2

7.0 EXPOSURES

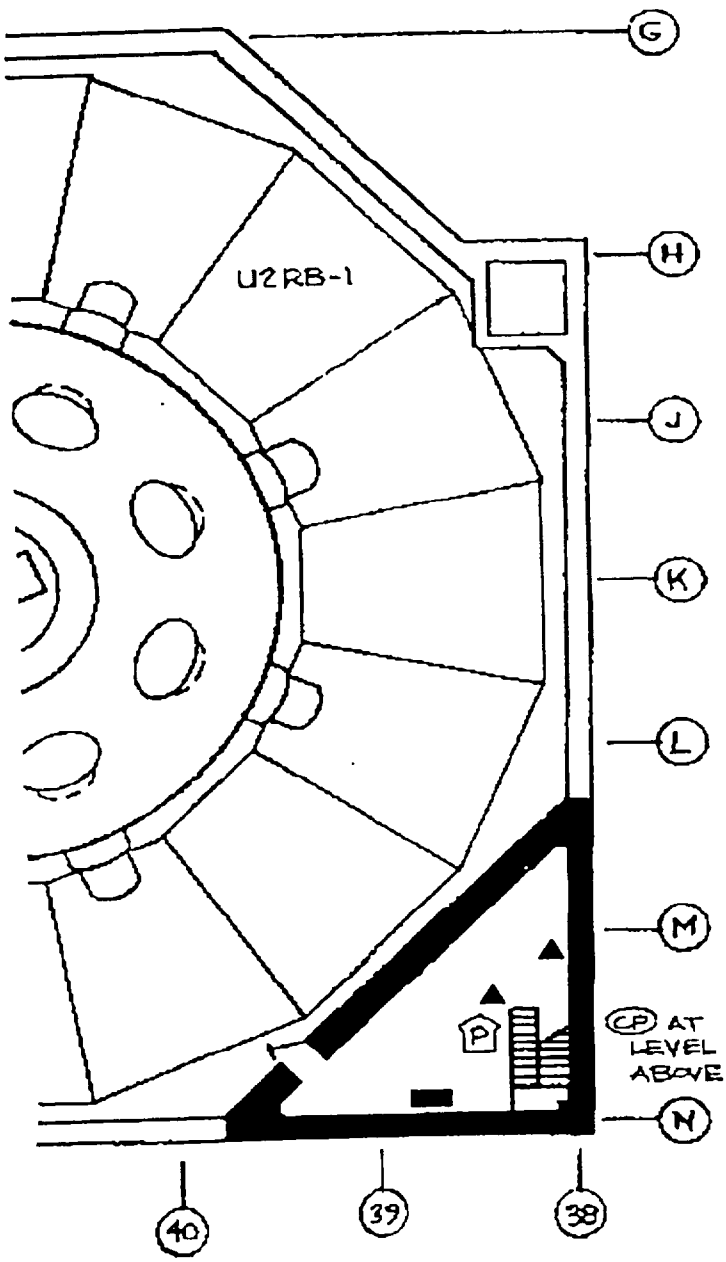
Core Spray Pump
LPCI/Cont. Cooling Heat Exchanger
LPCI/Cont. Cooling Pumps
LPCI Valves

8.0 COMMUNICATIONS

Portable Radios

9.0 CONSTRUCTION

Concrete on all sides



FIRE ZONE 11.2.2
ELEVATION 476'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES
1. U2RB-5 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.2
Southeast Corner Room

2.0 Access:

2.1 Primary: From stairs at SE corner of Unit 2 Reactor Building Ground Floor to el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Ventilation System	Duct lining	A
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-A-1401	Core Spray Pump	2330	4160V Swgr 23-1
2-	Safety Sys. Jockey Pump	B1	MCC 28-1
2-A-1502	LPCI/Cont. Cooling Pumps (2)	2331	4160V Swgr 23-1
2-B-1502	LPCI/Cont. Cooling Pumps (2)	2325	4160V Swgr 2301
2-2001-510A	Core Spray Pump Area Sump Pump A	N5	MCC 28-1
2-2001-510B	Core Spray Pump Area Sump Pump B	N3	28-1
2-1501-3A	Contain Cooling Heat Exchanger Discharge Valve	H3	MCC 28-1

Component Number	Component Description	Circuit Breaker	Power Supply
2-1501-5A	LPCI Pump 2A Suction Valve	C1	MCC 28-1
2-1501-5B	LPCI Pump 2B Suction Valve	K2	MCC 28-1
2-1501-2-1501-11A	LPCI Heat Exchanger Bypass Valve 2A	N2	MCC 28-1 MCC 28-1
2-1501-32A	LPCI Header Crosstie Isolation Valve 2A	M3	MCC 28-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Linear Thermal Detectors
Panel # 2223 114 located 517'-6" West wall Unit 2

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet

4.4 Portable Extinguishers: 2 - CO_2, one located on next landing on el. 494'

5.0 Guidelines for Fire Attack:

- Establish command post near Stairs on el. 517'-6", one level above fire pre-plan area.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used when applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up the Stairs in SE corner Room to ground level.

7.0 Exposures: **Safety-Related Equipment**

Core Spray Pump A
LPCI/Containment Cooling Heat Exchanger A
LPCI/Containment Cooling Pump A, B
LPCI/Emergency Air Cooler A
LPCI/Containment Cooling/Core Spray Instrument Rack 2-2202-19A
Recirculation Pump Instrument Rack (2) 2-2202-9, 2-2202-35
LPCI Valve Motors: 2-1501-5A, 2-1501-5B, 2-1501-3A, 2-1501-11A, 2-1501-32A

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: None

9.0 Construction:

9.1 Floor: Concrete on grade

9.2 Wall:

a. South: 36" concrete
b. East: 36" Reinforced concrete
c. Northwest: 42" Concrete

9.3 Ceiling: 24" concrete

1.0 LOCATION

Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.3
HPCI Pump Room

2.0 ACCESS

Primary: From Unit 2 SW Stairs to Unit 3 SE Corner Room through door in North wall of HPCI Room el. 476'

Secondary: None

3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation
Grease
HVAC Duct Lining

Electrical: See 3.2

Other: CO_2 Hazard

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Pre-action Sprinklers
1-Hose station (located in adjacent area)

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in SW Corner U-2, 571' el.
- Support Sprinklers
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search area for victims and ventilate
- Caution: De-energize equipment
- Overhaul
- Standby Valve and Post Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors to exhaust smoke through Corner Rooms, up stairs of U-2 SW corner Room.

7.0 EXPOSURES

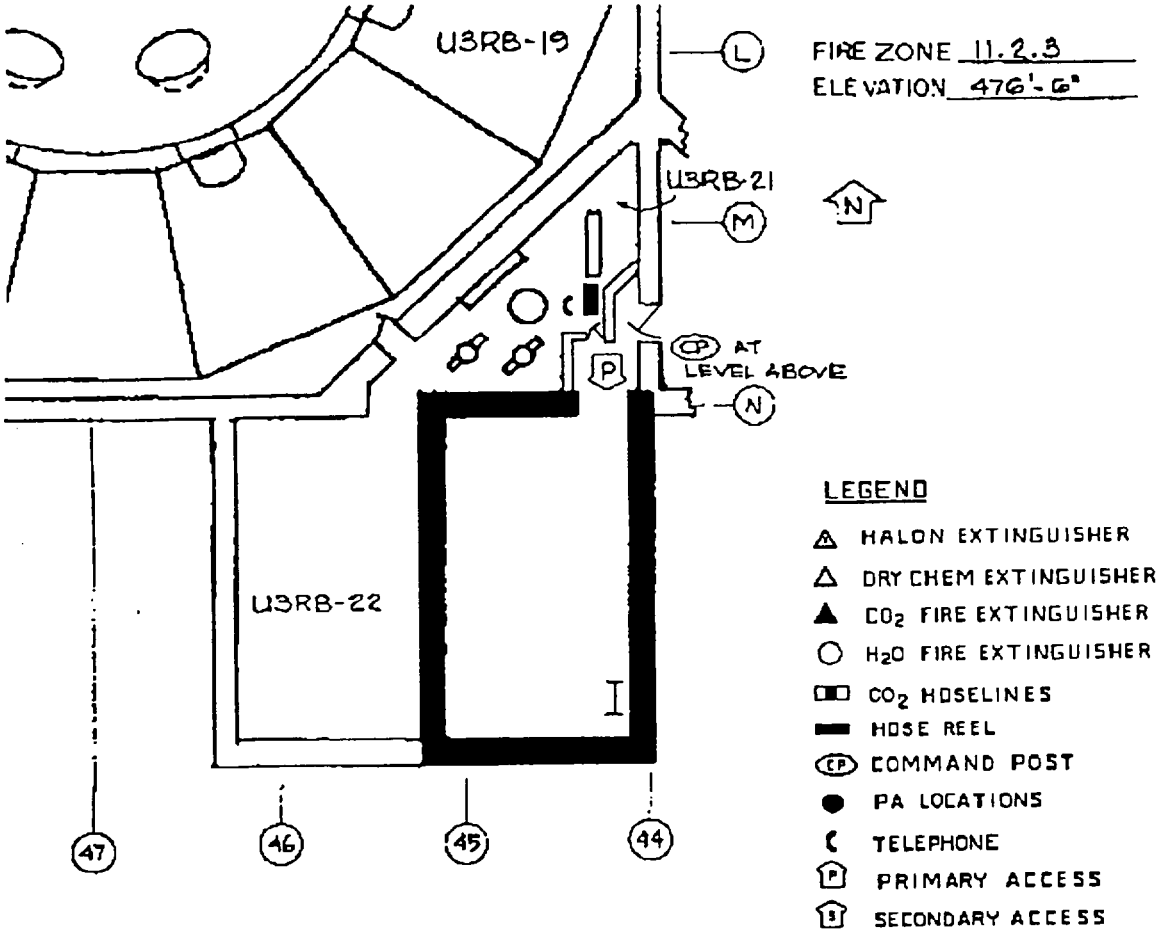
HPCI Emergency Air Cooler, System Valve Motors, Drive Turbine, Pump and Turbine Cooling Pump

8.0 COMMUNICATIONS

1 Extension Phone nearby
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides


U3RB-19
U3RB-21
U3RB-22
L
M
N
P
CP AT LEVEL ABOVE
47
46
45
44
FIRE ZONE 11.2.3
ELEVATION 476'-6"
LEGEND
HALON EXTINGUISHER
DRY CHEM EXTINGUISHER
CO_2 FIRE EXTINGUISHER
H_2O FIRE EXTINGUISHER
CO_2 HOSELINES
HOSE REEL
COMMAND POST
PA LOCATIONS
TELEPHONE
PRIMARY ACCESS
SECONDARY ACCESS

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 476'-6"
Fire Zone 11.2.3
HPCI Pump Room

2.0 Access:

2.1 Primary: From Unit 2 SW Stairs to Unit 3 SE Corner Room, door in North HPCI Room wall el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Turbine/Pump	Lubricating oil	B
	Grease	B
Ventilation System	Duct lining	A
Panels	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
	HPCI Gland Seal Condenser		
2-2301-57	HPCI Pump and Turbine		
2301-57	HPCI Aux. Coolant Pump	D2	480V MCC 29-4
2	HPCI Pump 2 Area Cooling Unit	D3	480V MCC 29-4
	HPCI Turbine Oil Tank Heater	E5	480V MCC 29-4
2301-250	HPCI Floor Drain Sump Pump	C1	MCC 29-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None - There is a CO_2 suppression system in the above Unit 2/3 Diesel Generator room.

4.0 Fire Protection Equipment

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: Pre-action Sprinkler System ISO Valve #2-4199-135 located at el. 517'-6" Unit 2

4.3 Hose Reels: 1-Hose Station located in adjacent area

4.4 Portable Extinguishers: None

5.0 Guidelines for Fire Attack:

- Establish command post in SW corner of U-2 Rx at 517' el.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation is located adjacent to MCC-29-7 at South wall of Unit 2 Reactor Bldg. el. 517'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used when applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located in Unit 2 Reactor Building at 517'-6" el. next to MCC 29-7 at South wall.
- Provide a fire watch until fire detection and fire suppression systems are returned to service, if out of service time greater than 1 hour per DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke through corner rooms, up stairs in Unit 2 SW corner room.

7.0 Exposures: HPCI/Emergency Air Cooler
HPCI System Valve Motors 2-2301-3, 2-2301-6, 2-2301-9, 2-2301-10, 2-2301-14, 2-2301-15, 2-2301-48, 2-2301-49
HPCI Drive Turbine
HPCI Pump
HPCI Turbine Cooling Water Pump
HPCI Condenser Air Exhaust Fan
HPCI Oil Tank Heater
HPCI Emergency Bearing Oil Pump
HPCI Auxiliary Oil Pump
HPCI Condensate Pump

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone available in Unit 3 corner room

9.0 Construction:

9.1 Floor: 30" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: 36" Reinforced concrete
c. East: 36" Reinforced concrete
d. West: 36" Reinforced concrete, 3-hour rated except for HVAC duct without a damper

9.3 Ceiling: 42" Reinforced concrete

SPECIAL NOTES:

Extra length (minimum 50') of hose needs to be added to hose station near TIP Drive Room prior to charging hose to reach this room.

Safe shutdown components are located within 20' of Secondary access point. If fire has the potential of spreading outside of the Unit 2 Reactor Building, Ground Floor, the fire fighting effort should be suspended and access fire door closed.

1.0 LOCATION

Unit 2 Reactor Building
Elevation 517'-6"
Fire Zone 1.1.2.2
Ground Floor

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: Radioactive Equipment

2.0 ACCESS

Primary: From Airlock at NE Corner of Unit 2 el. 517' High Rad key needed to access TIP Drive Room

Secondary: From Unit 3 through doorway on common wall for Unit 2/3, el. 517' High Rad key needed to access TIP Drive Room

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post outside Airlock in TB
- S.C.B.A.
- Attack fire with Port. Ext., follow with 1-1/2" hose line
- Search area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul
- CAUTION: Combustible gap material

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization,
Photoelectric
Suppression: Local over Air Compressor
3 - Hose Cabinets
5 - CO_2 Portable Extinguishers
2 - Dry Chemical Portable Extinguishers, both are located outside the area

7.0 EXPOSURES

Safety-Related Equipment (See 7.0)

8.0 COMMUNICATIONS

2 P.A. Locations
2 Extension Phones
Portable Radios

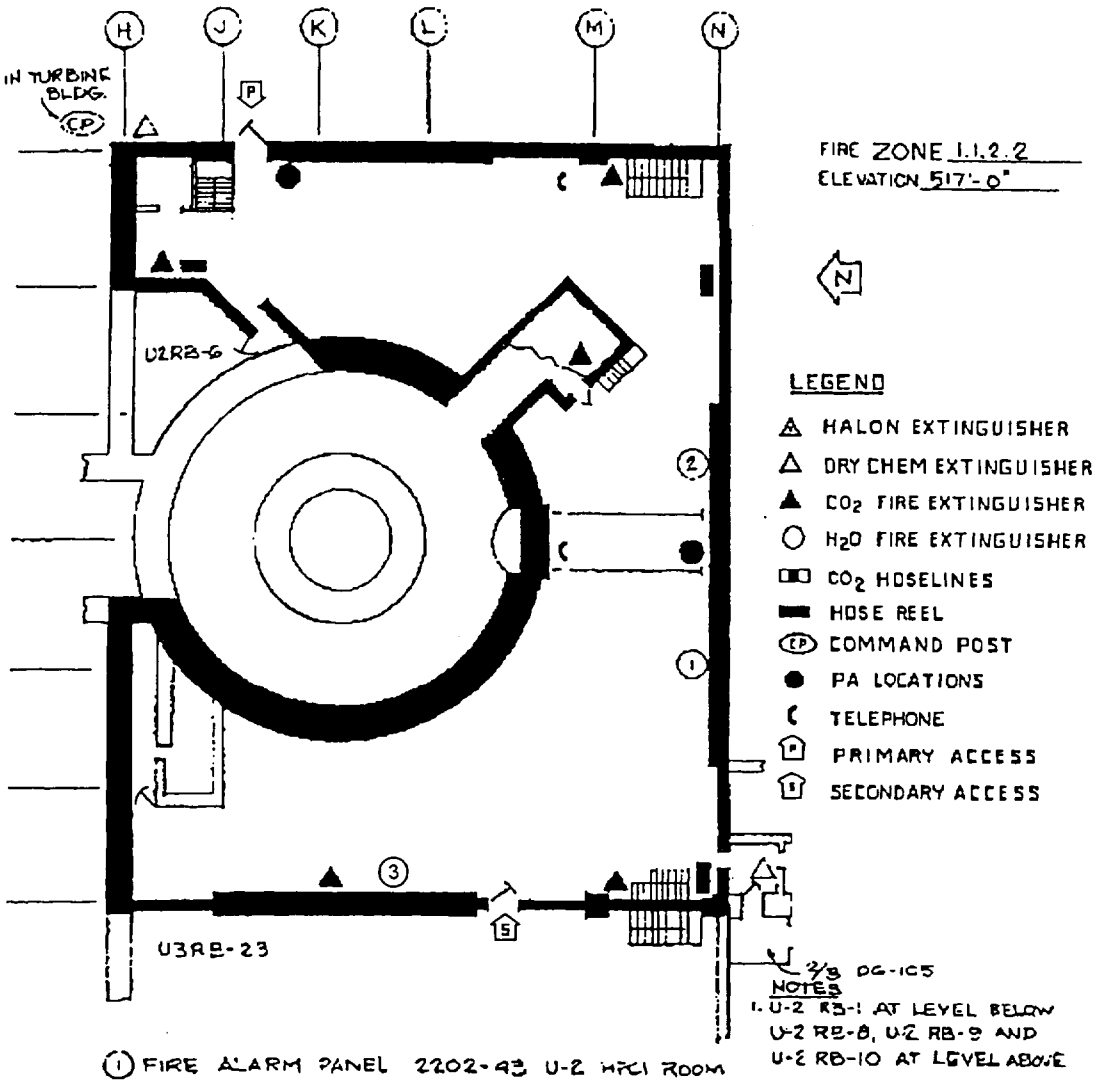
6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in either the NW, SW or SE corners of U-2 el. 517'

9.0 CONSTRUCTION

Concrete on all sides
North/West walls are 3-hour rated
South/East walls - parts of walls are 3-hour rated



(1) FIRE ALARM PANEL 2202-43 U-2 HPCI ROOM

(2) FIRE ALARM PANEL 2202-57 U-2 REACTOR BLDG. 480-V MCC

(3) FIRE ALARM PANEL 2223-14 PROTECTOWIRE UNITS 2/3 TORUS AREAS AND CORNER ROOMS

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 517'-6"
Fire Zone 1.1.2.2
Ground Floor

2.0 Access:

2.1 Primary: From Airlock at the Northeast corner of Unit 2 Rx Bldg. el. 517'. High Rad key needed to access TIP Drive Room.

2.2 Secondary: From Unit 3 through doorway on common wall for Unit 2/3 el. 517. High Rad key needed to access TIP Drive Room.

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Compressors	Lubricating oil	B
Panels, Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-1501-28A	LPCI Pumps Drywell Spray Discharge Valve 2B	M2	MCC 28-1
2-1501-27A	LPCI Pump Drywell Spray Discharge Valve 2A	K3	MCC 28-1
2-1501-21B	LPCI Outboard Isolation Valve 2B	A3	29-7
	Railroad Tunnel Door Operators	E6	MCC 29-4
	Car Puller	D2	MCC 29-1
	RX Drywell Equipment Patch Shield Door	C3	MCC 29-3
MCC 29-5	480V 29-5	M.O.	Swgr-29
MCC 29-6	480V MCC 29-6	M.O.	Swgr-29
MCC 39-5	480V MCC 39-5	396-C	Swgr-39
MCC 39-6	480V MCC 39-6	396-D	Swgr-39
MCC 29-7	MCC 29-7	293-B	Swgr-29
	Refueling Platform	C4	MCC 29-3

Component Number	Component Description	Circuit Breaker	Power Supply
MCC 28-7	MCC 28-7	285A	Swgr 28
2A	Post Loca H_2 & 0_2 Sample Pump	N4	480V MCC 28-1
2B	Post Loca H_2 & 0_2 Sample Pump	E6	MCC 29-1
MCC-29-1	480V MCC	292C	Swgr 29
MCC-28-1	480V MCC	284-A	Swgr 28
MCC-29-4	480V MCC	292-C	Swgr 29
2-2501	Air Compressor	70A (C4)	MCC 29-1
	Drywell Air Compressor	B1	MCC 29-1
2A-4710	Drywell Instr Air Compressor	D-2	28-1 MCC
2B-4710	Drywell Instr Air Compressor	F4	29-1 MCC
28-1	MCC	284A	480V Trans 28
29-1	MCC	294C	Trans 29
28-7	MCC		
29-7	MCC		
29-4	MCC	294C	Trans 29
302-8	CRD Hydraulic System - Pressure Cont. Valve 2A	D1	MCC 28-1
302-10	CRD Hydraulic System Pressure Cont. Valve 2B	E1	MCC 28-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Ionization and Photoelectric Detectors

4.2 Automatic Suppression: Local Suppression over Air Compressor 2-2501 (L-M) (39-40) ISO Valve # located on 517'-6" South Wall.

4.3 Hose Reels: 3 - Hose Cabinets

4.4 Portable Extinguishers: 5 - CO_2
2 - Dry Chemical, both are located outside the area.

5.0 Guidelines for Fire Attack:

- Establish command post outside Airlock in Turbine Building el. 517'-6".
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located at 517' el. at South wall of U-2 Reactor Building
- Provide a fire watch until fire detection and fire suppression systems are returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.
- SPECIAL NOTE: Extra length (minimum 50') of hose needs to be added to hose station near TIP Drive Room prior to charging hose to reach this room.
- SPECIAL NOTE: Safe shutdown components are located within 20' of Secondary access point. If fire has the potential of spreading outside of the Unit 2 Reactor Building, Ground Floor, the fire fighting effort should be suspended and access fire door closed.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up the stairs in either the NW, SW, or SE corners of U-2 Rx Building el. 517'
Note: Location of Fire would determine which exhaust path to use.

7.0 Exposures:

Safety-Related Equipment:

Instrument Panels, 2202-14, 2202-16
SRM/IRM Pre-Amp Panels, 2202-15A, 2202-15B
Leak Detector Monitor Instrument Rack, 2202-28
Jet Pumps Instrument Rack, 2202-7
Control Rod Drive Hydraulic Control Unit (177)
Accumulator Monitor Panel 2202-20
Division I Cable Trays
Division II Cable Trays
Motor Control Panel, MCC 29-7, 28-7, 29-1, 28-1, 29-4, 29-5, 29-6, 234X5

Air Compressor 2-2501
Air Receiver 2-2502
LPCI Valve Motor: 2-1501-21A, 2-1501-21B
CRD Valves: 2-0301-3A, 2-0301-3B, 3-0301-3A, 3-0301-3B
Drywell Air Compressor A(B)-2-4210
Primary Containment Monitoring Panel 2-2252-81A, 2-2252-81B

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 2 P.A. Locations

8.3 Telephone: 2 Extension Phones

9.0 Construction:

9.1 Floor: 24" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: 12" Reinforced concrete - Portion separating Fire Zone 9.0.c is 3-hour rated
c. East: 12" Reinforced concrete exterior wall - Portion adjoining personnel access is 3-hour rated
d. West: 24" Reinforced concrete, 3-hour rated

9.3 Ceiling: 12" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Cooling Pump Room, the fire fighting effort should be suspended and access fire door closed.

1.0 LOCATION

Unit 2 Reactor Building
Elevation 517'
Fire Zone 1.3.2
Shutdown Cooling Pump Room

2.0 ACCESS

Primary: From U-2 Reactor Bldg. Floor (517'); door is in SE wall of shutdown Cooling Pump Room. Rad key needed to access room

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: PCB Tank

4.0 FIRE PROTECTION EQUIPMENT

Detection: Photoelectric
1 - Hose Cabinet
1 - CO_2 Portable Extinguisher
1 - Dry Chemical Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Turbine Building
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust upstairs in NE corner to floor above

Fire Dampers: Dampers may not close against air flow, therefore, shut down the ventilation system to ensure closure

7.0 EXPOSURES

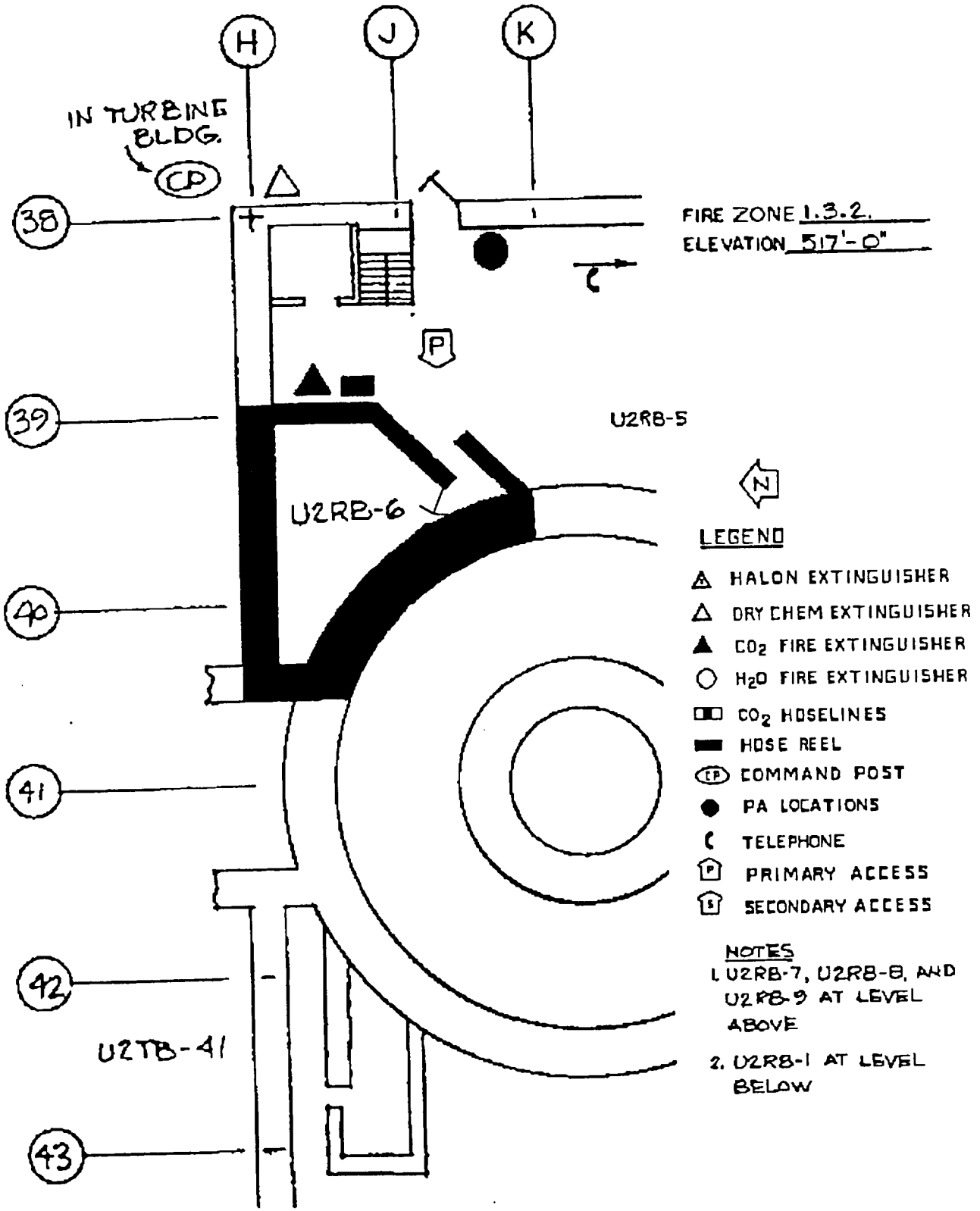
Shutdown Cooling Pumps and their suction valves

8.0 COMMUNICATIONS

1 P.A. Location nearby
1 Extension Phone nearby
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete all sides South and East Walls 3-hour rated


H
J
K
IN TURBINE BLDG.
CP
38
39
40
41
42
43
P
U2RB-5
U2RB-6
U2TB-4I
FIRE ZONE 1.3.2.
ELEVATION 517'-0"
N
LEGEND
HALON EXTINGUISHER
DRY CHEM EXTINGUISHER
CO_2 FIRE EXTINGUISHER
H_2O FIRE EXTINGUISHER
CO_2 HOSELINES
HOSE REEL
CP COMMAND POST
PA LOCATIONS
TELEPHONE
P PRIMARY ACCESS
S SECONDARY ACCESS
NOTES
1. U2RB-7, U2RB-8, AND U2RB-9 AT LEVEL ABOVE
2. U2RB-1 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 517'-6"
Fire Zone 1.3.2
Shutdown Cooling Pump Room

2.0 Access:

2.1 Primary: From U-2 Reactor Building Floor (517' el.); Door is on the SE wall of the Shutdown Cooling Pump Room. Rad key needed to access room

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Panels	Cable insulation	A,C
Electrical cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2A-1002	Shutdown Cooling Pumps	2323	4160V Swgr 23-1
2B-1002	Shutdown Cooling Pumps	2428	4160V Swgr 24-1
2C-1002	Shutdown Cooling Pumps	2321	4160V Swgr 23-1
2A	Shutdown Cooling Inlet Isol Valve 2A	C4	MCC 28-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Photoelectric smoke detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet, located outside the area

4.4 Portable Extinguishers: 1 - CO_2,located outside the area
1 - Dry Chemical, located outside the area

5.0 Guidelines for Fire Attack:

- Establish command post in Turbine Building at Airlock.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- SPECIAL NOTE: Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Cooling Pump Room, the fire fighting effort should be suspended and access fire door closed.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in NE corner of U-2 Reactor Building to floor above.

6.3 Fire Dampers: Fire Dampers may not close against air flow, therefore, shut down the ventilation system to ensure enclose.

7.0 Exposures:

Shutdown Cooling Pumps
Shutdown Cooling Valve Motors: 2-1001-2A, 2-1001-2B, 2-1001-2C

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location at doorway to U-2 Reactor Bldg.

8.3 Telephone: 1 Extension Phone at doorway to U-2 Reactor Bldg.

9.0 Construction:

9.1 Floor: 24" Reinforced concrete

9.2 Wall:

a. North: 24" Reinforced concrete
b. Southeast: 24" Reinforced concrete, 3-hour rated
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 60" Reinforced concrete

9.3 Ceiling: 12" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Secondary Containment

2.0 ACCESS

Primary: Stairway in NE corner of Reactor Bldg., Unit 2 el. 545'

Secondary: Stairway in SW corner of Unit 2 Reactor Building el. 545'

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Polyethylene
Polyurethane

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Photoelectric

Suppression: Wet pipe sprinkler over ventilation/pipe opening

4 - Hose Stations
3 - CO_2 Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at NE Corner, 517' el.
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search area for victims
- Caution with Electrical
- Ventilate – Overhaul
- Fire Watch
- CAUTION: Combustible gap materials

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs at SW corner of U-2 or up stairs at NE corner of U-2, or up hatchway

7.0 EXPOSURES

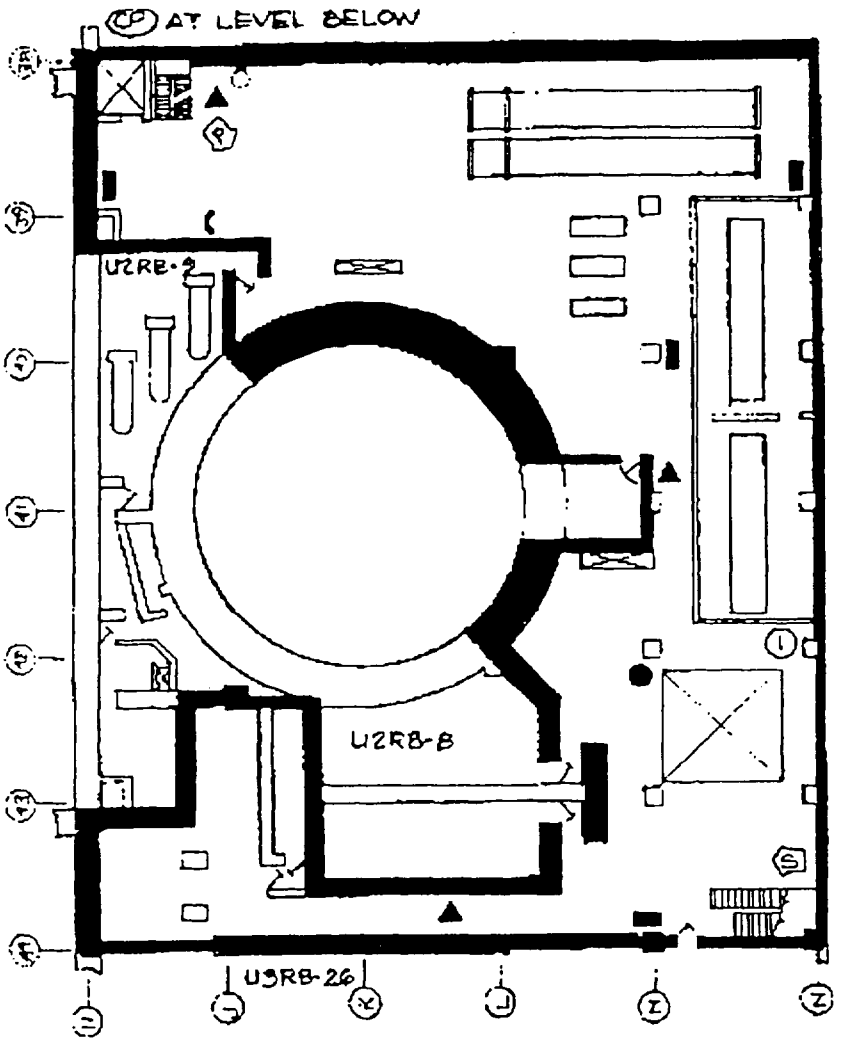
Switchgear, Cable Trays and Instrument Racks

8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides



FIRE ZONE 1.1, 2.3
ELEVATION 545'-6"

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

(1) FIRE ALARM PANEL 2202-50
U2 REACTOR BLDG. 4 KV SWGR

NOTES
1. U2RB-10 AT LEVEL ABOVE
2. U2RB-5 & U2RB-6 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Secondary Containment

2.0 Access:

2.1 Primary: Stairway in NE corner of Reactor Building Unit 2, el. 545'

2.2 Secondary: Stairway in SW corner of Unit 2 Reactor Bldg, el. 545'.

3.0 Hazards:

3.1 Fire

Hazard	Material	Class
Pumps	Lubricating oil	B
Panels, Electrical Cables	Cable insulation	A,C
-	Polyethylene	A
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
23-1	4-KV Switchgear	2329-NC 2333-NO	4 KV BUS 23
24-1	4-KV Switchgear	2430-NC 2422-NO	4 KV BUS 24
2-1201-8	Clean-up Recirc. Pumps Bypass Valve	E4	MCC 29-3
2-1402-25	Core Spray Inboard Isolation Valve 2A	H2	MCC 28-1
2-1402-24B	Core Spray Outboard Isolation Valve 2B	E1	MCC 24-1
2-1501-27B	LPCI Drywell Spray Valve 2C	D4	MCC 29-1

Component Number	Component Description	Circuit Breaker	Power Supply
2-1501-28B	LPCI Pumps Drywell Spray Discharge Valve	F1 2D	MCC 29-1
2-3701	Closed Cooling Water Header Isolation Valve	P5	MCC 28-1
2-3704	Shutdown Ht Exchang. Closing Cool Water Isolation Valve	D3	MCC 29-1
2A-212-1205	Reactor Water Clean-up Recirc. Pumps	2326	4160 V Swgr 23-1
2B-212-1205	Reactor Water Clean-up Recirc. Pumps	2431	Swgr 24-1
4KV Swgr 24-1	4KV Swgr 24-1	2411	Swgr 24
4KV Swgr 23-1	4KV Swgr 23-1	2302	4160V Swgr 23
2A-3701	Rx Bldg. Closed Cooling Water Pumps	2322	Swgr 23-1
2B-3701	Rx Bldg. Closed Cooling Water Pumps	2433	Swgr 24-1
2C-37O1	Rx Bldg. Closed Cooling Water Pumps	2434	Swgr 24-1
2-1206	Rx Clean-up Demin. Aux. Pump	283D	480V Swgr 28
1213	Clean-up Filter Sludge Pump	D5	MCC 29-3
2-5901	Rx Bldg. Elevator	A2	MCC 29-3
	Dry Well Air Sampling System	B4	MCC 29-3
2-1201-9A	Clean-up Recirc. Pump 2A Discharge Valve	F2	MCC 29-3
2-1201-9B	Clean-up Recirc. Pump 2B Discharge Valve	F3	MCC 29-3
2-1201-11	Clean-up Demin. to Condenser Shutoff Valve	E1	MCC 29-3
2-1201-12	Clean-up Demin. to Condenser Shutoff Valve	E2	MCC 29-3

3.3 Hazardous Substances: PCB tank behind 23-1/24-1 switchgear

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Ionization and Photoelectric Detectors

4.2 Automatic Suppression: Wet pipe sprinklers above ventilation/pipe opening to Shutdown Cooling Pump Room.

4.3 Hose Reels: 4 - Hose Stations

4.4 Portable Extinguishers: 3 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post at Stairway in NE corner at Ground Floor level.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Provide a fire watch until fire detection system is returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in SW corner of Unit 2, or stairs in NE corner of Unit 2, or exhaust smoke up equipment hatchway.

7.0 Exposures: Switchgear 23-1 and 24-1
Division I and II Cable Trays
Instrument Rack 2202-5 and 2202-6
MCC 42-1
RBCCW Pumps (3)
RBCCW Hx (3)

Core Spray Valve: 2-1402-4B
RBCCW Valves: 2-3701, 2-3704
LPCI Valve Motors: 2-1501-27B, 2-1501-28B
Service Water Valves: 2-3904A, 2-3904B, 2-3904C
RWCU Valves: MO2-1201-2, MO1-1201-3, PVC-2-1217, MO3-1201-2, MO3-1201-3, PVC-3-1217

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 12" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated except for HVAC duct without a fire damper
b. South: 12" Concrete 3 hour
c. East: 12" Concrete 3 hour
d. West: 12" Concrete 3-hour rated

9.3 Ceiling: 36" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Non-Regen Heat Exchangers

2.0 ACCESS

Primary: From doors at South end of the Heat Exchanger Rooms, Unit 2 Reactor Bldg. el. 545' High Rad key needed to access these rooms.

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Polyethylene
Polyurethane

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Cabinet
2 - CO_2 Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search area for victims
- Ventilate
- Overhaul
- CAUTION: Combustible gap materials

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in SW corner of Unit 2 Rx Bldg. el. 545'

7.0 EXPOSURES

None

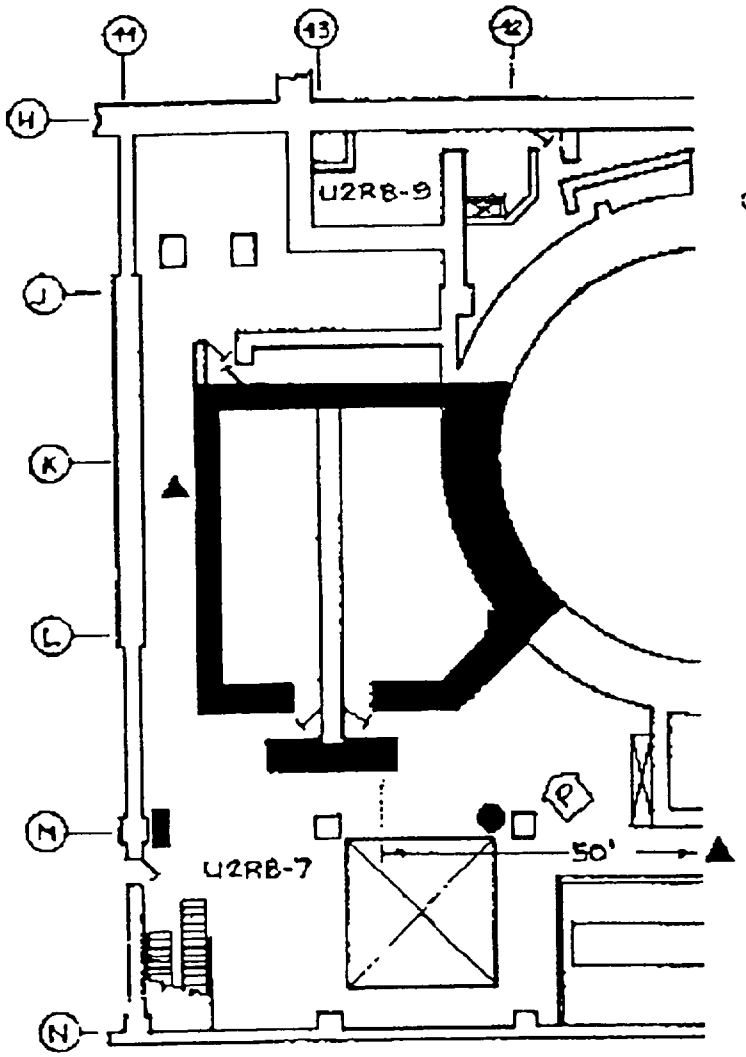
8.0 COMMUNICATIONS

1 P.A. Location
Portable Radios

9.0 CONSTRUCTION

Floor/Ceiling – concrete
Walls - Masonry, concrete

FIRE ZONE 1.1.2.3.
ELEVATION 545'-6"



CP IN NE CORNER

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2RB-10 AT LEVEL ABOVE
2. U2RB-5 AND U2RB-6 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Non-Regen Heat Exchangers

2.0 Access:

2.1 Primary: From doors at South end of Heat Exchanger Rooms, Unit 2 Reactor Building el. 545'. High Rad key needed to access these rooms

2.2 Secondary: None

3.0 Harzards:

3.1 Fire:

Hazard	Material	Class
Electrical cables	Cable insulation	A,C
-	Polyethylene	A
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-1201-4	Clean-up Demin. Aux. Pump Discharge Valve	F1	MCC 29-3
2-1207-7	Clean-up System Return Isolation Valve	C1	MCC 28-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet (Available in nearby area)

4.4 Portable Extinguishers: 2 - CO_2 (Available in nearby area).

5.0 Guidelines for Fire Attack:

- Establish command post near stairs.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the top of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up Stairs in SW corner of U-2 Rx Bldg. el. 545'

7.0 Exposures: None

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location

8.3 Telephone: None

9.0 Construction:

9.1 Floor: 12" Reinforced concrete

9.2 Wall:

a. North: Masonry
b. South: Masonry
c. East: Concrete
d. West: Masonry

9.3 Ceiling: 36" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Shutdown Heat Exchangers

2.0 ACCESS

Primary: From door in NE corner of Unit 2 Rx Bldg., el. 545' West of stairs High Rad key needed to access this area

Secondary: None

3.0 HAZARDS

Fire: None

Electrical: See 3.2

Other: Radioactive Equipment

4.0 FIRE PROTECTION EQUIPMENT

Detection: Photoelectric
1 - Hose Cabinet
1 - CO_2 Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs in NE corner
- S.C.B.A.
- Attack with Port. Ext., followed with 1-1/2" hose line
- Search area for victims
- Ventilate
- Overhaul
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in NE corner of U-2 Rx Bldg., el. 545'

7.0 EXPOSURES

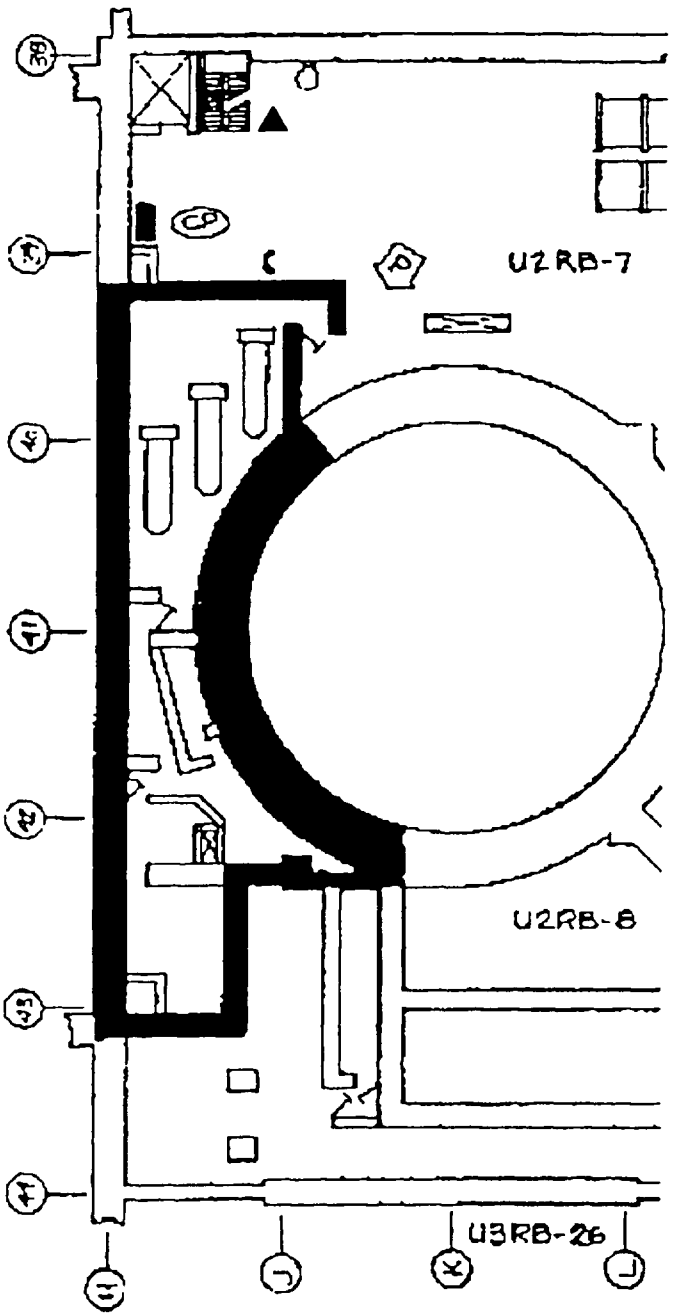
Safety-Related Equipment

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Floor/Ceiling – Reinforced concrete
North Wall - Reinforced concrete (3-hour rated)
East/West/South Walls - Masonry



FIRE ZONE 1.1.2.3

ELEVATION 545'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2RB-10 AT LEVEL ABOVE
2. U2RB-5 AND U2RB-6 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Reactor Building
Elevation 545'-6"
Fire Zone 1.1.2.3
Shutdown Heat Exchangers

2.0 Access:

2.1 Primary: From doors near NE corner of Unit 2 Reactor Bldg el. 545', just West of stairway. High Rad key needed to access this area.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire: None

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-1402-24A	Core Spray Outboard Isolation Valve 2A	H1	MCC 28-1
2-1402-4A	Core Spray Test Bypass Valve 2A	J1	MCC 28-1
2-1402-25B	Core Spray Inboard Isol Valve 2B	E2	MCC 29-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Photoelectric Detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet

4.4 Portable Extinguishers: 1 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post near stairs.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to and up stairs in the NE corner of U-2 Rx Bldg. el. 545'

7.0 Exposures: Shutdown Cooling Heat Exchangers (3)
Shutdown Cooling Valve Motors: 2-1001-4A, 2-1001-4B, 2-1001-4C.

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: None

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 12" Reinforced structural concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: Masonry
c. East: Masonry
d. West: Masonry

9.3 Ceiling: Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Reactor Building
Elevation 570'
Fire Zone 1.1.2.4
Secondary Containment

2.0 ACCESS

Primary: From Stairs in the NE corner of Unit 2 Reactor Bldg. el. 570'. High Rad key needed to access Cleanup Pipeway

Secondary: From Stairs at SW corner of Unit 2 Reactor Bldg. El. 570'. High Rad key needed to access Cleanup Pipeway

3.0 HAZARDS

Fire: Cable Insulation
Polyurethane
Polyethylene

Electrical: See 3.2

Other: Radioactive Equipment, 2 Transformers containing Pyranol.

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Linear Thermal
Suppression: Preaction, wet pipe system for hatchway and stairs
5 - Hose Cabinets
4 - CO_2 Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at el. 545' at stairwell
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution - De-energize Equipment
- Ventilate
- Overhaul
- CAUTION: Combustible gap materials

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in either the NE or SW corner of U-2 Rx Bldg. el. 570'

7.0 EXPOSURES

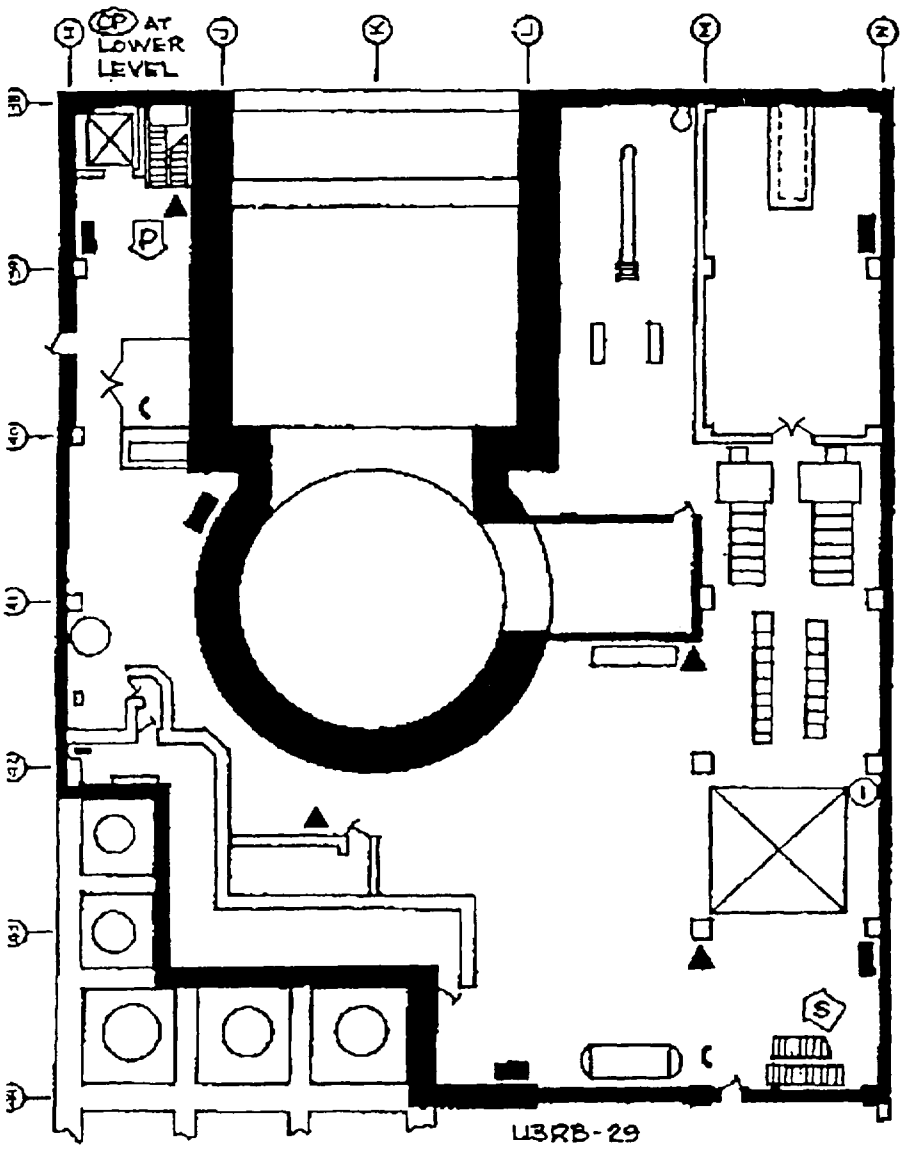
- Division I and II Cable Trays
- 480V SWGR 28, 29
- 250 Vdc MCC 2A, 2B
- 125 Vdc Dist. Panel 2

8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides
North and West walls 3-hour rated
Portion of ceiling 3-hour rated



FIRE ZONE 1.1.2.4
ELEVATION 570'-0"

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

NOTES

1. U2RB8, U2RB9 AND U2RB10 AT LEVEL BELOW
2. U2RB11 AND U2RB12 AT LEVEL ABOVE

① FIRE ALARM PANEL 2202-49
U-2 REACTOR BLDG 480V SWGR

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 570'
Fire Zone 1.1.2.4
Secondary Containment

2.0 Access:

2.1 Primary: From Stairs in NE Corner of Unit 2 Reactor Bldg, el. 570'. High Rad key needed to access Cleanup Pipeway.

2.2 Secondary: From Stairs at SW corner of Unit 2, Reactor Bldg., el. 570' near Reactor Bldg. Cooling Water Expansion Tank. High Rad key needed to access Cleanup Pipeway

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Panels	Cable insulation	A,C
Electrical cables	Cable insulation	A,C
Rad Chem. Sample Area	Paper	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
29-3	MCC		
2A	D.C. MCC 2A		
2B	750V MCC		
28	480V Swgr		
29	480V Swgr		
MCC 2A	250V D.C. MCC 2A	A01 or AL	250V DC MCC 2
MCC 2B	250V D.C. MCC 2B	001 or AL	250V DC MCC 2
Swgr 28	480V Swgr 28	MF28	480V Trans 28
Swgr 29	480V Swgr 29	MF29	480V Trans 29

Component Number	Component Description		Circuit Breaker	Power Supply
2-A-1902	Fuel Pool Cooling Pumps		283A	480V Swgr 28
2-B-1902	Fuel Pool Cooling Pumps		293A	480V Swgr 29
29-3 MCC	480V MCC		294-B	48OV Swgr 29
1214	Clean-up Pre-coat Tank Mixer		D3	480V MCC 29-3
2-1222	Clean-up Precoat Pump	D6	25OV DC	MCC 29-3
2-1211	Clean-up Filter and Pump	D1	MCC 29-3	

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: 2 - Transformers (28 and 29) containing Pyranol

4.0 Fire Protection Equipment:

4.1 Detection: Ionization detectors through fire zone except for cleanup demineralizer and filter areas. Linear detection at hatchway and stair which actuates preaction suppression system.

4.2 Automatic Suppression: Closed head preaction, wet pipe system at hatchway and stairs.

4.3 Hose Reels: 5 - Hose Cabinets

4.4 Portable Extinguishers: 4 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post near northeast stairs at el. 545'-6".
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listings.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.

- Overhaul entire fire area; check for extension.
- Provide a fire watch until fire detection system is returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials ini the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs at either the NE or SW corners of U-2 Rx Bldg. el. 570'

7.0 Exposures: Division I and II Cable Trays
480V SWGR 28, 29
250 - Vdc MCC 2A, 2B
125 Vdc Dist. Panel 2

8.0 Communications:

8.1 Portable radios: OK to use.

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones

9.0 Construction:

9.1 Floor: 36" Reinforced concrete

9.2 Wall:

a. North: Reinforced concrete, 3-hour rated except for a HVAC duct without a fire damper
b. South: Reinforced concrete
c. East: Reinforced concrete
d. West: Reinforced concrete, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete, southside 3-hour rated

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Reactor Building
Elevation 589'
Fire Zone 1.1.2.5.D
Stand-by Liquid Control Area

2.0 ACCESS

Primary: Stairway in NE corner of Unit 2 Rx Bldg. el. 589'

Secondary: None

3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation
Polyurethane

Electrical: See 3.2

Other: Entrapment Possible

4.0 FIRE PROTECTION EQUIPMENT

Detection: Local at Stand-by Liquid Control System
2 - Hose Stations
1 - Dry Chemical

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at NE Stairway
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul
- Fire Watch
- CAUTION: Combustible gap materials

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors to exhaust smoke up stairs in NE corner of U-2 Rx Bldg. el. 589'.

7.0 EXPOSURES

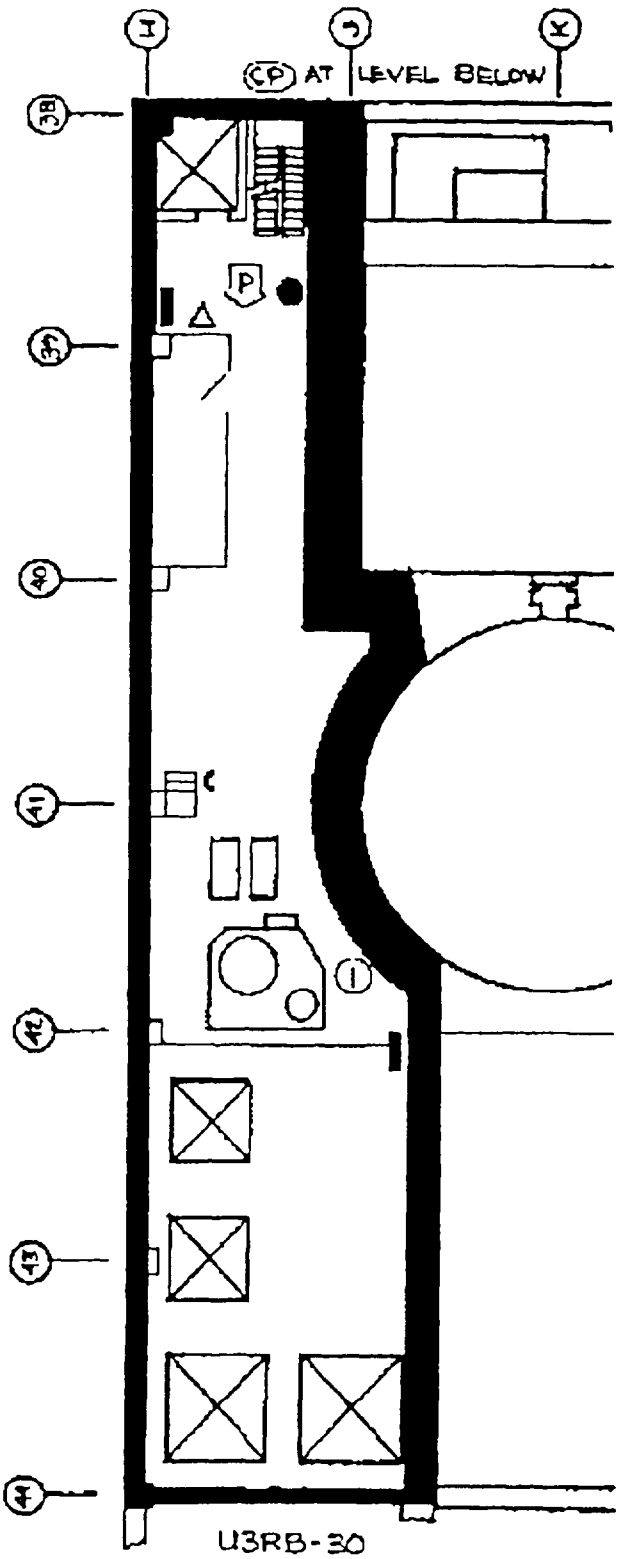
Stand-by Liquid Control System Tank and Pumps

8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced Concrete on all Sides
West Wall - 3-hour rated
North Wall - 3-hour rated; except for HVAC duct penetration



FIRE ZONE 1.1.2.5.D.
ELEVATION 589'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- C TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2RB-32 AT LEVEL ABOVE
2. U2RB-10 AT LEVEL BELOW

(1) FIRE ALARM PANEL 2202-48 U-2 STANDBY LIQUID CONTROL AREA

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 589'
Fire Zone 1.1.2.5.D
Stand-by Liquid Control Area

2.0 Access:

2.1 Primary: Stairway in NE corner of Unit 2 Rx Bldg. el. 589'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Electrical cables	Cable insulation	A,C
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2A-1102	Stand-by Liquid Control System Pumps	F4	480V MCC 28-1
2B-1102	Stand-by Liquid Control System Pumps	B-3	480V
	Stand-by Liquid Control Heater	B-2	MCC 29-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress; entrapment possible.

4.0 Fire Protection Equipment:

4.1 Detection: Local Detection at Stand-by Liquid Control System

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose Stations

4.4 Portable Extinguishers: 1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post at Stairway in NE corner at el. 570'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution: De-energize electrical equipment if possible (see Section 3.2 for electrical component listing).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Provide a fire watch until fire detection system is returned to service, if out of service time greater than 1 hour per DATRs
- CAUTION: This area contains combustible materials ini the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread..

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Extinguisher and Flexible Ducting to exhaust smoke up stairs in the NE corner of U-2 Rx. Bldg. el. 589'.

7.0 Exposures: Stand-by Liquid Control System tank and pumps.

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 36" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete 3-hour rated except for HVAC duct without a fire damper
b. South: Reinforced concrete
c. East: Reinforced concrete
d. West: 24" Reinforced concrete, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

Pre-plan U2RB-12
Page 1 of 5
Rev. 4

1.0 LOCATION

Unit 2 Reactor Building
Elevation 589'-0
Fire Zone 1.1.2.5.A
Isolation Condenser Area

2.0 ACCESS

Primary: From Stairs at SW corner of Unit 2 Rx Bldg., el. 589'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Linear Thermal

Suppression: Closed head preaction at hatchways, wet pipe sprinklers at stairs

2 - Hose Cabinets
2 - CO_2 Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in the SW corner of U-2 Rx. Bldg

7.0 EXPOSURES

Safety-Related Equipment.

Isolation Condensers, and associated valves Division I and II Cable Trays

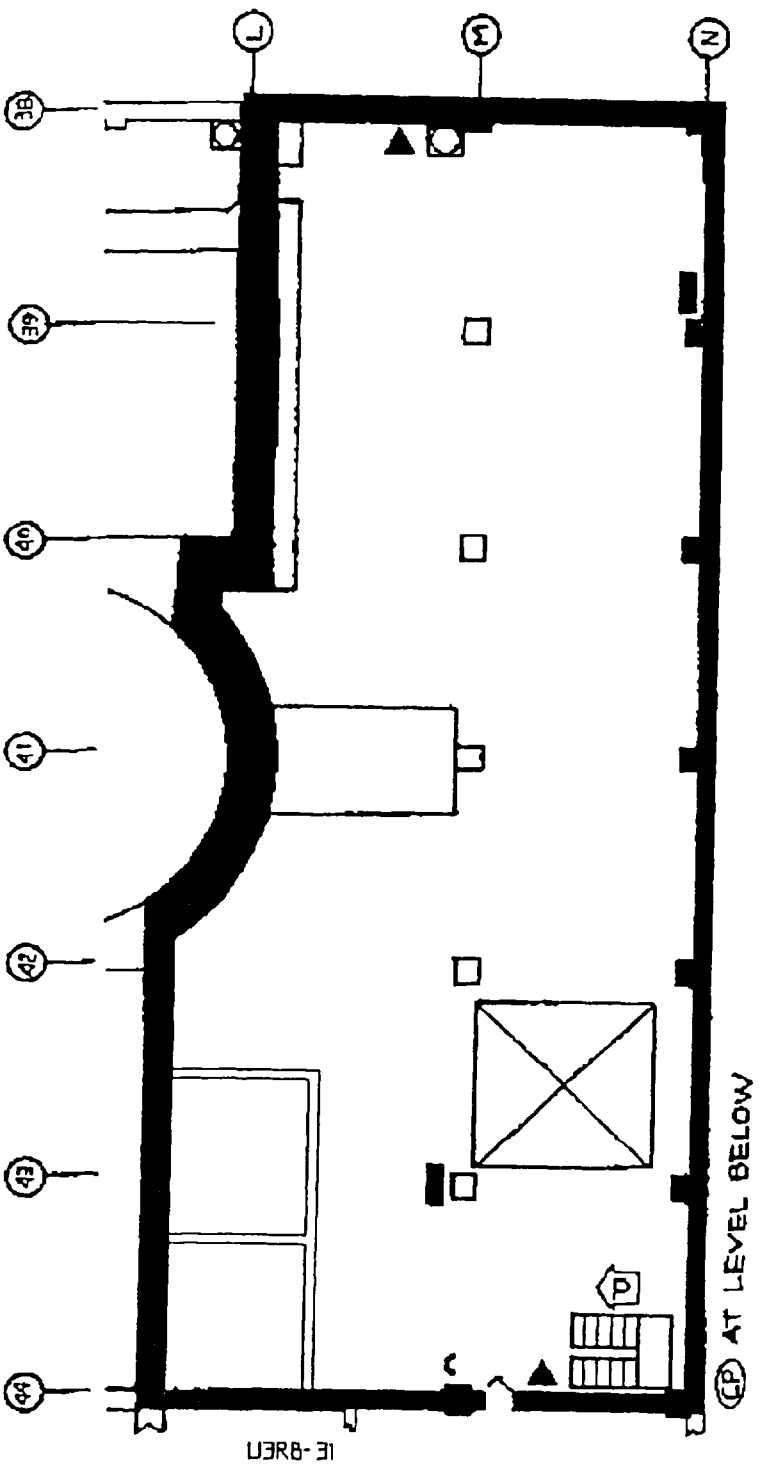
8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides

Floor, North wall, and West wall 3 hour rated.



FIRE ZONE 1.1.2.5.A
ELEVATION 589'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2/3RB-32 AT LEVEL ABOVE
2. U2RB-10 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Reactor Building
Elevation 589'-0"
Fire Zone 1.1.2.5.A
Isolation Condenser Area

2.0 Access:

2.1 Primary: From Stairs at SW corner of Unit 2 Rx Bldg., el. 589'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical cable	Cable insulation	A, C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
(4399-74) 2-1302	Isolation Condenser	E3	480V MCC 29-3

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress provided, entrapment unlikely

4.0 Fire Protection Equipment:

4.1 Detection: Ionization detectors throughout area. Linear detection at hatchway and stair which activates preaction suppression system. Linear detection at hatchway.

4.2 Automatic Suppression: Closed head preaction system at hatchways, wet pipe sprinklers at stairs.

4.3 Hose Reels: 2 - Hose Cabinets

4.4 Portable Extinguishers: 2 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post near Stairs at el. 570'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers, if sprinklers have not actuated, backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Provide fire watch until fire system is returned to service.

6.0 Ventilation:

6.1 Fixed: As necessary have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in the SW corner of Unit-2 Rx. Bldg.

7.0 Exposures: Safety-Related Equipment:

Division I and II Cable Trays
Isolation Condenser
Isolation Condenser Valves: MO2-1301-10, MO2-4102, AO2-1301-17, A02-1301-20, 2-1301-633, 2-1301-634, 2-1301-39, 2-1301-40, 2-1301-16

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 18" Reinforced concrete - 3 hour rated

9.2 Wall:

a. North: Minimum 36" reinforced concrete, 3-hour rated for HVAC ducts without fire dampers.
b. South: 18" Reinforced concrete
c. East: 24" Reinforced concrete
d. West: 24" Reinforced concrete, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete

1.0 LOCATION

Unit 3 Reactor Building
Elevation 476'
Fire Zone 1.1.1.1
Torus

2.0 ACCESS

Primary: From door in Unit 3 SW corner room el. 476'

Secondary: From door in Unit 3 SE corner room el. 476'

3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Entrapment Possible

4.0 FIRE PROTECTION EQUIPMENT

Detection: Liner thermal in and under cable trays.

4 - Hose Stations
(2 located in corner rooms)
2 - CO_2 Portable Extinguishers
(1 located in corner room)
3 – Dry Chemical Portable Extinguisher
(2 located in corner rooms)

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at top of stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: de-energize elect. equip.
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by control room as needed

Manual: Utilize Smoke Ejectors and Portable Ducting to exhaust upstairs smoke up the ladder leading to the hatch on elev. 517. Rad key needed for lock on ladder hatch.

7.0 EXPOSURES

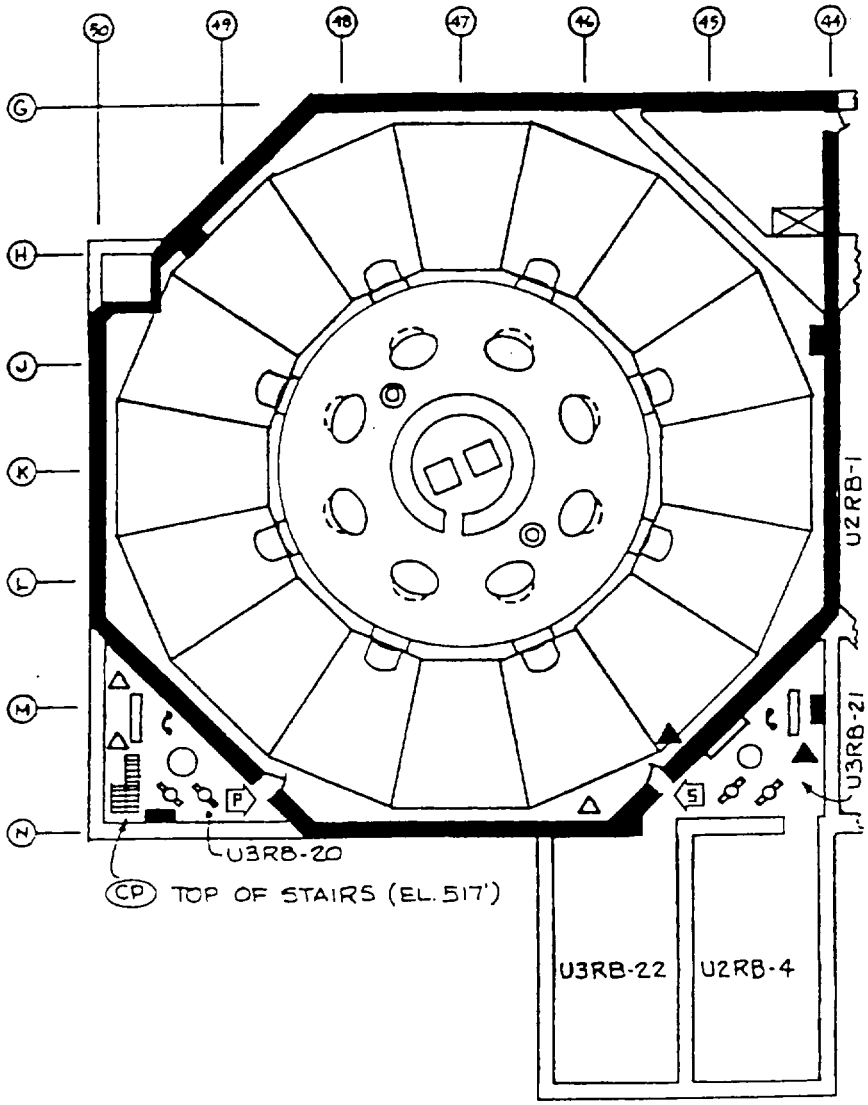
Div. I and II Cable Trays
Motor Operated Valves

8.0 COMMUNICATIONS

2 Extension Phones in corner rooms
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides
Portions of South and East Walls are 3-hour rated



FIRE AREA I.I.I.I.
ELEVATION 476'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2RB-23, U3RB-24 AND U3RB-25 AT LEVEL ABOVE
2. 3-▲ AT EL. 517' READILY AVAILABLE FOR THIS AREA

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 476'
Fire Zone 1.1.1.1
Torus

2.0 Access:

2.1 Primary: From door in Unit 3 SW corner room el. 476'.

2.2 Secondary: From door in Unit 3 SE corner room el. 476'.

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical Cables	Cable Insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-2042	Reactor Building Equipment Pump	B-1	MCC 39-3
3A-2001-452	Rx Building Floor Drain Sump Pump	B-2	MCC 39-3
3B-2001-452	Rx Building Floor Drain Sump Pump	B-3	MCC 39-3
	Vacuum Breakers Rx Building Cond. Return Unit (Pump)		
3-1501-38A	LPCI Torus Spray Valve 3A	B1	MCC 38-4
3-1501-38B 3-1501-18A	LPCI Torus Ring Spray Valve	B3	MCC 38-4

Component Number	Component Description	Circuit Breaker	Power Supply
3-1501-19A	LPCI Torus Ring Spray Valve	B4	MCC 38-4
3-1501-13A	LPCI Pump Flow Bypass Valve 3A	E2	MCC 38-4
3-1001-5A	Shutdown Cooling Return Isol. Valve 3A	G2	MCC 38-1
3-3703	Closed Cooling Wtr. Drywell Return Valve 3A	G3	MCC 38-1
3-1001-5B	Shutdown Cooling Return Isol. Valve 3B	D4	MCC 38-1
3B-1402-3A	Core Spray Pump Suction Valve	H4	MCC 39-1
3-1501-20	LPCI Torus Spray Valve	L2	MCC 39-1
3-1501-38B	LPCI Torus Spray Valve	L1	MCC 39-1
3-1501-18B	LPCI Torus Spray Valve	L3	MCC 39-1
3-1501-19B	LPCI Torus Spray Valve	L4	MCC 39-1
3-3702	Closed Cooling Water Drywell Supply Valve	C3	MCC 39-1
3B-1402-38	Core Spray Pump Recirc. Isol. Valve	E4	MCC 39-1
3A-1402-38	Core Spray Pump Recirc. Isol. Valve 3A	E3	MCC 38-4
3-1501-22A	LPCI Inboard Isol. Valve 3A	A2	MCC 38-7
3-1501-21B	LPCI Outboard Isol. Valve 3B	A3	MCC 39-7
3-1501-22B	LPCI Inboard Isol. Valve 3B	C2	MCC 39-7

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: Entrapment possible

4.0 Fire Protection Equipment:

4.1 Detection: Linear thermal detectors in and under cable trays southside of Torus connected with both LPCI rooms Panel # located 517' West wall Unit 3.

4.2 Automatic Suppression: None

4.3 Hose Reels: 4 - Hose Stations (2 located in corner rooms)

4.4 Portable Extinguishers: 2 - CO_2, (1 located in corner room)
3 - Dry Chemical, (2 located in corner rooms)

5.0 Guidelines for Fire Attack:

- Establish command post at top of stairs at el. 517'-6" (SW corner).
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for electrical component listings).
- Ventilate area--utilize fixed ventilation system or place portable smoke ejectors as indicated (see Section 6.0).
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary have control room shutdown HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode

6.2 Manual: Exhaust smoke with Portable Smoke Ejectors and Flexible Ducting via ladder thru hatch on elev. 517-6" Rad key needed for lock on ladder hatch.

NOTE: Smoke ejectors may be needed every 40 feet.

7.0 Exposures:

Div. I and II Cable Trays
LPCI Valve Motors: 3-1501-13B, 3-1501-18B, 3-1501-19B, 3-1501-20B, 3-1501-38B, 3-1501-22B
HPCI Valve Motors: 3-2301-5A, 3-2301-5B
Shutdown Cooling Valve Motors: 3-1001-5A, 3-1001-5B
RBCCW Valve Motors: 3-3702, 3-3703

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones in corner rooms.

9.0 Construction:

9.1 Floor: 30" Reinforced concrete on grade 3-hour

9.2 Wall:

a.	North:	12" Reinforced concrete
b.	South:	36" Concrete, 3-hour rated along HPCI room wall.
c.	East:	24" Concrete, 3-hour rated except for an unrated door.
d.	West:	12" Concrete
e.	Southeast:	36" Concrete
f.	Southwest:	36" Concrete

9.3 Ceiling: 24" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.1
Southwest Corner Room

2.0 ACCESS

Primary: From stairs in SW corner of Unit 3 Rx. Bldg., el. 476'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
HVAC Duct Lining

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Cabinet
2 - Dry Chemical Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs on el. 517'-6"
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs.

7.0 EXPOSURES

Safety-Related Equipment
Core Spray Pump B
LPCI/Cont. Cooling Heat Exchanger B
LPCI/Cont. Cooling Pump C, D
LPCI/Emergency Air Cooler B
LPCI Valve Motors

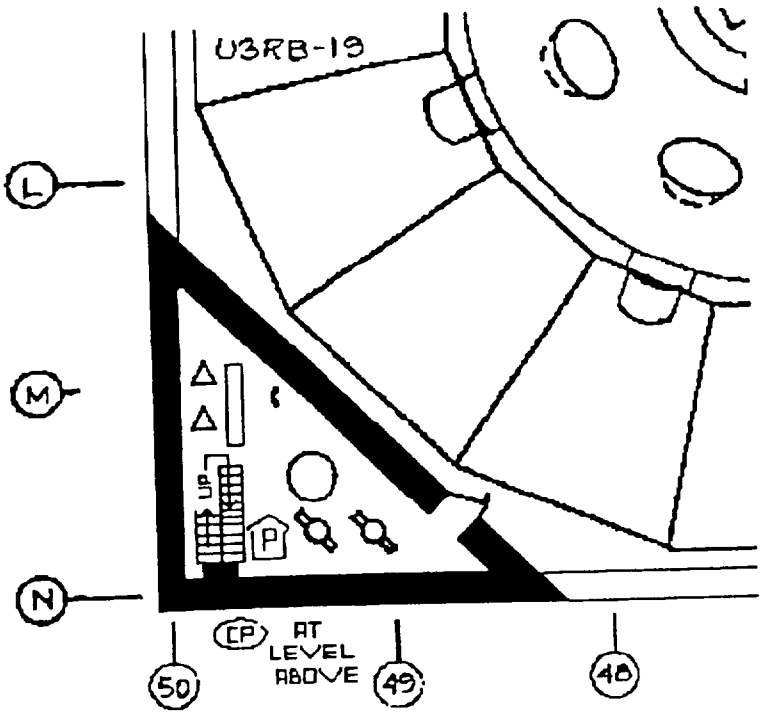
8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides

FIRE ZONE 11.1.1
ELEVATION 476'-6"



LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

NOTES
1. U3RB-23 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.1
Southwest Corner Room

2.0 Access:

2.1 Primary: From Stairs in SW corner of Unit 3, Rx Bldg., el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Ventilation	Duct lining	A
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
A 3-2001-511	Core Spray Pump Area Sump Pump	J3	480V MCC 39-1
B 3-2001-511	Core Spray Pump Area Sump Pump	J4	480V MCC 39-1
3-B-1401	Core Spray Pump	3429	4160V Swgr 34-1
3C-1502	Safety Sys Jockey Pump LPCI/Cont. Cooling Heat Exchanger and Pumps	3425	4160V Swgr 34-1
3D-1502	LPCI/Cont. Cooling Heat Exchanger and Pumps	3431	4160V Swgr 34-1
3-1501-20A	LPCI Torus Spray Valve 3B	B2	MCC 38-4
3-1501-3B	Contain. Cooling Heat Exchanger Discharge Valve 3B	E2	MCC 39-1

Component Number	Component Description	Circuit Breaker	Power Supply
3-1501-5C	LPCI Pump Suction Valve	K1	39-1
3-1501-5D	LPCI Pump Suction	K2	39-1
3-1501-11B	LPCI Heat Exchanger Bypass Valve	N2	39-1
3-1501-32B	LPCI Header Crosstie Isol Valve	P4	MCC 39-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet

4.4 Portable Extinguishers: 2 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post near Stairs on el. 517'-6".
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used when applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs.

7.0 Exposures: LPCI Valve Motors: 3-1501-3B, 3-1501-5C, 3-1501-5D, 3-1501-11B, 3-1501-32B
Core Spray Pump B
LPCI/Containment Cooling Heat Exchanger B
LPCI/Containment Cooling Pumps C,D
LPCI/Emergency Room Air Cooler B

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 30" Reinforced concrete basemat

9.2 Wall:

a. Northeast: 42" Reinforced concrete
b. South: 12" Reinforced concrete, exterior
d. West: 12" Reinforced concrete, exterior

9.3 Ceiling: 24" Reinforced concrete with stairway penetration

1.0 LOCATION

Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.2
Southeast Corner Room

2.0 ACCESS

Primary: Down U2 Rx Bldg. Stairs thru door in Unit 2/3 wall into SE corner of Unit 3, Rx Bldg., el. 476'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Internal HVAC Duct Insulation
Lubricating Oil

Electrical: See 3.2

Other: CO_2 suppression system in nearby diesel generator room

4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Cabinet

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Unit 2 Stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors to exhaust smoke upstairs in Unit 2 SW corner room to ground floor.

Fire Dampers: Fire dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 EXPOSURES

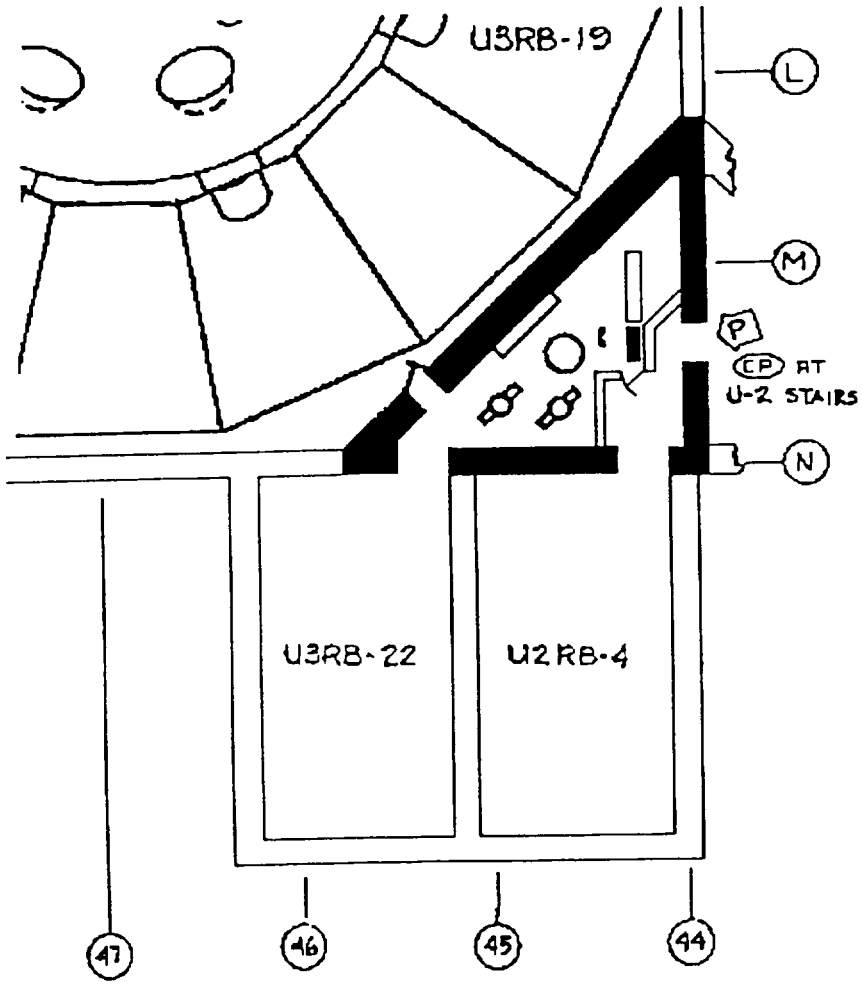
Core Spray Pump
LPCI/Cont. Cooling Heat Exchanger, Pumps & Motors
LPCI/Emergency Air Cooler, Instrument Rack
LPCI Valves

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides
East/South Walls - 3-hour rated.



FIRE ZONE 11.1.2
ELEVATION 476'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES
1. U3RB-23 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.2
Southeast Corner Room

2.0 Access:

2.1 Primary: Down U2 Rx Bldg. stairs thru door in Units 2/3 wall into SE corner of Unit 3 Rx Bldg., el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Ventilation	Internal duct lining	A
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-5782	Rx Bldg. Cond. Return Unit		
3A-1401	Core Spray Pump	3331	4160V Swgr 33-1
3-2001-510A	Area Sump Pumps	F4	480V MCC 38-1
3-2001-510B	Core Spray Pump 3A Area Sump Pump	J4	MCC 39-1
3-A-1502	LPCI/Cont. Cooling Heat Exch's and Pumps (2)	3327	4160V Swgr 33-1
3-B-1502	LPCI/Cont. Cooling Heat Exch's and Pumps (2)	3330	4160V Swgr 33-1

Component Number	Component Description	Circuit Breaker	Power Supply
3-2001-511B	Core Spray Pump 3B Area Sump Pump	B1	480V MCC
3-2001-511A	Core Spray Pump 3B	J3	MCC 39-1
3B	LPCI/Core Spray Pump Area Cooling Unit	F1	MCC 39-1
3-1501-13B	LPCI Pump Flow Bypass Valve	N1	39-1
3A	LPCI/Core Spray Pump Area Cooling Unit 3A	C1	MCC 38-1
3-1501-3A	Contain. Cooling Heat Exchanger Discharge Valve 3A	E3	MCC 38-1
3-1501-5A	LPCI Pump 3A Suction Valve	A3	MCC 38-4
3-1501-5B	LPCI Pump 3B Suction Valve	A4	MCC 38-4
3-1501-32A	LCPI Header Crosstie Isolation Valve 3A	C3	MCC 38-4
3-1501-11A	LCPI Heat Exchanger Bypass Valve 3A	E4	MCC 38-4

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: There is a CO_2 suppression system in the nearby Unit 2/3 diesel generator room.

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet

4.4 Portable Extinguishers: None

5.0 Guidelines for Fire Attack:

- Establish Command post at Stairs in SW corner of Unit 2 Reactor Building at Ground Level.
- Self-contained breathing apparatus should be used by all personnel.

- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used when applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in Unit 2 SW Corner Room to Ground Level

6.3 Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 Exposures: Core Spray Pump A
LPCI/CC Pumps: 3A-1502, 3B-1502
LPCI/Containment Cooling Heat Exchanger A
LPCI/Emergency Air Cooler A
LPCI/Containment Cooling/Core Spray Instrument Rack:
3-2203-19A
LPCI/CC Valve Motors:
3-1501-3A, 3-1501-5A & B, 3-1501-11A, 3-1501-32A

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 30" Reinforced concrete on grade

9.2 Wall:

a. Northwest: 42" Reinforced concrete
b. South: 36" Reinforced concrete, 3-hour rated
c. East: 24" Reinforced concrete, 3-hour rated

9.3 Ceiling: 24" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.3
HPCI Pump Room

2.0 ACCESS

Primary: From SE Corner Room Unit 3 (11.1.2) through door at South wall of Unit 3 Rx Bldg., el. 476'

Secondary: None

3.0 HAZARDS

Fire: Lubricating oil
Internal Duct Lining
Grease
Cable insulation

Electrical: See 3.2

Other: One means of egress. CO_2 suppression system in room above.

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Pre-action System
1 - Hose Cabinet nearby

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in SW corner (517' el) Unit 2
- Check Suppression System
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul
- Provide a Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs at M-N, 44 in SW corner room of U-2 Rx. Bldg.

Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 EXPOSURES

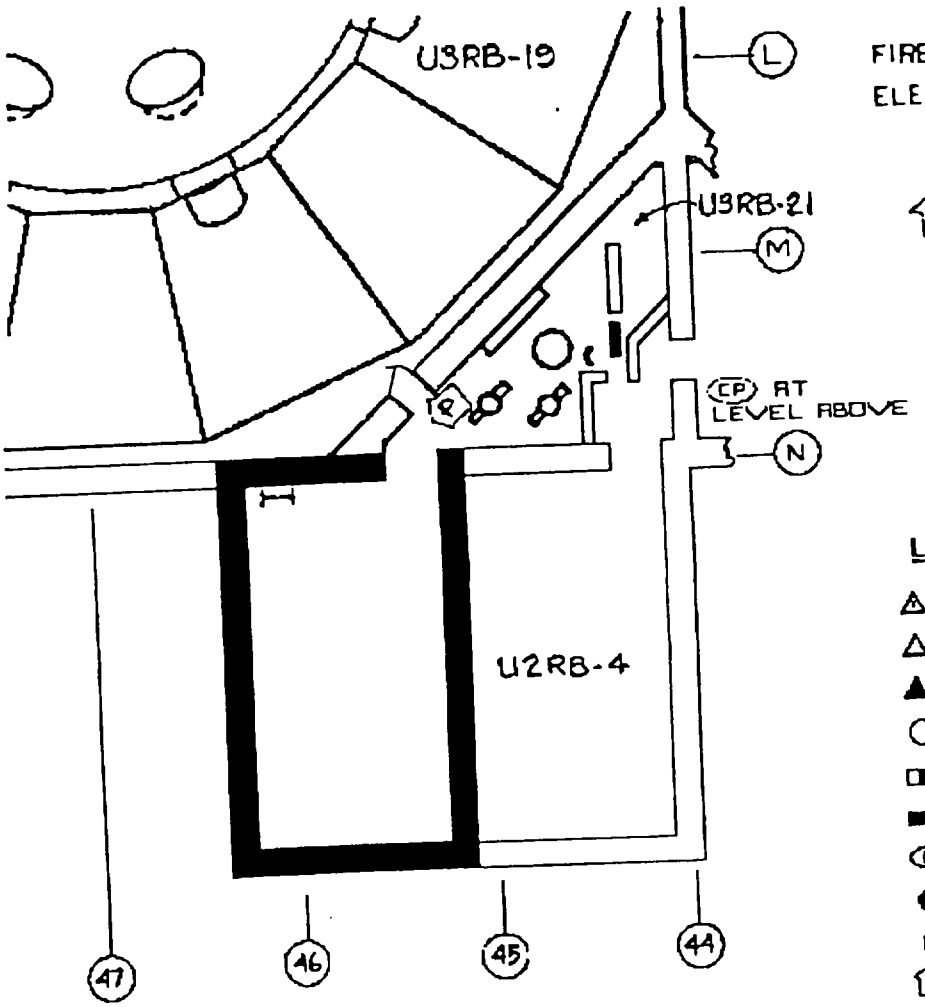
HPCI Turbine and Pump
HPCI Cooling Water Pump
HPCI/Emergency Air Cooler
HPCI/MOV & Solenoid Valves
HPCI/Instrument Racks
Level Switches
Temperature Switches

8.0 COMMUNICATIONS

1 - Extension Phone in adjacent area
Portable Radios

9.0 CONSTRUCTION

Ceiling/Floor - Concrete
East/West/South Walls - Concrete
North Wall - Pyrocrete (3-hour rated)



FIRE ZONE 11.1.3
ELEVATION 476'-6"

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES
1 U3RB-23 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 476'-6"
Fire Zone 11.1.3
HPCI Pump Room

2.0 Access:

2.1 Primary: From SE Corner Room Unit 3 (Zone 11.1.2) thru door on South wall of SE corner room of Unit 3 Rx Bldg., el. 476'.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Turbine	Lubricating oil, grease	B
Ventilation System	Internal duct lining	A
Panels	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-2301-250	HPCI Floor Drain Sumps and Pumps	E5	480V MCC 38-4
3-2301-57	HPCI Pump and Turbine		
3-2301-57	HPCI Aux. Coolant	A1	MCC 39-1
	HPCI Oil Tank Heater	F3	MCC 39-1
3	HPCI Pump 3 Area Cooling Unit	B1	MCC 39-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress, entrapment unlikely. There is a total flooding CO_2 suppression system in the fire zone above(9.0.C)

4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: Pre-action Sprinkler System ISO Valve # 3-4199-141 located at el. 517'-6", Unit 3

4.3 Hose Reels: 1 - Hose Reel located in adjacent area

4.4 Portable Extinguishers: None

5.0 Guidelines for Fire Attack:

- Establish command post in Secondary Containment near stairs in SW corner of Unit 2 el. 517'.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation may be accomplished by operating valve adjacent to MCC 39-7 el. 517' at South wall U-3 Rx Building.
- Self-contained breathing apparatus should be used by all personnel. Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located in Unit 3 Reactor Building, 517'-6" el. next to MCC 39-7 at South wall.
- Provide a fire watch until fire detection and fire suppression systems are returned to service, if out of service time greater than 1 hour per DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs of U-2 Rx Bldg SW corner Room.

6.3 Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 Exposures: Safety-Related Equipment

HPCI Instrument Racks 3-2203-29A and 3-2203-29B
HPCI Drive Turbine
HPCI Pump
HPCI Turbine Cooling Water Pump
HPCI/Emergency Air Cooler
HPCI Pump Discharge Isolation Valve Motor 3-2301-9
HPCI Turbine Steam Supply Valve Motor 3-2301-3
HPCI System Valve Motors: 3-2301-6, 3-2301-10, 3-2301-14, 3-2301-15, 3-2301-35
HPCI Emergency Bearing Oil Pump 3
HPCI Auxiliary Oil Pump 3
HPCI Condensate Pump 3
HPCI Oil Tank Heater

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone, located in adjacent area.

9.0 Construction:

9.1 Floor: 36" Reinforced concrete basemat

9.2 Wall:

a. North: Pyrocrete, 3-hour rated
b. South: 36" Reinforced concrete, exterior
c. East: 36" Reinforced concrete
d. West: Reinforced concrete, exterior

9.3 Ceiling: 42" Reinforced concrete with unsealed concrete access plugs.

1.0 LOCATION

Unit 3 Reactor Building
Elevation 517'-6"
Fire Zone 1.1.1.2
Ground Floor

2.0 ACCESS

Primary: From Airlock in the NW Corner of Unit 3 Rx. Bldg. el. 517'

Secondary: From Doorway in Unit 2/3 Common wall, el. 517'

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Polyethylene

Electrical: Motor Control Centers

Other: CO_2 suppression system in adjacent room.

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Local Wet Pipe Sprinkler
3 - Hose Stations
5 - Dry Chemical Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at entry door
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- De-energize Electrical
- Ventilate with Portable
- Overhaul, Stand-by valve
- Fire Watch
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors to exhaust thru door at center east wall of room or up stairs in the NW corner of U-3 Rx. Bldg. el. 571'.

7.0 EXPOSURES

Safety-Related Instrumentation and Control Panels
Motor Control Centers
Div. I and II Cable Trays

8.0 COMMUNICATIONS

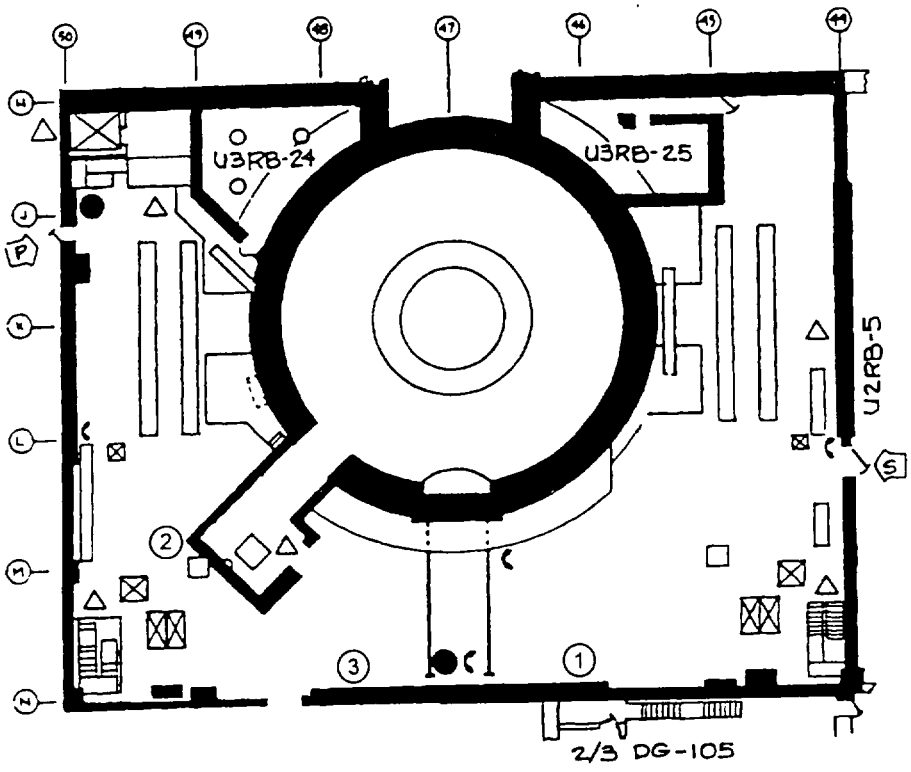
2 P.A. Locations
4 Extension Phones
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides

FIRE AREA 1.1.1.2.
ELEVATION 517'-6"

(CP) IN TURBINE BLDG. U3TB-71



LEGEND

- HALON EXTINGUISHER
- DRY CHEM. EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- (CP) COMMAND POST
- PA LOCATIONS
- TELEPHONE
- (P) PRIMARY ACCESS
- (S) SECONDARY ACCESS

① FIRE ALARM PANEL 2003-51
U3 480V MCC Rx Bldg.

② FIRE ALARM PANEL 2203-54
ACAD AIR COMPRESSOR

③ FIRE ALARM PANEL 2203-43
U3 HPCI ROOM

NOTES

1. U3RB-26, U3RB-27 AND U3RB-28 AT LEVEL ABOVE
2. U3RB-19 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 517'-6"
Fire Zone 1.1.1.2
Ground Floor

2.0 Access:

2.1 Primary: From Airlock in the NW Corner of Unit 3 Rx. Building, el. 517'

2.2 Secondary: From doorway in Unit 2/3 Common wall, el. 517'

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Compressors	Lubricating oil	B
Panels, Electrical Cables	Cable insulation	A,C
-	Polyethylene	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-2501	ACAD Compressor	G3	MCC 39-1
MCC-38-7	480V Reactor Building MCC 38-7	385-A	Swgr-38
MCC-39-7	480V Reactor Building MCC 39-7	394-C	Swgr-39
MCC-39-1	480V Reactor Building MCC 39-7	393-B	Swgr-39
MCC-38-1	480V Reactor Building MCC 38-1	384-A	Swgr-38
MCC-38-4	480V Reactor Building MCC 38-4	384-A	Swgr-38
3-2501	ACAD Air Compressor	G3	MCC 39-1
	Refueling Platform	C4	MCC 39-3
	Drywell Air Compressor	A2	MCC 38-1

Component Number	Component Description	Circuit Breaker	Power Supply
3A-4710	Drywell Inst Air Comps		
3B-4710	Drywell Inst Air Comps		
3-1001-1B	Shutdown Cooling Inlet Isol. Valve 3B	D3	MCC 38-1
3-15-01-27B	LPCI Drywell Spray Valve	K3	MCC 39-1
3B	Post Loca. H2+02 Monitoring Sample Pump	N3	MCC 39-1
3-0302-3	CRD Hyd. System Pressure Cont. Valve 3A	D1	MCC 39-1
3-0302-10	CRD Hyd. System Pressure Cont. Valve 3B	E1	MCC 39-1
3B-1501-28B	LPCI Drywell Spray Valve	K4	MCC 39-1
3-1501-21A	LPCI Outboard Isolation Valve 3A	C3	MCC 38-7

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: There is a CO_2 suppression system in the adjacent Unit 2/3 diesel generator room.

4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: 1 - 2 head Wet Pipe System protecting Air Compressor 3-2501

4.3 Hose Reels: 3 - Hose Stations

4.4 Portable Extinguishers: 5 - Dry Chemical, one located in locked area

5.0 Guidelines for Fire Attack:

- Establish command post in Turbine Building at entry door.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.

- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for electrical component listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located at 517'-6" el. along the South wall of U-3 Reactor Building near equip. door
- Provide a fire watch until fire detection system and fire suppression systems are returned to service, if out of service time greater than 1 hour per DATRs
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary have control room shutdown HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to door at center East wall of room or up stairs in the NW corner of U-3 Rx Bldg el. 517'-6".

7.0 Exposures: SRM/IRM Pre-Amp Panels 2203-15A and 2203-15B
Leak Detector Monitor Instrument Rack 2203-28
Jet Pumps Instrument Rack 2203-7, 2203-4, 2203-8
Control Rod Drive Hydraulic Control Unit (177)
Instrument Panel 2203-14, 2203-16
Air Compressor 3-2501
Air Receiver 3-2502
Accumulator Monitor Panel 2203-20
Division I and II Cable Trays
Motor Control Panels
MCC 39-1, 39-7, 39-1, 38-1, 38-4, 38-7
LPCI Valve Motors: 3-1501-21B, 3-1501-27B, 3-1501-28B
Local Reactor Pressure and Level Instrumentation:
PI2-263-139A & B
PI3-263-139A & B
LI3-263-151A & B
LITS2-263-151A & B

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 2 P.A. Locations

8.3 Telephone: 4 Extension Phones

9.0 Construction:

9.1 Floor: 24" Reinforced concrete

9.2 Wall:

a. North: 18" Reinforced concrete, 3-hour rated
b. South: 12" Reinforced concrete, 3-hour rated along swing diesel room
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete, 3-hour rated along airlock

9.3 Ceiling: 12" Reinforced concrete with stairwells and equipment hatches

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Cooling Pump Room, the fire fighting effort should be suspended and access fire door closed.

1.0 LOCATION

Unit 3 Reactor Building
Elevation 517'-6"
Fire Zone 1.3.1
Shutdown Cooling Pump Room

2.0 ACCESS

Primary: From U-3 Reactor Bldg. at 517' el., thru door in SW corner of room. Rad key needed to access room.

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: 480V Pump Motors

Other: Radiation

4.0 FIRE PROTECTION EQUIPMENT

Detection: Photoelectric

2 - Hose Cabinets nearby
3 - Dry Chemical Extinguishers nearby

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Turbine Bldg. Airlock
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: electrical
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke upstairs to next level.

Fire Dampers: Fire Damper may not close against airflow, therefore, shut down the ventilation system to ensure closure.

7.0 EXPOSURES

Shutdown Cooling Pumps (3)
Shutdown Cooling Valve Motors

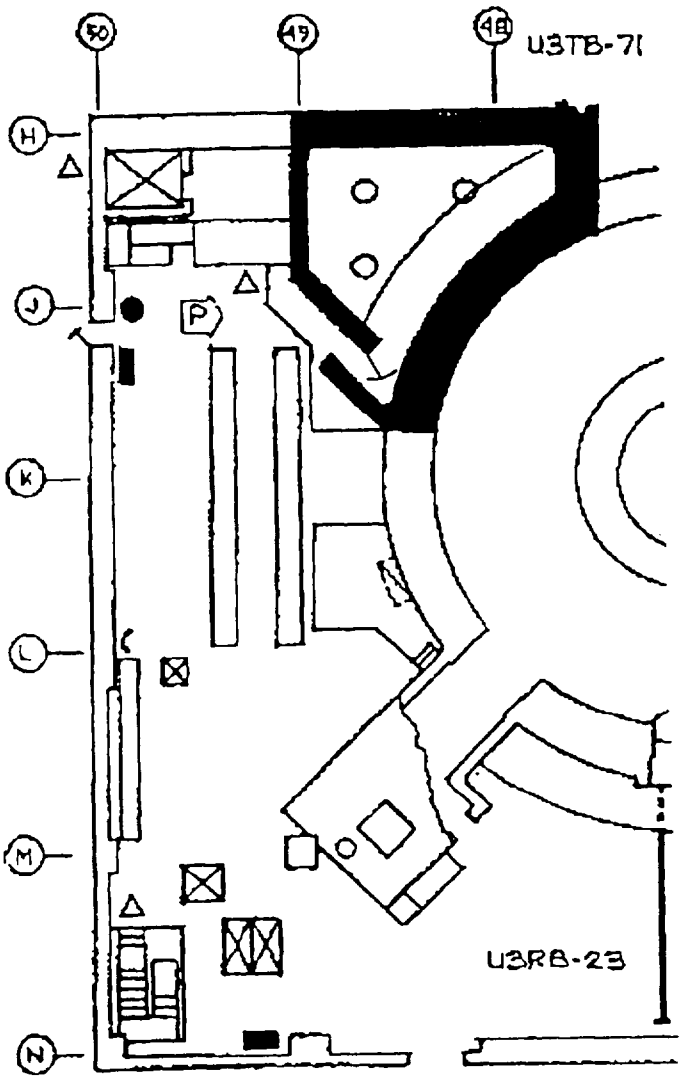
8.0 COMMUNICATIONS

1 P.A. Location nearby
1 Extension Phone nearby
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete all sides

(CP) IN TURBINE BLDG.



FIRE ZONE 1.3.1
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- (CP) COMMAND POST
- PA LOCATIONS
- TELEPHONE
- (P) PRIMARY ACCESS
- (S) SECONDARY ACCESS

NOTES

1. U3RB-26, U3RB-27 AND U3RB-28 AT LEVEL ABOVE
2. U3RB-19 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 517'-6"
Fire Zone 1.3.1
Shutdown Cooling Pump Room

2.0 Access:

2.1 Primary: From U-3 Reactor Building, 517'-6" el., thru door in SW corner of room. Rad key needed to access room.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Electrical cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3A-1002	Shutdown Cooling Pump	3329	4160V Swgr 33-1
3B-1O02	Shutdown Cooling Pump	3430	4160V Swgr 34-1
3C-1O02	Shutdown Cooling Pump	3433	4160V Swgr 34-1

3.3 Hazardous Substances: Radiation

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress

4.0 Fire Protection Equipment:

4.1 Detection: Photoelectric detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose Cabinets nearby in adjacent area

4.4 Portable Extinguishers: 3 – Dry Chemical nearby in adjacent area

5.0 Guidelines for Fire Attack:

- Establish command post in Turbine Building at Airlock.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- **SPECIAL NOTE:** Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Cooling Pump Room, the fire fighting effort should be suspended and access fire door closed.

6.0 Ventilation:

6.1 Fixed: As necessary have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Use Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in NW corner of U-3 Reactor Building to floor above.

7.0 Exposures:

Shutdown Cooling Pumps (3)
Shutdown Cooling Valve Motors:
3-1001-2A, 3-1001-2B, 3-1001-2C.

8.0 Communications:

8.1 Portable radios: OK to use.

8.2 Public Address: 1 P.A. Location nearby

8.3 Telephone: 1 Extension Phone nearby

9.0 Construction:

9.1 Floor: 24" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. Southwest: 24" Reinforced concrete, 3-hour rated
c. East: 48" Reinforced concrete
d. West: 24" Reinforced concrete, 3-hour rated

9.3 Ceiling: 24" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Extra length (minimum 50') of hose needs to be added to hose station near TIP Drive Room prior to charging hose to reach this room.

1.0 LOCATION

Unit 3 Reactor Building
Elevation 517'
Fire Zone 1.4.1
TIP Drive Room

2.0 ACCESS

Primary: From U-3 Reactor Bldg. floor (517' el.), doorway is in North wall of room. High Rad key needed to access room.

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation

Electrical: None

Other: Radiation

4.0 FIRE PROTECTION EQUIPMENT

Detection: Photoelectric

1- Hose Reel available in nearby area
2 - Dry Chemical Portable Extinguishers available in adjacent area

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at NW corner of Reactor Building
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke into U-2 Rx Bldg. el 517' via doorway on common wall of U-2 and 3 and up stairs.

Fire Dampers: Fire Damper may not close against airflow, therefore, shut down the ventilation system to ensure closure.

7.0 EXPOSURES

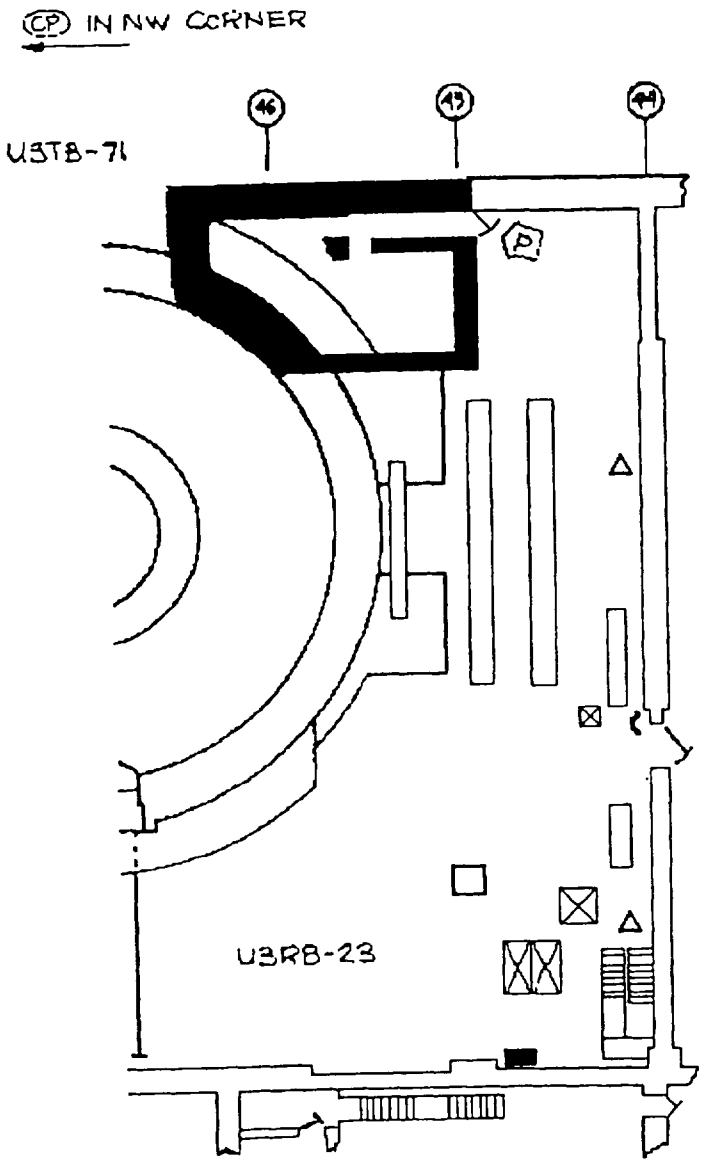
Inboard Isolation Condenser Valve Transfer Panel 2203-75

8.0 COMMUNICATIONS

1 Extension Phone available nearby
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete (3-hour rated)



FIRE ZONE 1.4.1
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

NOTES

1. U3RB-28 AT LEVEL ABOVE
2. U3RB-19 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 517'
Fire Zone 1.4.1
TIP Drive Room

2.0 Access:

2.1 Primary: From Unit 3 Reactor Building floor (517' el.), doorway is in North wall of room. High Rad key needed to access room.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical cables	Cable insulation	A,C

3.2 Electrical: None

3.3 Hazardous Substances: Radioactive area

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress

4.0 Fire Protection Equipment:

4.1 Detection: Photoelectric Detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel available in nearby area

4.4 Portable Extinguishers: 2 – Dry Chemical Extinguishers available in nearby area

5.0 Guidelines for Fire Attack:

- Establish command post in NW corner of U-3 Reactor Building at 517' el.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- **SPECIAL NOTE:** Extra length (minimum 50') of hose needs to be added to hose station near TIP Drive Room prior to charging hose to reach this room.

6.0 Ventilation:

6.1 Fixed: As necessary have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Use Smoke Ejector and Flexible Ducting to exhaust smoke up stairs in SE corner of U-2 Reactor Building to floor above via doorway on common wall of U-2 and 3 Rx Bldg el. 517'.

6.3 Fire Dampers: Fire Dampers may not close against air flow, therefore, shut down the ventilation system to ensure closure.

7.0 Exposures:

Inboard Isolation Condenser Valve Transfer Panel 2203-75

8.0 Communications:

8.1 Portable radios: OK to use.

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone available at doorway to U-2 Reactor. A telephone is also available in U-2 Reactor Building near door.

9.0 Construction:

9.1 Floor: 24" Reinforced concrete

9.2 Wall:

a. North: 24" Reinforced concrete, 3-hour rated
b. South: 24" Reinforced concrete, 3-hour rated
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 48" Reinforced concrete, 3-hour rated to main steam tunnel

9.3 Ceiling: 24" Reinforced concrete, 3-hour rated

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 3 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.1.3
Secondary Containment

2.0 ACCESS

Primary: From Ground Level, up stairs at NW corner of Unit 3 Rx Bldg., el. 545'-0"

Secondary: From Unit 2 Reactor Mezzanine Floor thru door on Unit 2/3 common wall el. 545'-6"

3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation
Polyurethane

Electrical: See 3.2

Other: Radioactive Contaminated Equipment

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Photoelectric
Suppression: Wet Pipe Sprinkler (local)

3 - Hose Stations
1 - CO_2 Portable Extinguishers
2 -Dry Chemical
3 - Wheeled Fire Carts

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairs on Ground Floor
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- De-energize electrical
- Ventilate
- Overhaul - Fire Watch
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke upstairs in SW corner of Unit 2 or upstairs in NW Corner of Unit 3.

Fire Damper: Fire Dampers may not close against air flow, therefore, shut down the ventilation system to ensure closure.

7.0 EXPOSURES

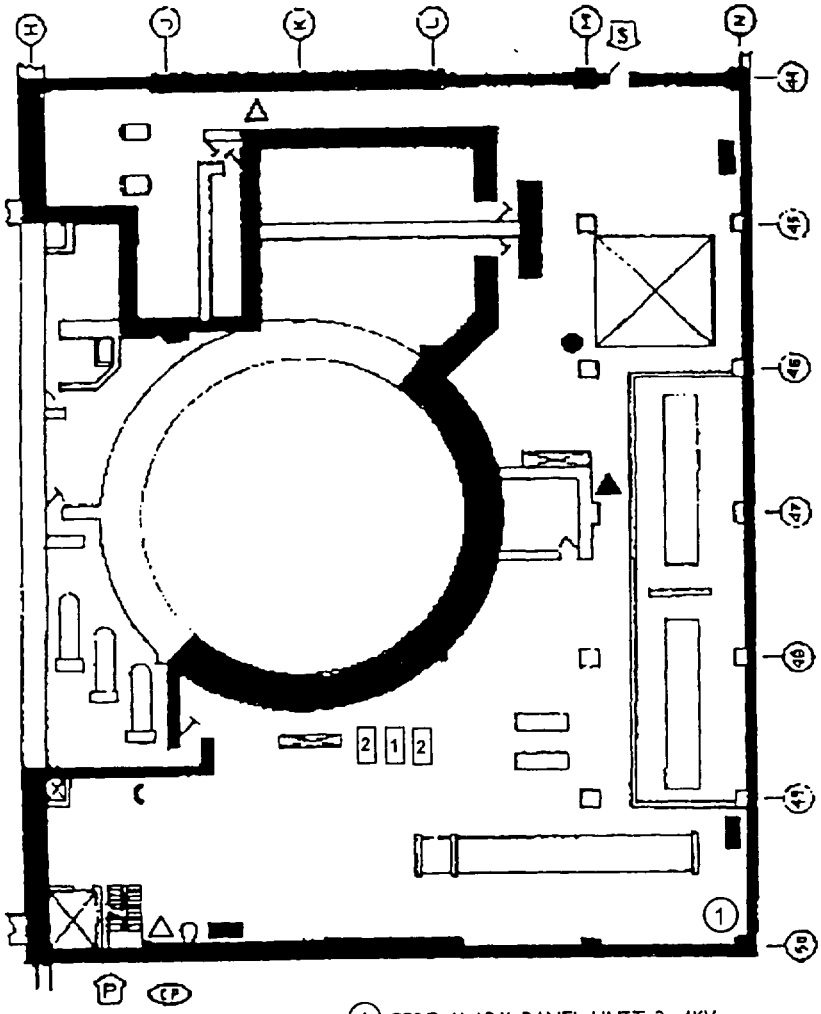
Safety-Related Equipment, Switchgear, Div. I and II Cable Trays

8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides



1 FIRE ALARM PANEL UNIT 3 4KV
REACTOR BUILDING

FIRE ZONE 1.1.1.5
ELEVATION 545'-6"

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS
- FIRE CARTS (NUMBER INDICATES NUMBER OF AVAILABLE DRY CHEMICAL EXTINGUISHERS

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 545'-6"
Fire Zone 1.1.1.3
Secondary Containment

2.0 Access:

2.1 Primary: From Ground Level, up stairs at NW corner of Unit 3 Rx Bldg Elev. 545'.

2.2 Secondary: From Unit 2 Reactor Building Mezzanine Level, thru door on Unit 2/3 common wall elev. 545'.

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubrication oil	B
Panels	Cable insulation	A,C
Electrical cables	Cable insulation	A,C
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
34-1 (HS)	4KV Swgr	3403	4KV Swgr 34
33-1 (HS)	4KV Swgr	3312	4KV Swgr 33
3-0202-4A	Recirc. Pump 3A Discharge Valve	B-1	MCC-38-7
3-0202-9A	Recirc. Loop Equal Bypass Valve 3A	A-3	MCC-38-7
3-0202-5A	Recirc. Pump 3A Discharge Valve	B-2	MCC-38-7

Component Number	Component Description	Circuit Breaker	Power Supply
3-0202-7A	Recirc. Pump 3A Discharge Bypass Valve	B-3	MCC-38-7
3-0202-6A	Recirc. Loop Equalizer Valve 3A	B-4	MCC-38-7
3-1213	Clean-up Filter Sludge Pump	D5	MCC 39-3
2253-70	Cont. Atmos. Analy Panel		
2253-49	Dry Air Samp. Panel		
3A-3701	Rx Bldg. Closed Cooling Water Pumps	3322	4160V Swgr 33-1
3B-3701	Rx Bldg. Closed Cooling Water Pumps	3422	4160V Swgr 34-1
3A-3-1205	Reactor Water Clean-up Recirc. Pumps	3324	Swgr 33-1
3B-3-1205	Reactor Water Clean-up Recirc. Pumps	3423	Swgr 34-1
3-1206	Reactor Water Clean-up Aux. Pump		
3-9201	Dry Well Air Comp. Sampling System and Equipment Recirc. Pumps	B4	MCC 39-3
2223-56	Inst Rack		
2/3	Rx Bldg. Cooling Water Pump	3428	4160V Swgr 34-1
3-1206	Rx Clean-up Demin Aux. Pump	383D	480V Swgr 38
34-1 (HS)	4KV Swgr 34-1	3403	4KV Swgr 34
33-1 (HS)	4KV Swgr 33-1	3312	4KV Swgr 33
3-1206	Rx Water Clean-up Aux. Pump		480V Swgr 38
3-1213	Clean-up Filter Sludge Pump		
2203-6	Instr Rack		
2253-97	Diesel Gen. Vent H.V. Control Panel		
3B-3701	Rx Bldg. Closed Cooling Water Pumps	3422	4KV 34-1
3A-3701	Rx Bldg. Closed Cooling Water Pumps	3322	4KV 33-1
2203-5	Instr Rack		
3A-3-1205	Rx Water Clean-up Recirc. Pump	3324	Swgr 34-1

Component Number	Component Description	Circuit Breaker	Power Supply
3B-2-1205	Rx Water Clean-up Recirc. Pump	3423	Swgr 34-1
3-3704	Shut Down Ht. Exch. Closed Cooling Water Isol Valve	G1	MCC 38-1
3-1402-24A	Core Spray Outboard Isol Valve 3A	E1	MCC 38-1
3-1402-25A	Core Spray Inboard Isol Valve 3A	E2	MCC 38-1
3-1501-27A	LPCI Drywell Spray Valve 3A	H3	MCC 38-1
3-1501-28A	LPCI Drywell Spray Valve 3B	H4	MCC 38-1
3-3701	Closed Cooling Header Isolation Valve	C4	MCC 39-1

3.3 Hazardous Substances: Radioactive Contaminated Equipment
PCB Tank behind 33-1/34-1 switchgear

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: Ionization detectors and Photoelectric detectors

4.2 Automatic Suppression: Wet pipe sprinklers above ventilation/pipe opening to shutdown cooling pump room

4.3 Hose Reels: 3 - Hose Stations

4.4 Portable Extinguishers: 1 - CO_2
2 – Dry Chemical
3 – Wheeled Fire Carts

5.0 Guidelines for Fire Attack:

- Establish command post at stairs (NW corner) on Ground Floor Level of Unit 3 Reactor Building.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.

- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Provide a fire watch until fire detection system is returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilizing Portable Smoke Ejectors and Flexible Ducting, exhaust smoke down stairs at either NW corner or Unit 2 SW corner

7.0 Exposures: Safety-Related Equipment

Instrument Rack 2203-6 and 2203-5
Div. I and II Cable Trays
4kV Switchgear 33-1 and 34-1
MCC 42-1
Local Reactor Pressure Level Instr.: PI3-263-60A & B,
LI3-263-72B & C, LI53-263-59A & B, LI3-263-72A & D

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 12" Reinforced concrete south stairwell and equipment hatch

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: 12" Reinforced concrete
c. East: 12" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete

9.3 Ceiling: 12" Reinforced concrete with stairwell and equipment hatch

1.0 LOCATION

Unit 3 Reactor Building
Elevation 545'
Fire Zone 1.1.1.3
Non-Regen Heat Exchanger Rooms

2.0 ACCESS

Primary: Doors in south wall of Heat Exchanger rooms near Unit 2/3 common wall el. 545'. High Rad key needed to access rooms.

Secondary: None

3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation
Polyurethane

Electrical: See 3.2

Other: Equipment Radioactive Contaminated

4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Cabinet outside room
1 - CO_2 Portable Extinguisher outside room
1 - Dry Chemical outside room
3 - Fire Carts in nearby area

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke through door at SE corner of room to next level via stairwell, or up equipment hatch located in area.

7.0 EXPOSURES

MOV3-1201-2

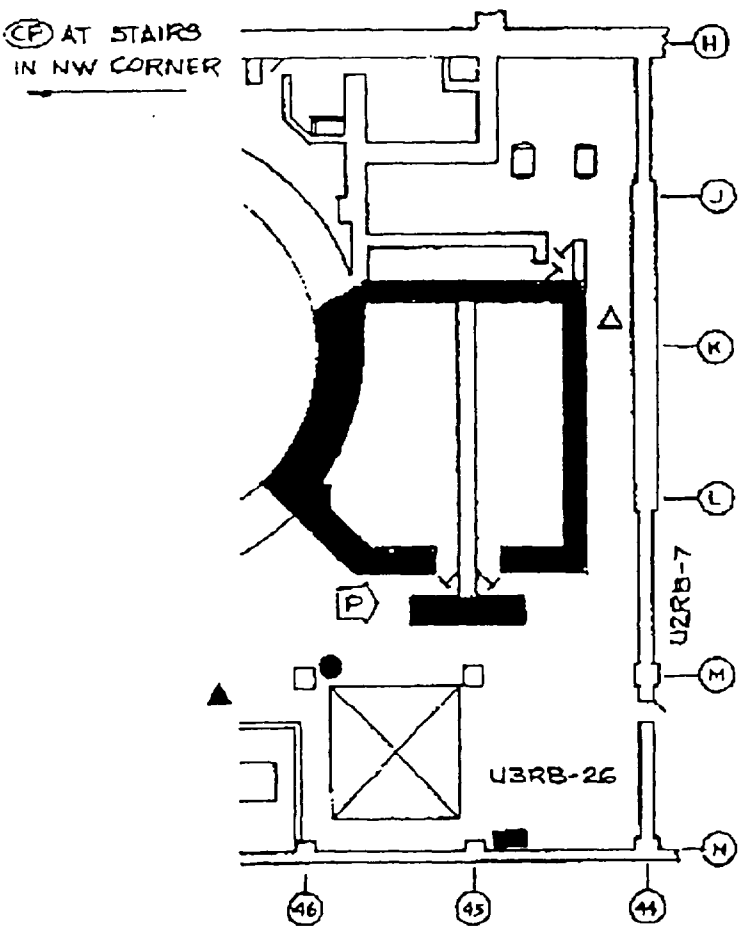
8.0 COMMUNICATIONS

1 P.A. Location nearby
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides, South Wall concrete and concrete block

FIRE ZONE 1.1.1.3.
ELEVATION 545'-0"



N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U3RB-29 AT LEVEL ABOVE
2. U3RB-23, U3RB-24 AND U3RB-25 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 545'
Fire Zone 1.1.1.3
Non Regen Heat Exchanger Rooms

2.0 Access:

2.1 Primary: Doors in South wall of Heat Exchanger Rooms near Unit 2/3 common wall el. 545'. High Rad key needed to access rooms.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical cables	Cable insulation	A,C
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-1201-11	Clean-up Demin to Condenser Shut-off Valve	E-1	MCC 39-3
3-1201-12	Clean-up Demin to Condenser Shut-off Valve	E-2	39-3
3-1201-8	Clean-up Recirc. Pump Bypass Valve	E-4	39-3
3-1201-9A	Clean-up Recirc. Pump 3A Disch. Valve	F-2	39-3
3-1201-9B	Clean-up Recirc. Pump 3B Disch. Valve	F-3	39-3
3-1201-4	Clean-up Demin Auxiliary Pump Disch. Valve	F-1	39-3

Component Number	Component Description	Circuit Breaker	Power Supply
3-1201-7	Clean-up System Return Isol Valve	F-1	38-1

3.3 Hazardous Substances: Equipment Contaminated

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress; entrapment unlikely.

4.0 Fire Protection Equipment

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet

4.4 Portable Extinguishers: 1 - CO_2 located in adjacent area
1 - Dry Chemical in adjacent area
3 -Fire Carts in adjacent area

5.0 Guidelines for Fire Attack:

- Establish command post at stairs at (NW corner).
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke thru door at SE corner of room to stairs in the SW corner of U-2 Rx. Bldg. el. 545' or up Equipment hatch located in area.

7.0 Exposures: RWCU Valve Motor 3-1201-5

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location nearby

8.3 Telephone: None

9.0 Construction:

9.1 Floor: 12" Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete
b. South: 12" Reinforced concrete/concrete block
c. East: 12" Reinforced concrete
d. West: 12" Reinforced concrete

9.3 Ceiling: 12" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Heat Exchanger Room, the fire fighting effort should be suspended and access fire door closed.

1.0 LOCATION

Unit 3 Reactor Building
Elevation 545'
Fire Zone 1.1.1.3
Shutdown Heat Exchanger Room

2.0 ACCESS

Primary: From door east of stairs in th NW corner of Unit 3 Rx Bldg elev. 545'. High Rad key needed to access room.

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Polyurethane

Electrical: Switchgear and Pumps

Other: Equipment Contaminated
Radioactive

4.0 FIRE PROTECTION EQUIPMENT

Detection: Photoelectric
1 - Hose Cabinet outside room
1 - Dry Chemical Portable Extinguisher outside room
3 - Fire Carts in nearby area

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairs at NW corner
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2 hose line
- Search Area for victims
- Caution: De-energize electrical equip.
- Ventilate
- Overhaul
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up the stairs in the N corner of U-3 Rx Bldg. el. 545

7.0 EXPOSURES

Rx Bldg. Shutdown Cooling Hx (3)
Safety-Related Equipment

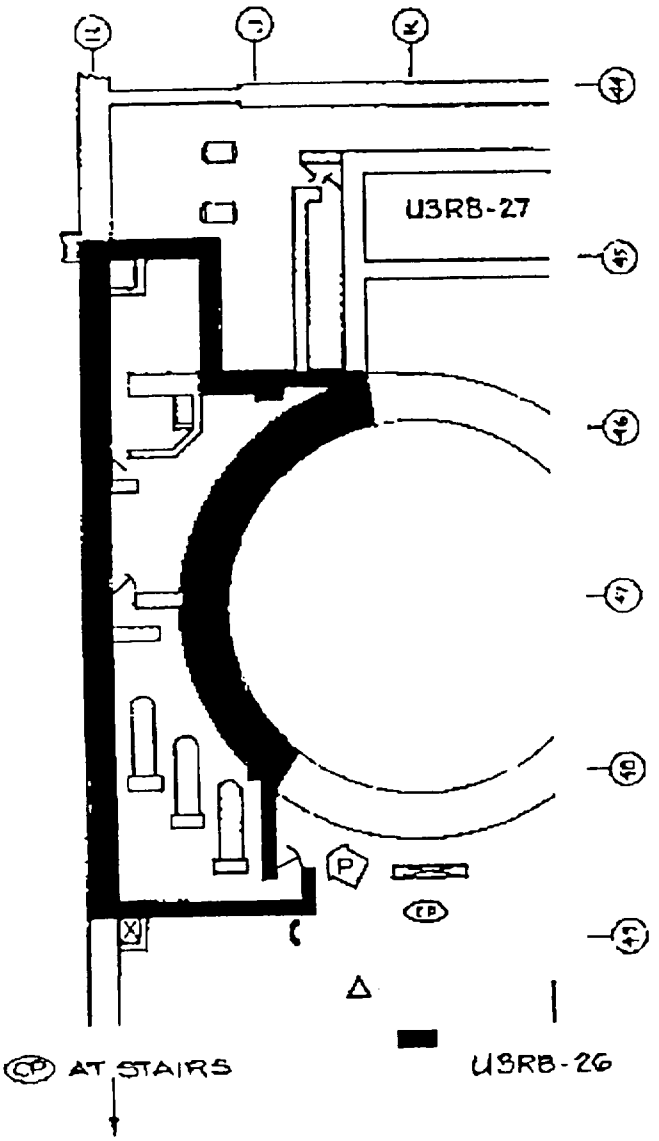
8.0 COMMUNICATIONS

1 Extension Phone nearby
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides, West wall Concrete block, South wall concrete and concrete block

FIRE ZONE 1.1.1.3.
ELEVATION 545'-0"



N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

NOTES

1. U3RB-29 AT LEVEL ABOVE
2. U3RB-23, U3RB-24 AND U3RB-25 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 545'
Fire Zone 1.1.1.3
Shutdown Heat Exchanger Room

2.0 Access:

2.1 Primary: From door, east of stairs, in the NW corner of Unit 3 Rx Building, elev. 545'. High Rad key needed to access room.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical cables	Cable insulation	A,C
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-1402-24B	Core Spray Outboard Isol Valve	H1	MCC 39-1
3-1402-25B	Core Spray Inboard Isol Valve	H2	MCC 39-1

3.3 Hazardous Substances: Equipment Contaminated: Filter Sludge Pump and Tank

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress; entrapment unlikely.

4.0 Fire Protection Equipment:

4.1 Detection: Photoelectric detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet located in adjacent area

4.4 Portable Extinguishers: 1 - Dry Chemical located in adjacent area
3 - Fire Carts available in nearby area

5.0 Guidelines for Fire Attack:

- Establish command post near stairs at NW corner of Room, Unit 3 Rx Building 545'-6" Mezzanine Floor.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Caution should be used in applying water to avoid electrical shock.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.
- **SPECIAL NOTE:** Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Shutdown Heat Exchanger Room, the fire fighting effort should be suspended and access fire door closed.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up the stairs in NW corner of U-3 Rx Bldg. el. 545'.

7.0 Exposures:

Shutdown Heat Exchangers 3A-1003, 3B-1003, 3C-1003
Shutdown Cooling Valve Motors: 3-1001-4A, 3-1001-4B, 3-1001-4C
RBCCW Valve Motor: 3-3704

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone located in adjacent area

9.0 Construction:

9.1 Floor: Reinforced concrete

9.2 Wall:

a. North: Reinforced concrete, 3-hour rated above TIP room and shutdown cooling pump room
b. South: Reinforced concrete/concrete block
c. East: Reinforced concrete
d. West: Concrete block

9.3 Ceiling: Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 3 Reactor Building
Elevation 570'-0"
Fire Zone 1.1.1.4
Secondary Containment

2.0 ACCESS

Primary: From U-2 Reactor Bldg. via stairs in SE corner of Unit 2 Rx Bldg. Thru door in Unit 2/3 common wall, el. 570'. High Rad key needed to access RWCU Demin Filter Pipeway.

Secondary: From stairs in NW corner of Unit 3 Rx Bldg., el. 570'. High Rad key needed to access RWCU Demin Filter Pipeway

3.0 HAZARDS

Fire: Cable Insulation
Polyurethane

Electrical: 480V Switchgear

Other: Radioactive Equipment Contaminated, 2 Transformers containing Pyranol.

4.0 FIRE PROTECTION EQUIPMENT

Detectors: Ionization, Linear Thermal
Suppression: Wet pipe sprinklers and Closed Head Preaction water curtains around opening in ceiling.
4 - Hose Cabinets
1 - CO_2 Portable Extinguisher
1 - Dry Chemical

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs (Unit 2)
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2 hose line
- Search area for victims
- Caution: De-energize Electrical
- Ventilate -- Overhaul
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs at NW corner or through door at SE corner of area or up stairs in the NW corner of U-3 Rx Bldg. el. 570'. Depending on the Location of the Fire.

7.0 EXPOSURES

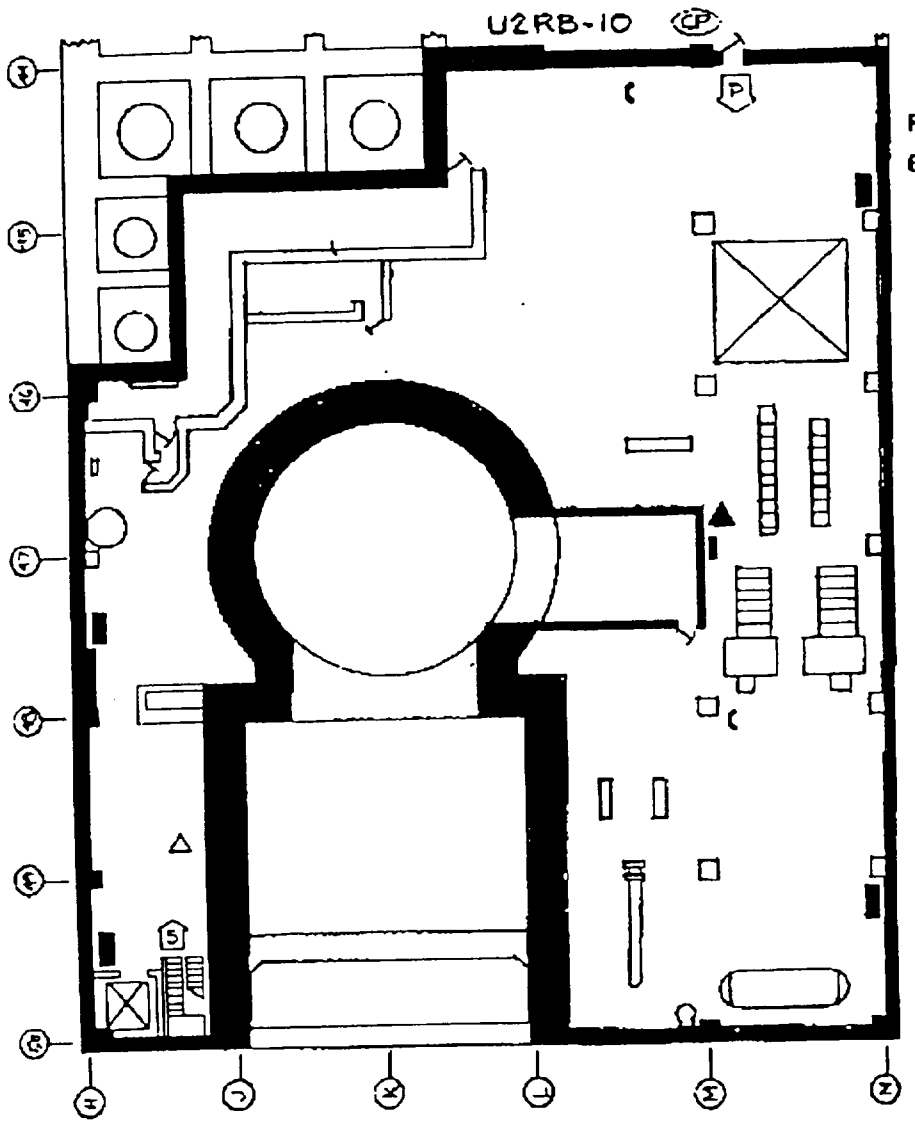
480 V SWGR 38, 39
250 Vdc MCC 3A, 3B
125 Vdc Reactor Bldg. Dist. Pnl 3

8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

9.0 CONSTRUCTION

Reinforced concrete on all sides



FIRE ZONE 1.1.1.4.
ELEVATION 570'-0"

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U3RB-30 AND U3RB-31 AT LEVEL ABOVE
2. U3RB-26, U3RB-27 AND U3RB-28 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 570'-0"
Fire Zone 1.1.1.4
Secondary Containment

2.0 Access:

2.1 Primary: From stair in SE corner of Unit 2 Rx Bldg. through door on Unit 2/3 common wall el. 570' el. 570'. High Rad key needed to access RWCU Demin Filter Pipeway.

2.2 Secondary: From stairs in NW corner of Unit 3 Rx Bldg. el. 570'. High Rad key needed to access RWCU Demin Filter Pipeway.

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Panels	Cable insulation	A,C
Electrical cables	Cable insulation	A,C
-	Polyurethane	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
38	480V Switchgear	MF38-NC	Trans. 38
39	480V Switchgear	MF39-NC	Trans. 39
Swgr 38 (ESS Div I)	480V Switchgear	3325	Swgr 33-1
Swgr 39 (ESS Div II)	480V Switchgear	3426	Swgr 34-1
3-A-1902	Fuel Pool Cooling Water Pumps	383A	Swgr 39
3-B-1902	Fuel Pool Cooling Water Pumps 3B	393A	Swgr 38
MCC 39-3	480V Rx Bldg. MCC	394-B	480V Swgr 39
3-1222	Clean-up Pre-Coat Pump	D-6	MCC 39-3
3-1211	Clean-up Filter AID Pump	D-1	MCC 39-3

Component Number	Component Description	Circuit Breaker	Power Supply
MCC-3A	250V DC Reactor Building MCC-3 Bus 3A		MCC-3
MCC-3B	250V DC Reactor Building MCC-3 Bus 3B		MCC-3
3-5901	Rx Building Elevator	A3	MCC 39-3
3-1214	Clean-up Pre-coat Tank Mixer	D3	MCC 39-3

3.3 Hazardous Substances: Some Contaminated Equipment

3.4 Physical Hazards: 2 - Transformers (38 and 39) containing Pyranol.

3.5 Life Safety: None

4.0 Fire Protection Equipment

4.1 Detection: Ionization Detectors and Linear Thermal Detection around openings in ceiling.

4.2 Automatic Suppression: Wet pipe sprinklers and thermally activated closed head preaction water curtains around openings in ceiling

4.3 Hose Reels: 4 - Hose Cabinets

4.4 Portable Extinguishers: 1 - CO_2
1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post at SW corner of Unit 2 Reactor Building.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used in applying water to avoid electrical shock.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listing).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- CAUTION: This area contains combustible materials ini the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs at NW corner, or thru door at SE corner of Unit 3 to stairs at SW corner of Unit 2.

NOTE: Location of the fire will determine which exhaust path.

7.0 Exposures: 480V SWGR 38, 39
250Vdc MCC 3A, 3B
125Vdc Reactor Bldg. Dist. Pnl 3

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones

9.0 Construction:

9.1 Floor: 12" Reinforced concrete with stairwell and equipment hatch

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated along turbine bldg. wall
b. South: 12" Reinforced concrete, exterior
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete, exterior

9.3 Ceiling: 12" Reinforced concrete with stairwell and equipment hatch, south end 3-hour rated

1.0 LOCATION

Unit 3 Reactor Building
Elevation 589'
Fire Zone 1.1.1.5.D
Standby Liquid Control Area

2.0 ACCESS

Primary: From stairs at NW Corner of Unit 3 Rx Building, Elev. 589'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Polyethylene

Electrical: See 3.2

Other: Entrapment Possible

4.0 FIRE PROTECTION EQUIPMENT

Detection: Local at Stand-by Liquid Control Equipment

2 - Hose Stations
1 - Dry Chemical

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs at NW Corner of room el. 570'
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize elec. equip.
- Ventilate
- Overhaul
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust up stairs in NW corner of room.

7.0 EXPOSURES

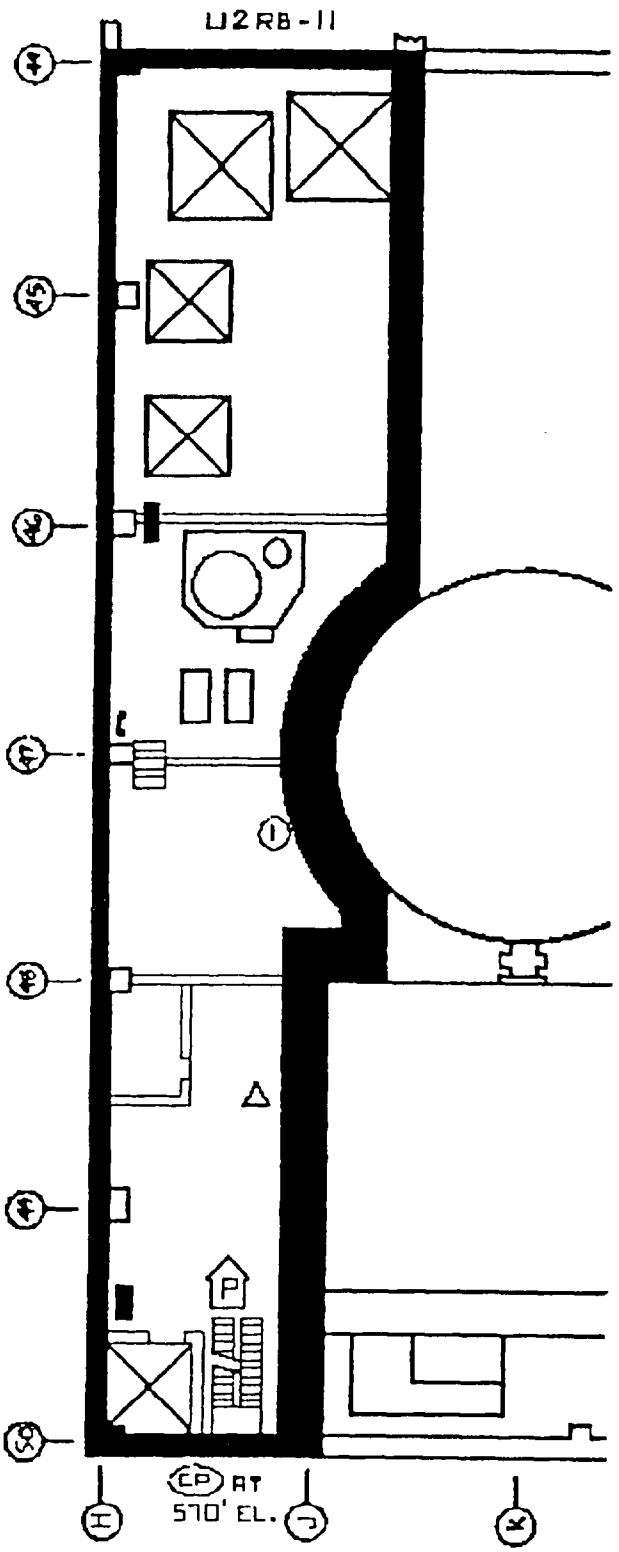
Stand-by Liquid Control Tank and Pumps
Division I and II Cable Trays

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides, East Wall 3-hour rated, North wall 3-hour rated except for HVAC duct penetration



FIRE ZONE 1.1, 1.5.D
ELEVATION 589'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2/3RB-32 AT LEVEL ABOVE
2. U3RB-29 AT LEVEL BELOW

(1) FIRE ALARM PANEL 2203-48 STAND-BY LIQUID CONT. AREA

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 589'
Fire Zone 1.1.1.5.D
Stand-by Liquid Control Area

2.0 Access:

2.1 Primary: From stairs in NW corner of Unit 3 Rx Bldg., elev. 589'

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Electrical cables	Cable insulation	A,C
-	Polyethylene	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
EPN-3A-1102	Stand-by Liquid Control Pump 3A	B-3	MCC-38-1
EPN-3B-1102	Stand-by Liquid Control Pump 3B	F-4	MCC-39-1
EPN-3-1103	Stand-by Liquid Control Heater	B-2	MCC-38-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress; entrapment possible

4.0 Fire Protection Equipment:

4.1 Detection: Ionization detection over the Stand-by Liquid Control System

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose Stations

4.4 Portable Extinguishers: 1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post near stairs at NW corner el. 570'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Provide a fire watch until fire detection system is returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials in the expansion gap around containment and at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs at NW Corner of U-3 Rx Bldg el. 589'.

7.0 Exposures:

Stand-by Liquid Control System Tank
Stand-by Liquid Control System Pumps (2)
Division I and II Cable Trays

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 12" Reinforced concrete with stairwell and unsealed mechanical penetrations

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated except for HVAC duct without a fire damper
b. South: 36" Reinforced concrete
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete, exterior

9.3 Ceiling: 12" Reinforced concrete with stairwell and unsealed mechanical penetrations

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

Pre-plan U3RB-31
Page 1 of 5
Rev. 4

1.0 LOCATION

Unit 3 Reactor Building
Elevation 589'
Fire Zone 1.1.1.5.A
Isolation Condenser Area

2.0 ACCESS

Primary: From stairs at SW corner of Unit 2 Reactor Bldg. thru doors between units on 2/3 common wall, el. 589'.

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive Material Storage

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Linear Thermal
Suppression: Closed Head Preaction System at Hatchway
2 - Hose Stations
1 - CO_2 Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Unit 2 stairs
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" Hose Line
- Search Area for Victims
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairs in the SW corner of U-2 RX Bldg via door in common wall.

7.0 EXPOSURES

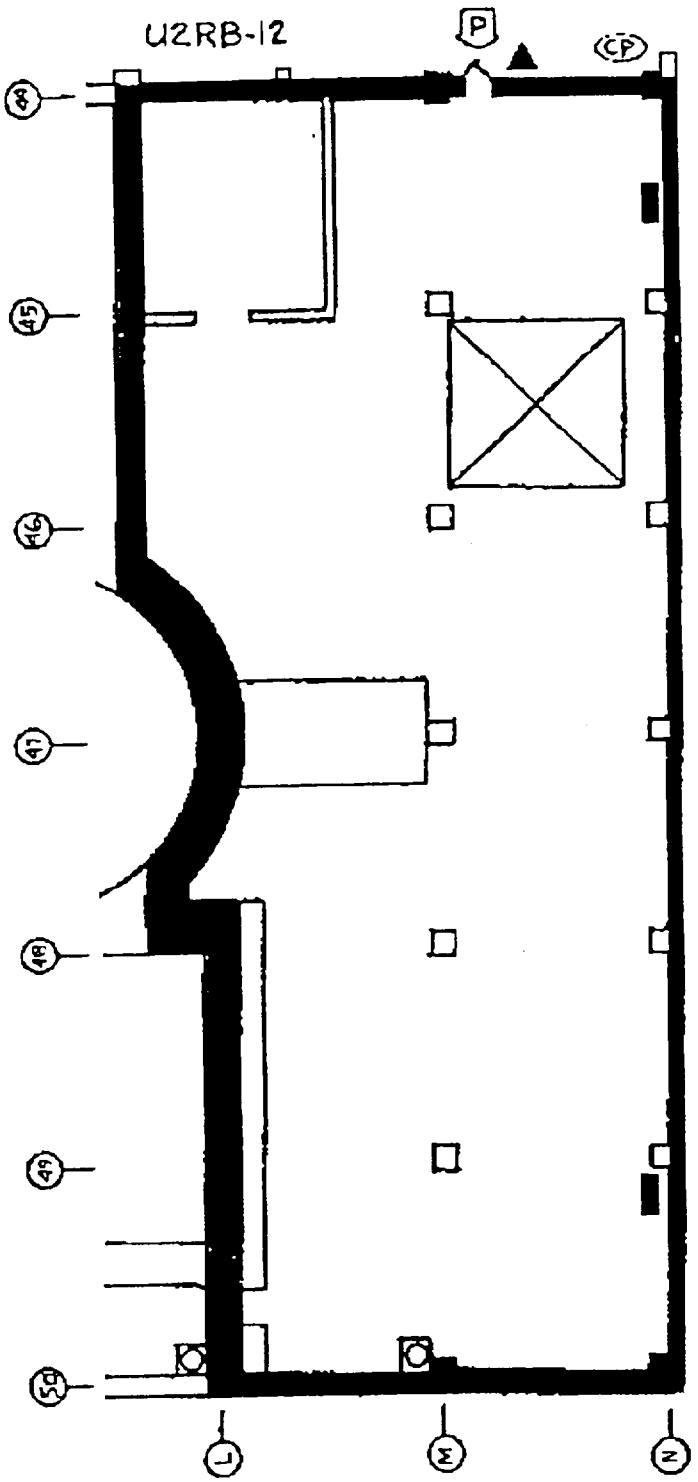
Div. I and II Cable Trays
Isolation Condenser
Isolation Condenser Valves

8.0 COMMUNICATIONS

Portable Radios

9.0 CONSTRUCTION

Concrete on all sides
Floor/East Walls 3-hour rated



FIRE ZONE 1.1.1.5.A.
ELEVATION 589'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2/3RB-32 AT LEVEL ABOVE
2. U3RB-29 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 3 Reactor Building
Elevation 589'
Fire Zone 1.1.1.5.A
Isolation Condenser Area

2.0 Access:

2.1 Primary: From Unit 2 stairs at SW corner of Unit 2 Rx Bldg. thru door between Units on 2/3 common wall el. 589'

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
3-1302 3-4399-74	Isolation Condenser	E-3	480V MCC 39-3

3.3 Hazardous Substances: Radioactive Contaminated Materials Storage

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress, entrapment unlikely.

4.0 Fire Protection Equipment:

4.1 Detection: Ionization detectors throughout area and Linear Thermal detection around hatchway.

4.2 Automatic Suppression: Closed Head Preaction system around hatchway isolation valve 3-4199-177

4.3 Hose Reels: 2 Hose Stations

4.4 Portable Extinguishers: 1 - CO_2 located in adjacent area

5.0 Guidelines for Fire Attack:

- Establish command post at stairs in SW corner of Unit 2 Reactor Building.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up the stairs in the SW corner of U-2 RX Bldg. via door of wall common to Units 2 and 3.

7.0 Exposures: Div. I and II Cable Trays
Isolation Condenser
Isolation condenser valves: M03-1301-10, MO3-4102, A03-1301-17, A03-1301-20, 3-1300-202, 3-1300-203, 3-1301-39, 3-1301-40, 3-1301-16, 3-1301-644.

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: None

9.0 Construction:

9.1 Floor: 12" Reinforced concrete, 3-hour rated

9.2 Wall:

a. North: 36" Reinforced concrete
b. South: 12" Reinforced concrete, exterior
c. East: 24" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete, exterior

9.3 Ceiling: 18" Reinforced concrete with equipment hatch

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Do not use fog pattern near new fuel vault to preclude possibility of criticality. Smooth bore nozzles provided near new fuel vault. When using these nozzles, Extreme Caution should be used to avoid electrical shock.

1.0 LOCATION

Unit 2 and 3 Reactor Building
Elevation 613'-0"
Fire Zones 1.1.1.6, and 1.1.2.6
Refueling Floor

2.0 ACCESS

Primary: From stairs and thru Airlock doors in NE Corner of Unit 2 Rx bldg. el. 613'-0"

Secondary: From stairs and thru Airlock doors in NW Corner of Unit 3 Rx Bldg., el. 613'

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: Radioactive Equipment

4.0 FIRE PROTECTION EQUIPMENT

8 - Hose Cabinets
4 - CO_2 Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairwell in NE corner 589'
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2 hose line
- Caution: De-energize elec. equip.
- Search Area for victim-Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust smoke down stairs at NW corner of Unit 3 or the stairs in the NE corner of Unit 2, OR exhaust to other unit, same elev.

7.0 EXPOSURES

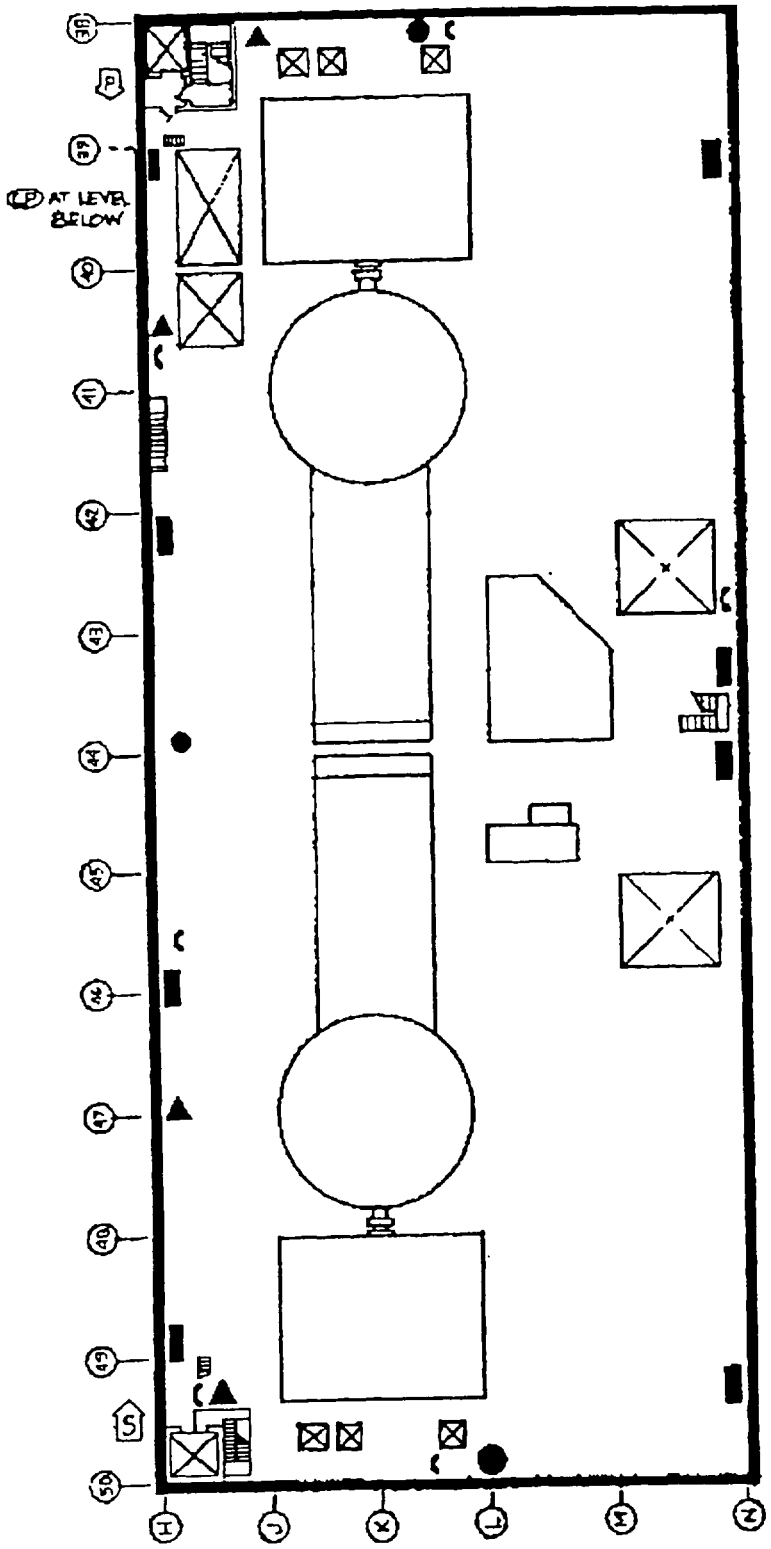
None

8.0 COMMUNICATIONS

3 P.A. Locations
6 Extension Phones
Portable Radios

9.0 CONSTRUCTION

North Wall - Concrete (3-hour rated) and Unrated Metal Siding
South/West/East Walls -Unrated Metal Siding
Roof - Built-up Roofing on exposed steel
Floor - Reinforced concrete



FIRE ZONE 1.1.1.2 & 1.1.2.6
ELEVATION 613'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U3RB-30, U3RB-31 U2RB-11 AND U2RB-12 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Units 2/3 Reactor Building
Elevation 613'-0"
Fire Zone 1.1.1.6 and 1.1.2.6
Refueling Floor

2.0 Access:

2.1 Primary: From stairs and thru Airlock doors in NE corner of Unit 2 Rx Bldg., el. 613'

2.2 Secondary: From stairs and thru Airlock doors in NW corner of Unit 3 Rx Bldg., el. 613'

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Crane Hoist	Lubricating oil	B
Panels	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2/3	Rx Building Crane	273B	480V Swgr 27
2-899	Refueling Floor Jib Cranes	C1	480V MCC 29-4
3A-57O2	MG Set Vent Fan	3850	480V Swgr 38
3B-5702	MG Set Vent Fan	394A	480V Swgr 39
2-A-5701	MG Set Vent Fan	285D	480V Swgr 28
2-B-5701	MG Set Vent Fan	294A	480V Swgr 29
3-A-5702	South Turb. Rm Vent Fans	385C	480V Swgr 38

Component Number	Component Description	Circuit Breaker	Power Supply
3-B-5702	South Turb. Rm Vent Fans	395A	480V Swgr 39
2/3-5003	New Fuel Storage Vault and Equipment Hatch Jib Cranes	F4	MCC 29-3
2/3	Rx Building Crane	373B	480V Swgr 37
1402-3A	Core Spray Pump Suction Valve 2A	H4	480V MCC 28-1
5715	South Turb. Room Evap. Cooler Recirc. Pump	B2	MCC 36-1
3-899	Refueling Floor Jib Cranes	A2	MCC 39-7
	Fuel Pool 480 Volt Receptacles	A1	MCC 29-3

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: Fuel Pool

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 8 - Hose Cabinets

4.4 Portable Extinguishers: 4 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post at Stairwell (NE corner of room) el. 589'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.

- Overhaul entire fire area; check for extension.
- **SPECIAL NOTE:** Do not use fog pattern near new fuel vault to preclude possibility of criticality. Smooth bore nozzles provided hear new fuel vault. When using these nozzles, Extreme Caution should be used to avoid electrical shock.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to and down stairs at NW corner of Unit 3 or to the stairs in the NE corner of Unit 2 OR exhaust smoke to the other unit, same elevation.

7.0 Exposures: New fuel in storage vault.

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 3 P.A. Locations

8.3 Telephone: 6 Extension Phones

9.0 Construction:

9.1 Floor: 12" Reinforced concrete

9.2 Wall:

a. North: 18" Reinforced concrete to 622' el., 3-hour rated, then metal siding on unprotected steel
b. South: Unrated metal siding on unprotected steel
c. East: Unrated metal siding on unprotected steel
d. West: Unrated metal siding on unprotected steel

9.3 Roof: Built-up roofing on exposed structural steel

1.0 LOCATION

Unit 2 Turbine Building
Elevation 469' -6"
Fire Zone 8.2.1.A
Condensate Pumps

2.0 ACCESS

Primary: From stairs in Unit 2 Turbine Building el. 517'

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Grease

Electrical: See 3.2

Other: Radioactive equipment
Hydrogen Addition Lines

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers
1 - Hose Reel
1 - CO_2 Portable Extinguisher
1 - Dry Chemical Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairs el. 517' near shield wall
- Check Suppression System
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution De-energize Equipment
- Ventilate
- Overhaul. Provide a Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs on west wall of room

7.0 EXPOSURES

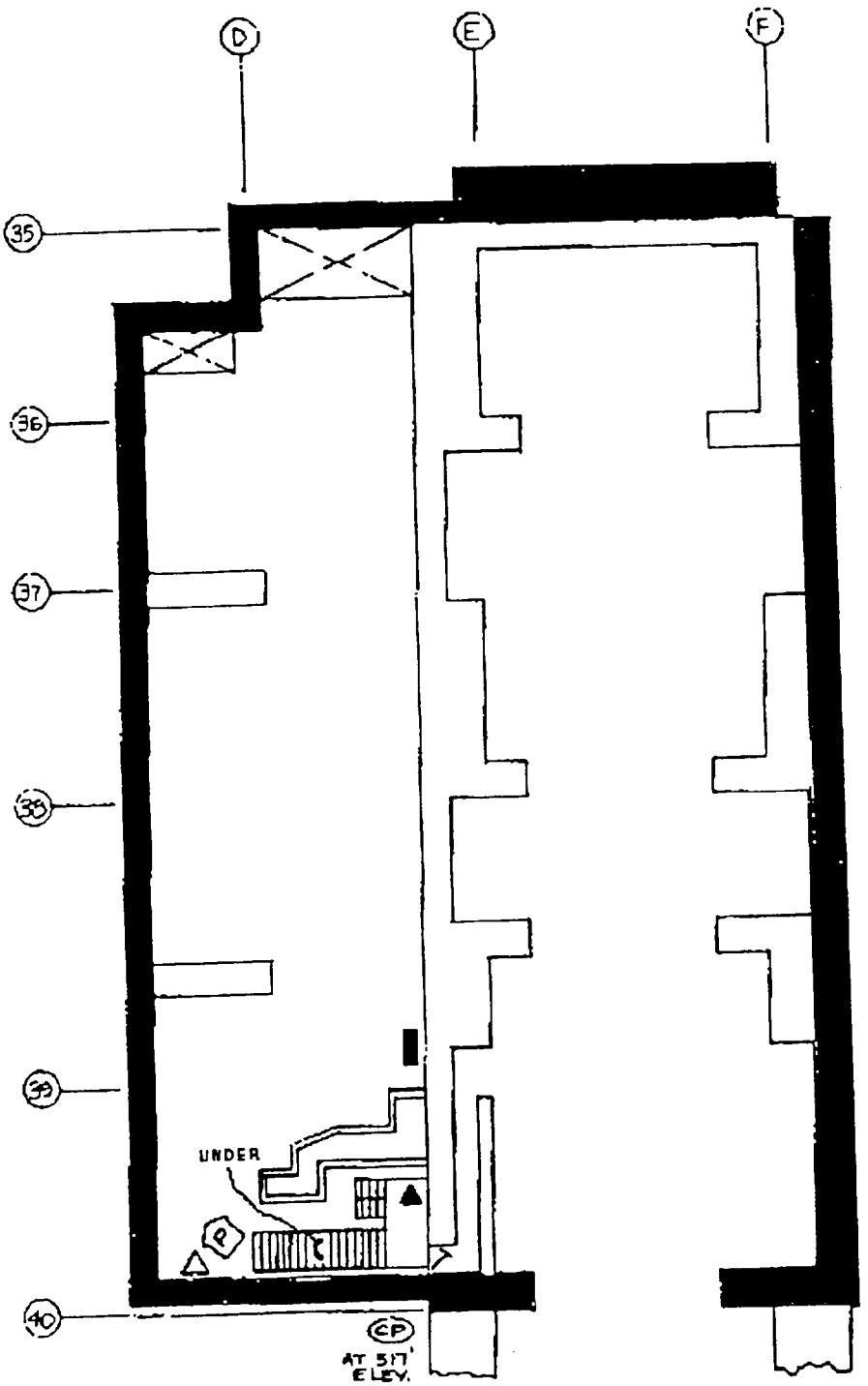
Divisions I and II Cable Trays

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Concrete all sides



FIRE ZONE 8.2.1.A
ELEVATION 469'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2TB-97 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 469'-9"
Fire Zone 8.2.1.A
Condensate Pumps

2.0 Access:

2.1 Primary: From stairs in Unit 2 Turbine Building, el. 517' to el. 469'

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil, Grease	B
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-4403A	Condenser Circ. Water Valve	K2	480V MCC 25-2
2-4403B	Condenser Circ. Water Valve	K4	480V MCC 25-2
2-4403C	Condenser Circ. Water Valve	L2	480V MCC 25-2
2-4403D	Condenser Circ. Water Valve	L4	MCC 25-2
2-4509	Chlorine Residual Sample Pump	C6	480V MCC 26-1
	Man Lift	C4	MCC 27-1
2A-3401	Condensate and Booster Pumps	2307	SWGR 23

Component Number	Component Description	Circuit Breaker	Power Supply
2B-3401	Condensate and Booster Pumps	2309	SWGR 23
2-4407	Condenser Dewatering Pump	J3	25-2
	HYDR PWR Unit Filters and Fans	A3	48OV MCC 25-1
	HYDR PWR Unit Filter Pump	A4	480V MCC 25-1
2-3341-106	Hotwell Sample Pump	I2	MCC 25-2
2C-3401	Condensate and Booster Pumps	2412	SWGR 24
2D-3401	Condensate and Booster Pumps	2410	SWGR 24
2A-3302	Condensate Pumps	2307	SWGR 23
2B-3302	Condensate Pumps	2309	SWGR 23
2C-3302	Condensate Pumps	2412	SWGR 24
2D-3302	Condensate Pumps	2410	SWGR 24
2A-2001-453	Turb. Bldg. Floor Drain Sump & Pump	F6	25-2
2B-2001-453	Turb. Bldg. Floor Drain Sump & Pump	A3	27-1
2A-2001-457	Turb. Bldg. Floor Drain Sump & Pump	F7	25-2
2B-2001-453	Turb. Bldg. Floor Drain Sump & Pump	B1	27-1
2-5700-50	Cond. & Cond. Booster Pump Room Exh. Fan	H4	MCC 25-2 480V

3.3 Hazardous Substances: Radioactive Equipment
Hydrogen Addition Lines in Area

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler Isolation Valve 2-4199-194 located at EL 495'

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 1 - CO_2
1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post near stairs in Unit 2 Turbine Building el. 517' near shield wall.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers, if sprinklers had not activated, backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (See section 3.2 for electrical component listings).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located in North wall of heater bay at Col. D-41; SE of TBCCW Heat Exchangers (534' el.).
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary have control room shutdown HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs on West wall of room

7.0 Exposures: Divisions I and II Cable Trays

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone, under stairs

9.0 Construction:

9.1 Floor: 30" Reinforced concrete on grade

9.2 Walls: 36" Reinforced concrete all sides

9.3 Ceiling: 18" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 495'
Fire Zone 8.2.2.A
Containment Cooling Service Water Pumps (CCSW)

2.0 ACCESS

Primary: Down stairs in Turbine Building Unit 2, from ground floor level to el. 495'

Secondary: None

3.0 HAZARDS

Fire: Grease, Lubricating Oil, Cable Insulation, Internal HVAC Duct Lining, Filters

Electrical: See 3.2

Other: Radioactive equipment
One means of Egress, entrapment possible

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers
1 - Hose Reel
1 - CO_2 Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at top of stairs
- Support Sprinklers
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution De-energize Equipment
- Ventilate - Overhaul
- Valve Operator - Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by control room as needed.

Manual: Use Smoke Ejectors to exhaust smoke up stairs on west wall to el. 517'

7.0 EXPOSURES

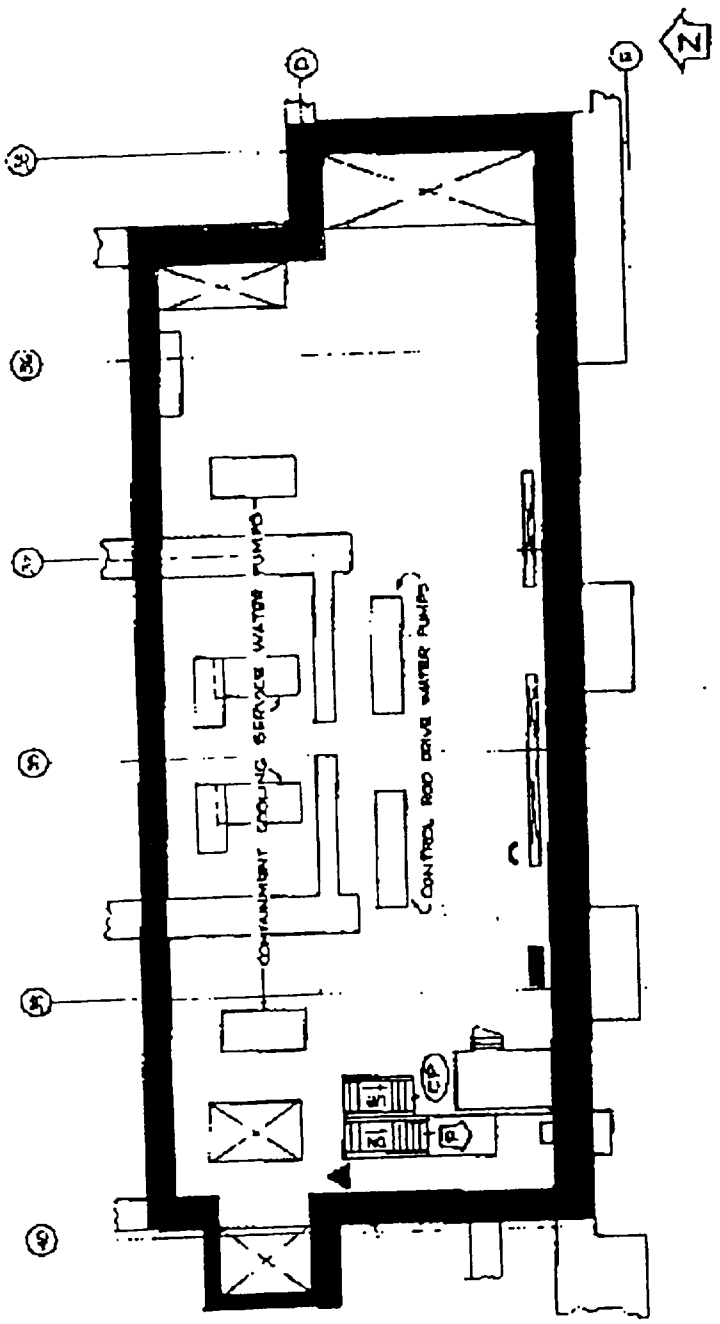
Safety-Related and Safe Shutdown Equipment.

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Concrete on all sides.



FIRE ZONE 8.22.A
ELEVATION 495'-0"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2TB-36 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 495'
Fire Zone 8.2.2.A
Containment Cooling Service Water (CCSW) Pumps

2.0 Access:

2.1 Primary: Down stairs in Unit 2 Turbine Building from ground floor level to 495' el.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil,	B
	Grease	B
	Filters	A
	Internal duct Lining	A
Panels, Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2-4402A	Condenser Circ. Water Valve	K 1	MCC 25-2
2-44O2B	Condenser Circ. Water Valve	K 3	MCC 25-2
2-4402C	Condenser Circ. Water Valve	L 1	MCC 25-2
2-4402D	Condenser Circ. Water Valve	L 3	MCC 25-2
2A-1501-44	Containment Cooling Service Pumps	2306	4160V SWGR 23
2B-1501-44	Containment Cooling Service Pumps	2304	4160V SWGR 23

Component Number	Component Description	Circuit Breaker	Power Supply
2C-15O1-44	Containment Cooling Service Pumps	2403	416OV SWGR 24
2D-1501-44	Containment Cooling Service Pumps	2401	4160V SWGR 24
2A-302-3	Control Rod Drive Feed Pump 2B	2301	4160V SWGR 23
2B-302-3	Control Rod Drive Feed Pump 2B	2414	4160V SWGR 24
Fan 1 (A)	Cont. Cooling Serv. Water Pump Cub. Cooler Fan 1	B2	MCC 28-2
Fan 2 (A)	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan 2	E2	MCC 28-2
Fan C1	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	D1	MCC 28-2
Fan C2	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	D2	MCC 28-2
Fan D1	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	D3	MCC 28-2
Fan D2	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	D4	MCC 28-2
Fan B1	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	F1	MCC 28-2
Fan B2	Contain. Cool. Serv. Wtr. Pump Cub. Cooler Fan	F3	MCC 28-2

3.3 Hazardous Substances: Radioactive Pumps

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress, entrapment possible.

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinklers Isolation Valve 2-4199-185 located at EL. 495

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 1 - CO_2

5.0 Guidelines for Fire Attack:

- Establish command post near stairway at el. 517' ground level.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers, if sprinklers have not activated, backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Caution should be used when applying water to avoid electrical shock.
- De-energize electrical equipment if possible (See section 3.2 for electrical equipment listings)
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located in North wall of heater bay SE of TBCCW Heat Exchangers (534' el.).
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary have control room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke up stairwell to ground floor el. 517'

NOTE: Exhaust smoke to exterior only with H/P approval.

7.0 Exposures:

Safety Related Equipment	Non-Safety Related Shutdown Equipment
Containment Cooling Service Water Pumps and Motors (4)	Control Rod Drive Water Pumps, Motors (2)
Containment Cooling Service Water Room Air Coolers (4)	CRD valves 2-0301-2A, 2-0301-2B
Division I Cable Trays	TBCCW valves 2-3899-204, 2-3899-205
	Service Water Valves 2-3999-348, 2-3999-349, 2-3999-358, 2-3999-357, 2-3999-360, 2-3999-361

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 18" Reinforced concrete with exposed structural steel

9.2 Wall:

a. North: Reinforced concrete
b. South: 48" Reinforced concrete with exposed structural steel
c. East: 48" Reinforced concrete
d. West: 48" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-0"
Fire Zone 8.2.5.B
Low Pressure Heater Bays
(North Turbine cavity)

2.0 ACCESS

Primary: From door in Unit 2 Shield Wall near MCC 25-2, el. 517', Rad key needed to access these areas

Secondary: From door in Shield Wall near Unit 2 EHC, el. 517' Rad key needed to access these areas

3.0 HAZARDS

Fire: Cable Insulation

Electrical: LP Heaters (3)
Main Condenser

Other: High Radiation Area

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System

1 - Hose Reel in adjacent area
3 - CO_2 Portable Extinguishers in adjacent areas

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Shield Wall el. 517'-6"
- Check System Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1 1/2" hose line
- Caution: De-energize Equipment
- Search Area for victims
- Ventilate
- Overhaul
- Positive Person at Control Valve
- Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke thru door in Shield Wall near Unit 2 EHC el. 517'

7.0 EXPOSURES

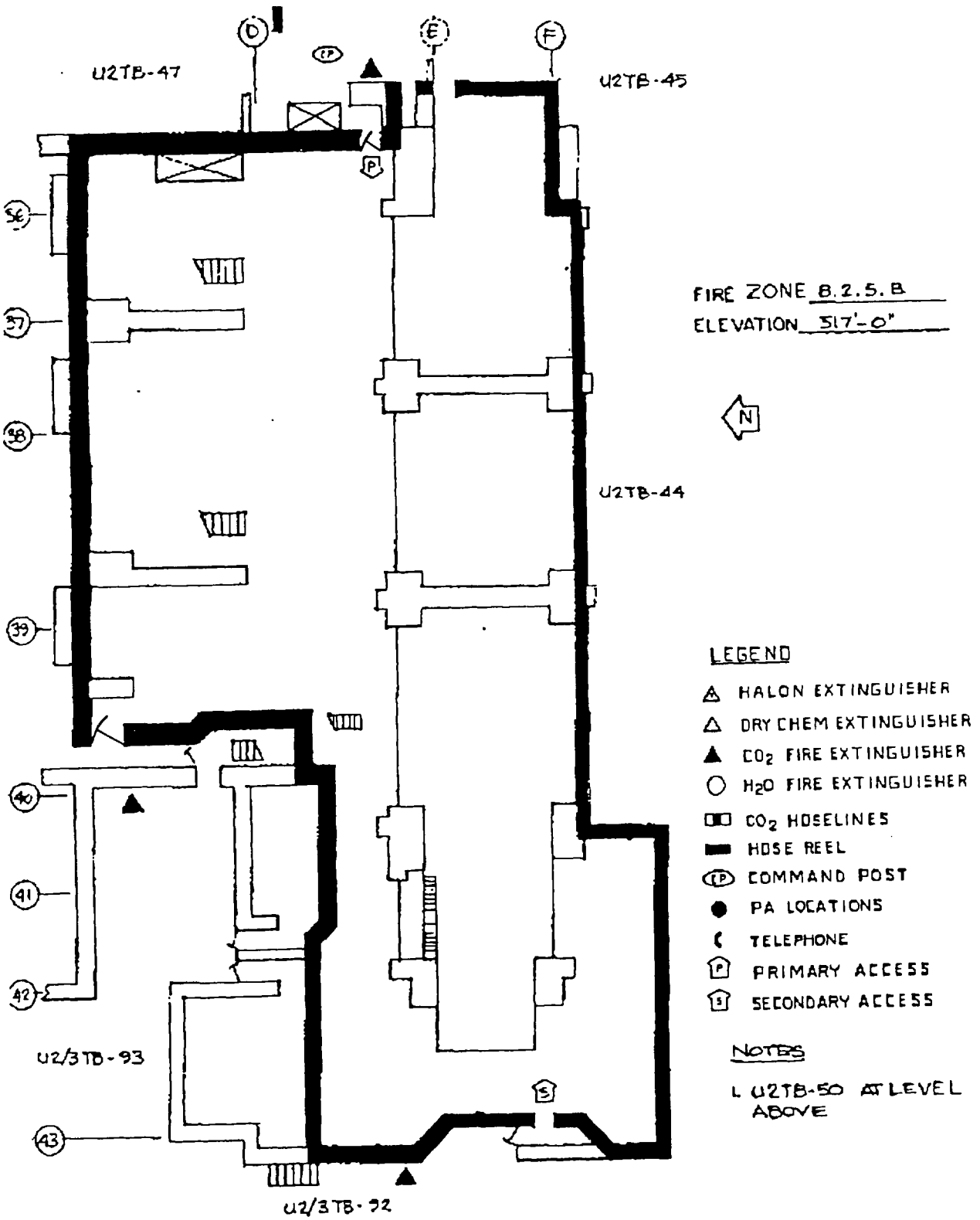
Divisions I and II Cable Trays

8.0 COMMUNICATIONS

Portable Radios

9.0 CONSTRUCTION

All Sides - Concrete
East Wall 3 Hour Rated along exterior portion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FIRE ZONE 8.2.5.B
ELEVATION 517'-0"
N
LEGEND
HALON EXTINGUISHER
DRY CHEM EXTINGUISHER
CO_2 FIRE EXTINGUISHER
H_2O FIRE EXTINGUISHER
CO_2 HOSELINES
HOSE REEL
COMMAND POST
PA LOCATIONS
TELEPHONE
PRIMARY ACCESS
SECONDARY ACCESS
NOTES
1. U2TB-50 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-0"
Fire Zone 8.2.5.B
Low Pressure Heater Bays (North Turbine cavity)

2.0 Access:

2.1 Primary: From Door in Unit 2 Shield Wall near MCC 25-2, el. 517'. Rad key needed to access these areas

2.2 Secondary: From Door in Shield Wall near Unit 2 EHC, el. 517'. Rad key needed to access these areas

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical Cables	Cable insulation	A-C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
L.P. Heaters	(3) 2C1-3104 2C2-31O4 2C3-3104		
Condenser - 3403	2 - 3301 Low Pressure Feed Water By Pass Valve	J1	480V MCC 25-2
2-4404	Condenser WRT Box Vacuum Pump	F8	MCC 25-2
2B1	L.P. Feed Htr. 2B1 Extraction Steam Valve	G1	480V MCC 25-2
2B2	L.P. Feed Htr. 2B1 Extraction Steam Valve	G2	480V MCC 25-2
2B3	L.P. Feed Htr. 2B1 Extraction Steam Valve	G3	480V MCC 25-2

Component Number	Component Description	Circuit Breaker	Power Supply
2C1	L.P. Feed Htr. Extraction Steam Valve	G4	480V MCC 25-2
2C2	L.P. Feed Htr. Extraction Steam Valve	H1	480V MCC 25-2
2C3	L.P. Feed Htr. Extraction Steam Valve	H2	480V MCC 25-2
2-3401A	L.P. Heater Line 1 Inlet Isolation Valve	B1	480V MCC 25-2
2-3402A	L.P. Heater Line 1 Inlet Isolation Valve	C1	480V MCC 25-2
2-3401B	L.P. Heater Line 2 Inlet Isolation Valve	B2	480V MCC 25-2
2-3402B	L.P. Heater Line 2 Inlet Isolation Valve	C2	480V MCC 25-2
2-3401C	L.P. Heater Line 3 Valve	B3	480V MCC 25-2
2-3402C	Inlet Isolation Valve	C3	480V MCC 25-2

3.3 Hazardous Substances: Radioactive Equipment (High Radiation Area)

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe System throughout area, except over Main Condenser Pit. Isolation valve 2-4109-508 located El 534' southeast of TBCCW Hxs.

4.3 Hose Reels: 1 - Hose Reel located in adjacent area

4.4 Portable Extinguishers: 3 - CO_2 located in adjacent areas

5.0 Guidelines for Fire Attack:

- Establish Command post near door in Shield Wall near MCC 25-2 el. 517'
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers, if sprinklers have not activated,

backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listings).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0 or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valves located on 534' el. at S. end of TBCCW Heat Exchangers for N. Turbine Bay and at 561' el. by MG set for S. Turbine Bay.
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per Tech Spec DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary, have control room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke thru door of Shield Wall Unit 2 near EHC el. 517'

7.0 Exposures: Divisions I and II Cable Trays

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: None

9.0 Construction:

9.1 Floor: 18' Reinforced concrete on exposed structural steel

9.2 Walls:

a. North: 30" Reinforced concrete
b. South: 12" Reinforced concrete with exposed structural steel
c. East: 36" Reinforced concrete, 3 hour rated along exterior portion
d. West: 48" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete on exposed structural steel

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.C
Oil Storage

2.0 ACCESS

Primary: From door near stairs leading to CCSW Area, el. 517'-6"
Unit 2 Turbine Bldg.

Secondary: None

3.0 HAZARDS

Fire: Lubricating Oil

Electrical: None

Other: None

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System
2 - CO_2 Portable Extinguisher
(one located in adjacent area)
1 - Dry Chemical Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near door entrance
- Check Suppression System Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1 1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul
- Provide fire watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Exhaust Smoke through door into common area el. 517' to and up stairs west of the Equipment Elevator

7.0 EXPOSURES

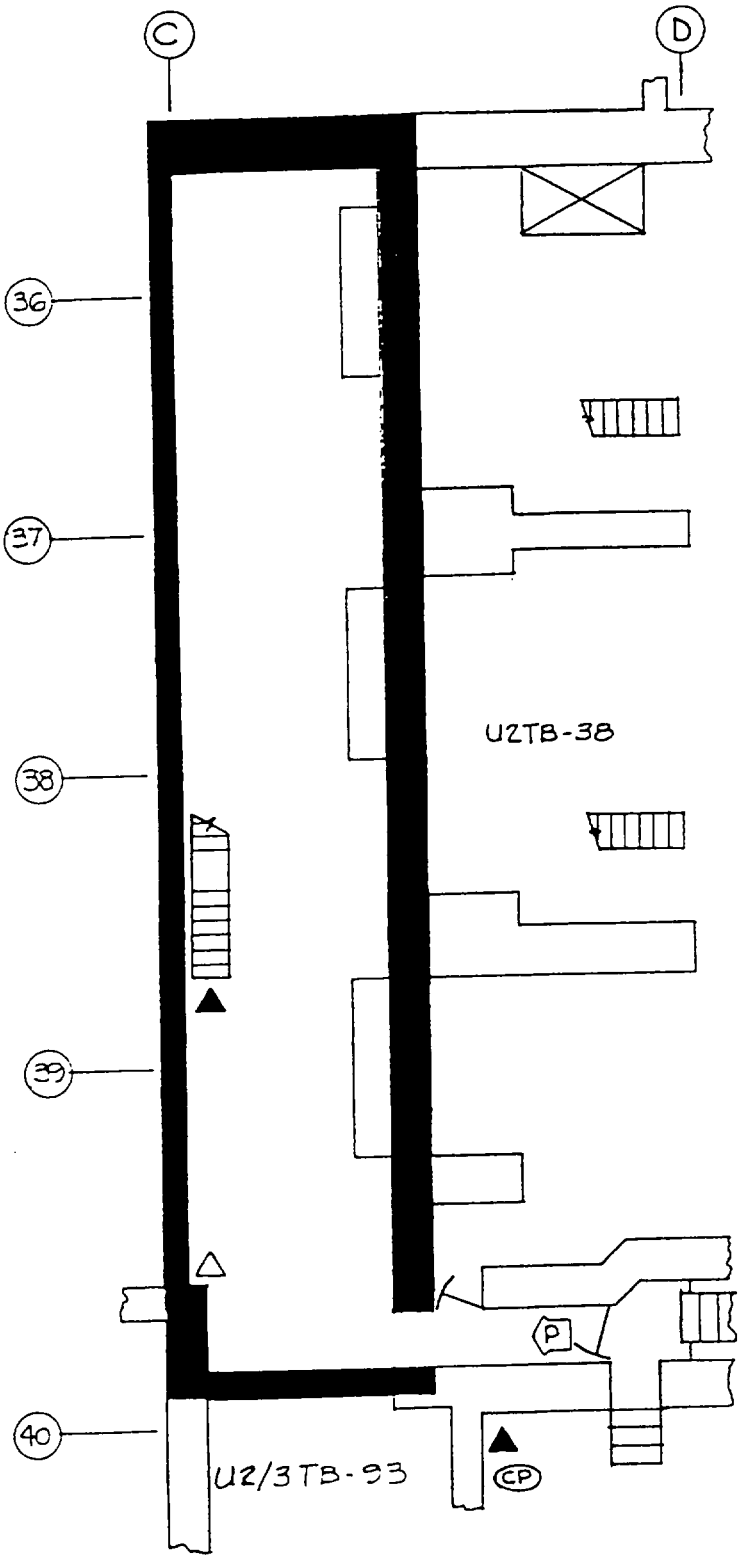
None

8.0 COMMUNICATIONS

Portable Radios

9.0 CONSTRUCTION

All Sides - Concrete



FIRE AREA 8.2.5.C
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM. EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2TB-54 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.C
Oil Storage

2.0 Access:

2.1 Primary: From door near stairs leading to CCSW Area, Unit 2 Turbine Bldg., el. 517'-6"

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Oil barrels	Lubricating oil	B

3.2 Electrical: None

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler System Isolation Valve 2-4199-157 located at El. 517' East Wall.

4.3 Hose Reels: None

4.4 Portable Extinguishers: 2 - CO_2 (one located in adjacent area)
1 - Dry Chemical

5.0 Guidelines for Fire Attack:

- Establish command post near door entrance el. 517'-6"
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers, if sprinklers have not activated, backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located at 517' el. in SE corner of room.
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs
  (Note: Prevent fire from spreading into Hallways of Fire Zones 8.2.5.A and 8.2.5.E)

6.0 Ventilation:

6.1 Fixed: As necessary, have control room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke thru door into the common area el. 517' to and upstairs just west of Equipment Elevator.

7.0 Exposures: None

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: None

9.0 Construction:

9.1 Floor: Concrete

9.2 Wall:

a. North: 18" Reinforced concrete and concrete block - exterior portion 3 hour rated
b. South: 30" Reinforced concrete and concrete block
c. East: 48" Reinforced concrete, 3-hour rated
d. West: 24" Reinforced concrete block

9.3 Ceiling: 18" Reinforced concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.1
Clean and Dirty Oil Room

2.0 ACCESS

Primary: From doorway at el. 517'-6" on north side of room

Secondary: From doorway at el. 517'-6" on west side of Oil Room

3.0 HAZARDS

Fire: Lubricating Oil
Polyethylene

Electrical: See 3.2

Other: None

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers

1 – Hose Cabinet (outside room)
1 - CO_2 Portable Extinguishers, (outside room)
2 - Fire Carts (outside room)

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in hallway near condensate makeup pumps
- Check suppression system support
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for Victims
- Caution: De-energize equipment
- Ventilate
- Overhaul - Provide a fire watch
- CAUTION: Combustible gap materials

6.0 VENTILATION

Fixed: Use room exhaust fan

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to the doorway into the hallway of Unit 2 Turbine Building, el. 517'

Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure

7.0 EXPOSURES

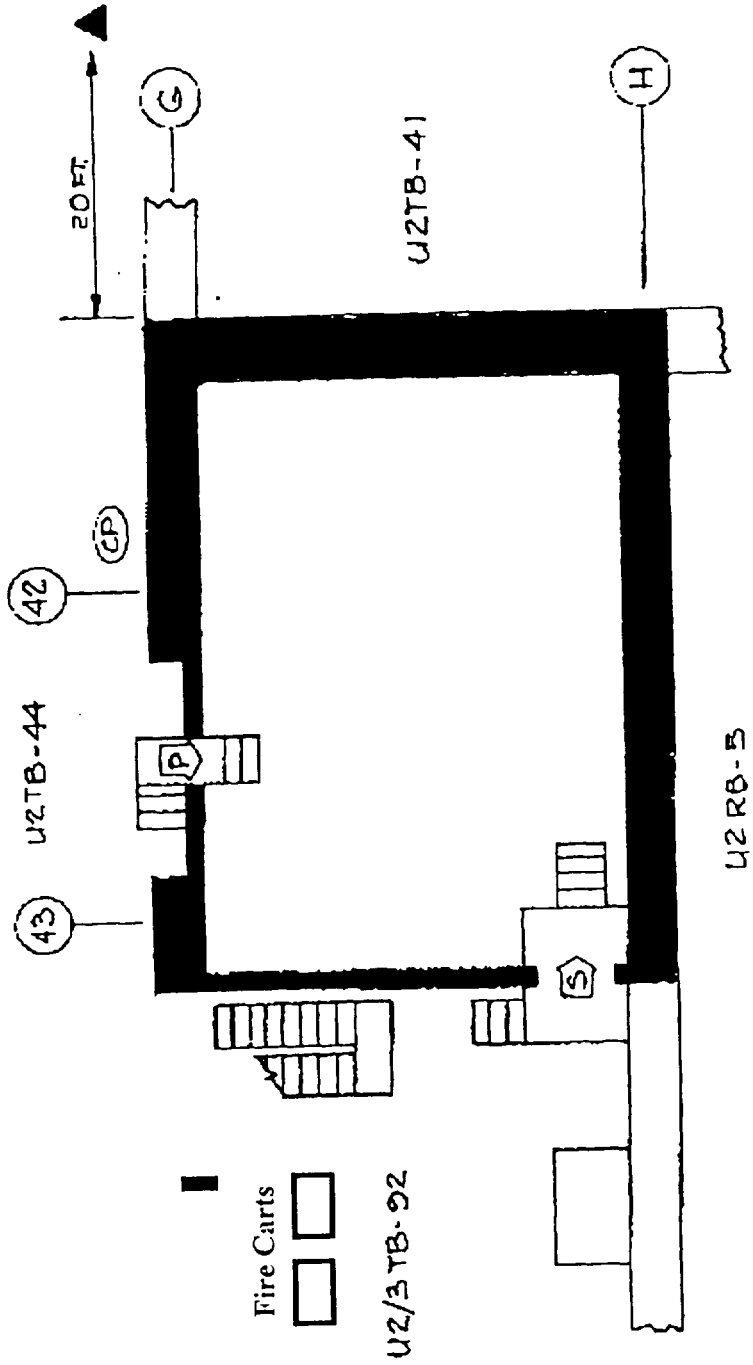
None

8.0 COMMUNICATIONS

Portable Radios

9.0 CONSTRUCTION

All sides reinforced concrete - 3 hour



FIRE ZONE 8.1
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

NOTES

1. U2TB-50 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.1
Clean and Dirty Oil Room

2.0 Access:

2.1 Primary: From doorway on north side of Oil Room, el. 517'

2.2 Secondary: From doorway on west side of room, el. 517'

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Oil tanks	Lubricating oil	B
-	Polyethylene	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2/3 A-5103	Turb. Oil Transfer Pump	C1	480V MCC 25-1
2/3 B-5103	Turb. Oil Transfer Pump	C3	480V MCC 26-1
	Oil Tank Exhaust Fan	B2	480V MCC 26-1
	Receptacle in Oil Room Turbine Oil Purifier	D2	480V MCC 35-1

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler Isolation Valve 2-4118-500 located outside North wall.

4.3 Hose Reels: 1 - Hose Cabinet located outside room

4.4 Portable Extinguishers: 1 - CO_2 (outside room)
2 - Fire Carts with Dry Chemical Extinguishers located outside room

5.0 Guidelines for Fire Attack:

- Establish command post in hallway near condensate makeup pumps.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (See Section 3.2 for electrical component listings)
- Caution should be used in applying water to avoid electric shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located at the entrance to the room.
- Provide an hourly fire inspection until fire suppression system is returned to service.
- CAUTION: This area contains combustible materials at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

6.0 Ventilation:

6.1 Fixed: Utilize room exhaust fan as needed to remove smoke.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke out door into hallway of Unit 2 Turbine Bldg.

6.3 Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 Exposures: None

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: None

9.0 Construction:

9.1 Floor: 8" concrete finish, over a 28" reinforced concrete slab, 3-hour rated

9.2 Wall:

a. North: 12" Concrete block, 3-hour rated
b. South: 48" Reinforced concrete, 3-hour rated
c. East: 60" Reinforced concrete, 3-hour rated
d. West: 12" Concrete Block, 3-hour rated

9.3 Ceiling: 48" Reinforced concrete slab, 3-hour rated

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.A.
H.P. Heaters/Steam Lines

2.0 ACCESS

Primary: From door adjacent to Unit 2, Hallway el. 517' Rad key needed to access area

Secondary: None

3.0 HAZARDS

Fire: Cable Insulation
External HVAC Duct Insulation

Electrical: See 3.2

Other: Radioactive (Steam)
One means of egress

4.0 FIRE PROTECTION EQUIPMENT

Supression: Wet pipe system over hot heaters.
1 - Hose Reel outside room
1 - CO_2 Portable Extinguisher outside room

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Reactor Feed Pumps
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use portable smoke ejectors and flexible ducting to exhaust smoke through door adjacent to Unit 2 Hallway el. 517'

7.0 EXPOSURES

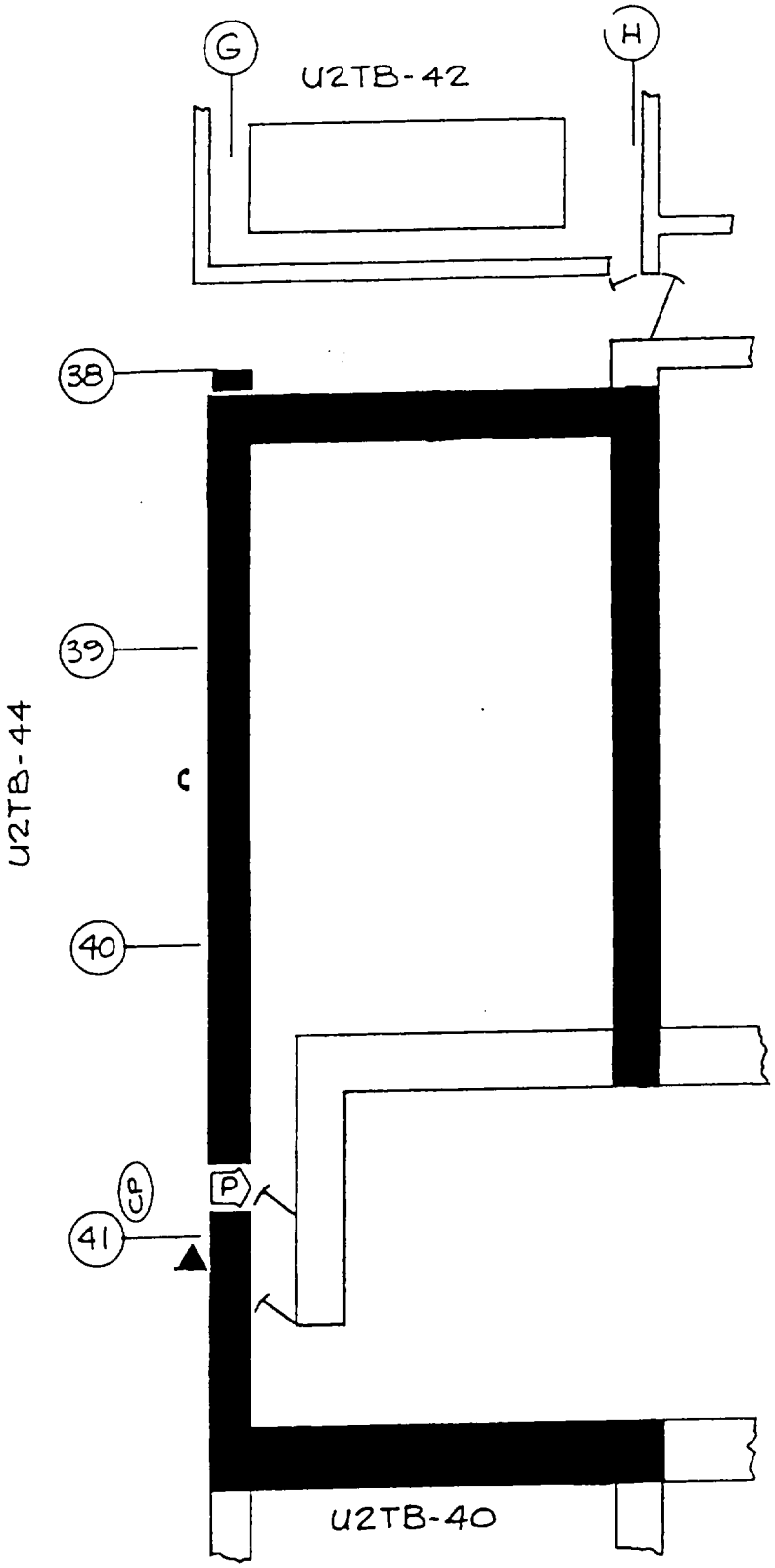
Divisions I and II Cable Trays

8.0 COMMUNICATIONS

1 Extension Phone nearby
Portable Radios

9.0 CONSTRUCTION

Concrete all sides
South and West walls - 3-hour rated



FIRE AREA 8.2.5.A
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISHER
- CO_2 FIRE EXTINGUISHER
- H_2O FIRE EXTINGUISHER
- CO_2 HOSELINES
- HOSE REEL
- CP COMMAND POST
- PA LOCATIONS
- TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U2TB-50 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.A
H.P. Heaters - Steam Lines

2.0 Access:

2.1 Primary: From door adjacent to Unit 2 Hallway el. 517'. 'R-2' Key may be required for entry.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Electrical Cables	Cable insulation	A,C
Ventilation System	External duct insulation	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
220-90A,B,C,D	Main Steam Line Drain Valves	A2	MCC 28-2
?	H.P. Heaters (3)	?	?
2-3202-A	High Pressure Feedwater Heater 2D1 Inlet Valve	D1	MCC 26-1
2-3202-B	High Pressure Feedwater Heater 2D2 Inlet Valve	D2	MCC 26-1
2-3202-C	High Pressure Feedwater Heater 2D3 Inlet Valve	D3	MCC 26-1
2-3204-A	High Pressure Feedwater 2D1 Outlet Valve	E1	MCC 26-1
2-3204-8	High Pressure Feedwater 2D2 Outlet Valve	E2	MCC 26-1
2-3204-C	High Pressure Feedwater 2D3 Outlet Valve	E3	MCC 26-1

Component Number	Component Description	Circuit Breaker	Power Supply
2-3205A	Rx Feedwater Inlet Valve 2A	H1	MCC 26-1
2-3205B	Rx Feedwater Inlet Valve 2B	H2	MCC 26-1
3103A	HP Feed Htr. 201 Extraction Steam Valve	E4	MCC 26-1
3103B	HP Feed Htr. 2D2 Extraction Steam Valve	F1	MCC 26-1
31O3C	HP Feed Htr. 2D3 Extraction Steam Valve	F2	MCC 26-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress; entrapment possible.

4.0 Fire Protection Equipment

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe System over the H.P. Heaters Isolation valve 2-4109-507 located on El. 561' by 2A MG set.

4.3 Hose Reels: 1 - Hose Reel located in adjacent area.

4.4 Portable Extinguishers: 1 - $C0_2$ outside entrance door at Col. G-41

5.0 Guidelines for Fire Attack:

- Establish command post in Hallway, Unit 2 near Reactor Feed Pumps el. 517'-6".
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2 for electrical component listing).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to door adjacent to Unit 2 Hallway, el. 517'.

7.0 Exposures: Division I and II Cable Trays

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone in adjacent area

9.0 Construction:

9.1 Floor: Reinforced concrete, 3-hour rated above Torus area.

9.2 Wall:

a. North: 12" Reinforced concrete
b. South: 12" Reinforced concrete, 3-hour rated
c. East: 12" Concrete
d. West: 36" Concrete, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete supported on exposed Structural Steel

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.A.
Reactor Feed Pumps

2.0 ACCESS

Primary: From door adjacent to Hallway of Unit 2 Turbine Bldg., el. 517'

Secondary: From door just inside Unit 2 Turbine Bldg., Airlock, el. 517'

3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Ext. HVAC Duct Insulation

Electrical: See 3.2

Other: Radioactive Feed Pumps CO_2 suppression system in adjacent diesel generator room

4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System
1 - Hose Cabinet outside room
1 - Hose Reel outside room
1 - CO_2 1" - 150'-0" Hose Reel outside room
1 - CO_2 Portable Extinguishers (G-35)
1 - Dry Chemical Portable Extinguisher outside room

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in Trackway
- Check Sprinkler Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2 hose line
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul
- Provide a Fire Watch

6.0 VENTILATION

Fixed: Operation of HVAC by Control Roo as needed.

Manual: Use portable smoke ejectors and flexible ducting to exhaust smoke out door into Unit 2 Hallway

7.0 EXPOSURES

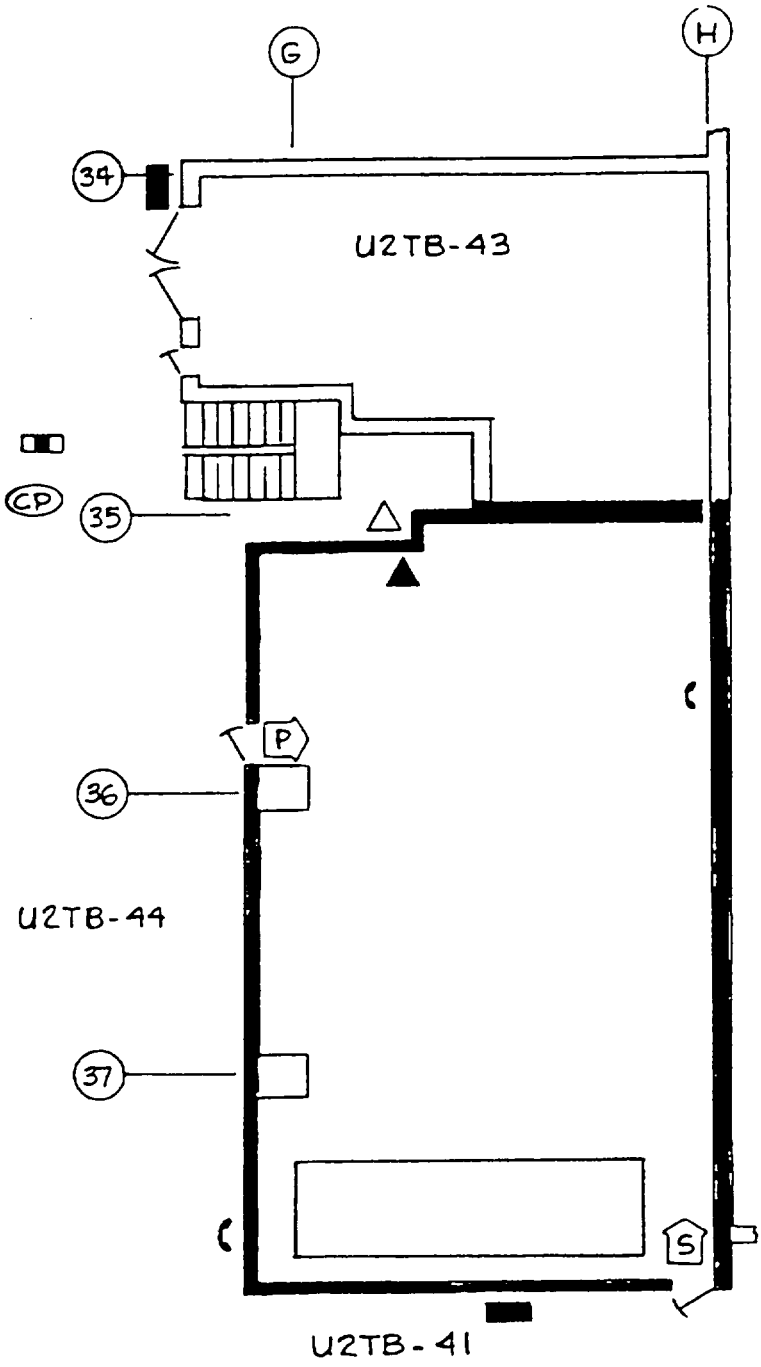
Divisions II Cable Trays

8.0 COMMUNICATIONS

2 Extension Phones (1 in adjacent area)
Portable Radios

9.0 CONSTRUCTION

North, East, West Walls - Steel (Sound Barrier Construction)
South wall - Concrete (3 hour rated)
Ceiling/Floor - Concrete



FIRE AREA 8.2.5.A
ELEVATION 517'-6"

N

LEGEND

- HALON EXTINGUISHER
- DRY CHEM EXTINGUISER
- CO_2 FIRE EXTINGUISER
- H_2O FIRE EXTINGUISER
- CO_2 HOSELINES
- HOSE REEL
- COMMAND POST
- PA LOCATIONS
- TELEPHONE
- PRIMARY ACCESS
- SECONDARY ACCESS

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.A
Reactor Feed Pumps

2.0 Access:

2.1 Primary: From door adjacent to Unit 2 Turbine Bldg. Hallway, el. 517'.

2.2 Secondary: From door just inside Unit 2 Turbine Bldg. Airlock, el. 517'.

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Pumps	Lubricating oil	B
Electrical Cables	Cable insulation	A,C

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2A-3201	Reactor Feed Pumps	2103	SWGR 21
2B-3201	Reactor Feed Pumps	2202	SWGR 22
2C-3201	Reactor Feed Pumps	2203	SWGR 21
2C-3201	Reactor Feed Pumps	2102	SWGR 22
2A	Rx Feed Pump Auxiliary Oil Pump	A1	480V MCC 25-2
2B	Rx Feed Pump Auxiliary Oil Pump	C4	480V MCC 26-1
2C	Rx Feed Pump Auxiliary Oil Pump	C5	480V MCC 26-1
3201A	Rx Feed Pump Discharge Valve 2A	F3	MCC 26-1
3201B	Rx Feed Pump Discharge Valve 2B	F4	MCC 26-1
3201C	Rx Feed Pump Discharge Valve 2C	A2	MCC 26-1

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: CO_2 Suppression system in adjacent Unit 2 diesel generator room.

4.0 Fire Protection Equipment

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe System Isolation Valve 2-4199-195 located inside area.

4.3 Hose Reels: 1 -Hose Cabinet located in adjacent area.
1 -Hose Reel located in adjacent area.
1 -CO_2 1" - 150'-0" Hose Reel located in adjacent area.

4.4 Portable Extinguishers: 1 - CO_2 at Col G-35
1 - Dry Chemical located in adjacent area.

5.0 Guidelines for Fire Attack:

- Establish command post in Trackway
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2 for electrical component listing).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located on 517' el. at Col. 37G, between pumps 2B and 2C.
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs.

6.0 Ventilation:

6.1 Fixed: As necessary, have Control Room shut down HVAC to prevent spreading smoke or change HVAC to smoke exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke outdoor into Unit 2 Hallway el. 517'.

7.0 Exposures: Division II Cable Trays.

8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones (1 located in adjacent area)

9.0 Construction:

9.1 Floor: Concrete

9.2 Wall:

a. North: Steel (Sound Barrier Construction)
b. South: Concrete
c. East: Steel (Sound Barrier Construction)/Concrete, 3-hour rated along DG Room
d. West: Steel (Sound Barrier Construction)

9.3 Ceiling: Concrete

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

SPECIAL NOTE:

Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Diesel Generator Room, the fire fighting effort should be suspended and access fire door closed.

1.0 LOCATION

Unit 2 Turbine Bldg.
Elevation 517'-6"
Fire Zone 9.0.A
Diesel Generator

2.0 ACCESS

Primary: From door of Unit 2 Turbine Bldg. Diesel Generator Room, el. 517', 'DS' Key needed for entry

Secondary: None

3.0 HAZARDS

Fire: Lubricating & Diesel Fuel Oils
Cable Insulation
HVAC Flexible Connection
Polyethylene
Polyurethane

Electrical: See 3.2

Other: Transformer containing PCB. One means of egress. CO_2 suppression system.

4.0 FIRE PROTECTION EQUIPMENT

Detection: Thermal
Suppression: CO_2 and Wet Pipe(Day Tank)
1 - Hose Reel
1 - CO_2 1 - 150'-0" Hose Reel
1 - Dry Chemical
Portable Extinguisher

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post outside Unit 2 Generator Room el. 517'-6:
- Check Sprinkler System Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for Victims
- Caution: De-energize Equipment
- Ventilate - Overhaul
- Provide Fire Watch
- CAUTION: Combustible gap material

6.0 VENTILATION

Fixed: Control of Diesel Room exhaust fan from local switch Panel under MEZZ

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke thru door of Generator Room el. 517'-6" into U-2 Trackway area

Fire Dampers: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure

7.0 EXPOSURES

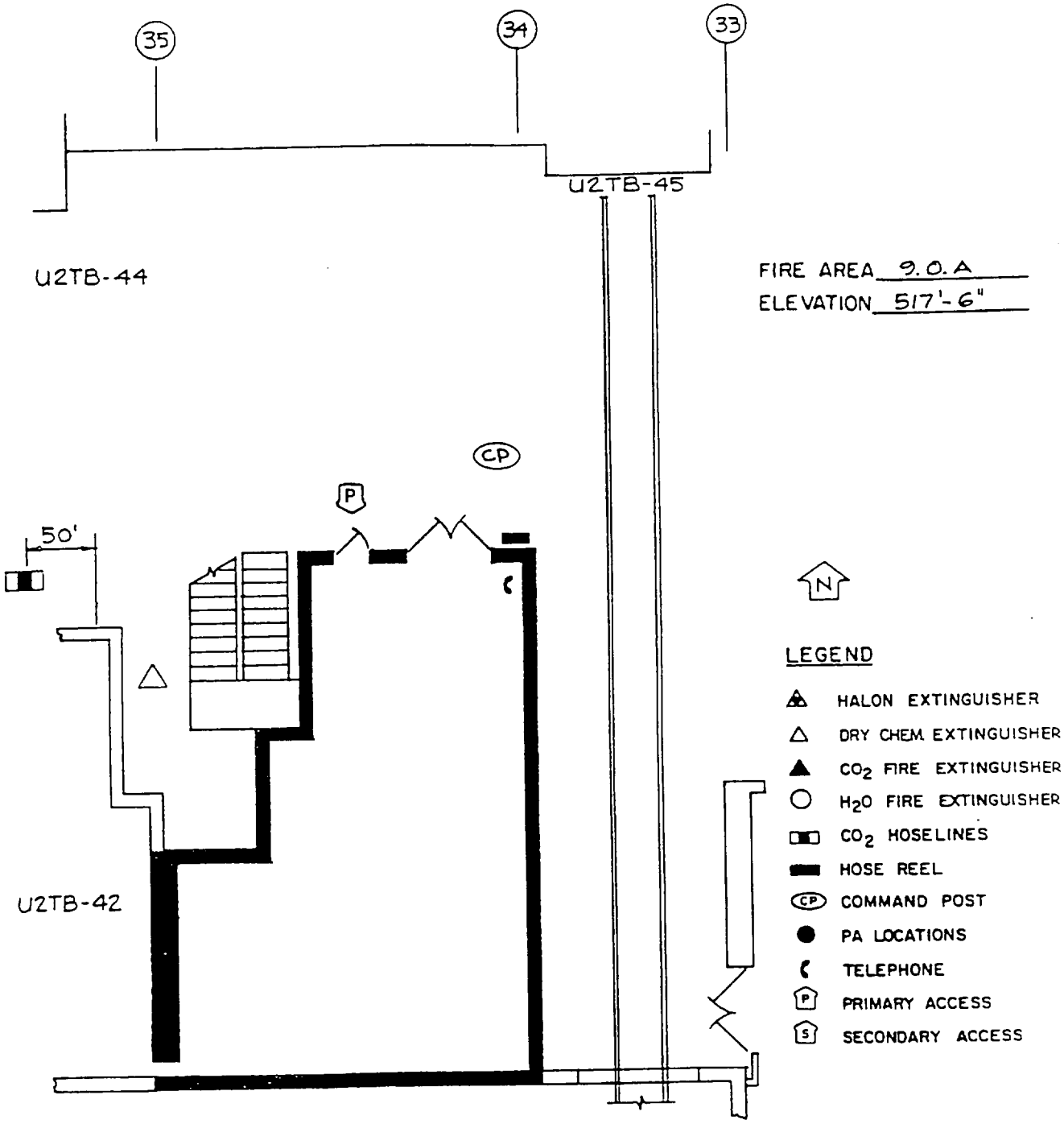
Safety-Related Equipment (see 7.0)

8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

9.0 CONSTRUCTION

Concrete All Sides - 3-hour rated Ceiling concrete on protected structural steel


35
34
33
U2TB-45
U2TB-44
FIRE AREA 9.0.A
ELEVATION 517'-6"
CP
P
50'
N
U2TB-42
LEGEND
HALON EXTINGUISHER
DRY CHEM. EXTINGUISHER
CO_2 FIRE EXTINGUISHER
H_2O FIRE EXTINGUISHER
CO_2 HOSELINES
HOSE REEL
COMMAND POST
PA LOCATIONS
TELEPHONE
PRIMARY ACCESS
SECONDARY ACCESS

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

1.0 Location: Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone 9.0.A
Diesel Generator

2.0 Access:

2.1 Primary: From door of Unit 2 Turbine Bldg. Diesel Generator Room, el. 517'-6", 'DS' Key needed for entry.

2.2 Secondary: None

3.0 Hazards:

3.1 Fire:

Hazard	Material	Class
Diesel generator	Lubricating oil	B
Day tank	Fuel oil	B
Panels	Cable insulation	A,C
-	Polyurethane	A
-	Polyethylene	A
Ventilation system	Flexible connections	A

3.2 Electrical:

Component Number	Component Description	Circuit Breaker	Power Supply
2	2500 KW Stand-by Generator Transfer Pump		
2/3A-43O3	Clean Demin Water Pump	H3	MCC 25-2
2/3B-4303	Clean Demin Water Pump	J4	MCC 25-2
2-5203	Diesel Fuel Oil Transfer Pump	B2	MCC 29-2
2-5790	Diesel Generator Room Vent Fan	D5	MCC 29-2
2A	Diesel Starting Air Compressors	E3	MCC 28-2

Component Number	Component Description	Circuit Breaker	Power Supply
2B	Diesel Starting Air Compressors	A3	MCC 29-2
2	Diesel Circ. Water Heater 2	A2	MCC 28-3

3.3 Hazardous Substances: Diesel Neutral Transformer Containing PCB

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress provided. CO_2 suppression system. Generator neutral ground transformer contains PCB.

4.0 Fire Protection Equipment:

4.1 Detection: Thermal Detection

4.2 Automatic Suppression: CO_2 throughout fire zone including over Day Tank
Wet pipe over Day Tank Isolation Valve 2-4119C-500 located in Reactor Feed Pump Room.

4.3 Hose Reels: 1 - Hose Cabinet (outside of room)
1 - CO_2 1 - 150'-0" Hose Reel (outside of room)

4.4 Portable Extinguishers: 1 - Dry Chemical (outside of room)

5.0 Guidelines for Fire Attack:

- Establish command post outside Unit 2 Generator Room el. 517'.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 1-1/2" hose line.
- Search entire area for possible victims.
- De-energize electrical equipment if possible (see Section 3.2 for Electrical Component Listings).
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.0 or place portable smoke ejectors at personnel doors.
- Overhaul entire fire area; check for extension.
- Position one person with a portable radio at sprinkler system control valve located at 517' el. at U-2 R.F.P. Area by Col. 36G.

- Provide a fire watch until fire detection and suppression systems are returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.
- SPECIAL NOTE: Safe shutdown components are located within 20' of Primary access point. If fire has the potential of spreading outside of the Diesel Generator Room, the fire fighting effort should be suspended and access fire door closed.

6.0 Ventilation:

6.1 Fixed: Local control of Diesel Room Exhaust Fan from Panel under Mezzanine

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke through door of Generator Room el. 517'-6" into U-2 Trackway area.

6.3 Fire Damper: Fire Dampers may not close against air flow therefore, shut down the ventilation system to ensure closure.

7.0 Exposures: **Safety-Related Equipment**

- 2500 KW standby Unit 2 Diesel
- Supply Fan
- Air Receiver
- Diesel Fuel Oil Transfer Pump
- 750 gallon Diesel Fuel Oil Day Tank
- Diesel Generator Vent Fan

8.0 Communications:

8.1 Portable radios: OK To Use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone

9.0 Construction:

9.1 Floor: 18" Reinforced concrete on grade Structural Steel

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: 12" Reinforced concrete, 3-hour rated
c. East: 12" Reinforced concrete, 3-hour rated
d. West: 12" Reinforced concrete, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete on protected Structural Steel

Penetrations: 3-hour rated except for unsealed mechanical penetrations (DG exhaust and intake)

COMMONWEALTH EDISON CO.
Dresden Units 2/3
Pre-plan Summary

1.0 LOCATION

Unit 2 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.A
Condensate Transfer Pumps/Hallway

2.0 ACCESS

Primary: From U-2 Turbine Bldg. Trackway area, el. 517'

Secondary: From U-3 Turbine Bldg. hallway, el. 517'

3.0 HAZARDS

Fire: Cable Insulation, Cloth, Rubber
Lubricating Oil

Electrical: See 3.2

Other: CO_2 suppression system in adjacent diesel generator room

4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Wet Pipe Sprinklers
1 - Fire Hose Reel
1 - Fire Hose Cabinet
1 - CO_2 Hose Reel
1 - CO_2 Portable Extinguisher
1- Dry Chemical Portable Extinguishers

5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Trackway
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul

6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors to exhaust smoke thru doorway opening into the RR Trackway Area Unit 2, el. 517'

7.0 EXPOSURES

Div. I and II Cable Trays
Condensate Transfer Pumps
Condenser Makeup Pump
MCC 26-1

8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

9.0 CONSTRUCTION

Ceiling/Floor - Reinforced concrete on Exposed Structural Steel
North/South - Reinforced concrete (part of south 3-hour rated)
East/West - Open