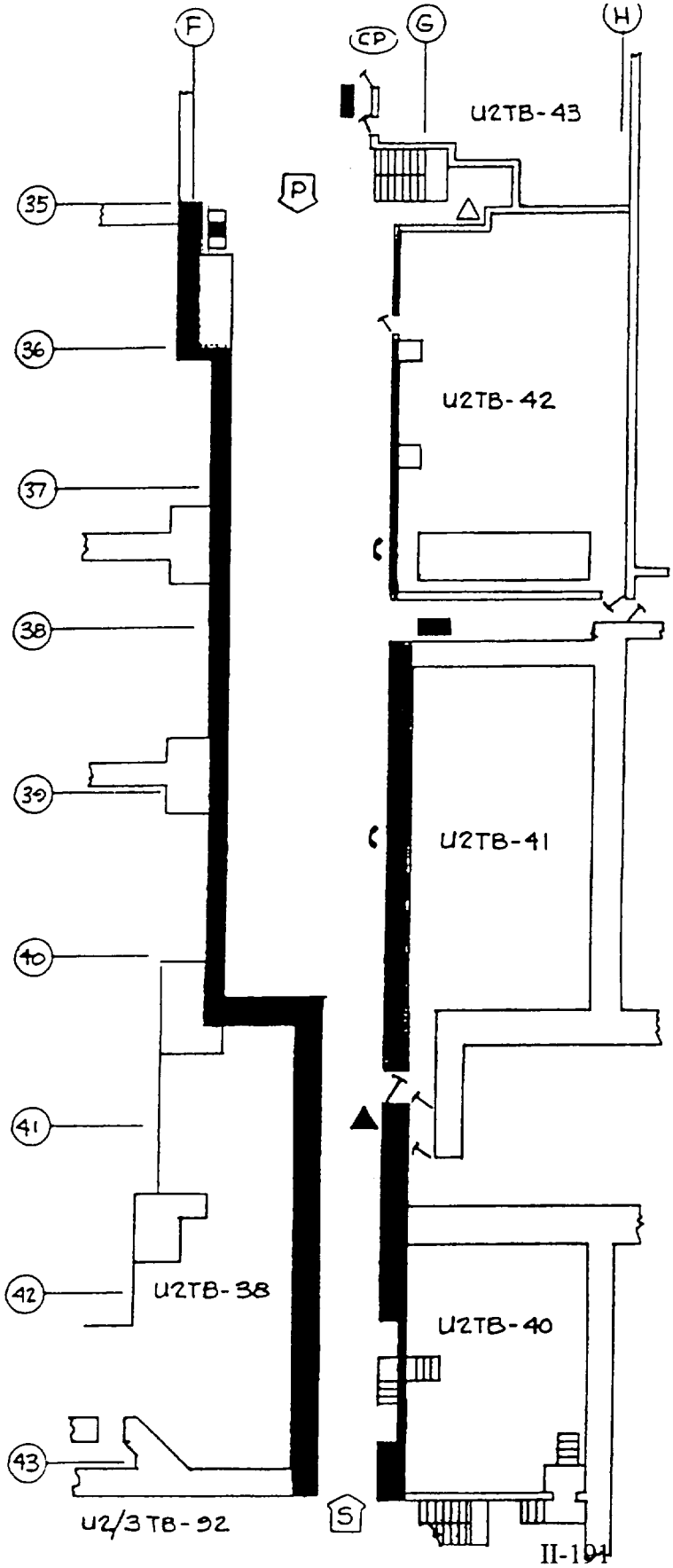



FIRE AREA 8.2.5.A
ELEVATION 517'-6"

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-48 AND 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
Cond. Transfer Pumps/Hallway

**2.0 Access:**

2.1 Primary: From Unit-2 Turbine Building Trackway Area, el. 517'

2.2 Secondary: From Unit-3 Turbine Building Hallway, el. 517

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Pumps | Lubricating Oil | B |
| Panels, Electrical Cables | Cable Insulation | A,C |
| Clothing | Cloth | A |
| | Rubber | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A-43O1 | Cond. Tranf. Pumps | D5 | MCC 28-2 |
| 2B-4301 | Cond. Tranf. Pumps | A4 | MCC 29-2 |
| 2A-4320 | Cond. Make Up Pumps | G1 | MCC 26-1 |
| 2B-4320 | Cond. Make Up Pumps | G2 | MCC 26-1 |
| 2-4321 | Cond. Transf. Jockey Pump | B-1 | MCC 28-2 |
| 26-1 | MCC 26-1 | 264A | SWGR 26 |

3.3 Hazardous Substances: None

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: Ionization detectors

4.2 Automatic Suppression: Wet Pipe Sprinklers Isolation Valve 2-4199-175 located TB EL. 517'-6" at Column\Row 44/F

4.3 Hose Reels: 1 - Hose Cabinet
1 - $CO_2$ Hose Reel
1 - Hose Reel

4.4 Portable Extinguishers: 1 - $CO_2$
1 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post near exterior door at Trackway (SE corner of Unit 2 Turbine Bldg.)
- 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.
  (Note: Prevent Fire from spreading westward into Area 8.2.5.C)

## 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 into the RR Trackway area Unit 2, el. 517'

## 7.0 Exposures:

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

**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: Reinforced concrete on exposed structural steel

9.2 Wall:

a. North: Minimum 12" Reinforced concrete with exposed structural steel
b. South: Minimum 12" Reinforced concrete, concrete block (3 hour rated), steel
c. East: Open
d. West: Open

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.A.
Trackway

## 2.0 ACCESS

Primary: From walkway South of the Auxiliary Elect. Room, el. 517'-6"

Secondary: From U3 TB Hallway, el. 517'-6"

## 3.0 HAZARDS

Fire: Protective Clothing
Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: $CO_2$ suppression system in adjacent Unit 2 diesel generator room.
Halon Suppression and manual $CO_2$ in AEER

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization outside Unit 2 DG room

Suppression: Wet Pipe System

1 – Halon
2 - Hose Reels
1 - $CO_2$ 1" Hose Reel
2 – $CO_2$ Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in hallway from Admin. Support Bldg.
- Check Suppression 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 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 into the RR Trackway Area of Unit 2 el. 517'

Fire Dampers: Fire dampers in ducts leading to the AEER room and the Unit 2 diesel generator room may not close against air flow; therefore, shut down the ventilation system to ensure closure.

## 7.0 EXPOSURES

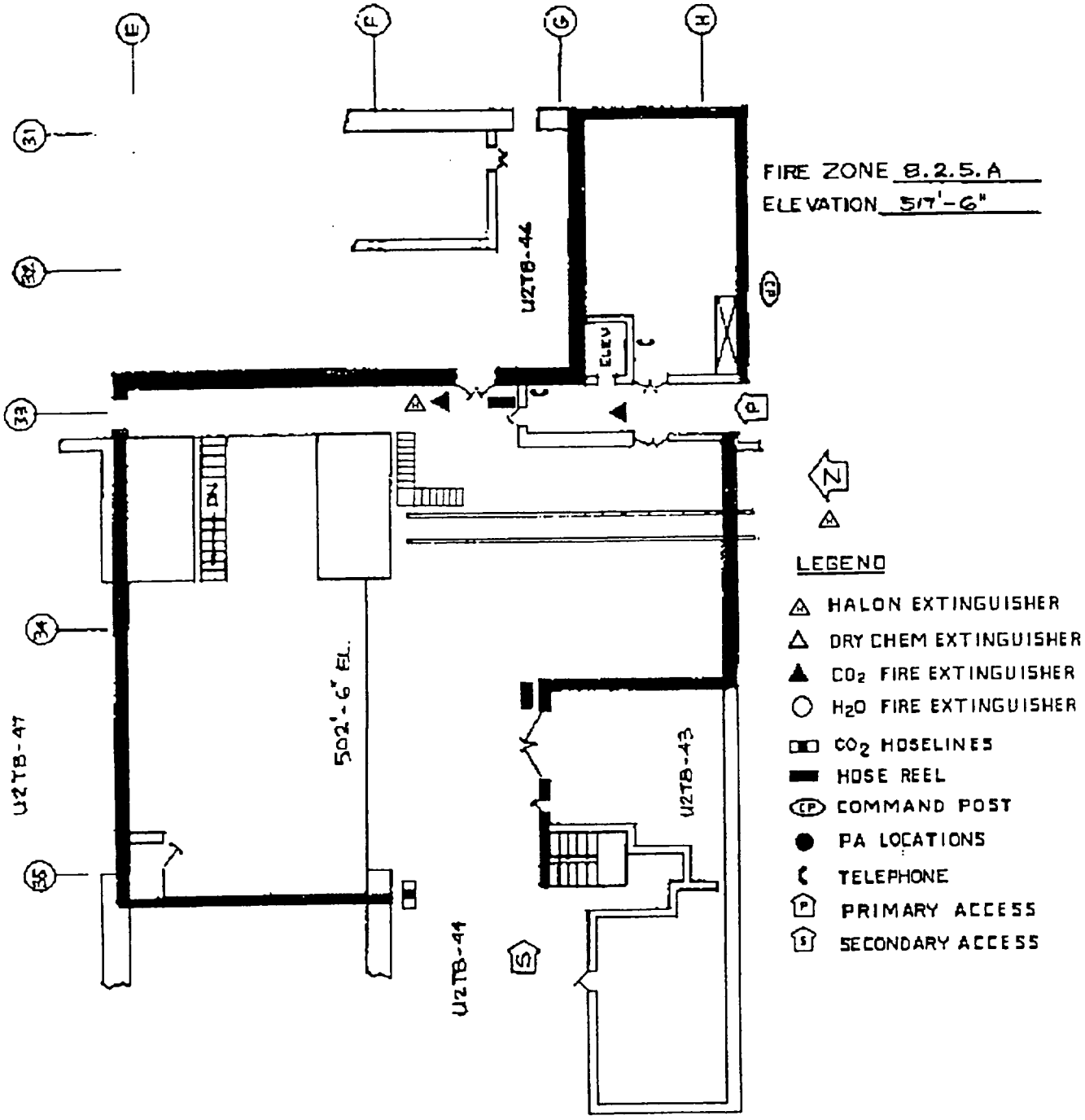
Cable Insulation

## 8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

## 9.0 CONSTRUCTION

Floor - Concrete
Ceiling - Concrete on Exposed Structural Steel
North - Open
South - Concrete
East - Concrete (3-hr for Aux. Elec. Equip Rm)
West Wall - Concrete (3-hour rated for DG Rm)


FIRE ZONE 8.2.5.A
ELEVATION 517'-6"
U2TB-44
ELEV
U2TB-47
502'-6" EL.
U2TB-43
U2TB-44
LEGEND
HALON EXTINGUISHER
DRY CHEM EXTINGUISHER
CO2 FIRE EXTINGUISHER
H2O FIRE EXTINGUISHER
CO2 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
Trackway

**2.0 Access:**

2.1 Primary: From walkway South of Aux. Elect. Room, el. 517'-6"

2.2 Secondary: From U3 TB hallway, el. 517'-6"

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Storage | Protective Clothing | A |
| Electrical Cables | Cable Insulation | A,C |
| Pumps | Lubricating Oil | B |
| | | $CO_2$/Halon page 1 |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| | Turbine Building Freight Door | A6 | 480V MCC 26-1 |
| | Make-Up Demin. Dilution Water Preheater | B1 | 480V MCC 26-1 |
| 2252-29 | Instr Rack | | |
| 2252-15 | Make-Up Demin. Instr Panel | | |
| 2A | Make-Up Demin Feed Pumps | G3 | 48OV MCC 26-1 |
| 2B | Make-Up Demin Feed Pumps | G4 | 480V MCC 26-1 |
| 2-5902 | Turbine Room Passenger Elevator | A4 | 48OV MCC 26-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2/3A-4306 | Alum. Pumps | | |
| 2/3B-43O6 | Alum. Pumps | | |
| 2/3A-4307 | Anthrafilt Filter | | |
| 2/3B-4307 | Anthrafilt Filter | | |
| 2/3A-4313 | Treated Wtr Booster Pump | C1 | 480V MCC 26-1 |
| 2/3B-4313 | Treated Wtr Booster Pump | C2 | 480V MCC 26-1 |
| 2/3A-4312 | DE Gasifier Blower | G5 | MCC 26-1 |
| 2/3B-4312 | DE Gasifier Blower | G6 | MCC 26-1 |
| 2/3B-4318 | Acid Pump | B3 | 48OV MCC 26-1 |
| 2/3A-4318 | Acid Pump | B4 | 480V MCC 26-1 |
| 2/3A-4319 | Caustic Pump | B5 | MCC 26-1 |
| 2/3B-4319 | Caustic Pump | B6 | MCC 26-1 |

3.3 Hazardous Substances: None

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: Ionization detectors outside Unit 2 DG room

4.2 Automatic Suppression: Wet Pipe Sprinkler Isolation Valve No. 2-4199-138 located in Unit 2 TB El. 538'. Isolation Valve No. 2-4199-137 for hallway north of Unit 2 TB trackway located by Unit 2 Air Compressor area.

4.3 Hose Reels: 1 - $CO_2$ 1" - 150'-0" Hose Reel
2- Hose Reel

4.4 Portable Extinguishers: 1 - Halon
2 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post in hallway from Admin. Support Bldg.
- 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 electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.2 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 534' el., S of Hatchway, approximately 20 overhead.
- 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 thru door into the RR Trackway area of Unit 2 el. 517'

6.3 Fire Dampers: Fire dampers in ducts leading to the AEER room and the Unit 2 diesel generator room may not close against airflow; therefore, shut down the ventilation system to ensure closure.

**7.0 Exposure:** 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

**9.0 Construction:**

9.1 Floor: Reinforced concrete

9.2 Wall:
- a. North: Open
- b. South: Minimum 18" reinforced concrete
- c. East: Concrete, 3-hour rated (Aux. Elec. Equip. Room)
- d. West: Minimum 18" reinforced concrete - 3 hour rated (DG Room)/Open

9.3 Ceiling: 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 - 6.2
Computer Room and Auxiliary Electrical Room

## 2.0 ACCESS

Primary: From door at West wall of Aux. Elect. Room, 'DS' Key needed for entry

Secondary: From door on North wall of Aux. Elect. Room, 'DS' Key needed for entry

## 3.0 HAZARDS

Fire: Cable Insulation
External HVAC Duct Insulation
Polyethylene

Electrical: See 3.2

Other: Halon and manual $CO_2$ supression systems

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Halon and manual $CO_2$

2 - Hose Reels outside room
9 - $CO_2$ Portable Extinguishers (4 located in adjacent area)
3 - Halon Portable Extinguisher (2 located in adjacent area)

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Trackway 517'-6"
- 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 Fire Watch
- CAUTION: Combustible gap material

## 6.0 VENTILATION

Fixed: Put East Turbine Bldg. vent system into purge mode by panel 2223-89 at U-2 SWGR area (23/24) (el. 534')

Manual: Use portable smoke ejectors and flexible ducting to exhaust smoke to door on West wall of Aux. Elect. Room to Trackway Unit 2.

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

## 7.0 EXPOSURES

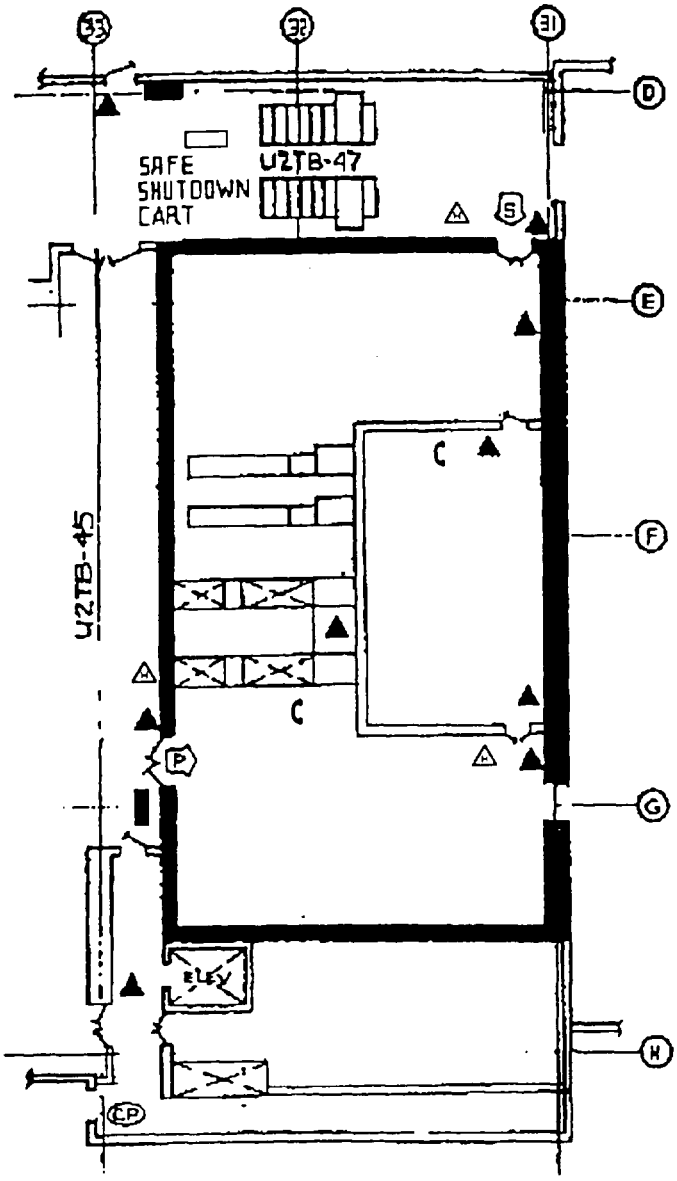
Safety-Related Equipment (See 7.0)

## 8.0 COMMUNICATIONS

Radios prohibited
2 Extension Phones

## 9.0 CONSTRUCTION

Walls - Reinforced Concrete (3- hour rated)
Floor - Concrete (3-hour rated)
Ceiling - Concrete supp. by Protected Structural Steel




FIRE ZONE 6.2
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
- C TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS
- SAFE SHUTDOWN CART

NOTES

1. U2TB-49 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 6.2
Plant Computer Room and
Auxiliary Electrical Room

**2.0 Access:**

2.1 Primary: From door on West wall of Aux. Elect. Room el. 517', 'DS' Key needed for entry.

2.2 Secondary: From door at North wall of Aux. Elect. in NE corner of Unit 2 T.B. el. 517'. 'DS' Key needed for entry.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Ventilation System | External duct insulation | A |
| Panels, Electrical | Cable insulation | A,C |
| Cables - | Polyethylene | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| | Aux. Elect. Equip. Rm. Air Conditioner Compressor | F-1 | 480V MCC 25-2 |
| | Aux. Elect. Equip. Rm. Air Conditioner Fan CSS MG Sets | F-4 | 480V MCC 25-2 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: Halon and Manual $CO_2$ supression system

## 4.0 Fire Protection Equipment

4.1 Detection: Ionization

4.2 Automatic Suppression: $CO_2$ (manual) and Halon Suppression Systems

4.3 Hose Reels: 2 - Hose Reels located in adjacent area.

4.4 Portable Extinguishers: 3 - Halon (2 located in adjacent area)
9 - $CO_2$ (4 located in adjacent area)

## 5.0 Guidelines for Fire Attack:

- Establish command post outside door near trackway area
- 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.
- 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
- Provide a fire watch until fire detection system is returned to service.
- CAUTION: This area contains combustible at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.

## 6.0 Ventilation:

6.1 Fixed: Put East Turbine Bldg. Ventilation system into purge mode by control Panel 2223-39 at U-2 SWGR area (23/24) (el. 534')

6.2 Manual: Utilize portable smoke ejectors and flexible ducting to exhaust smoke to door into trackway

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**

Two Instrument Bus Switch Center Cabinets
Two Essential Switch Center Cabinets
Four Rod Control Relay Cabinets
Four Reactor System Switch Center Cabinets
Four Core Cooling Relay Cabinets
Four Reactor Protection System MG Sets
Two Protective Relay Cabinets
Two Annunciator Input Relay Equipment Cabinets
Two 120/240-Vac Essential Service Equipment MG Sets
Two Reactor Protection System MG Set Control Panels
Two ESS MG Control Panels

**8.0 Communications:**

8.1 Portable radios: Radio use not permitted

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones

**9.0 Construction:**

9.1 Floor: Reinforced concrete, 3-hour rated

9.2 Wall:

a. North: 18" Reinforced concrete, 3-hour rated
b. South: 18" Reinforced concrete, 3-hour rated
c. East: 39" Reinforced concrete, 3-hour rated
d. West: 18" Reinforced concrete, 3-hour rated

9.3 Ceiling: 6" Reinforced concrete supported by protected 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
Switchgear and MCC

## 2.0 ACCESS

Primary: From double doors near the NW Corner of Aux. Elec. Room el. 517'

Secondary: From Rolling door in NE Corner of Unit 2 Turbine Bldg. from Unit 1, el. 517'

## 3.0 HAZARDS

Fire: Cable Insulation
Lubrication Oil
External HVAC Duct Insulation

Electrical: MCC - 29-2, 25-2
SWGR - 25, 26

Other: 2 Transformers containing Pyranol

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Localized Pre-action System over Air Compressors

2 - Hose Reels
3 - $CO_2$ Portable Extinguishers
1 - Halon Portable Extinguisher

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in Trackway el. 517'-6"
- Check System Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Ventilate
- Overhaul
- 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 double doors into hallway leading to RR Trackway Unit 2 el. 517'

## 7.0 EXPOSURES

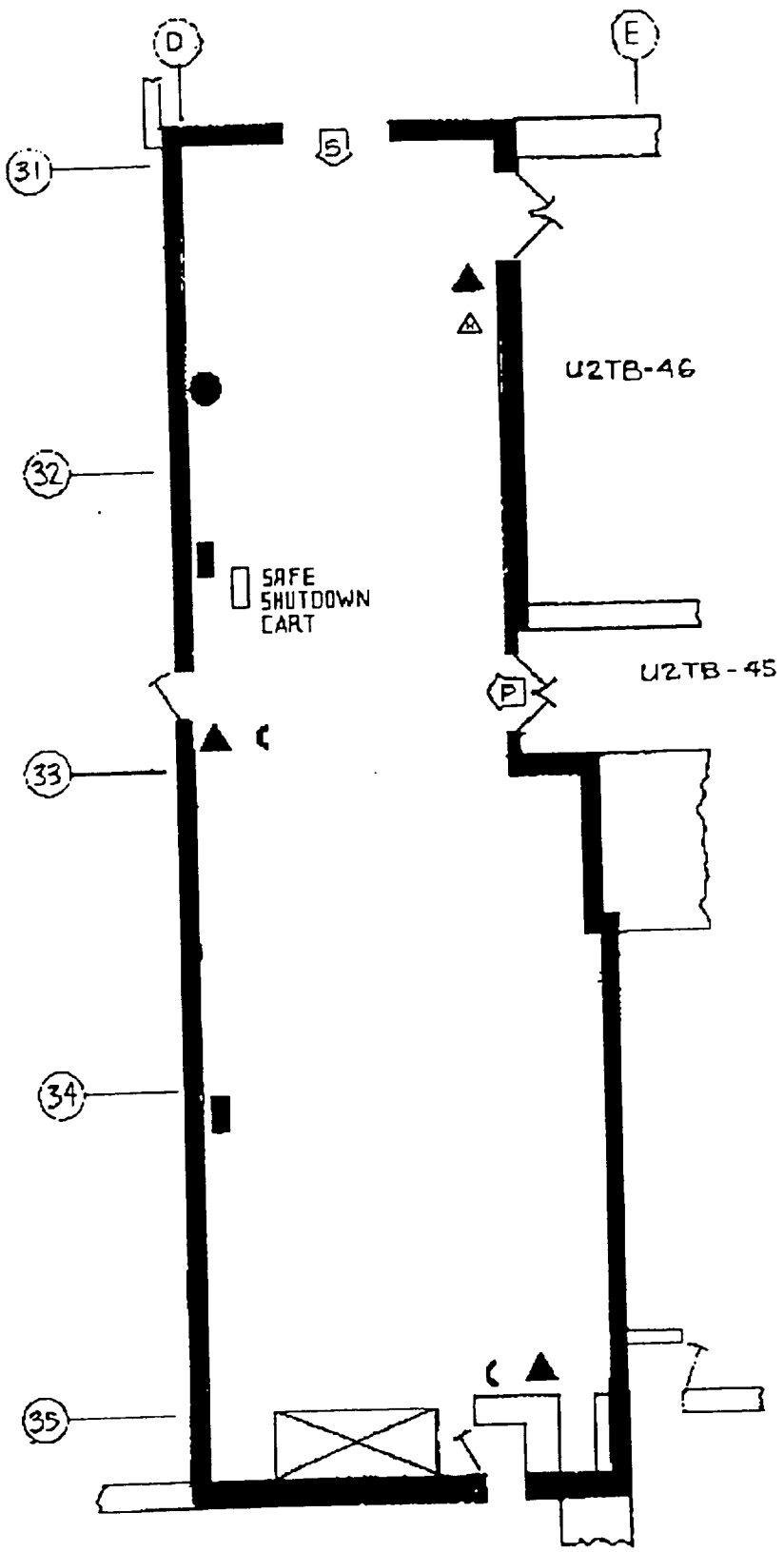
- MCC - 29-2, 25-2, 36-1A, 26-8
- SWGR - 25, 26
- Division II Cable Trays

## 8.0 COMMUNICATIONS

1 P.A. Location
2 Extension phones
Portable Radios

## 9.0 CONSTRUCTION

Floor/Ceiling - Concrete
North wall - Concrete (3 hour rated)
West - Concrete
East - Partial Concrete/metal Siding
South - Concrete/concrete block
(3 hour rated along aux. elec. equip. room)


D
E
31
5
32
33
34
35
SAFE SHUTDOWN CART
U2TB-46
U2TB-45
P
N
FIRE ZONE 8.2.5.A
ELEVATION 517'-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. U2TB-51 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
Switchgear and MCC

**2.0 Access:**

2.1 Primary: From double doors near NW corner of Aux. Elec. Room, el. 517'

2.2 Secondary: From Rolling Door in NE corner of Unit 2 Turbine Bldg. From Unit 1, el. 517'

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Air Compressors | Lubrication Oil | B |
| Panel, Electrical Cables | Cable Insulation | A,C |
| Ventilation System | External Insulation | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-4706 | Instr Air Compressor | 265C | SWGR 26 |
| 2-4601 | Service Air Compressor | 263D | SWGR 26 |
| MCC 25-2 | MCC 25-2 | 255B | SWGR 25 |
| MCC 29-2 | MCC 29-2 | 293D | SWGR 29 |
| SWGR 25 | 480V SWGR 25 | 2312 | 4160V SWGR 23 |
| SWGR 26 | 480V SWGR 26 | 2407 | 4160 SWGR 24 |
| MCC 36-1A | MCC | H5 | MCC 36-1 |

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: 2 - Transformers (25 and 26) containing Pyranol (PCB)

3.5 Life Safety: None

## 4.0 Fire Protection Equipment

4.1 Detection: Ionization

4.2 Automatic Suppression: Localized Pre-action Systems (2) over Service and Instrument Air Compressors (D-E, 33-35) (E-F, 33)
Isolation Valve 2-4199-137 located in NW corner of area

4.3 Hose Reels: 2 - Hose Reels

4.4 Portable Extinguishers: 3 - $CO_2$
1 - Halon

## 5.0 Guidelines for Fire Attack:

- Establish command post in Trackway el. 517'-6"
- 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.
- 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.
- Position one person with a portable radio at sprinkler system control valve located north of inst. air comp. at exterior wall.
- Provide a fire watch until fire detection 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 to and thru double doors leading to the RR Trackway of Unit 2 el. 517'

**7.0 Exposures:** Division II Cable Trays
MCC 29-2, 25-2, 26-8, 36-1A
Switchgears 25, 26

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location

8.3 Telephone: 2 Extension Phones

**9.0 Construction:**

9.1 Floor: Reinforced concrete

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated
b. South: 12" Reinforced concrete wall/concrete block, 3-hour rated along aux. elec. equip. room
c. East: 12" Reinforced concrete/partial metal siding on exposed structural steel
d. West: 12" Reinforced concrete

9.3 Ceiling: Reinforced concrete on exposed steel

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

**SPECIAL NOTE:**

Non-electrically rated nozzle provided for 1" hard booster hose reel located outside of area near East wall. When using this nozzle, Extreme Caution should be used to avoid electrical shock.

## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 538'-0"
Fire Zone - 8.2.6.A
RFP Vent, $H_2$ Seal Area

## 2.0 ACCESS

Primary: From Control Room area walkway el. 534'

Secondary: Stairs in center of area near MCC 28-2 el. 538'

## 3.0 HAZARDS

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

Electrical: See 3.2

Other: Transformer containing PCB

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Thermal
Suppression: Water Spray (Preaction), Water Spray (Open Head System), Wet Pipe Sprinkler
1 - $CO_2$ 1" Hose Reel
1 - Hose Cabinet
2 - $C0_2$ Portable Extinguishers (1 outside of area)
1 - 1" Hard Booster Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in Hallway by Control Room Hallway
- Provide support to Sprinkler 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 and Overhaul
- Provide surveillance of Sprinkler System control valve and Fire Watch
- CAUTION: Combustible gap materials

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Portable Ejectors and Flexible Ducting to exhaust smoke either up the stairs or hatchway East of Hydrogen seal oil unit.

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

## 7.0 EXPOSURES

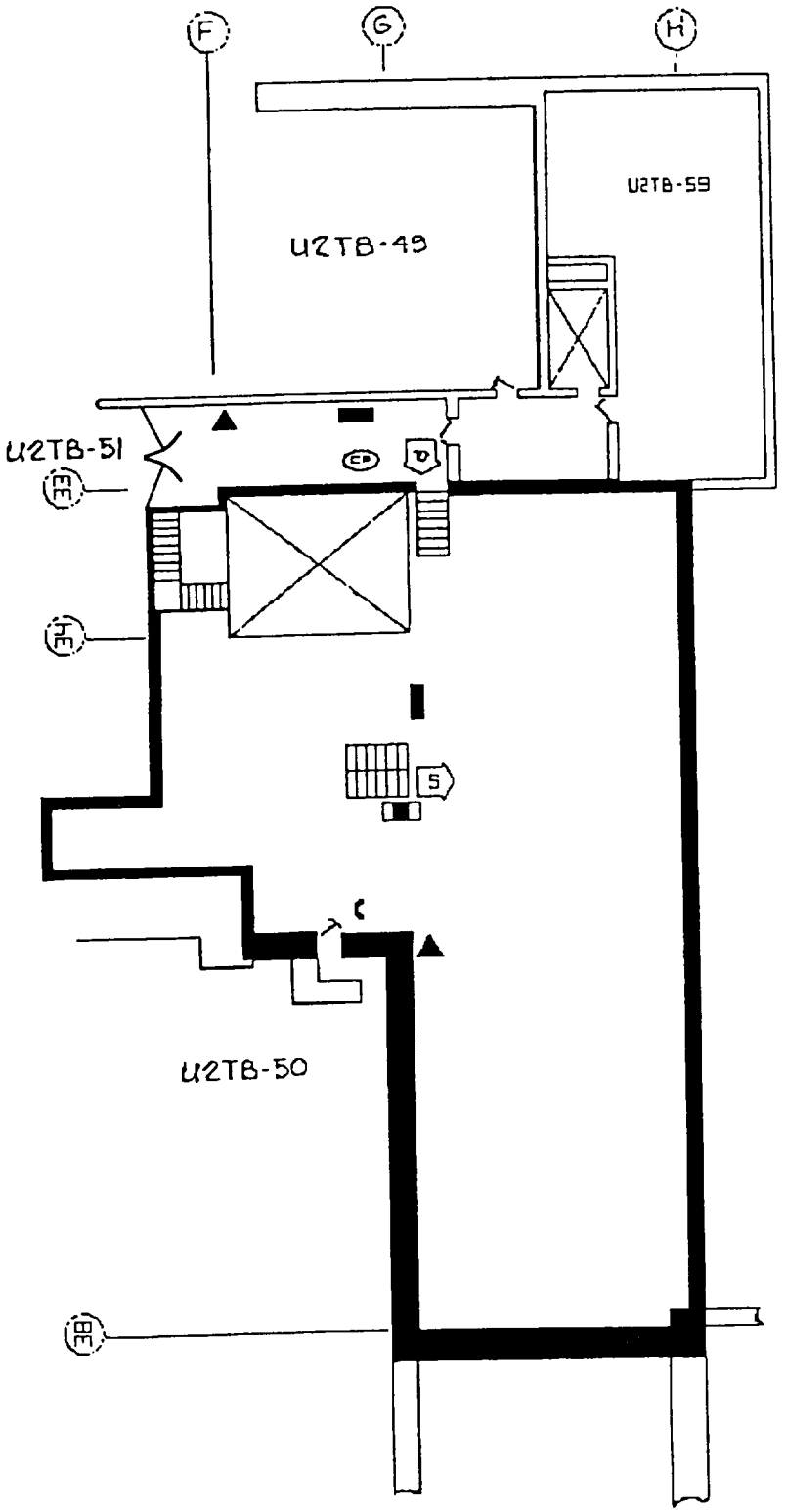
Division I and II Cable Trays
MCC 28-3, MCC 28-2

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Concrete on exposed steel at ceiling and floor
East, West, and South walls are concrete construction




FIRE ZONE B.2.G.A
ELEVATION 538'-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. U2TB-44, U2TB-45 AND U2TB-43 AT LEVEL BELOW
2. U2TB-57 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 538'-0"
Fire Zone 8.2.6.A
RFP Vent, H7 Seal Area

**2.0 Access:**

2.1 Primary: From Control Room area walkway el. 534'.

2.2 Secondary: Stairs in center of area near MCC 28-2 el . 538'.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Feedwater Reg. Valve | Hydraulic oil | B |
| Hydrogen Seal Oil Unit | Lubricating oil | B |
| Ventilation System | Filters | A |
| | External HVAC duct insulation | A |
| | Internal duct lining | A |
| Panels, Electrical Cables | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 28-2 | MCC 28-2 | 284B | 480V Swgr 28 |
| 28-3 | MCC 28-3 | 284D | 480V Swgr 28 |
| 2A | Gen. Stator Cooling Pump | 254B | 480V Swgr 25 |
| 2B | Gen. Stator Cooling Pump | 266C | 480V Swgr 26 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-7402 | Liquid Cooling Unit | | |
| | Main $H_2$ Seal Oil Pump | D1 | MCC 28-2 |
| | $H_2$ Seal Oil Vacuum Pump | D4 | MCC 28-2 |
| 2A-5707 | RX Feed Pump Vent Fans | 255C | 480V Swgr 25 |
| 2B-5707 | RX Feed Pump Vent Fans | 266B | 48OV Swgr 26 |
| | Cont. Room Toilet Exhaust Fan | B5 | 480V MCC 26-4 |
| 2257-6 | Amplidyne Voltage Regulator | B-6 | 480V MCC 26-4 |
| 2A | F.W. Regulator Isol. Valve 2A | H3 | MCC 26-1 |
| 2B | F.W. Regulator Isol. Valve 2B | H4 | MCC 26-1 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: Generator Neutral Grd. Transformer containing PCB

3.5 Life Safety: Generator neutral ground transformer contains PCB.

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors, Thermal Detectors

4.2 Automatic Suppression:
Water Spray (Preaction)
Water Spray (Open Head System)
Wet Pipe Sprinkler System

4.3 Hose Reels:
1 - $CO_2$ 1" - 150'-0" Hose Reel
1 - Hose Cabinet
1 – 1" - 200'-0" Hard Booster Hose Reel

4.4 Portable Extinguishers: 2 - $CO_2$ (1 in adjacent area)

## 5.0 Guidelines for Fire Attack:

-Establish command post in Hallway west of Control Rooms West wall el. 534'.
-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).
-Ventilate area--utilize fixed ventilation system (see Section 6.2) 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 as follows:

Wet Pipe System for Stator Cooling Unit Area
valve is located halfway down stairs from 561' el. south of Seal Oil Unit.

Deluge System for $H_2$ Seal Oil Unit
valve is located halfway down stairs from 561' el. south of Seal Oil Unit.

Pre-action System for Cable Trays
valve is located at 534' el. by Stator Cooling Heat Exchanger.

- Provide a fire watch until fire suppression and detection systems are returned to service, if out of service time greater than 1 hour per DATRs.
- CAUTION: This area contains combustible materials at the gap between the tops of various walls and the ceiling that may cause hidden fire spread.
- **SPECIAL NOTE:** Non-electrically rated nozzle provided for 1" hard booster hose reel located outside of area near East wall. When using this nozzle, Extreme Caution should be used to avoid electrical shock.

**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 Ejectors and Flexible Ducting to exhaust smoke to either up the stairs or the Hatchway east of the Hydrogen seal oil Unit el. 532'. |
| 6.3 | Fire Dampers: | Fire dampers may not close against air flow therefore, shut down the ventilation system to ensure closure. |

**7.0 Exposures:** Division I and II cable trays, MCCs 28-2, 28-3

**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 exposed steel

9.2 Wall:

a. North: 12" Concrete/Open
b. South: 12" Concrete
c. East: 18" Concrete
d. West: 36" Concrete

9.3 Ceiling: 12" Reinforced concrete on exposed steel

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



**SPECIAL NOTE:**

Non-electrically rated nozzle provided for 1" hard booster hose reel located approximately 75' East of area. When using this nozzle, Extreme Caution should be used to avoid electrical shock.

## 1.0 LOCATION

Unit 2 Turbine Bldg.
Elevation 534'
Fire Zone 2.0
Control Room

## 2.0 ACCESS

Primary: From door on East side of Control Room near Unit 1 and Unit 2 common wall el. 534' ("May require card key for entry")

Secondary: From door at SW corner of Control Room el. 534'

## 3.0 HAZARDS

Fire: Internal HVAC Duct Lining
Cable Insulation

Electrical: See 3.2

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
2 - Hose Cabinets outside room
6 - $CO_2$ Portable Extinguishers
(1 located in adjacent area)
1 - Halon Portable Extinguishers
1 - 2-1/2 gal Water Tank Pump Unit
1 – 1" Hard Booster Hose Reel outside room
1 – Dry Chemical Portable Extinguisher outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post South of Control Room
- 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: Products of combustion should change vent mode to exhaust.

Manual: Utilize portable smoke ejectors and flexible ducting to exhaust smoke up stairs in NE corner of Unit 2 via door in NE corner of Control Room.

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

## 7.0 EXPOSURES

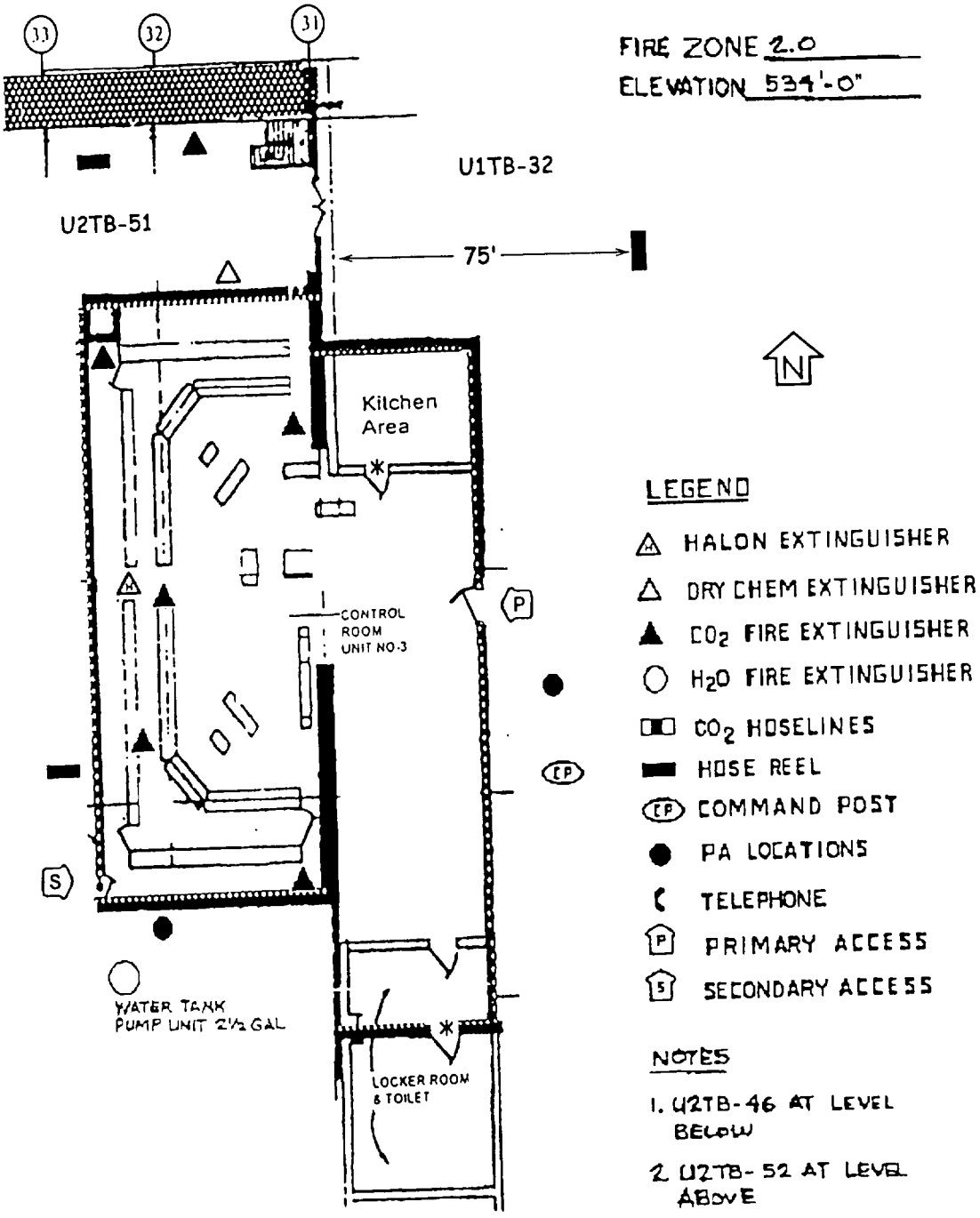
Safety-Related Equipment

## 8.0 COMMUNICATIONS

2 P.A. Locations outside room
All telephone systems available
Radio consoles
Portable Radios prohibited behind panels

## 9.0 CONSTRUCTION

Floor - Concrete on protected structural steel
Ceiling - Concrete on Exposed Structural Steel
Walls - 3-hour rated Concrete and Concrete Block Walls except East Wall which is reinforced concrete




*ELECTRIC DOOR CLOSURE-FAILS CLOSED

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Bldg.
Elevation 534'
Fire Zone 2.0
Control Room

**2.0 Access:**

2.1 Primary: From door on East side of Control Room el. 534' near Unit 1 and Unit 2 common wall. May require card key for entry.

2.2 Secondary: From door at SW corner of Control Room el. 534'.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Ventilation System | Internal duct lining | A |
| Panels, Electrical Cables | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A | Cont. Room & office air conditioning compressor | 255D | 480V SWGR 25 |
| 2B | Cont. Room & office air conditioning compressor | 263B | 480V SWGR 26 |
| | Cont. Rm. & office air conditioning supply fan | B2 | 480V MCC 26-4 |
| 29-8 | HVAC MCC | 294D | 480V SWGR 29 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

## 4.0 Fire Protection Equipment

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose cabinets located in adjacent area
1 - 1" - 200'-0" Hard Booster Hose Reel located in adjacent area

4.4 Portable Extinguishers: 6 - $CO_2$ (4 located in adjacent area)
1 - 2-1/2 gal. water tank pump unit
1 - Halon
1 - Dry Chemical located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post South of Control Room, at trackway.
- 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).
- 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.
- **SPECIAL NOTE:** Non-electrically rated nozzle provided for 1" hard booster hose reel located approximately 75' East of area. When using this nozzle, Extreme Caution should be used to avoid electrical shock.

## 6.0 Ventilation:

6.1 Fixed: Products of combustion detection should automatically change control ventilation system (serving control room) from normal to exhaust mode.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke out door in NE corner of Control Room to stairs in NE corner of Unit 2 Turbine 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:** **Safety-Related Equipment**

Reactor and Containment Cooling
Shutdown Cooling Cleanup Recirculation
Reactor Control
Feedwater & Condensate
Generator and Auxiliary Power
Process Radiation Monitoring
Area Radiation
Tip Control
Reactor Protection System 1
Reactor Protection Monitoring
Reactor Protection System 2
Process Instrument Equipment
Electrical Transducers
Nuclear Steam Supply Monitors
Startup Range Neutron Monitor
Power Range Neutron Monitor
Containment Atmosphere Monitoring and Dilution
Process Radiation
Gas Treatment - HVAC
Primary Containment Analysis
ECCS Control System

**8.0 Communications:**

8.1 Portable radios: Do not use behind panels.

8.2 Public Address: 2 P.A. Locations located in adjacent areas

8.3 Telephone: All dedicated emergency phones, GSEP radio link, commercial telephones

**9.0 Construction:**

9.1 Floor: 6" Concrete on protected structural steel

9.2 Wall:

a. North: 18" Reinforced concrete and concrete block walls, 3-hour rated
b. South: 18" Reinforced concrete and concrete block walls, 3-hour rated
c. East: 39" Reinforced concrete
d. West: 18" Reinforced concrete and concrete block walls, 3-hour rated

9.3 Ceiling: 18" Reinforced concrete on exposed structural steel

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



**SPECIAL NOTE:**

Extra lengths (minimum 50') of hose need to be added to hose stations prior to charging hoses to reach this area.

## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 538'
Fire Zone 8.2.6.B
Low Pressure Heater Bays

## 2.0 ACCESS

Primary: From door in Unit 2 East Shield wall behind MCC 28-2 el. 538' "R-2". Rad key needed to access area

Secondary: From door in Unit 2 West shield wall south of MCC 25-1. Rad key needed to access area

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System
2 - Hose Cabinets outside area
2 - $CO_2$ Portable Extinguishers outside area
1 - $CO_2$ Hose Reel outside area

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post of Unit 2 shield wall el. 534'
- Check Suppression System Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1 1/2" Hose Lines
- Search Area for victims
- Caution: De-energize equipment
- Ventilate
- Overhaul
- Position person at C.V.
- Provide a Fire Watch

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Exhaust smoke thru door in Unit 2 each shield wall el. 538

## 7.0 EXPOSURES

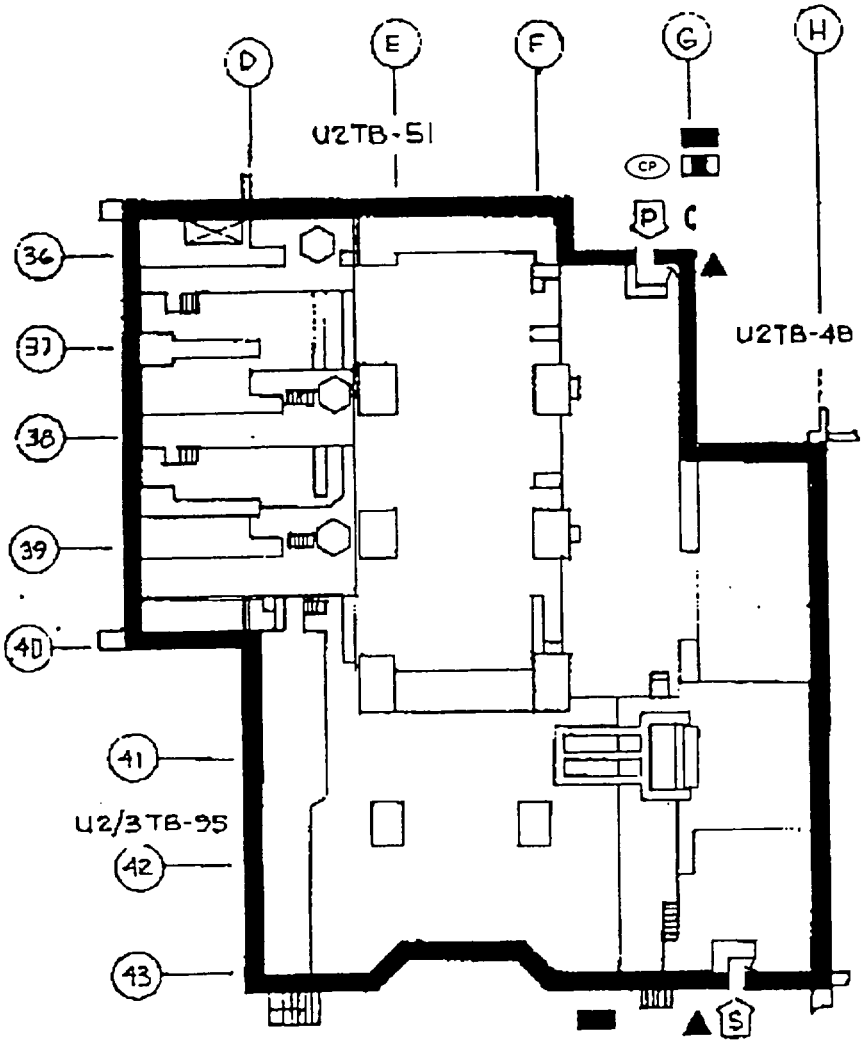
Div. I and II Cable Trays

## 8.0 COMMUNICATIONS

Portable Radios

## 9.0 CONSTRUCTION

Concrete - all sides




U2/3TB-94

FIRE ZONE 8,2,6-B
ELEVATION 517'/538'

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-38 AT LEVEL BELOW
2. U2TB-58 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 538'
Fire Zone 8.2.6.B
Low Pressure Heater Bays

**2.0 Access:**

2.1 Primary: From door in Unit 2 East shield wall behind MCC 28-2 el. 538' . Rad key needed to access area.

2.2 Secondary: From door in Unit 2 West shield wall south of MCC 25-1. Rad key needed to access area.

**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 |
|---|---|---|---|
| 2-3203 | High Pressure Feedwater Heaters By-Pass Valve | D4 | MCC 26-1 |
| 2A-5405A | GL. Stm. Cond. Exhaust Isol. Valve M.O.V. E-1 | | |
| 2B-54O5B | GL. Stm. Cond. Exhaust Isol Valve N.O.V. E-1 | B4 | 480V MCC 25-1 |
| | Main Steam Lead Drain Valve MOV6 | A2 | 480V MCC 25-1 |
| | Turbine Water Spray By-Pass Valve | A1 | 480V MCC 25-1 |
| 2-3901 | Condenser Service Water Supply Valve 2A | D5 | MCC 25-1 |
| 2-3902 | Condenser Service Water Supply Valve 2B | D6 | MCC 25-1 |
| 2-3304 | Air Ejector Condensate By-Pass Valve | D1 | MCC 25-2 |

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: Wet pipe system over area except for the Condenser Bay (Pit)

Isolation valve for South turbine cavity No. 2-4109-507 located on TB EL 561' by MG sets. Note: Closure isolates High Pressure Heater Bay. Isolation Valve for North turbine cavity No. 2-4109-508 located by Unit 2 TBCCW Hx at wall. Note: Closure isolates CRD Pump Room and Cond. Booster Pump Room Systems

4.3 Hose Reels: 2 - Hose Reels located in adjacent area.
1 - $C0_2$ 1" - 150-0" Hose Reel located in adjacent area.

4.4 Portable Extinguishers: 2 - $C0_2$ located in adjacent area.

**5.0 Guidelines for Fire Attack:**

- Establish command post West of Control Room and East of Unit 2 shield wall el. 534'.
- 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 listings).
- Ventilate area--utilize fixed ventilation system (see Section 6.0) or pl ace 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 which are located at 561' el. by MG set near Col. G41 for S.
  Cond. Bay and at el. 534' at S. end of TBCCW Heat Exchangers for N. Turb. Bay.
- Provide a fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs.
- SPECIAL NOTE: Extra lengths (minimum 50') of hose need to be added to hose stations prior to charging hoses to reach this area.

**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 personnel door of Unit 2 East shield wall toward open Hatchway Area el. 538'

**7.0 Exposures:** Division I Cable Trays
Division 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: Concrete

9.2 Wall:

a. North: 30" Reinforced concrete
b. South: 12" Reinforced concrete
c. East: 36" Reinforced concrete
d. West: 30" Reinforced concrete

9.3 Ceiling: Concrete

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



## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 534'
Fire Zone - 8.2.6.A
Switchgear Area

## 2.0 ACCESS

Primary: From corridor along West wall of Control Room or Unit 1 Switchgear Room

Secondary: From stairs in NE corner, up from el. 517'6"

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Floor drop-off
PCB contained in transformer

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization

1 - Hose Cabinet in adjacent area
3 - $CO_2$ Portable Extinquishers
(1 located in adjacent area)
1 - Dry Chemical Portable Extinguisher
1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

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

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors to exhaust smoke up stairs in NW corner of area.

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

## 7.0 EXPOSURES

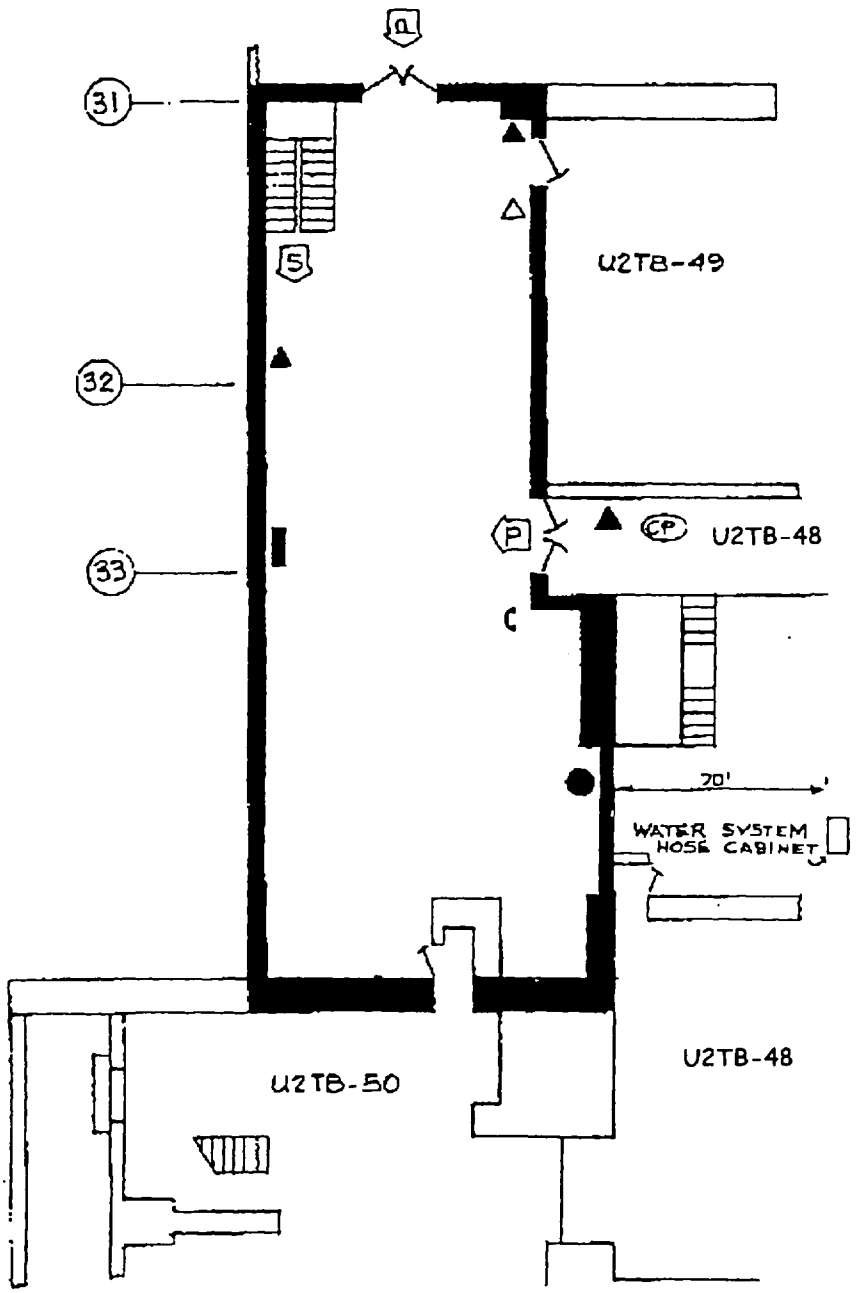
Div. I and II Cable Trays
Switchgear 23 & 24

## 8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Ceiling/Floor - Concrete on steel
North - Concrete against steel
(3 hour rated along exterior portion)
East - Metal siding
West - Concrete




FIRE ZONE 8.2.6.A
ELEVATION 534'-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-52 AT LEVEL ABOVE
2. U2TB-47 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 534'
Fire Zone 8.2.6.A
Switchgear Area

**2.0 Access:**

2.1 Primary: From Corridor along West wall of Control Room or Unit 1 Switchgear Area

2.2 Secondary: From stairs in NE corner, up from elevation 517'6"

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Panels, Electrical Cables | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| Swgr 21 | 4 KV Switchgear | | |
| Swgr 22 | 4 KV Switchgear | | |
| Swgr 23 | 4 KV Switchgear | | |
| Swgr 24 | 4 KV Switchgear | | |
| 23 | 4 KV Swgr 23 | 2303 | Unit Aux. Trans. 21 |
| 24 | 4 KV Swgr 24 | 2413 | Unit Aux. Trans. 21 |
| 21 | 4 KV Swgr 21 | 2101 | Unit Aux. Trans. 21 |
| 22 | 4 KV Swgr 22 | 2205 | Unit Aux. Trans. 22 |
| 2A | Main Power Trans. Cooling Equipment | 263A | 480V Swgr 26 |
| 2B | Main Power Trans. Cooling Equipment | 254C | 480V Swgr 25 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A | Isolated Phase Bus Blower | E1 | 480V MCC 25-2 |
| 2B | Isolated Phase Bus Blower | A5 | 480V MCC 26-1 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: Floor drop-off

3.5 Life Safety: Transformer 27 contains Pyranol.

## 4.0 Fire Protection Equipment

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: None

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

4.4 Portable Extinguishers: 3 - $CO_2$ (1 located in adjacent area)
1 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post in Hallway at hatch.
- 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 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 to exhaust smoke up stairs in NW corner of area el. 534'-0".

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

**7.0 Exposures:** Div. I and II cable trays
4 KV Switchgears 23, 24, 21, and 22

**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: 18" Reinforced concrete on exposed steel

9.2 Wall:

a. North: 12" Reinforced concrete against steel columns, 3-hour rated along exterior portion
b. South: Open
c. East: Metal siding on steel framing
d. West: 36" Reinforced concrete

9.3 Ceiling: 12" Reinforced concrete on exposed steel

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



## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 549'
Fire Zone 8.2.7
Turbine Building Ventilation Area

## 2.0 ACCESS

Primary: From stairs at NE corner of Unit 2 Turbine Bldg. el. 549' above Control Area.

Secondary: From elevator near the SW corner of Battery Room el. 549'

## 3.0 HAZARDS

Fire: Cable Insulation
HVAC External Duct Insulation
HVAC Internal Duct Lining
Filters
Polyethylene

Electrical: See 3.2

Other: One means of egress

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
2 - Hose Reels located in adjacent areas
3 - $CO_2$ Portable Extinguishers (2 located in adjacent areas

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post outside Control Room el. 534'
- 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: Use portable smoke ejectors and flexible ducting to exhaust smoke up stairs at the NE corner of Unit 2 Turbine Bldg. el. 549'

## 7.0 EXPOSURES

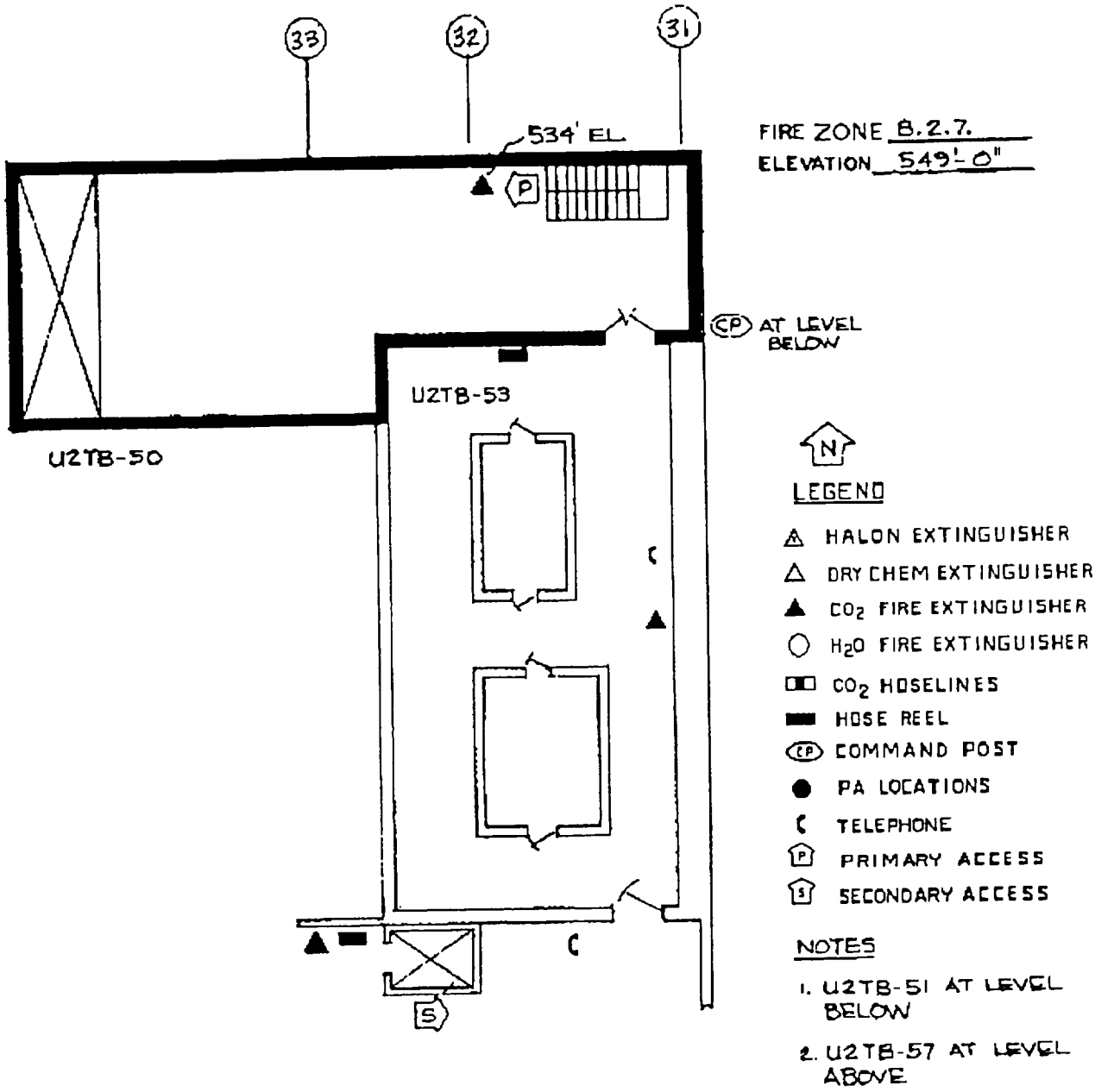
Safety-Related Cable Trays

## 8.0 COMMUNICATIONS

2 Extension Phones nearby
Portable Radios

## 9.0 CONSTRUCTION

East and North Walls - Metal siding on exposed structural steel
South Wall - Open/Concrete
West Wall - Concrete
Floor/Ceiling - Concrete on exposed structural steel


33
32
31
534' EL.
P
FIRE ZONE 8.2.7.
ELEVATION 549'-0"
CP AT LEVEL BELOW
U2TB-53
U2TB-50
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
S
NOTES
1. U2TB-51 AT LEVEL BELOW
2. U2TB-57 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 549'
Fire Zone 8.2.7
Turbine Building Ventilation Area

**2.0 Access:**

2.1 Primary: From stairs at NE corner of Unit 2 Turb Bldg. el. 549' above Control Area

2.2 Secondary: From elevator near SW corner of Unit 2 Battery Room el. 549'

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Ventilation System | Filters | A |
| | External HVAC Insulation | A |
| | Flex Connections | A |
| | HVAC Internal Lining | A |
| Panels, Electrical | Cable Insulation | A,C |
| Cables | Polyethylene | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 26-4 | MCC | 264D | 480V Swgr 26 |
| 2A-5726 | East Turbine Building Exhaust Fans | A1 | MCC 26-4 |
| 2B-5726 | East Turbine Building Exhaust Fans | A3 | MCC 26-4 |
| 2C-5726 | East Turbine Building Exhaust Fans | A5 | MCC 26-4 |
| 2A-5727 | East Turbine Building Exhaust Fans | A2 | MCC 26-4 |
| 2B-5727 | East Turbine Building Exhaust Fans | A4 | MCC 26-4 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2C-5727 | East Turbine Building Exhaust Fans | A6 | MCC 26-4 |
| 2/3-5733 | Steam Converter | | |
| 2/3-5735 | Steam Converter Pump | C2 | MCC 26-4 |
| 2/3-5731 | Control Room Office Air Handling Unit | C-3 | MCC 26-4 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress provided. Entrapment Possible.

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose Reels located in adjacent areas

4.4 Portable Extinguishers: 3 - $CO_2$ (2 located in adjacent areas)

## 5.0 Guidelines for Fire Attack:

- Establish command post outside Control Room, el. 534' (1 level below 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 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.
- 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: 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 the NE corner of Unit 2 Turb. Bldg. el. 549'.

**7.0 Exposures:** Division I and II Cable Trays
Safety-Related Equipment

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones in adjacent areas

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed structural steel

9.2 Wall:

a. North: Metal siding with exposed structural steel
b. South: Open/18" concrete
c. East: Metal siding with exposed structural steel
d. West: 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 549'-0"
Fire Zones 7.0.A.1, .2, and .3; 8.2.7
Battery Rooms

## 2.0 ACCESS

Primary: From door in Battery Room North wall Unit 2 Turbine Bldg. el. 549'. Key 'DS' needed for entry

Secondary: None

## 3.0 HAZARDS

Fire: Acrylic Plastic
Cable Insulation
HVAC External Duct Insulation
Polyethylene

Electrical: See 3.2

Other: One means of egress
Battery Acid

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
2 - Hose Cabinets
2 - $CO_2$ Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs el. 549'
- 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: Use portable smoke ejectors and flexible ducting to exhaust smoke to stairs in NE corner of Unit 2 Turbine Bldg. el. 549'.

## 7.0 EXPOSURES

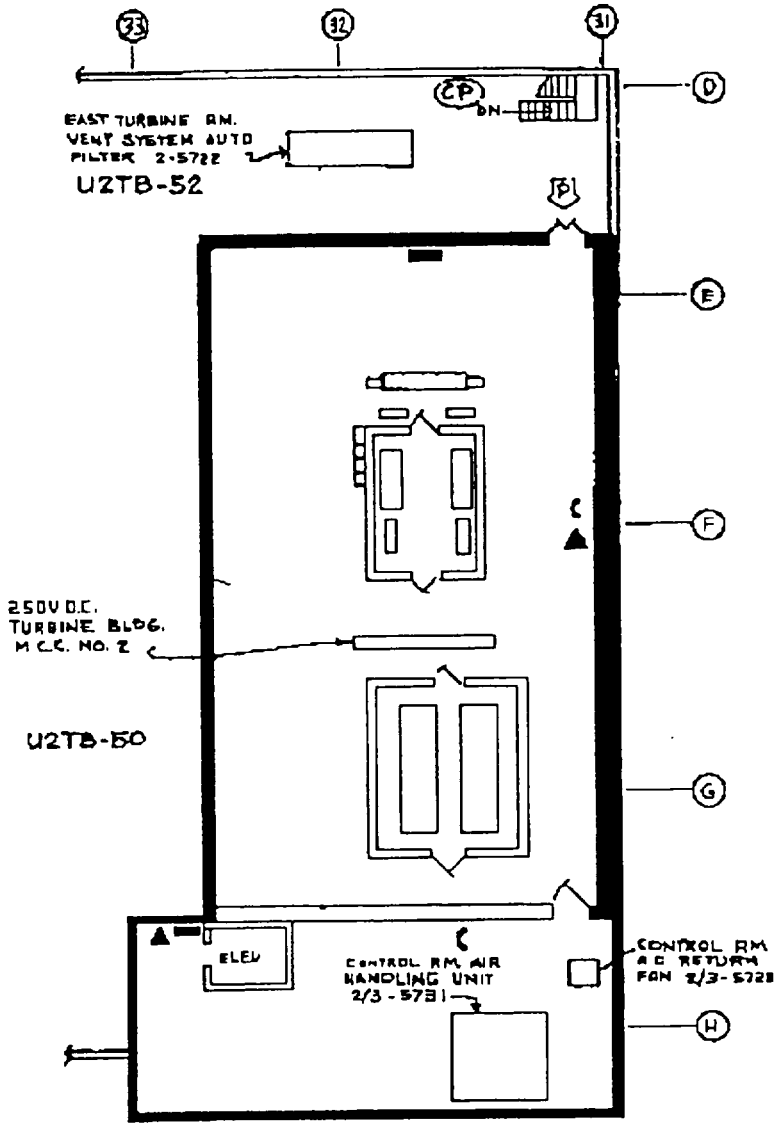
Safety-Related Equipment

## 8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

## 9.0 CONSTRUCTION

Reinforced concrete with exposed Structural Steel on all sides except South Wall which is Metal Siding.




FIRE ZONE 7.0.A.1
7.0.A.2
7.0.A.3
8.2.7

ELEVATION 549'-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-49 AT LEVEL BELOW
2. U2TB-58 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 549'-0"
Fire Zones 7.0.A.1,.2 and .3; 8.2.7
Battery Rooms

**2.0 Access:**

2.1 Primary: From door in Battery Room North wall Unit 2 Turbine Building, el. 549' Key "DS" needed for entry.

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazards | Material | Class |
|---|---|---|
| Battery Cells | Acrylic Plastic | A |
| Ventilation System | External Duct Insulation | A |
| Panels, Electrical Cables | Cable Insulation | A,C |
| -- | Polyethylene | A |

3.2 Electrical

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2/3-5735 | Steam Converter Pump | | |
| 2/3-5732-1 | Aux. Elect. Equip. Rm. A.C. Unit (Pump) | | |
| 2/3-5732 | Aux. Elect. Equip. Rm. A.C. Unit (PUMP) | | |
| 2/3-5731 | Control Room Air Handling Unit | | |
| 2/3-5728 | Control Rm. A.C. Ret. Fans | | |
| 2A-5726 | East Turb. Bldg. Exch. Fans | | |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2B-5726 | East Turb. Bldg. Exch. Fans | | |
| 2C-5726 | East Turb. Bldg. Exch. Fans | | |
| 2A-5727 | East Turb. Bldg. Exch. Fans | | |
| 2B-5727 | East Turb. Bldg. Exch. Fans | | |
| 2C-5727 | East Turb. Bldg. Exch. | | |
| 2 | 125 Volt Battery Charger | A1 | MCC 29-2 |
| 2/3 | 250 Volt Battery Charger | B4 | MCC 29-3 |
| #2 | 250V Battery Charter | C2 | MCC 28-3 |
| 2/3 | 250 Volt Battery Charger | D3 | MCC 39-2 |

3.3 Hazardous Substances: Battery Acid

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress, depends on 2.2.

## 4.0 Fire Protection Equipment

4.1 Detection: Ionization

4.2 Automatic Suppression: None

4.3 Hose Reels: 2 - Hose Cabinets

4.4 Portable Extinguishers: 2 - $CO_2$ Extinguishers

## 5.0 Guidelines for Fire Attack

- Establish command post near stairs el. 549'
- 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.
- Provide an hourly fire inspection until fire detection system is returned to service, if out of service time greater than 1 hour per Tech Spec. 3.12.A.2.a.
- 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: 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 stair in NE corner of U-2 Turbine Bldg. el. 549'-0".

## 7.0 Exposures: Safety-Related Equipment

**125-Vdc Battery Room**
48/24-V Batteries 2A,2B
125-V Batteries

**250-Vdc Battery Room**
250-V Batteries

**DC Panel Room**
125-Vdc TB Main Bus 2
125-Vdc Reserve Bus 2
48/24-Vdc Dist Pnl 2A, 2B
125-Vdc Battery Chargers 2, 2/3
250-Vdc Battery Chargers 2, 2/3
24-V Battery Chargers (4)
250-Vdc MCC 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: 18" Reinforced concrete on exposed structural steel - 3-hour rated

9.2 Wall:

a. North: 18" Reinforced concrete with exposed structural steel
b. South: Metal siding with exposed structural steel
c. East: 39" Reinforced concrete with exposed structural steel
d. West: 18" Reinforced concrete with exposed structural steel

9.3 Ceiling: 18" Reinforced concrete on exposed structural steel

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

Pre-plan U2TB-54
Page 1 of 5
Rev. 4

## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 549'
Fire Zones 8.2.8.D, 14.2A
Fan Floor

## 2.0 ACCESS

Primary: Stairs in Unit 2 Fan Floor Area, El. 549', Rad key needed to access SJAE rooms.

Secondary: From stairs in Unit 3 Fan Floor Area, el. 549', Rad key needed to access SJAE rooms.

## 3.0 HAZARDS

Fire: Hydrogen and Oxygen Bottle
Lubricating Oil

Electrical: 480V Fans, etc.

Other: Radioactive Equipment Check
Hydrogen leak in off-gas Recombiner

## 4.0 FIRE PROTECTION EQUIPMENT

2 - $CO_2$ Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairway in Unit 2 Fan Floor el. 561'
- 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 Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs of Unit 2 Fan Floor Area

## 7.0 EXPOSURES

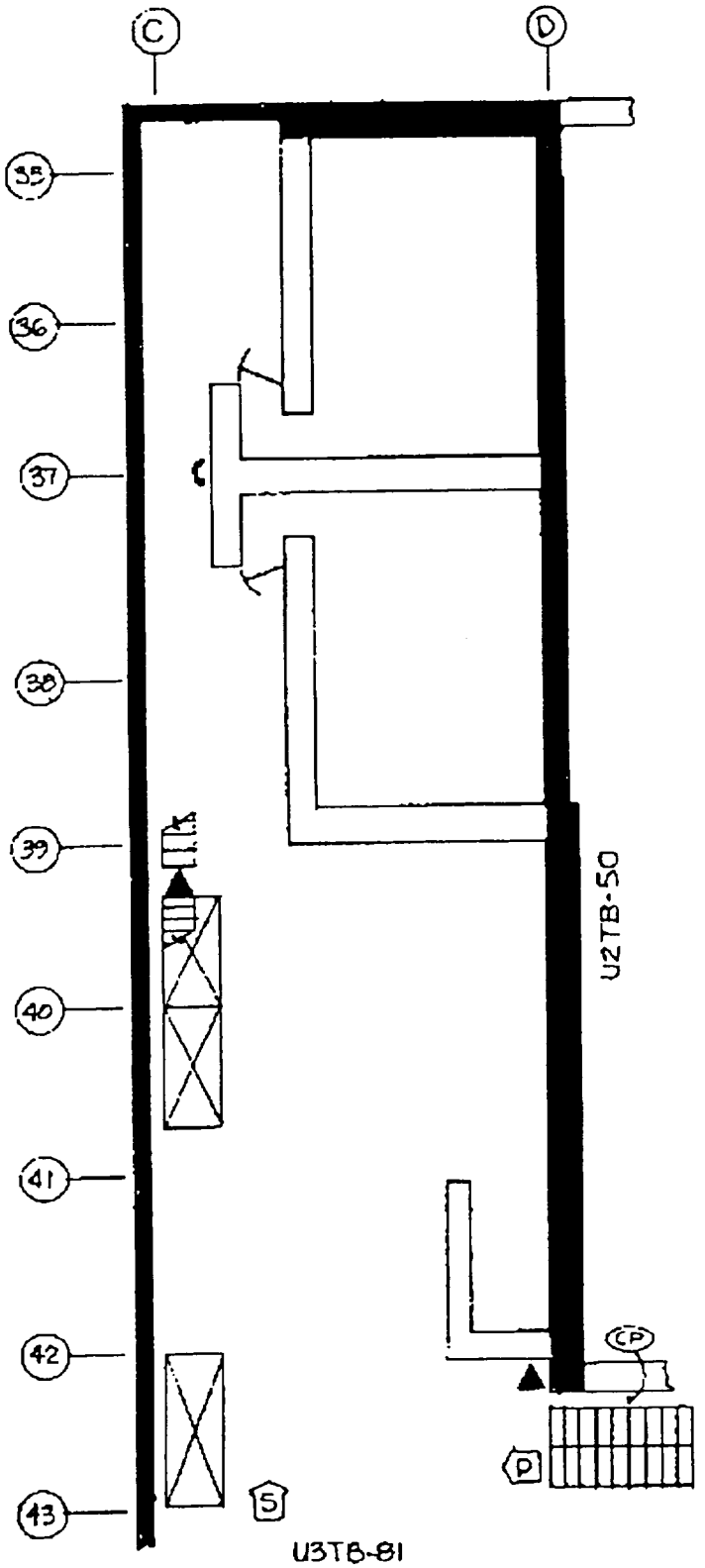
Steam Jet Air Ejectors
Gland Steam Condensers

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Floor/Ceiling - Concrete/exposed steel
South and East - Concrete
West - Open
North - Concrete/Metal siding




FIRE ZONE 8.2.8.D & 14.2.A
ELEVATION 549'-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-55 AT LEVEL ABOVE
2. U2/3TB-95 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location**: Unit 2 Turbine Building
Elevation 549'
Fire Zones 8.2.8.D, 14.2A
Fan Floor

**2.0 Access:**

2.1 Primary: Stairs in Unit 2 Fan Floor Area, el. 549', Rad key needed to access SJAE rooms.

2.2 Secondary: From Stairs in Unit 3 Fan Floor Area el. 549', Rad key needed to access SJAE rooms.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Hydrogen and Oxygen Bottles | Hydrogen Oxygen | B |
| Pump | Lubrication Oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A-5705 | Turb. Bldg. Exhaust Fan | 356C | 480V Swgr 25 |
| 2B-5705 | Turb. Bldg. Exhaust Fan | 366D | 480V Swgr 26 |
| 2C-5705 | Turb. Bldg. Exhaust Fan | 376D | 480V Swgr 27 |
| 2A-5706 | Turb. Bldg. Supply Fan | | |
| 2B-5706 | Turb. Bldg. Supply Fan | | |
| 2C-5706 | Turb. Bldg. Supply Fan | | |
| 2-5402 | Condenser Vacuum Pump | 263C | 480V Swgr 26 |
| 2A-5603 | Gland Steam Condenser | B5 | 480V MCC 25-2 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2B-5603 | Gland Steam Condenser | C3 | 480V MCC 27-1 |
| 5716 | North Turbine Room Evap. Cooler Recirc. Pump | K1 | 480V MCC 27-1 |
| 2A-5705 | Turb. Bldg. Vent Exhaust Fans | 256C | 480V Swgr 25 |
| 2B5705 | Turb. Bldg. Vent Exhaust Fans | 266D | 48OV Swgr 26 |
| 2C5705 | Turb. Bldg. Vent Exhaust Fans | 276D | 480V Swgr 27 |
| E-2 | GL Stm. Cond. Exhaust Isol. Valve Move-2 | G4 | MCC 27-1 |
| D2 | GL. Stm. Cond. Exhaust Isol. Valve Mov-D2 | G3 | MCC 27-1 |
| 2A-5706 | Turb. Bldg. Vent Supply Fans | 256A | 480V Swgr 25 |
| 2B-5706 | Turb. Bldg. Vent Supply Fans | 266A | 480V Swgr 26 |
| 2C-5706 | Turb. Bldg. Vent Supply Fans | 256B | 480V Swgr 25 |

3.3 Hazardous Substances: Check Hydrogen Leak in off-gas recombiner

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: None

4.4 Portable Extinguishers: 2 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post at stairway on Main Turbine 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.
- 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.

**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 to stairs of Unit 2 Fan Floor Area.

**7.0 Exposures:** Steam Jet Air Ejectors
Gland Steam Condensers

**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: 6" Reinforced concrete on exposed steel

9.2 Wall:

a. North: Partial concrete/metal siding supported by exposed steel
b. South: 36" and 48" Reinforced concrete with exposed structural steel
c. East: 48" Concrete
d. West: Open

9.3 Ceiling: Concrete on exposed steel

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



## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 571'
Fire Zone 14.2.B, 8.2.8.D
Off Gas Recombiner

## 2.0 ACCESS

Primary: From stairs in Unit 2 Fan Floor Area to El. 571'-0"

Secondary: None

## 3.0 HAZARDS

Fire: None

Electrical:

Other: Radioactive Equipment Check for Hydrogen leak in off-gas recombiner

## 4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs of Unit 2 Fan Floor el. 549'-0"
- 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 vent and exhaust fans by local control panel at el. 590'.

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

## 7.0 EXPOSURES

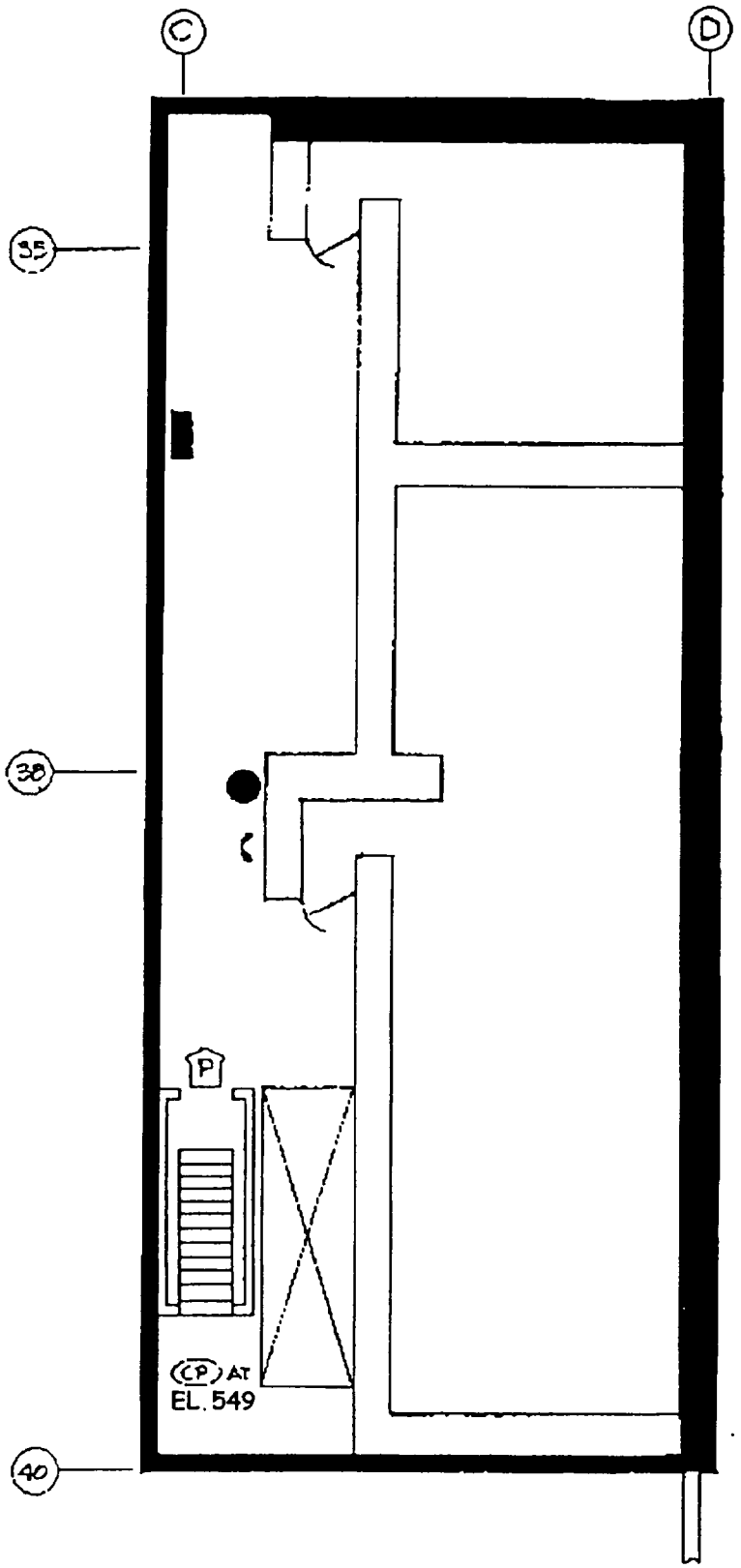
None

## 8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Concrete - all sides
North wall - Metal siding




FIRE ZONE 14.2
ELEVATION 571'-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-54 AT LEVEL BELOW
2. U2TB-56 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 571'
Fire Zone 14.2.B, 8.2.8.D
Off Gas Recombiner

**2.0 Access:**

2.1 Primary: From stairs in Unit 2 Fan Floor Area el. 571'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire: None

3.2 Electrical: No Drawings Available Showing Electrical Equipment

3.3 Hazardous Substances: Radioactive Equipment Check for Hydrogen Leak in off-gas recombiner

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress. Possibility of a charcoal absorber fire.

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: None

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs of Unit 2 Fan Floor, North Turbine 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: Control of vent and exhaust fans by Local Control panel at el. 590'.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs in the Unit 2 Fan Floor Area of North Turbine Bldg. el. 571'

## 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: 1 Extension Phone

## 9.0 Construction:

9.1 Floor: 6" concrete slab over 24" reinforced concrete on exposed structural steel

9.2 Wall:

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

9.3 Ceiling: 48" Reinforced concrete on exposed structural steel

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



## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 590'-6"
Fire Zone 14.2.C
Off-Gas Recombiner/$H_2$ Analyzer

## 2.0 ACCESS

Primary: From stairs in the Unit 2 Fan Floor Area of North Turbine Bldg. el. 590'

Secondary: None

## 3.0 HAZARDS

Fire: Filters
External HVAC Insulation
Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment
Check for Hydrogen Leak in off-gas recombiner
Charcoal absorber fire

## 4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs in Unit 2 Fan Floor area 571'
- 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: Fans are operated from panel at top of stairs el. 590'

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke of the Unit 2 Fan Floor Area

## 7.0 EXPOSURES

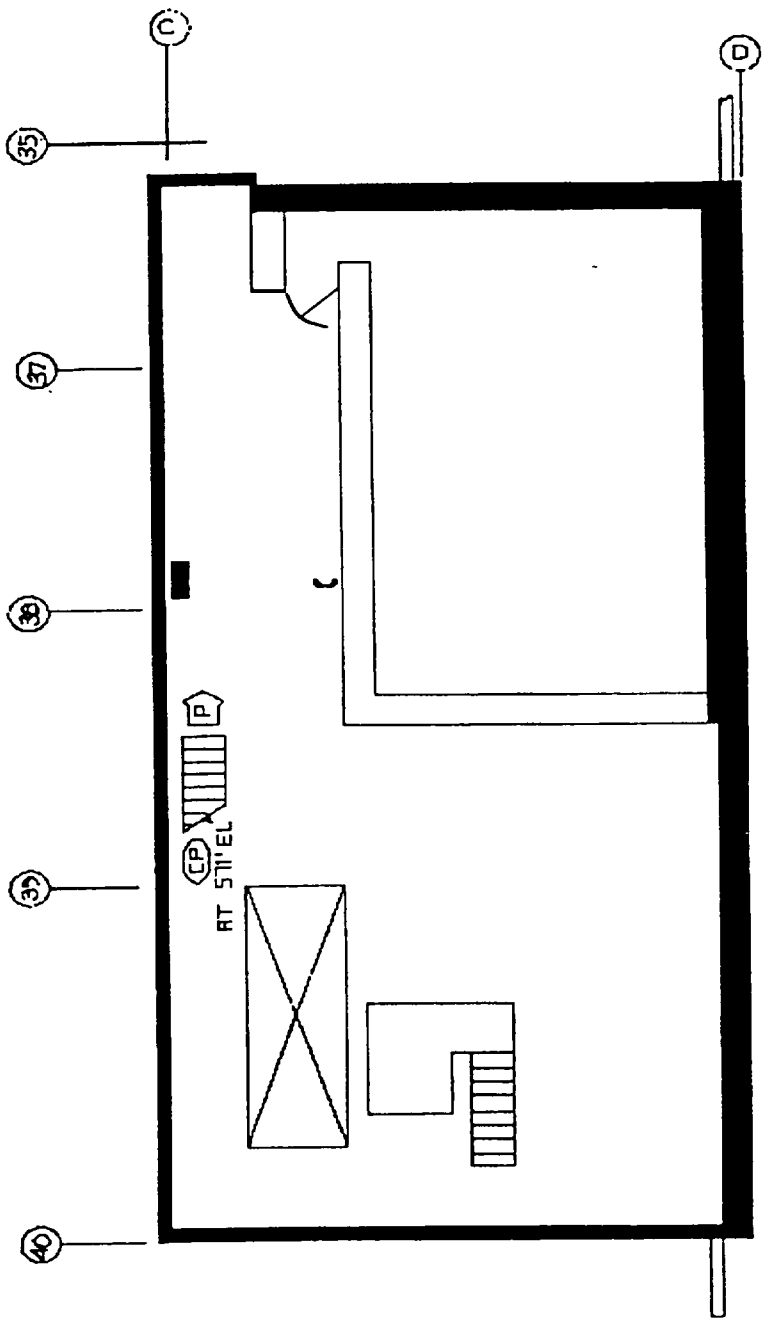
MCC 26-7

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

North/West Wall - Metal Siding
Floor and Ceiling - Reinforced concrete slab
South/East Wall - Concrete




FIRE ZONE 14.2
ELEVATION 590'-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-55 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Turbine Building
Elevation 590'-6"
Fire Zone 14.2C
Off Gas Recombiner/$H_2$ Analyzer

**2.0 Access:**

2.1 Primary: From stairs in the Unit 2 Fan Floor Area of North Turbine Building, el. 590'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Offgas System | Filters | A |
| | External HVAC insulation | A |
| Panels | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 26-7 | 480V AC Turbine Bldg MCC 26-7 | 265B | 480V Swgr 26 |

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: Check for Hydrogen leak in off-gas recombiner

3.5 Life Safety: One means of egress. Possibility of a charcoal absorber fire.

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: None

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs of Unit 2 Fan Floor area el. 549' or 571'.
- 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: Fans are operated from panel at top of stairs at 590' el.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs in Unit 2 Fan Floor Area of North Turbine Bldg. el. 590'.

## 7.0 Exposures: MCC 26-7

## 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: 6" Concrete slab over 24" reinforced concrete on exposed structural steel

9.2 Wall:

a. North: Metal Siding on exposed structural steel
b. South: 48" Reinforced concrete

c. East: Metal Siding
d. West: Concrete

9.3 Ceiling: 48" Reinforced concrete slab on exposed structural steel

**SPECIAL NOTE:**

Exciter Protected with a $CO_2$ system

## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
Main Turbine Floor

## 2.0 ACCESS

Primary: From stairs at the SE corner of Unit 2 Turbine Floor el. 561'

Secondary: From stairs at the center of Main Turbine Floor, el. 561'

## 3.0 HAZARDS

Fire: Grease, Lubricating Oil
External HVAC Duct Insulation
Cable Insulation

Electrical: See 3.2

Other: $CO_2$ from exciter
Hydrogen from Generator

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinkler System over Bearing Lift Pumps and M-G Sets, $CO_2$ System for exciter housing
5 - Hose Reels
2 - $CO_2$ 1" Hose Reels
4 - $CO_2$ Portable Extinguishers (1 located in adjacent area)
4 - Portable Extinguisher Dry Chemical
1 - Dry Chemical Wheeled Extinguisher 150 lb.

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Unit 2 Stairway el. 538'-0"
- 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 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 the stairs at the SE corner of Unit 2 Turbine Floor el. 561'

## 7.0 EXPOSURES

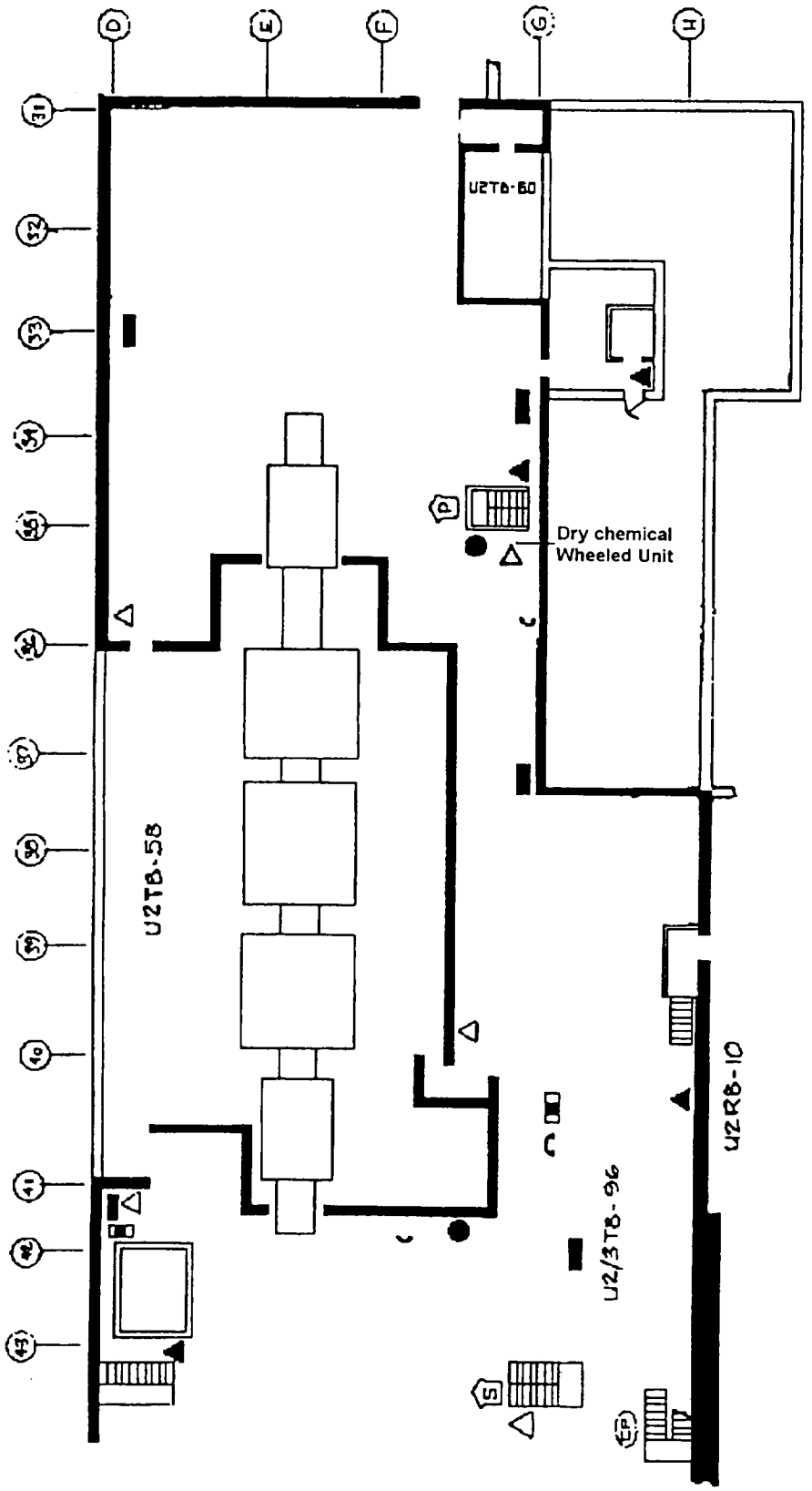
None

## 8.0 COMMUNICATIONS

2 P.A. Locations
2 Extension Phones
Portable Radios

## 9.0 CONSTRUCTION

Floor - Concrete
Walls - Metal siding on exposed structural steel
Ceiling - Built-up Roof




FIRE ZONE 8.2.8
ELEVATION 561'-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. U2TB50, U2TB-53, U2TB-52, U2/3TB-94 AND U2/3TB-95 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 561'-6"
Fire Area 8.2.8.A
Operating Floor

**2.0 Access:**

2.1 Primary: From stairs in the SE corner of the Unit 2 Turbine Floor, el. 561'-6"

2.2 Secondary: From stairs in the center of Turbine Bldg. Main Floor el. 561'-6"

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| M-G Sets | Lubricating Oil | B |
| | Grease | B |
| Ventilation System | HVAC external insulation | A |
| Cranes | Lubricating Oil | B |
| Panels | Cable Insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-5620A 2A | Bearing Lift Pumps (3) | B2 | MCC 28-3 |
| 2-5620B 2B | Bearing Lift Pumps (2) | B3 | MCC 28-3 |
| 2C | Bearing Lift Pumps | B4 | MCC 28-3 |
| 2D | Bearing Lift Pumps | B5 | MCC 28-3 |
| 2E | Bearing Lift Pumps | B6 | MCC 28-3 |
| 2/3 A | Turbine Room Crane | 273A | 480V Swgr 27 |
| 2A-5702 | South Turbine Vent Fans | 285C | 480V Swgr 28 |
| 2B-5702 | South Turbine Vent Fans | 295A | 480V Swgr 29 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A-5703 | RX Building Vent Fans | 283B | 480V Swgr 28 |
| 2B-5703 | RX Building Vent Fans | 295B | 480V Swgr 29 |
| 2C-5703 | RX Building Vent Fans | 283C | 480V Swgr 28 |
| South Turbine Evap. Cooler Recirc. Pump | South Turbine Evap. Cooler Recirc. Pump | C1 | 480V MCC 26-4 |
| 5714 | RX Building Evap. Cooler Recirc. Pump | D4 | MCC 29-3 |
| 2A-5708 | Drywell and Torus Purge Exhaust Fan | B2 | MCC 28-1 |
| | H.P. Heaters "D" Cell Vent Fan | B1 | 480V 26-4 |
| 2B | Drywell and Torus Purge Exhaust Fan 2B | C3 | 480V MCC 29-1 |
| 2/3A | Turbine Room Cranes | 376A | 480V Swgr 37 |
| 2/3B | Turbine Room Cranes | 376A | 480V Swgr 37 |
| 2A-5704 | RX Building Vent Exhaust Fans | 284C | 480V Swgr 28 |
| 2B-5704 | RX Building Exhaust Fan | 295C | 480V Swgr 29 |
| 2C-5704 | RX Building Exhaust Fan | 295D | 480V Swgr 29 |

3.3 Hazardous Substances: Hydrogen from Generator

3.4 Physical Hazards: None

3.5 Life Safety: Exciter protected by $CO_2$

**4.0 Fire Prevention Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler Systems over Bearing Lift Pumps (D-41, F-36) and M-G Sets
$CO_2$ System for exciter housing

4.3 Hose Reels: 5 - Hose Reels
2 - $CO_2$ 1"-2OO'-0" Hose Reels

4.4 Portable Extinguishers: 4 - $CO_2$, 1 located in adjacent area
4 - Dry Chemical
1 - 150 lb. Portable Wheeled Dry Chemical Extinguisher

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs In SE corner of Unit 2
- If suppression system above lift pumps has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation
- Caution should be used if the $CO_2$ system for the exciter housing has actuated due to exposure to $CO_2$.
- 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.
- 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.
- 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 valves; one located NW of Turbine and one SE of Turbine (near Bearing Lift Pumps).
- 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 at the SE corner of the Unit 2 Turbine Floor el. 561'

## 7.0 Exposures: None

## 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: 18" Reinforced concrete on exposed structural steel

9.2 Wall:

a. North: 30" Concrete (around turbine)/6" concrete block/steel siding on exposed structural steel
b. South: Partial 6" reinforced concrete and metal siding on exposed structural steel
c. East: Metal siding on exposed structural steel
d. West: Open

9.3 Ceiling: Built-up Roof on precast concrete slabs over exposed steel

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



**SPECIAL NOTE:**

Control Room can secure oil pumps.

## 1.0 LOCATION

Unit 2 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
Turbine Area

## 2.0 ACCESS

Primary: From the NW wall of Unit 2 Turbine area, el. 561', Rad key needed to access area

Secondary: From the door on the south wall of Unit 2 Turbine area, el. 561', Rad key needed to access area

## 3.0 HAZARDS

Fire: Lubricating Oil under High Pressure

Electrical: See 3.2

Other: Radioactive Equipment
$CO_2$ from exciter

## 4.0 FIRE PROTECTION EQUIPMENT

4 - Hose Cabinets
(3 located in adjacent area)
2 - $CO_2$ Hose Reels outside area
1 - $CO_2$ Portable Extinguisher outside area
3 - Dry Chemical Portable Extinguishers outside area
1 - Dry chemical Wheeled Extinguisher 150 lb. outside area

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at center of Turbine floor
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution:High Voltage, De-energize equip.
- Ventilate
- Overhaul

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Smoke Ejectors and Flexible Ducting to exhaust smoke out door on the South wall of the Unit 2 Turbine area el. 561'-1"

## 7.0 EXPOSURES

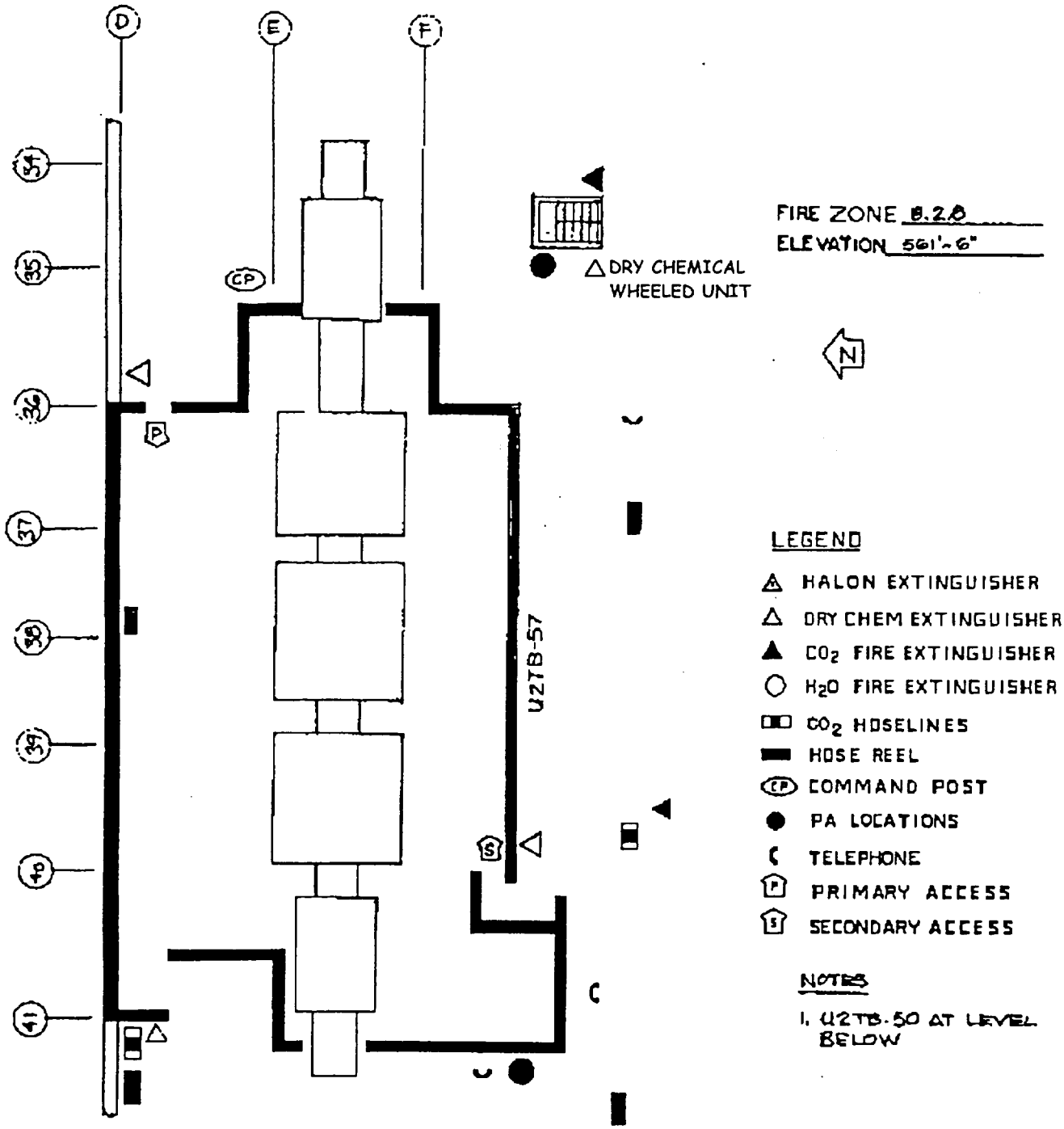
Running Oil fire will expose Safety-Related equipment at lower levels

## 8.0 COMMUNICATIONS

2 - P.A. Location nearby
3 - Extension Phone nearby
Portable Radios

## 9.0 CONSTRUCTION

Floor - Reinforced concrete on exposed steel
North Wall - Concrete
South, East, West Walls - Concrete Shield Walls


D
E
F
CP
P
S
U2TB-57
DRY CHEMICAL WHEELED UNIT
FIRE ZONE 8.2.8
ELEVATION 561'-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 BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
Turbine Area

**2.0 Access:**

2.1 Primary: From door on the NW wall of the Unit 2 Turbine area, el. 561'-6", Rad key needed to access area.

2.2 Secondary: From door on the south wall of Unit 2 Turbine area el. 561'-6", Rad key needed to access area.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Turbine | Lubricating Oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-5601 | Turbine 810,000 KW Turning Gear Piggyback Motor | B1 | MCC 28-3 |
| | Turbine Gear Oil Pump | A3 | MCC 28-3 |
| | Turbine Turning Gear | A4 | MCC 28-3 |
| | Turbine Main Shaft Suction Pump | B3 | MCC 25-1 |
| 2-4901 | Turbine Vacuum Breaker Valve | E5 | MCC 28-2 |

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: None

3.5 Life Safety: $CO_2$ from exciter

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 4 - Hose Cabinets (3 located in adjacent area)
2 - $CO_2$ Hose Reels located in adjacent area.

4.4 Portable Extinguishers: 1 - $CO_2$ located in adjacent area
4 - Dry Chemical located in adjacent area
1 – 150 lb. Dry Chemical Wheeled Extinguisher located in adjacent area

**5.0 Guidelines for Fire Attack:**

- Establish command post at the center of the main operating floor el. 561'
- 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.

**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 Smoke Ejectors and Flexible Ducting to exhaust smoke out door on the South wall of the Unit 2 Turbine area el. 561'-6"

**NOTE: Obtain H/P approval**

**7.0 Exposures:** No Safety-Related equipment at this level. However, a pressurized lube oil fire would extend to lower levels where Safety-Related equipment is located.

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: 2 P.A. Locations located in adjacent area

8.3 Telephone: 3 Extension Phones located in adjacent area.

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

| | |
|---|---|
| North: | Concrete with exposed structural steel |
| South: | Concrete shield wall |
| East: | Concrete shield wall |
| West: | Concrete shield wall |

9.3 Ceiling: Open to rest of floor

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

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 469'-6"
Fire Zone 8.2.1.B
Condensate Pumps

## 2.0 ACCESS

Primary: From stairs in Unit 3 Turbine Bldg. el. 517' to el. 469'-6"

Secondary: None

## 3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: Radioactive Equipment, Entrapment possible
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 el. 517' near stairs Unit 3 Turbine Building
- Check Sprinkler 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 Ejectors and Flexible Ducting to exhaust smoke up stairs to el. 517'-6"

## 7.0 EXPOSURES

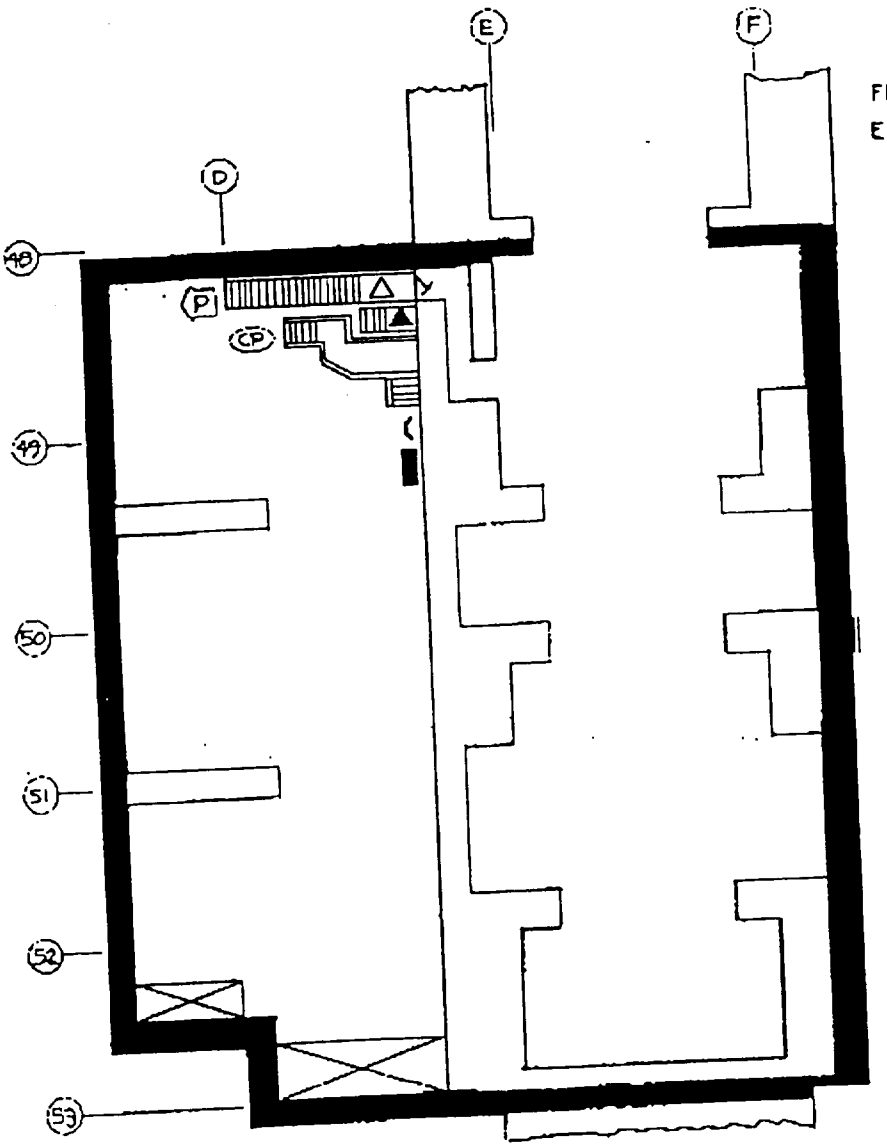
Division II Cable Trays

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Concrete on all sides




FIRE ZONE 8.2.1.B
ELEVATION 469'-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. U3TB-69 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 469'-6"
Fire Zone 8.2.1.B
Condensate Pumps

**2.0 Access:**

2.1 Primary: Down stairs in Unit 3 Turbine Building el. 517' to el. 469'

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 |
|---|---|---|---|
| | Manlift | C-4 | MCC 37-1 |
| 3-4407 | Condensed Dewatering Pump | J 3 | MCC 35-2 |
| 3-5700-80 | Condst. & Condst. Booster Pump Rm. Exh. Fan No. | J 4 | MCC 35-2 |
| 3-A-3401 | Condensate Booster Pumps | 3307 | 4160V SWGR 33 |
| 3-B-34O1 | Condensate Booster Pumps | 3311 | SWGR 33 |
| 3-C-3401 | Condensate Booster Pumps | 3412 | SWGR 34 |
| 3-D-3401 | Condensate Booster Pumps | 3410 | SWGR 34 |
| 3-A-3302 | Condensate Pumps | 3307 | SWGR 33 |
| 3-B-3302 | Condensate Pumps | 3311 | SWGR 33 |
| 3-4403A | Condenser Circ. Water Valve | K2 | MCC 35-2 |
| 3-4403B | Condenser Circ. Water Valve | K4 | MCC 35-2 |
| 3-4403C | Condenser Circ. Water Valve | L2 | MCC 35-2 |
| 3-4403D | Condenser Circ. Water Valve | L4 | MCC 35-2 |
| 3-3341-106 | Hotwell Sample Pump | H5 | MCC 35-2 |
| 3-3901 | Condenser Service Water Supply Valve 3A | D4 | MCC 35-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-3902 | Condenser Service Water Supply Valve 3B | D5 | MCC 35-1 |
| 3-C-33O2 | Condensate Pumps | 3412 | SWGR 34 |
| 3-D-3302 | Condensate Pumps | 3410 | SWGR 34 |
| 3A-2001-457 | Turb. Bldg. Equipment Drain Sump | F 5 | MCC 35-2 |
| 3B-2001-457 | Turb. Bldg. Equipment Drain Sump and Pump | B 1 | MCC 37-1 |
| 3-A-2001-453 | Turb. Floor Drain Sump and Pump | F 4 | MCC 35-2 |
| 3-B-2001-453 | Turb. Floor Drain Sump and Pump | A 3 | MCC 37-1 |
| 3-4509 | Chlorine Residual Sample Pump | B 3 | MCC 36-1 |

3.3 Hazardous Substances: Radioactive Equipment
Hydrogen Addition Lines

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 Sprinkler System

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 1 - $CO_2$
1 - Dry Chemical at top of the landing by Hotwell

## 5.0 Guidelines for Fire Attack:

- Establish command post at el. 517' near stairs in Unit 3, Turbine Building 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 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-47; SW of T.B.C.C.W. 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 up stairs to el. 517'-6"

**7.0 Exposures:** **Safety-Related Equipment**

Division 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: Concrete, basement

9.2 Wall:

a. North: 36" Reinforced concrete
b. South: 36" Reinforced concrete
c. East: 36" Reinforced concrete
d. West: 36" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete with exposed structural beams and stairwells and hatches.

## 1.0 LOCATION

Unit 3 Turbine Bldg.
Elevation 495'-0"
Fire Zone 8.2.2.B
Containment Cooling Service Water (C.C.S.W.) Pumps

## 2.0 ACCESS

Primary: From stairs in Unit 3 Turbine Bldg., from ground floor el. 517' to el. 495'-0"

Secondary: None

## 3.0 HAZARDS

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

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 near stairs at 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: Use portable smoke ejectors and flexible ducting to exhaust smoke up stairs

## 7.0 EXPOSURES

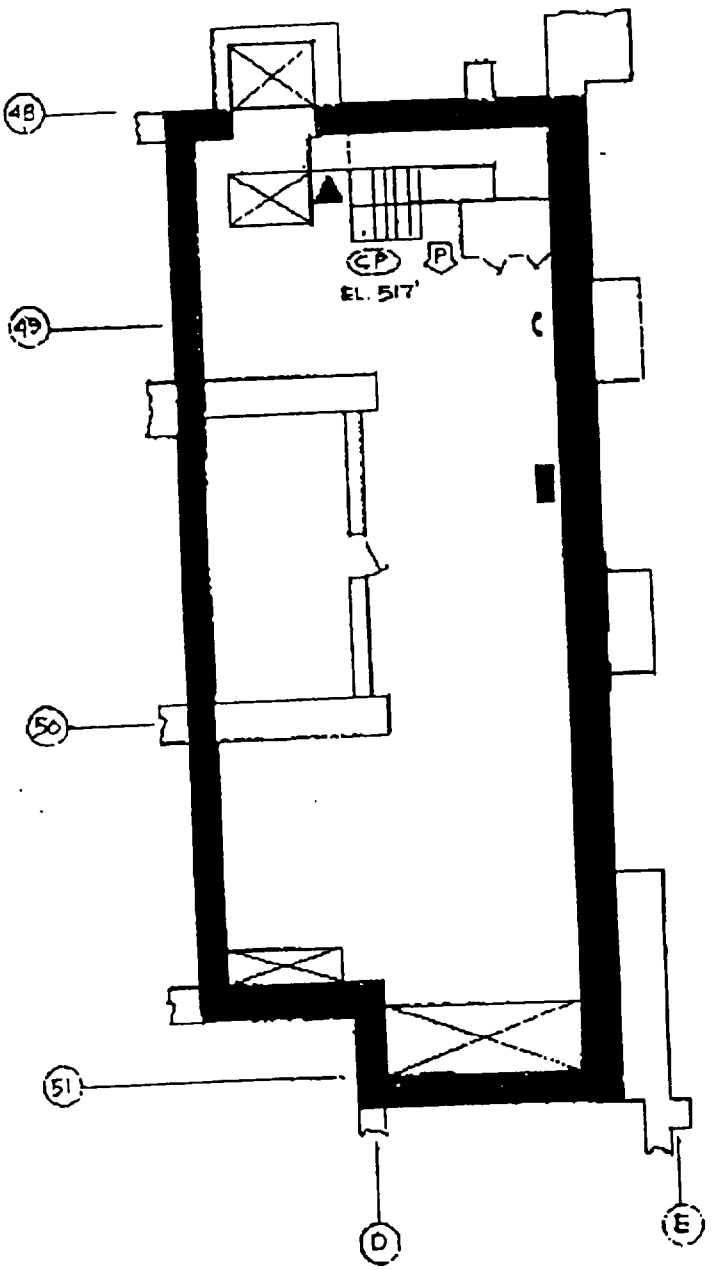
CCSW Pumps and Motors (4)
CCSW Air Coolers (4)
Control Rod Drive Water Pumps and Motors (2)
Service Water, TBCCW, CRD Valves

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Concrete - all sides




FIRE ZONE 8.2.2.B
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. U3TB-68 AT LEVEL BELOW
2. U3TB-70 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 495'-0"
Fire Zone 8.2.2.B
Containment Cooling Service Water (C.C.S.W.) Pumps

**2.0 Access:**

2.1 Primary: From stairs in Unit 3 Turb. Bldg., from ground floor el. 517' to el. 495'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Pumps | Lubricating Oil, Grease | B |
| Ventilation System | Filters, Internal Duct Lining | A |
| Electrical Cables | Cable Insulation | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3A-1501-44 | Containment Cooling | 3304 | 4160V SWGR 33 |
| 3B-1501-44 | Containment Cooling | 3301 | 4160V SWGR 33 |
| 3C 1501-44 | Containment Cooling SWP | 3413 | 4160V SWGR 34 |
| 3D 1501-44 | Containment Cooling SWP | 3408 | 4160V SWGR 34 |
| 3A-302-3 | Control Rod Drive Water Pumps | 3306 | 4160V SWGR 33 |
| 3B-302-3 | Control Rod Drive Water Pumps | 3406 | 4160V SWGR 34 |
| 3-5700-30A | Cont. Cool. Ser. Water Pump Cub. Cooler Fan 1 | D1 | MCC 38-3 |
| 3-5700-30A | Cont. Cool. Ser. Water Pump Cub. Cooler Fan 2 | D2 | MCC 38-3 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5700-30B | Cont. Cool. Ser. Water Pump Cub. Cooler Fan 1 | D3 | MCC 38-3 |
| | CRD Repair Shop Leak Test Pump | F4 | 39-3 |
| 3-5700-30B | Cont. Cool. Ser. Water Pump Cub. Cooler Fan 2 | D4 | MCC 38-3 |
| 3-570O-30C | Containment Cool. Ser. Wtr. Pump Cub. Cooler Fan 2 | B2 | MCC 39-2 |
| 3-5700-30C | Containment Cool. Ser. Wtr. Pump Cub. Cooler Fan | A3 | MCC 39-2 |
| 3-57O0-30D | Containment Cool. Ser. Wtr. Pump Cub. Cooler Fan | D4 | MCC 39-2 |
| 3-5700-3OD | Containment Cool. Serv. Wtr. Pump Cub. Cooler Fan | D5 | MCC 39-2 |

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 Sprinklers

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 1 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs el. 517'-6" 1 level above 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 for electrical component listing)
- Caution should be used in applying water to avoid electrical shock.
- Ventilate area--utilize fixed ventilation system (see Section 6.2) 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 to el. 517'-6"

**7.0 Exposures:** **Safety-Related Equipment**

Containment Cooling Service Water Pumps and Motors (4)
Containment Cooling Service Water Air Coolers (4)
Division I Cable Trays
Control Rod Drive Pumps and Motors (2)
Service Water Valves:
3-3999-360,
3-3999,361, 3-3999-357, 3-3999-348,
3-3999-349, 3-3999-358
TBCCW Valves:
3-3899-205, 3-3899-204
CRD Valves:
3-0301-2A, 3-0301-3B

**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 exposed structural beams, stairwell, and hatches.

9.2 Wall:

a. North: 36" Reinforced concrete
b. South: 48" Reinforced concrete
c. East: 36" Reinforced concrete
d. West: 36" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete on exposed structural beams, stairwell, and hatches.

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

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.D
Low Pressure Heater Bays

## 2.0 ACCESS

Primary: Doorway in East wall of Unit 3 Shield Wall el. 517', Rad key needed to access area

Secondary: Doorway in West wall of Unit 3 Shield Wall el. 517' Rad key needed to access area

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers
1 - $CO_2$ Hose Reel outside area
3 - $CO_2$ Portable Extinguishers outside area
2 - Dry Chemical Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Unit 3 RR Trackway el. 517'
- Support Sprinklers
- 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
- Sprinkler 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 out east door of Unit 3 Shield Wall el. 517'

## 7.0 EXPOSURES

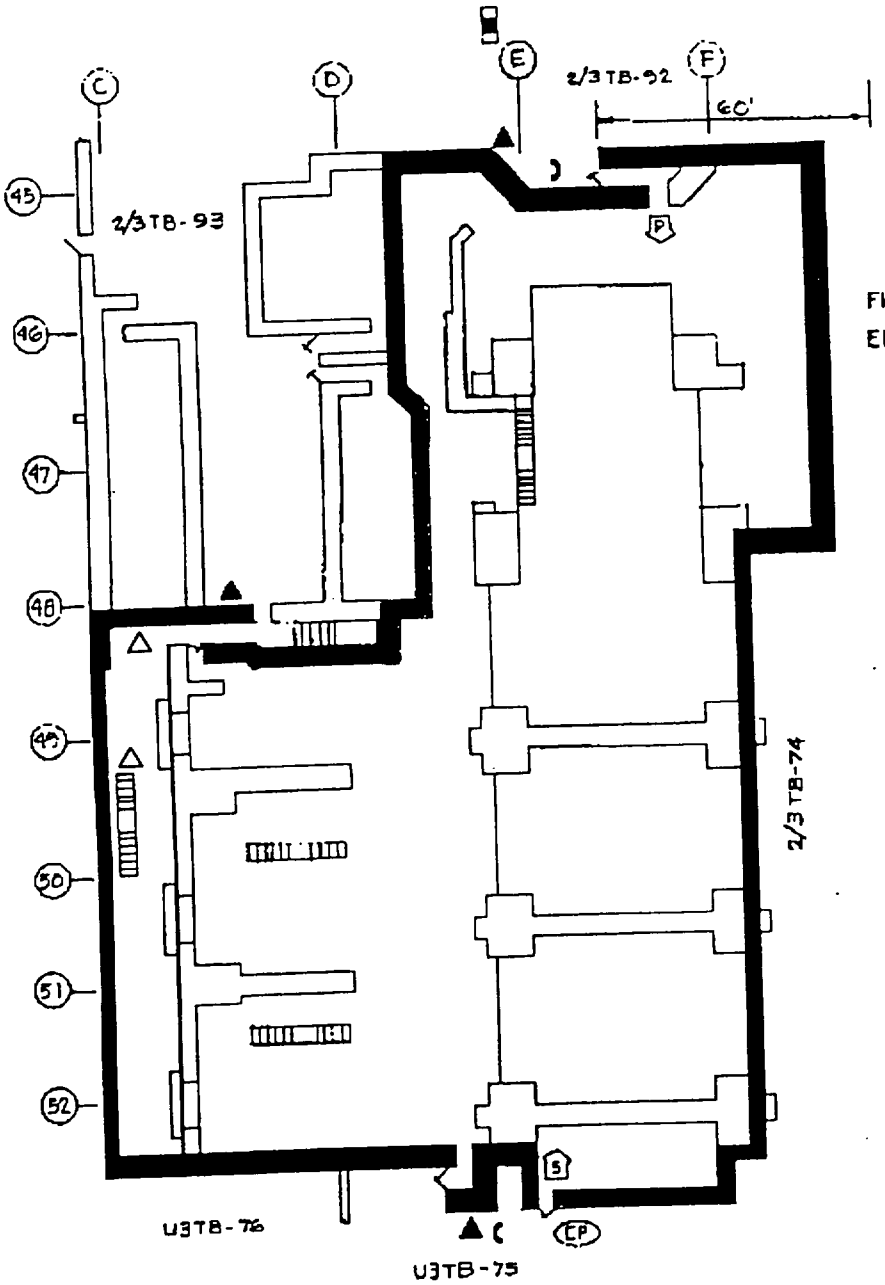
DG2 Cooling Water Flow Indicator
FI2-3941-880A

## 8.0 COMMUNICATIONS

2 Extension phones available
Portable Radios

## 9.0 CONSTRUCTION

All Walls Reinforced Concrete




FIRE ZONE 8.2.5.D
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. U3TB-68 & U3TB-69 AT LEVELS BELOW
2. U3TB-78 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.D
Low Pressure Heater Bays

**2.0 Access:**

2.1 Primary: Doorway in East wall of Unit 3 Shield Wall el. 517', Rad key needed to access area

2.2 Secondary: Doorway in West wall of Unit 3 Shield Wall el. 517', Rad key needed to access area

**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 |
|---|---|---|---|
| 3-4404 | Condenser Wtr Box Vacuum Pump | F6 | MCC 35-2 |

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: Wet Pipe Sprinkler System

4.3 Hose Reels: 1 - $CO_2$ Hose Reel located in adjacent area

4.4 Portable Extinguishers: 3 - $CO_2$ located in adjacent areas
2 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post in Unit 3 RR Trackway of 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 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 534' el. SW of TBCCW Heat Exchangers for N Turbine Bay and at 561' el. by MG set at Col. 47-G for S Turbine Bay.
- Provide a fire watch until fire detection 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 Ejector and Flexible Ducting to exhaust smoke out East door of Unit 3 Shield Wall el. 517'

NOTE: Exhaust to outdoors only with H/P approval.

## 7.0 Exposures:

Main Condensers Moisture Separator Tanks
DG2 Cooling Water Flow Indicator FI2-3941-880A

## 8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 2 Extension Phones nearby

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel with hatches and stairwells.

9.2 Wall:

a. North: Minimum 18" Reinforced concrete/concrete block
b. South: 36" Reinforced concrete
c. East: 36" Reinforced concrete
d. West: 36" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete on exposed steel with stairwells and hatches.

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.E
H.P. Heaters/Steam Lines

## 2.0 ACCESS

Primary: Door on South wall of Unit 3 Turbine Bldg. Hallway West of MCC 36-1, el. 517'-6". Rad key needed to access area

Secondary: None

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System

1 - $CO_2$ Portable Extinguisher outside room
1 - Dry Chemical outside room
1 - Hose Reel outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in hallway at Unit 2
- Provide support to sprinkler 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 and Overhaul
- Provide surveillance of sprinkler system control valve and for 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 the North wall door of the HP Heater Room el. 517' Unit 3

## 7.0 EXPOSURES

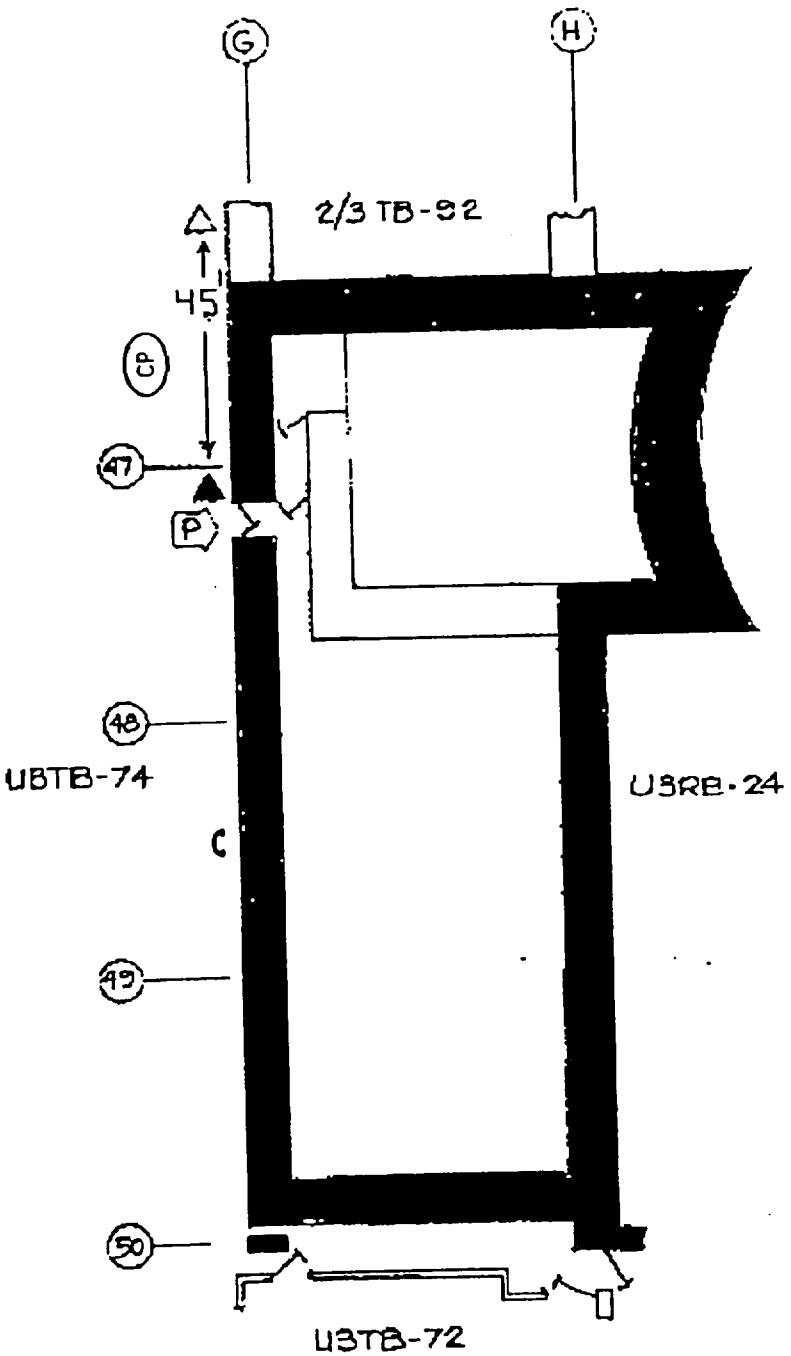
MSIVs
HPCI Valve Motor 3-2301-8

## 8.0 COMMUNICATIONS

1 Extension Phone nearby
Portable Radios

## 9.0 CONSTRUCTION

All walls concrete construction Floor and Ceiling are concrete on exposed steel




FIRE ZONE 8.2.5.E
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
- C TELEPHONE
- P PRIMARY ACCESS
- S SECONDARY ACCESS

NOTES

1. U3TB-78 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.E
H.P. Heaters/Steam Lines

**2.0 Access:**

2.1 Primary: Door on South wall of Unit 3 Turbine Bldg. Hallway west of MCC 36-1, el. 517'. Rad key needed to access area

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 |
|---|---|---|---|
| 5710 | H.P. Feed Heater | B1 | MCC 36-1 |
| 3203 | "D" Cell Vent Fan High Pressure Feedwater Htrs By-Pass Valve | C4 | MCC 36-1 |
| 3202A | High Pressure Feedwater Htr. 3D1 Inlet Valve | C1 | MCC 36-1 |
| 3202B | High Pressure Feedwater Heater 3D2 Inlet Valve | C2 | MCC 36-1 |
| 3204A | High Pressure Feedwater Htr. 3D1 Outlet Valve | D1 | MCC 36-1 |
| 3204B | High Pressure Feedwater Htr. 3D2 Valve | D2 | MCC 36-1 |
| 3202C | High Pressure Feedwater 3D3 Inlet Valve | C3 | MCC 36-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3204C | High Pressure Feedwater 3D3 Outlet Valve | D3 | MCC 36-1 |
| 3103A | High Pressure Feed Heater 3D1 Extractor Steam Valve | D4 | MCC 36-1 |
| 3103B | High Pressure Feed Heater 3D2 Extractor Steam Valve | EI | MCC 36-1 |
| 3103C | High Pressure Feed Heater 303 Extractor Steam Valve | E2 | MCC 36-1 |

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 System in High Pressure Heater Bay

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

4.4 Portable Extinguishers: 1 - $CO_2$ located in adjacent area
1 - Dry Chemical located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post at Unit 3 Hallway Opening From Unit 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 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 by MG

set near Col. 47-G (controls S Turbine Cavity).
- Provide a fire watch until the 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 through the door at the North wall of Room el. 517' into hallway toward U-3 trackway el. 517'

**7.0 Exposures:** MSIVs
HPCI Valve Motor 3-2301-8

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 1 Extension Phone nearby

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

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

9.3 Ceiling: 18" Concrete on exposed steel/open above H.P. Heater Bay.

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.E
Reactor Feed Pump

## 2.0 ACCESS

Primary: Door at the NW corner of the Unit 3 Reactor Feed Pump Room, el. 517'

Secondary: Door at the SE wall of the Unit 3 Reactor Feed Pump Room el. 517'

## 3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment
Location of Pump in room

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinkler System

1 - $CO_2$ Portable Extinguisher
1 - Dry Chemical Portable Extinguisher outside room
1 - Hose Reel outside room
1 - Hose Cabinet outside room
1 - $CO_2$ Hose Reel outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in Unit 3 RR trackway el. 517'
- Provide support to Sprinkler 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 and Overhaul
- Provide surveillance of Sprinkler System control valve and 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 at the NW corner of Rx Feed Pump Rm Unit 3 el. 517' into the Unit 3 RR Trackway

## 7.0 EXPOSURES

Reactor Feedwater Pump

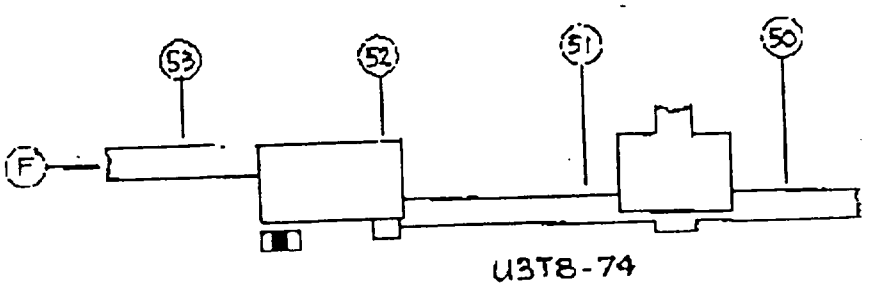
## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

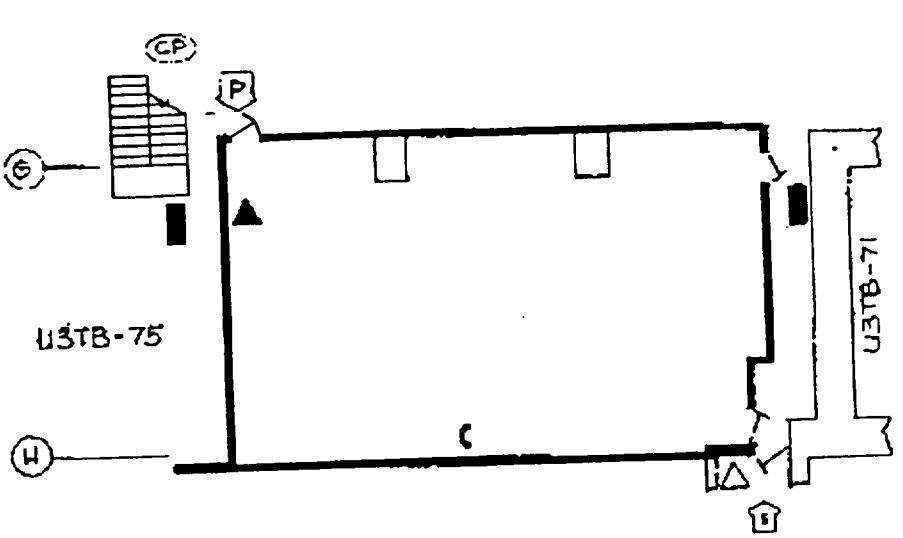
## 9.0 CONSTRUCTION

Floor-3-hour concrete
Ceiling-Steel (sound Barrier const)
Walls-Steel (sound Barrier const) Except for South, Metal siding

FIRE ZONE 8.2.5.E
ELEVATION 517'-6"




U3TB-74




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. U3TB-77 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Area 8.2.5.E
Reactor Feed Pump

**2.0 Access:**

2.1 Primary: From the door in the NW corner of Unit 3 Reactor Feed Pump Room, el. 517'

2.2 Secondary: From the Door on the South East Wall of Reactor Feed Pump Room, 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 |
|---|---|---|---|
| 3201-C | Rx Feed Pump Discharge Valve 3C | A2 | MCC 36-1 |
| 3A-3201 | Reactor Feed Pumps | 3102 | Swgr 4160V 31 |
| 3B-3201 | Reactor Feed Pumps | 3203 | 4160V Swgr 32 |
| 3C-3201 | Reactor Feed Pumps | 3103<br>3202 | 416OV Swgr 32 & 31 |
| 3A | Rx Feed Pump Auxiliary Oil Pump | A1 | 480V MCC 35-2 |
| 3B | Rx Feed Pump Auxiliary Oil Pump | B4 | MCC 36-1 |
| 3C | Rx Feed Pump Auxiliary Oil Pump | B5 | MCC 36-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3201A | Rx Feed Pump Discharge Valve 3A | E3 | MCC 36-1 |
| 3201B | Rx Feed Pump Discharge Valve 3B | E4 | MCC 36-1 |
| 3205A | Rx Feed Water Inlet Valve 3A | F1 | MCC 36-1 |
| 3205B | Rx Feed Water Inlet Valve 3B | F2 | MCC 36-1 |

3.3 Hazardous Substances: Radioactive Equipment

3.4 Physical Hazards: Pump located in front of NE Door

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler System

4.3 Hose Reels: 1 - $CO_2$ Hose Reel located in adjacent area
1 - Hose Cabinet located in adjacent area
1 - Hose Reel located in adjacent area

4.4 Portable Extinguishers: 1 - $CO_2$
1 - Dry Chemical located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post in Unit 3 Turbine Bldg. RR Trackway 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 are 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 between

the Reactor Feed Pumps.
- 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 through door at NW corner of Rx Feed Pump Room Unit 3 into U-3 trackway el. 517'.

**7.0 Exposures:** Reactor Feedwater Pumps

**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 exposed steel

9.2 Wall:

a. North: Steel (Sound Barrier Construction)
b. South: Metal Siding
c. East: Steel (Sound Barrier Construction)
d. West: Steel (Sound Barrier Construction)

9.3 Ceiling: Open to general area

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

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'
Fire Zone - 9.0.B
Diesel Generator

## 2.0 ACCESS

Primary: From door on North Wall of Unit 3 Generator Room, elev. 517'-6", 'DS' Key needed for entry.

Secondary: From double door at the NW corner of Unit 3 Generator Room, el. 517'

## 3.0 HAZARDS

Fire: Diesel Fuel Oil
Lubricating Oil
Cable Insulation
HVAC Flex Connections
Polyethylene

Electrical: See 3.2

Other: $CO_2$ release possible in room.
Transformer containing PCB.

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Thermal
Suppression: $CO_2$ System, Local Wet Pipe
1 - Hose Cabinet outside room
1 - $CO_2$ Portable Extinguisher outside room
1 - Dry Chemical Portable Extinguisher outside room
1 - $CO_2$ Hose Reel outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Unit 3 Trackway el. 517'
- Check Suppression System actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose lines
- Search Area for victims
- Caution: De-energize equipment
- Ventilate -- Overhaul
- Provide a Fire Watch
- Position person at Control Valve
- CAUTION: Combustible gap material

## 6.0 VENTILATION

Fixed: Local Control of exhaust Fan From local control switch Panel under Mezzanine.

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke thru door on the North Wall of the Unit 3 Generator Room el. 517' into U-3 Trackway Area.

Fire Dampers: Fire dampers may not close against air flow therefore, shut down of the ventilation system may be required.

## 7.0 EXPOSURES

Safety-Related Equipment (See 7.0)

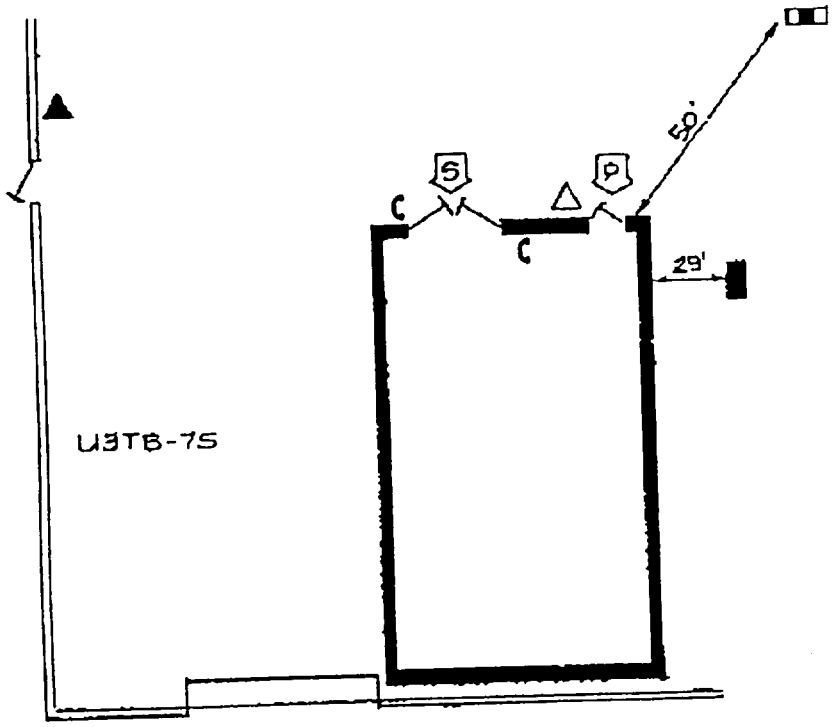
## 8.0 COMMUNICATIONS

2 Extension Phones (1 located in adjacent area)
Portable Radios

## 9.0 CONSTRUCTION

Concrete all sides - 3-hour rated

FIRE ZONE 9.0.B
ELEVATION 517'-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. U3TB-77 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 9.0.B
Diesel Generator

**2.0 Access:**

2.1 Primary: From door on the North Wall of Unit 3 Generator Room, el. 517' 'DS' Key needed for entry.

2.2 Secondary: From double doors at the NW corner of Unit 3 Generator Room, el. 517'

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Diesel generator | Lubricating oil | B |
| Diesel fuel oil day tank | Fuel oil | B |
| Panels | Cable insulation | A,C |
| | Polyethylene | A |
| Ventilation system | HVAC flex connections | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5203 | Diesel Fuel Oil Transfer Pump | E1 | MCC 39-2 |
| 3A | Diesel Starting Air Compressor | D5 | MCC 38-2 |
| 3-5790 | Diesel Gen. Room Vent Fan | E3 | MCC 39-2 |
| 3B | Diesel Starting Air Compresso | A2 | MCC 39-2 |
| 3 | Diesel Circ. Water Heater | A2 | MCC 38-3 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: Diesel Neutral Transformer containing PCB

3.5 Life Safety: $CO_2$ release possible in room.

## 4.0 Fire Protection Equipment:

4.1 Detection: Thermal Detection

4.2 Automatic Suppression: $CO_2$ System; Day Tank has both $CO_2$ and a Wet Pipe System

4.3 Hose Reels: 1 - $CO_2$ Hose Reel located in adjacent area
1 - Hose Cabinet located in adjacent area

4.4 Portable Extinguishers: 1 - $CO_2$ located in adjacent area
1 - Dry Chemical located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post in Unit 3 RR Trackway 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. behind West Turbine Stairs and U-3 Service Air Compressors.
- Provide a fire watch until fire detection system and fire suppression system are returned to service, if out of service time greater than 1 hour per DATRs.
- 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: Diesel Room Exhaust Fan controlled by Local Control Panel under mezzanine.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke through the door on the North Wall of the Unit 3 Generator Room el. 517', into U-3 Trackway Area.

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**

- 2500 KW Standby Diesel Unit 3
- Diesel Room Vent Fan
- Air Receiver
- Diesel Fuel Oil Transfer Pump
- 750 gallon Diesel Fuel Oil Day Tank

**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: 18" Reinforced concrete on grade

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, 3-hour rated

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.E
Condensate Transfer Pumps/Hallway

## 2.0 ACCESS

Primary: From Unit 2 Hallway, el. 517'

Secondary: From Unit 3 RR Trackway, el. 517'

## 3.0 HAZARDS

Fire: Cable Insulation, Rubber Lubricating Oil, Cloth

Electrical: See 3.2

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers by Cable Trays on East Side of Fire Zone
Detection: Ionization

1 - Hose Cabinet outside area
1 - Hose Reel outside area
2 - $CO_2$ Portable Extinguishers
2 - Dry Chemical Portable Extinguishers
1 - $CO_2$ Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in hallway near Unit 2/3 separation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize equipment
- Ventilate and Overhaul
- Provide surveillance over Sprinkler System areas

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to Unit 3 Turbine Building RR Trackway el. 517'

## 7.0 EXPOSURES

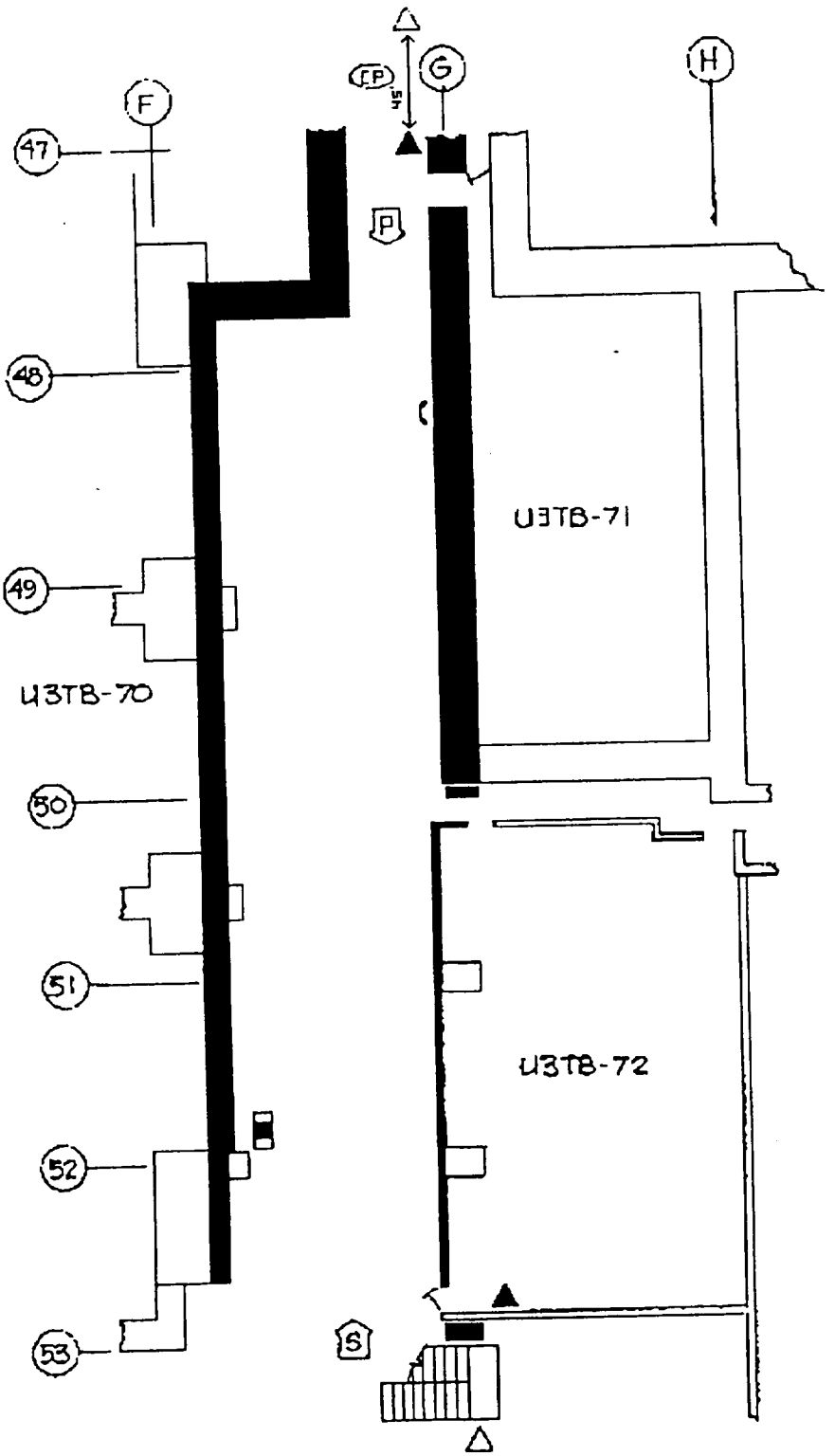
Cable Trays
MCC 36-1
Condensate Transfer Pumps 3A, 3B
Condensate Transfer Pump Pressure Indicators 3-3341-39A, 39B

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Floor/Ceiling - Reinforced Concrete on exposed steel
North and South Walls - Reinforced Concrete
East/West - Open




FIRE ZONE 8.2.5.E
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. U3TB-78 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.E
Condensate Transfer Pumps/Hallway

**2.0 Access:**

2.1 Primary: From Unit 2 Turbine Building Hallway, el. 517'.

2.2 Secondary: From Turbine Building Unit 3 RR Trackway, el. 517'.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Electrical Cables, Panels | Cable Insulation | A, C |
| Pumps | Lubricating Oil | B |
| Clothing | Rubber, Cloth | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-4321 | Cond. Transfer Jockey Pump | B1 | MCC 28-2 |
| 3A-4301 | Cond. Transfer Pumps | D3 | MCC 38-2 |
| 3B-4301 | Cond. Transfer Pumps | A5 | MCC 39-2 |
| 3A-4320 | Cond. Make-up Pumps | H1 | MCC 36-1 |
| 3B-4320 | Cond. Make-up Pumps | H2 | MCC 36-1 |
| MCC 36-1 | Motor Control Center 36-1 | 364B | Swgr 36 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

| | | |
|---|---|---|
| 4.1 | Detection: | Ionization Detectors |
| 4.2 | Automatic Suppression: | Wet Pipe Sprinklers by cable trays on the East side of the fire zone |
| 4.3 | Hose Reels: | 1 - Hose Cabinet located in adjacent area<br>1 - Hose Reel<br>1 - $CO_2$ 1" - 200'-0" Hose Reel |
| 4.4 | Portable Extinguishers: | 2 - $CO_2$, (one located adjacent area)<br>2 - Dry Chemical located in adjacent areas |

## 5.0 Guidelines for Fire Attack:

- Establish command post in Hallway near Unit 2/3 Division Line.
- 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 electric shock.
- De-energize electrical equipment if possible (See Section 3.2 for electric component listings).
- Ventilate area--utilize fixed ventilation system (see Section 6.2) 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 Ejectors and Flexible Ducting to exhaust smoke to Unit 3 RR Trackway el. 517'. |

## 7.0 Exposures:

Cable Trays
Condensate Transfer Pumps 3A, 3B
Coordinate Transfer Pump Pressure Indicators 3-3341-39A, 39B
MCC 36-1

## 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 steel

9.2 Wall:

a. North: 36" Reinforced concrete
b. South: 48" Reinforced concrete/steel for reactor feed pump rooms
c. East: Open
d. West: Open

9.3 Ceiling: 18" Reinforced concrete with exposed steel

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.E
Trackway Area

## 2.0 ACCESS

Primary: From Unit 3 Hallway, el. 517'

Secondary: From the Unit 3 Trackway door from the exterior, el. 517'

## 3.0 HAZARDS

Fire: Cable Insulation
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 Sprinkler above trackway
1 - $CO_2$ Hose Reel
1 - Hose Reel
1 - Hose Cabinet
3 - $CO_2$ Portable Extinguishers
2 - Dry Chemical Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post in hallway of Unit 3 Turbine Bldg. el. 517'-6"
- Provide support for Sprinkler Sys.
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate and Overhaul
- Provide surveillance of Sprinkler System valve and 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 exhaust smoke to Unit 3 Hallway el. 517'

Fire Dampers: Fire dampers in ducts leading to the Unit 3 diesel generator room may not close against air flow therefore, shut down the ventilation system to ensure closure.

## 7.0 EXPOSURES

Division I and II Cable Trays
DG 3 Cooling Water Flow Indicator

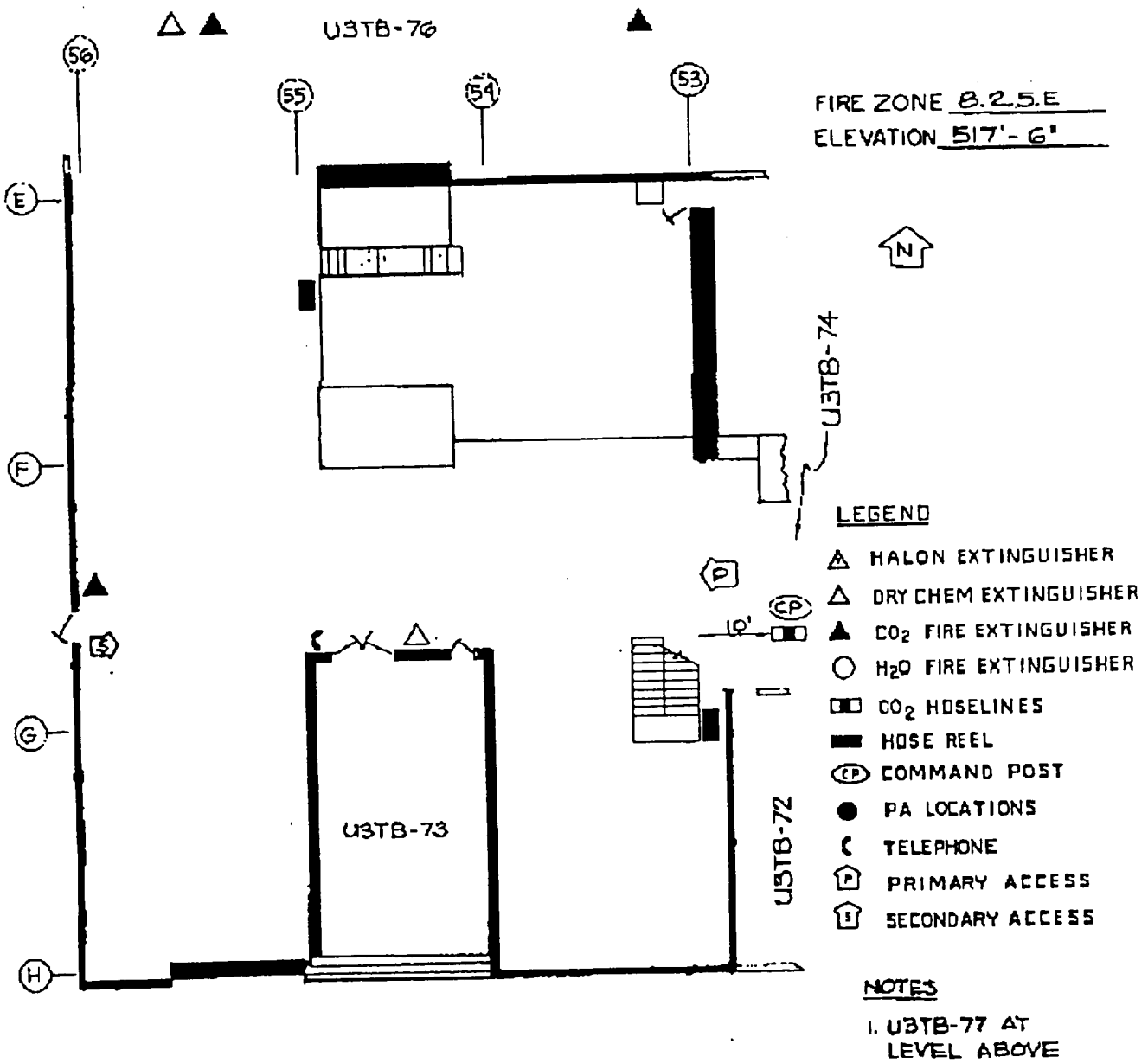
Note: It is important to minimize damage to cable trays in this area

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Ceiling & Floor - Reinforced concrete on exposed steel
North - Open
South - Concrete/steel siding
East - Concrete/steel siding
West - Steel siding


U3TB-76
56
55
54
53
E
F
G
H
5
P
CP
10'
U3TB-74
U3TB-73
U3TB-72
FIRE ZONE 8.2.5.E
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. U3TB-77 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.E
Trackway Area

**2.0 Access:**

2.1 Primary: From Unit 3 Hallway, el. 517'

2.2 Secondary: From Unit 3 exterior Trackway door, el. 517'

**3.0 Hazards:**

3.1 Fire:

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

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2/3 A-5515 | Concentrated Acid Transfer Pump | B1 | MCC 27-4 |
| 2/3 B-5515 | Concentrated Acid Transfer Pump | C427-2 | |
| 3-4715 | Instr Air Compressor | 375A | 480V Swgr 37 |
| 3-4706 | Instr Air Compressor | 363B | 480V Swgr 36 |
| 2/3 A-5516 | Concentrated Caustic Transfer Pumps | A427-2 | |
| 2/3 B-5516 | Concentrated Caustic Transfer Pumps | C227-4 | |
| 3-4601 | Service Air Compressor | 363D | 480V Swgr 36 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 36-4 | MCC | 364C | 480V Swgr 36 |
| | Safety Valve Test Boiler<br>Turbine Bldg. Freight Door | J5 MCC 35-2<br>A6MCC 36-1 | |

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 3 diesel generator room.

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: Wet Pipe Sprinklers localized in Trackway

4.3 Hose Reels: 1 - $CO_2$ Hose Reel
1 - Hose Reel
1 - Hose Cabinet

4.4 Portable Extinguishers: 3 - $CO_2$
2 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post in Hallway of Unit 3 Turbine bldg. 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 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
- Provide an hourly fire inspection until fire suppression system is returned to service, if out of service time greater than 1 hour per Tech. Spec. 3.12.C.2.b.

**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 Ejectors and Flexible Ducting to exhaust smoke to Unit 3 Hallway el. 517'

6.3 Fire Dampers: Fire dampers in ducts leading to the Unit 3 diesel generator room may not close against air flow therefore, shut down the ventilation system to ensure closure.

**7.0 Exposures:** It is important to minimize damage to cable trays in this area.
Div. I and II Cable Trays
DG 3 Cooling Water Flow Indicator FI3-3941-34A

**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 exposed steel

9.2 Wall:

a. North: Open
b. South: 12" Concrete around DG room/steel siding
c. East: 36" Concrete/steel for reactor feed pump room
d. West: Steel siding

9.3 Ceiling: 18" Reinforced concrete on exposed steel

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone - 8.2.5.E
Switchgear Area

## 2.0 ACCESS

Primary: From Unit 3 Trackway el. 517'

Secondary: None

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: 480V and 4kV Switchgear

Other: 2 Transformers containing Pyranol.

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
2 - $CO_2$ Portable Extinguishers
1 - Dry Chemical Portable Extinguisher
1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Reactor Feed Pump
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose lines
- Search Area for victims
- Caution: Electrical Equipment
- Ventilate - Overhaul
- Fire Watch

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize smoke ejectors to exhaust smoke into the Unit 3 Trackway el. 517'

## 7.0 EXPOSURES

Division I and II cable trays
SWGR 31, 32, 35, 36

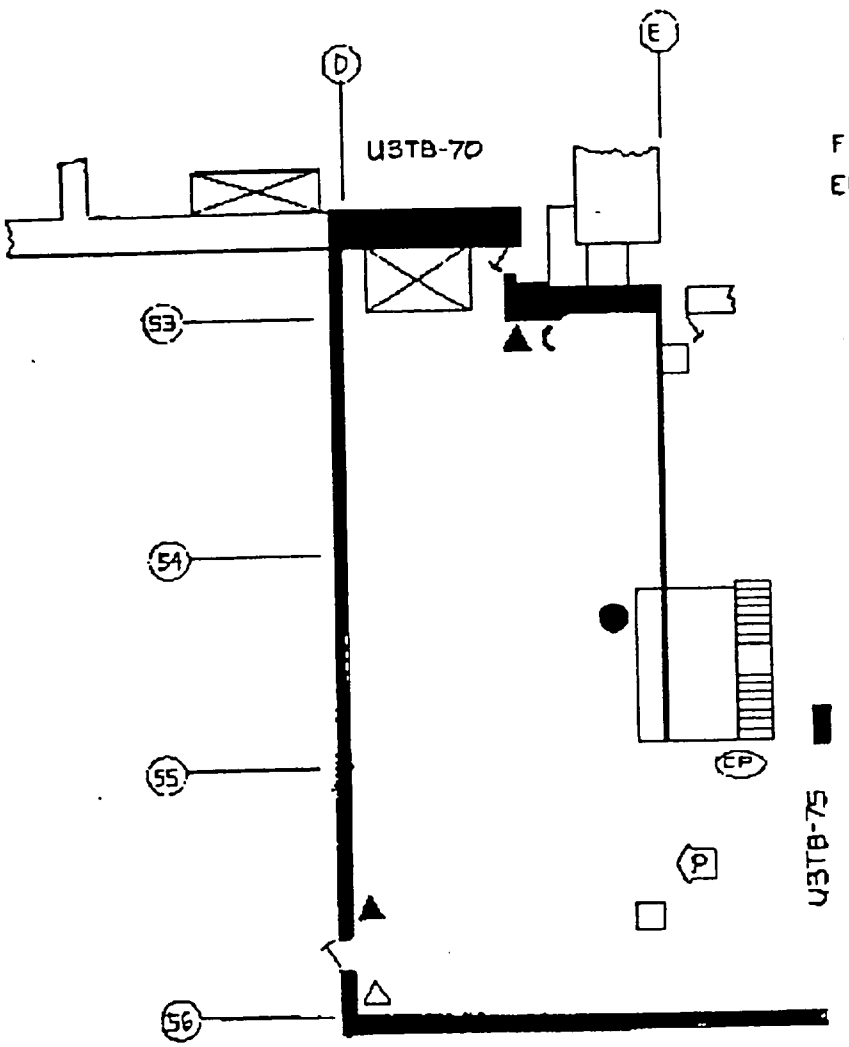
Note: Important to minimize damage to cable trays

## 8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Floor/ceiling - Concrete on exp. steel
North and East walls - Concrete
West Wall - Steel siding




FIRE ZONE 8.2.5.E

ELEVATION 517'-6"

N

LEGEND

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

NOTES

1. U3TB-77 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.E
Switchgear Area

**2.0 Access:**

2.1 Primary: From Unit 3 Trackway, el. 517'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Panels, Electrical Cables | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| Swgr 35 & 36 | 480V | | |
| Swgr 31 & 32 | 4-kV | | |
| 35 | 480V Swgr 35 | 3309 | 4160V Swgr 33 |
| 36 | 480V Swgr 36 | 3402 | 4160V Swgr 45 |
| Bus 31 | 4kV Swgr | 3101 | Unit Aux. Trans 31 |
| Bus 92 (32) | 4kV Swgr | 3201 | Unit Aux. Trans 32 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: 2 - Transformers (35 and 36) containing Pyranol.

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 2 - $CO_2$
1 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post in Corridor at Reactor Feed Pumps
- 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.

## 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 Ejectors to exhaust smoke into the Unit 3 Trackway el. 517'

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

## 7.0 Exposures:

Div. I and II Cable Trays
SWGR 31, 32, 35, 36

NOTE: Important to minimize damage to cable trays

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location South wall behind switchgear 36

8.3 Telephone: 1 Extension Phone located behind switchgear on East wall

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

a. North: 12" Concrete, 3-hour rated exterior only
b. South: Open
c. East: 48" Concrete
d. West: Steel siding

9.3 Ceiling: Concrete on exposed steel

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 538'-0"
Fire Zone - 8.2.6.E
RFW. Swgr, $H_2$ Seal O.C.

## 2.0 ACCESS

Primary: Up stairs near MCC 38-2 and 38-3, el. 517' to el. 538'

Secondary: Down stairs near MCC 38-2 and 38-3 el. 561-'6" to el. 538' Main Turbine Floor

## 3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil
Hydraulic Oil
Acrylic Plastic

Electrical: See 3.2

Other: Transformer containing PCB

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Thermal
Suppression: Wet Pipe System (5L-54/F)
Water Spray System (open head system) over Hydrogen Seal Oil Unit
1 - $CO_2$ 1" Hose Reel
2 - Hose Reels
1 - Hose Cabinet
2 - $C0_2$ Portable Extinguishers
1 - Dry Chemical (BC) with 8'-0" Aluminum Applicator

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at base of steps on ground level
- Provide support for Sprinkler 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 and Overhaul
- Provide surveillance for Sprinkler System control valve and 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 near MCC 38-2

## 7.0 EXPOSURES

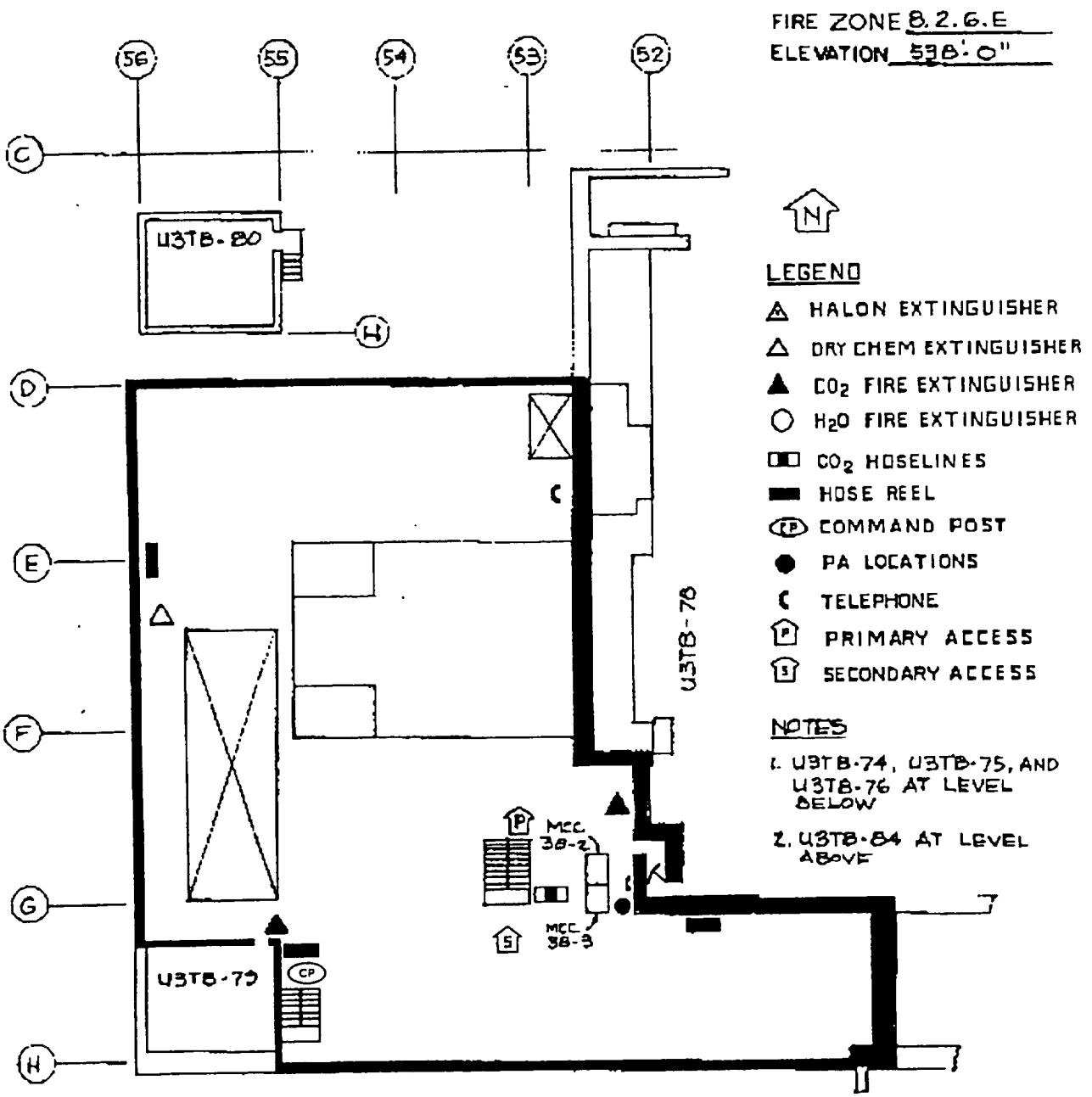
Cable Trays
4kV Swgr, 33 and 34
480V MCC 38-2, 38-3, and 35-2 Analog trip module 2203-73A and B 125V Battery

## 8.0 COMMUNICATIONS

1 P.A. Location
2 Extension Phones
Portable Radios

## 9.0 CONSTRUCTION

Floor & Ceiling - Concrete on exposed steel
North and East Walls - Concrete
South and West Walls - Metal siding except for concrete around battery room


FIRE ZONE 8.2.6.E
ELEVATION 538'-0"
56
55
54
53
52
C
D
E
F
G
H
U3TB-80
U3TB-79
U3TB-78
MCC 38-2
MCC 38-3
CP
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. U3TB-74, U3TB-75, AND U3TB-76 AT LEVEL BELOW
2. U3TB-84 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 538'-0"
Fire Zone 8.2.6.E
RFW. Swgr. $H_2$ Seal 0.C.

**2.0 Access:**

2.1 Primary: Up stairs near MCC 38-2 and 38-3, el. 517' to el. 538'

2.2 Secondary: Down stairs near MCC 38-2 and 38-3 Main Turbine Floor, el. 561'-6" to el. 538'

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Feedwater Reg. Valve | Hydraulic oil | B |
| Hydrogen seal oil unit | Lubricating oil | B |
| Panels, Electrical cables | Cable Insulation | A,C |
| Battery Cells | Acrylic Plastic | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 38-2 | 480V MCC | 384B | 480V Swgr 38 |
| 38-3 | 480V MCC | 384D | 480V Swgr 38 |
| | Voltage Regulator | J6 | 480V MCC 35-2 |
| 3A | Isolated Phase Bus Blower | E1 | MCC 35-2 |
| 3B | Isolated Phase Bus Blower | A5 | MCC 36-1 |
| 33 | 4KV Swgr 33 | 3312 | Unit Aux. 31 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 34 | 4KV Swgr 34 | 3401 | Unit Aux. 32 |
| 35-2 | MCC 35-2 | 355B | Swgr 35 |
| 3-5616 | Hydrogen Seal Oil Vacuum Pump | B6 | 480V MCC 38-2 |
| 3-4732 | Instr Air Compressor | 374B | 48OV Swgr 37 |
| 3A | Gen. Stator Cooling Pump | 354B | 480V Swgr 35 |
| 3206A | F.W. Regulator Isol. Valve 3A | F3 | MCC 36-1 |
| 3206B | F.W. Regulator Isol. Valve 3B | F4 | MCC 36-1 |
| | Main Hydrogen Seal Oil Pump | D1 | 480V MCC 38-2 |
| 3A | RX Feed Pump Vent Fan | 355C | 480V Swgr 35 |
| 3B | RX Feed Pump Vent Fan | 365B | 480V Swgr 36 |
| 3A | RX Bldg. Vent Fan | 383B | 480V Swgr 38 |
| 3B | RX Bldg. Vent Fan | 395B | 480V Swgr 39 |
| 3C | RX Bldg. Vent Fan | 383C | 480V Swgr 38 |

3.3 Hazardous Substances: Battery Acid

3.4 Physical Hazards: Generator Neutral Grd. Transformer containing PCB
"DS" Key required to access case area

3.5 Life Safety: None

**4.0 Fire Protection Equipment:**

4.1 Detection: Ionization Detection System Local
Thermal Detection System Local

4.2 Automatic Suppression: Wet Pipe Sprinkler System (column/row: 52-54/F)
Water Spray (Open Head System) over Hydrogen Seal Oil Unit

4.3 Hose Reels: 1 - $CO_2$ 1"-150'-0" Hose Reel
2 - Hose Reels
1 - Hose Cabinet

4.4 Portable Extinguishers: 2 - $CO_2$
1 - Dry Chemical (BC) with 8'-0" Aluminum Applicator

## 5.0 Guidelines for Fire Attack:

- Establish command post at base of steps at ground floor level near the NW corner of Unit 3 Rx Feed Pump Room.
- 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 valves which are located as follows:

  **Wet Pipe Sprinklers:**
  Valve located halfway down West stairs from 561' el., South of Seal Oil Unit.

  **Deluge System:**
  Valve located halfway down West stairs from 561' el., South of Seal Oil Unit.

- 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.

## 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 located near MCC 38-2 el. 538'.

## 7.0 Exposures:

Cable Trays
4kV Swgr 33, 34
480V MCC 38-2, 38-3, 35-2
Analog trip modules 2203-73A & B
125V Battery

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: P.A. Location

8.3 Telephone: 2 Extension Phones

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

a. North: 12" Reinforced concrete with exposed structural steel
b. South: Metal siding except concrete around battery room
c. East: Minimum 36" concrete
d. West: Metal siding except for concrete around battery room

9.3 Ceiling: 18" Reinforced concrete on exposed steel

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



**SPECIAL NOTE:**

Extra lengths (minimum 50') of hose need to be added to hose stations prior to charging hoses to reach this area.

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 538'
Fire Zone 8.2.6.D
Low Pressure Heater Bays

## 2.0 ACCESS

Primary: From door on the East wall of Unit 3 Shield Wall, el. 534', Rad key needed to access area.

Secondary: From door on west wall of Unit 3 Shield Wall, el. 534', Rad key needed to access area

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive equipment

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System
2 - $CO_2$ Portable Extinguishers outside room
2 - Hose Reels outside room
1 - $CO_2$ Hose Reel outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near door at Turbine Oil. Reserv.
- Check Sprinkler Actuation
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose lines
- Search Area for victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul
- Position Person at Sprinkler System Control Valves
- 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 thru personnel door on West Shield Wall el. 534'

## 7.0 EXPOSURES

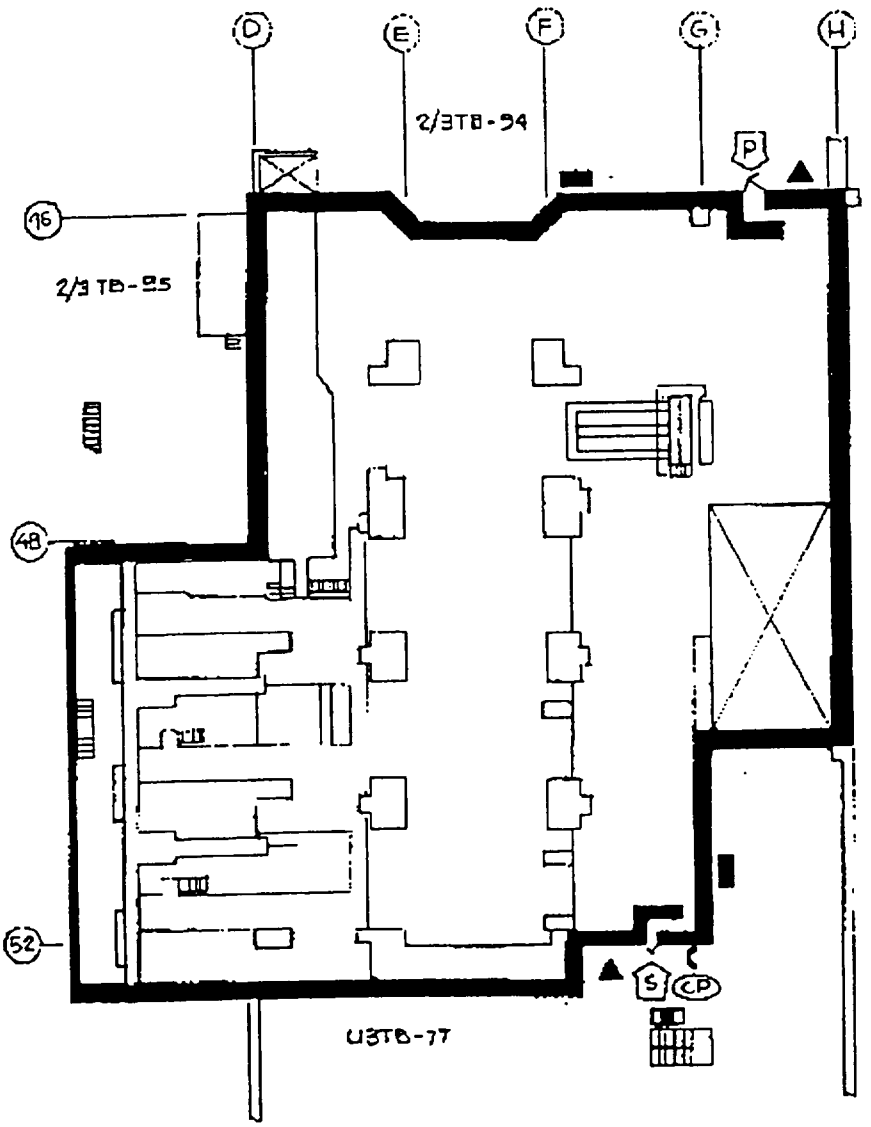
Division I and II Cable Trays

## 8.0 COMMUNICATIONS

1 Extension Phone nearby
Portable Radios

## 9.0 CONSTRUCTION

Concrete on all sides




FIRE ZONE B.2.6.D
ELEVATION 517' - 538'

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. U3TB-70 AT LEVEL BELOW
2. U3TB-85 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 538'
Fire Zone 8.2.6.D
Low Pressure Heater Bays

**2.0 Access:**

2.1 Primary: From door on Unit 3 East Shield Wall, el. 534'. Rad key needed to access area.

2.2 Secondary: From door on Unit 3 West Shield Wall, el. 534'. Rad key needed to access area.

**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 |
|---|---|---|---|
| 3-3005 | Main Steam Lead Drain | A2 | MCC 35-1 |
| 3-3101A | LP. Feed Htr. 3B1 Extractor Steam Valve | G1 | MCC 35-2 |
| 3-31O1B | LP. Feed Htr. 3B2 Extractor Steam Valve | G2 | MCC 35-2 |
| 3-3101C | LP. Feed Htr. 3BC Extractor Steam Valve | G3 | MCC 35-2 |
| 3-3102A | LP. Feed Htr. 3C1 Extractor Steam Valve | G4 | MCC 35-2 |
| 3-3102B | LP. Feed Htr. 3C2 Extractor Steam Valve | H1 | MCC 35-2 |
| 3-31O2C | LP. Feed Htr. 3C3 Extractor Steam Valve | H2 | MCC 35-2 |

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: Wet Pipe Sprinkler System protecting area except over the condensers

4.3 Hose Reels: 2 - Hose Reels located in adjacent areas
1 - $CO_2$ 1"-150'-0" Hose Reel located in adjacent area

4.4 Portable Extinguishers: 2 - $CO_2$ located in adjacent areas

## 5.0 Guidelines for Fire Attack:

- Establish command post near Turbine Oil Reservoirs el. 534'.
- 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 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 a person with a portable radio at each of 2 sprinkler system control valves. One control valve is located at el. 534' SW of TBCCW Heat Exchangers behind Radwaste Air Compressor for north Turbine Cavity Sprinklers. The other control valve is located at el. 561' at MG set near Col. 47-G.
- Provide a hourly fire watch until fire suppression system is returned to service, if out of service time greater than 1 hour per DATRs.
- **SPECIAL NOTE:** Extra lengths (minimum 50') of hose need to be added to hose stations prior to charging hoses to reach this area.

## 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 through personnel door on West Shield Wall el. 534' toward the open hatchway.

**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 located in adjacent area

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete

9.2 Wall:

a. North: Minimum 18" Reinforced concrete
b. South: 48" Reinforced concrete
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 3 Turbine Building
Elevation 538'
Fire Zone 6.1
U-3 Battery Charger Room

## 2.0 ACCESS

Primary: Entrance from door at SW corner of Unit 3 Turbine Bldg., el. 538', may require 'DS' Key for entry

Secondary: None

## 3.0 HAZARDS

Fire: Cable insulation

Electrical: See 3.2 Low Voltage (under 440-V)

Other: One means of egress

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization

1 - Hose Reel outside room
1 - $CO_2$ 150 ft. Hose Reel outside room
2 - $CO_2$ Portable Extinguishers outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at stairs near Hydrogen Seal Oil Unit
- S.C.B.A.
- Attack with Port. Ext., followed 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 Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to open hatchway

## 7.0 EXPOSURES

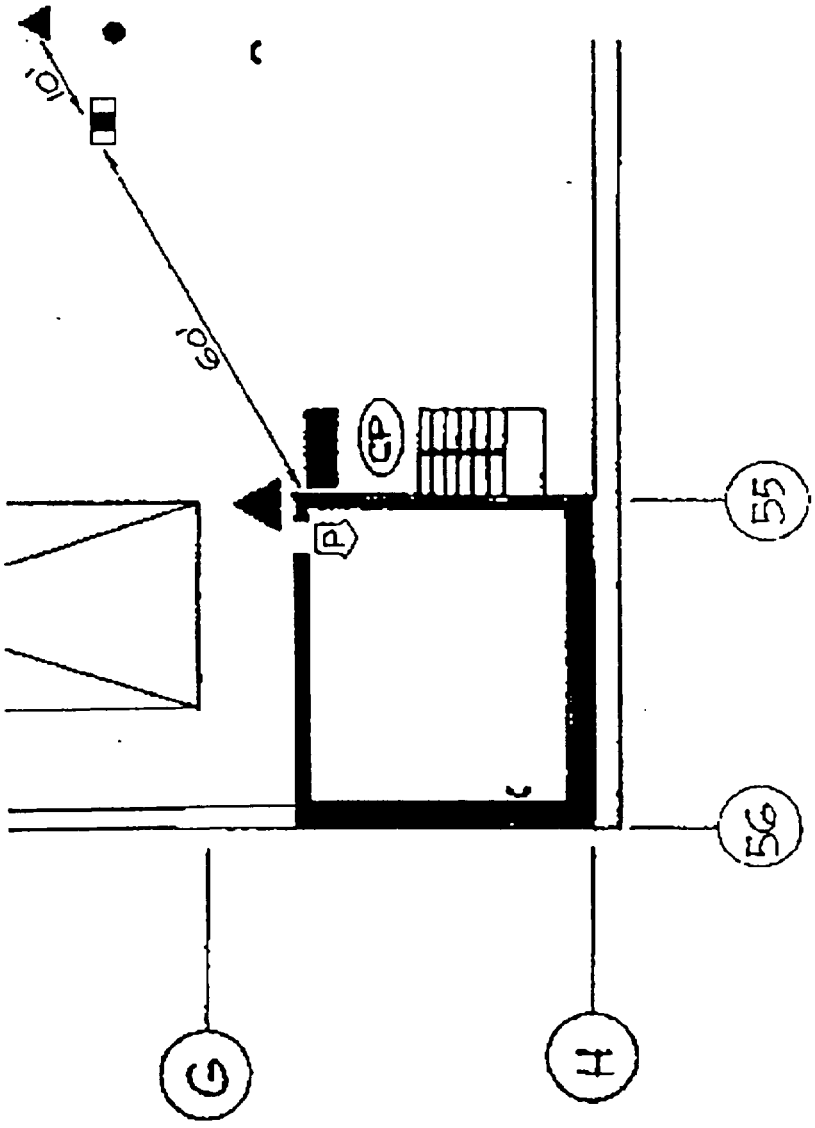
Safety-Related Equipment
See 7.0 Exposures

## 8.0 COMMUNICATIONS

2 Extension Phones (1 located outside room)
Portable Radios
1 P.A. Location

## 9.0 CONSTRUCTION

South wall 3-hour rated
Concrete on all sides




FIRE ZONE 6.1
ELEVATION 538'-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

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 538'
Fire Zone 6.1
U-3 Battery Charger Room

**2.0 Access:**

2.1 Primary: Entrance from door at SW corner of Unit 3 Turbine Bldg., el. 538', may require 'DS' Key for entry

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 |
|---|---|---|---|
| 3A | 125 Volt Battery Charger | C1 | MCC 38-2 |
| 3 | 125 Volt Battery Charger | A4 | MCC 39-2 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors

4.2 Automatic Suppression: None

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

4.4 Portable Extinguishers: 2 - $CO_2$ located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post at stairs near Hydrogen Seal Oil Unit el. 538'-O".
- 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.
- Provide a fire watch until fire detection system is returned to service 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 to door at NE corner of Remote Safety Panel Room el. 538' in SW corner of Unit 3 to open hatchway.

## 7.0 Exposures: Safety-Related Equipment

Division I and II Cables
250-Vdc MCC 3
125-Vdc Turbine Bldg. Main Bus 3
125-Vdc Turbine Bldg. Reserve Bus 3
24-Vdc Battery Chargers
48/24-Vdc Distribution Panels 3A, 3B
125-Vdc Battery Charger
250-Vdc Battery Charger 3

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: 1 P.A. Location in adjacent area

8.3 Telephone: 2 Extension Phones, one located in adjacent area

**9.0 Construction:**

9.1 Floor: 5-inch Reinforced concrete slab on exposed structural steel

9.2 Wall:

a. North: 1'-0" Reinforced concrete interior wall
b. South: 1'-O" Reinforced concrete exterior wall, 3-hour rated
c. East: 1'-O" Reinforced concrete interior wall
d. West: 1'-0" Reinforced concrete exterior wall

9.3 Ceiling: 6" Reinforced concrete slab on fire protection coated structural steel.

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 551'-0"
Fire Zone 7.0.B
250V Battery Room

## 2.0 ACCESS

Primary: East stairs, above U-3 Battery Charger Room el. 551', 'DS' Key may be needed for entry

Secondary: None

## 3.0 HAZARDS

Fire: Acrylic Plastics
Hydrogen Gas
Cable Insulation

Electrical: See 3.2 Low Voltage (Less than 440-V)

Other: Battery Acid

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
1 - Hose Reel outside room
2 - $CO_2$ Portable Extinguishers outside room

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs, el. 538' at air handling equipment
- 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 Portable Smoke Ejectors and Flexible Ducting to exhaust smoke out door to open hatchway

## 7.0 EXPOSURES

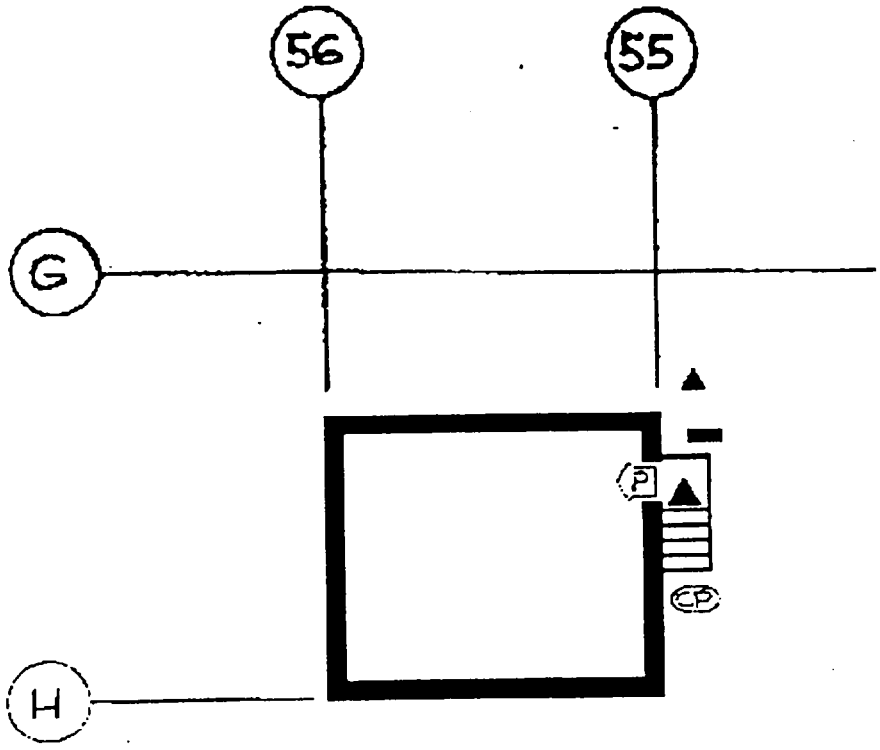
Safety-Related Equipment:
48/24-Vdc Batteries 3A & 3B
125-Vdc Batteries
250-Vdc Batteries

## 8.0 COMMUNICATIONS

Portable Radios

## 9.0 CONSTRUCTION

Concrete on all sides




FIRE ZONE 7.0.B
ELEVATION 551'-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

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 551'
Fire Zone 7.0.B
250V Battery Room

**2.0 Access:**

2.1 Primary: East stairs above Unit 3 Battery Charger Room, el. 551' 'DS' Key may be needed for entry.

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Battery cells | Acrylic plastic<br>Hydrogen gas | A<br>B |
| Electrical cables | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| #3<br>250V and less | 250V Battery Charger | D2 | MCC 38-2 |

3.3 Hazardous Substances: Battery Acid

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

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Cabinet located in adjacent area (el. 538')

4.4 Portable Extinguishers: 2 - $CO_2$ located in adjacent area (el. 538')

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs, el. 538'-0" at air handling equipment
- 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.
- Provide a fire watch until fire detection 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 out door to open hatchway.

## 7.0 Exposures: Safety-Related Equipment

No. 3 Battery Room
48/24-Vdc Batteries 3A & 3B
250-Vdc Batteries
125-Vdc Batteries

## 8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: Telephones in adjacent areas

**9.0 Construction:**

9.1 Floor: 6" Reinforced concrete supported by fire protection coated Structural Steel

9.2 Wall:

a. North: 12" Concrete and concrete block
b. South: 27" Reinforced concrete
c. East: 12" Reinforced concrete
d. West: 27" Reinforced concrete

9.3 Ceiling: 12" Reinforced concrete

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



## 1.0 LOCATION

Unit 3 Turbine Bldg.
Elevation 549'-0"
Fire Zone 8.2.8.D, 14.3.A
Fan Floor

## 2.0 ACCESS

Primary: Stairs in Unit 2 Fan Floor Area, el. 549', Rad key needed to access SJAE rooms

Secondary: None

## 3.0 HAZARDS

Fire: Cable Insulation
Hydrogen and Oxygen
Lubricating Oil
Filters, Insulation

Electrical: See 3.2

Other: Check Hydrogen Leak in Off-gas recombiner

## 4.0 FIRE PROTECTION EQUIPMENT

1 - $CO_2$ Portable Extinguisher

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post Near Unit 2 Fan Floor 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 and Overhaul
- Provide surveillance for Sprinkler System valve and 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 in Unit 3 Fan Floor Area, el. 549'

## 7.0 EXPOSURES

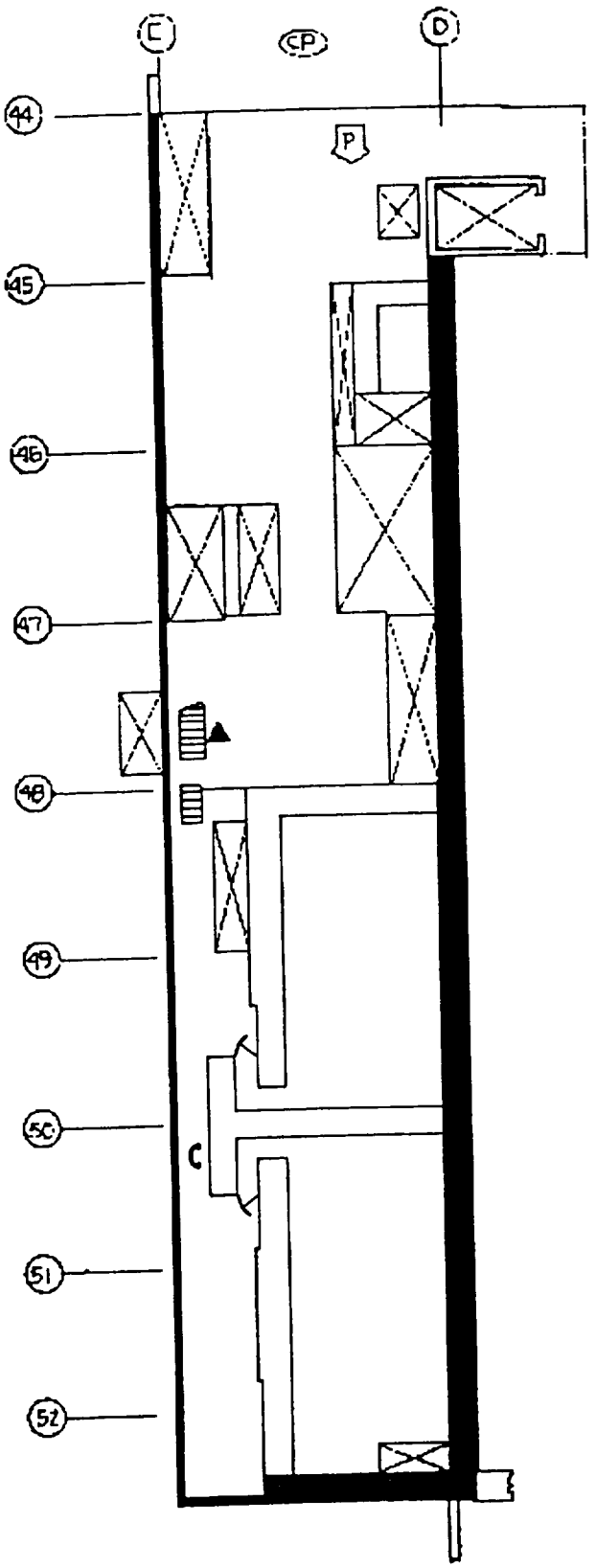
Steam Jet Air Ejectors
Gland Steam Condensers

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Floor and Ceiling - Concrete on exposed steel
West Wall - Concrete
North Wall - Metal Siding
East - Open
South Wall - Concrete




FIRE ZONE B.2.8.D, 14.3.A
ELEVATION 549'-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. U3TB-82 AT LEVEL ABOVE
2. U3TB-78 & 2/3TB-95 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 549'-0"
Fire Zones 8.2.8.D, 14.3.A
Fan Floor

2.0 Access:

2.1 Primary: Stairs in Unit 2 Fan Floor Area el. 549', Rad key needed to access SJAE rooms

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Hydrogen and Oxygen Bottles | Hydrogen, Oxygen | B |
| Panels | Cable insulation | A,C |
| Pump | Lubricating oil | B |
| Off-gas System | Filters, Insulation | A |
| Turb. Bldg. Vent System | Filters | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5402 | Condenser Vacuum Pump | 363C | 480V Swgr 36 |
| 3A-5603(4) | Gland Steam Condenser | F3 | 480V MCC 35-2 |
| 3B-5603 | Gland Steam Condenser | C3 | 480V MCC 37-1 |
| 3A-5705 | Turb. Bldg. Vent Exhaust Fans | 356C | 480V Swgr 35 |
| 3B-5705 | Turb. Bldg. Vent Exhaust Fans | 365D | 480V Swgr 36 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3C-5705 | Turb. Bldg. Vent Exhaust Fans | 375D | 480V Swgr 37 |
| 3A-5706 | Turb. Bldg. Vent Supply Fans | 356A | 480V Swgr 35 |
| 3B-5706 | Turb. Bldg. Vent Supply Fans | 365A | 480V Swgr 36 |
| 3C-5706 | Turb. Bldg. Vent Supply Fans | 356B | 480V Swgr 35 |
| 5716 | North Turbine Room Evap. Cooler Recirc. Pump | K1 | MCC 37-1 |

3.3 Hazardous Substances: Check Hydrogen leak in off-gas recombiner.

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: None

4.4 Portable Extinguishers: 1 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post near the Unit 3 Fan Floor Stairs el. 549'.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up by a 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

**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 in the Unit 3 Fan Floor Stairway el. 549'.

**7.0 Exposures:** Turbine Bldg. supply and exhaust ventilation system
Steam Jet Air Ejectors
Gland Steam Condensers
Off-gas condensers

**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: 6" concrete slab over 24" reinforced concrete on exposed structural steel

9.2 Wall:

a. North: Metal siding with exposed steel
b. South: 48" Reinforced concrete
c. East: Open
d. West: Minimum 12" Reinforced concrete

9.3 Ceiling: 48" Reinforced precast concrete slabs on exposed structural steel

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

## 1.0 LOCATION

Turbine Building Unit 3
Elevation 571'
Fire Zones 14.3.B, 8.2.8.D
Off Gas Recombiner

## 2.0 ACCESS

Primary: From stairs in the Unit 3 Fan Floor Area or North Turbine Bldg. el. 571'. Rad key needed to access Recombiner rooms.

Secondary: None

## 3.0 HAZARDS

Fire: Lubricating Oil

Electrical: See 3.2

Other: Radioactive Equipment
Check for Hydrogen Leak

## 4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near Unit 3 Fan Floor Area el. 549' one level below
- 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: Ventilation controlled from local Panel at top of stairs at el. 590'

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs of the Unit 3 Fan Floor Area North Turbine Bldg. el. 541'

## 7.0 EXPOSURES

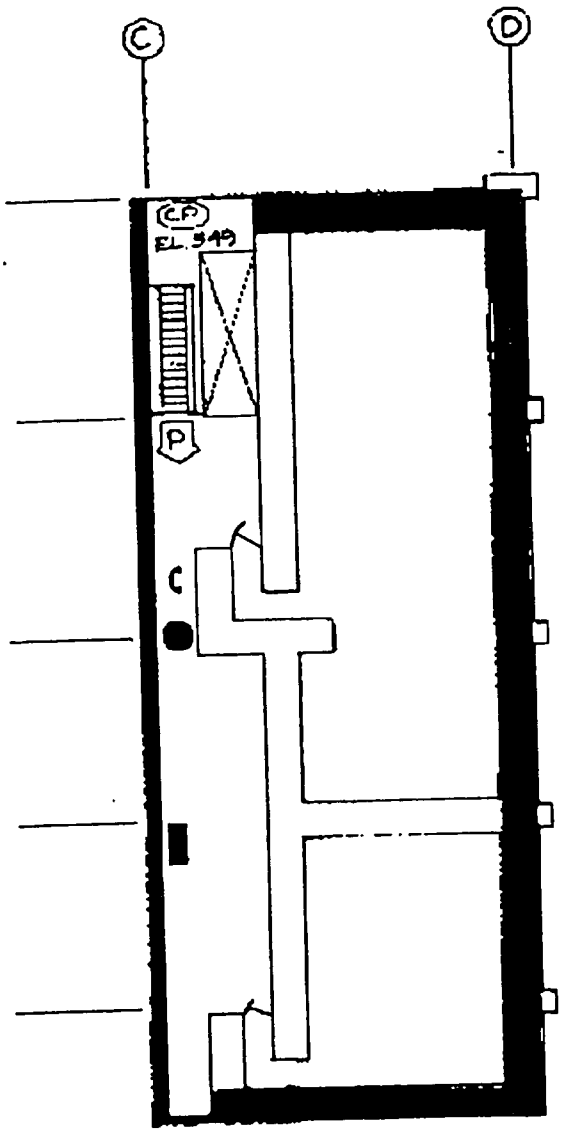
None

## 8.0 COMMUNICATIONS

1 P.A. Location
1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

Concrete all sides
North wall - Metal Siding




FIRE ZONE 14.3

ELEVATION 571'-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. U3TB-83 AT LEVEL ABOVE
2. U3TB-81 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Turbine Building Unit 3
Elevation 571'
Fire Zones 14.3.B, 8.2.8.D
Off-Gas Recombiner

**2.0 Access:**

2.1 Primary: From stairs in the Unit 3 Fan Floor Area of North Turbine Bldg., el. 571', Rad key needed to access Recombiner rooms.

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Pump | Lubricating oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| E2 | GL Stm. Cond. Exhaust Isol Mov. E2 | G4 | MCC 37-1 |
| E1 | GL Stm. Cond. Exhaust Isol Valve Mov E-1 | B4 | MCC 35-2 |
| 3-5405A | GL Stm. Cond. Exhaust Discharge Valve MOV-D1 | C4 | MCC 35-2 |
| | Air Ejector Condensate By-Pass Valve | D1 | MCC 35-2 |
| MOV-51 | Steam Seal Feed Valve | D2 | MCC 35-2 |
| MOV-52 | Steam Seal Feed By-Pass Valve | D3 | MCC 35-2 |
| MOV-B | Steam Seal By-Pass Unload Valve | D4 | MCC 35-2 |

3.3 Hazardous Substances: Radioactive Equipment
Check for hydrogen leak in off-gas recombiner.

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 Reel

4.4 Portable Extinguishers: None

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs of Unit 3 Fan Floor Area el. 549'.
- 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.

## 6.0 Ventilation:

6.1 Fixed: Ventilation controlled from local panel at top of stairs at el. 590'.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to stairs of the Unit 3 Fan Floor Area in North Turbine Bldg. el. 590'.

## 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: 1 Extension Phone

**9.0 Construction:**

9.1 Floor: 24" reinforced concrete under a 6" concrete slab on exposed structural steel

9.2 Wall:

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

9.3 Ceiling: Reinforced concrete on exposed structural steel

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 590' - 6"
Fire Zones 14.3.C, 8.2.8.D
Off Gas Recombiner/$H_2$ Analyzer

## 2.0 ACCESS

Primary: From stairs of the Unit 3 Fan Floor Area of North Turbine Bldg. el. 590'. Rad key needed to access off gas cond. room

Secondary: None

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: See 3.2

Other: Radioactive Equipment
Check for Hydrogen leak

## 4.0 FIRE PROTECTION EQUIPMENT

1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs of the Unit 3 Fan Floor Area el. 571'
- 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: Fans controlled from local Panel at el. 590'.

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke down stairs of the Unit 3 Fan Floor Area of North Turbine Bldg. el. 590'

## 7.0 EXPOSURES

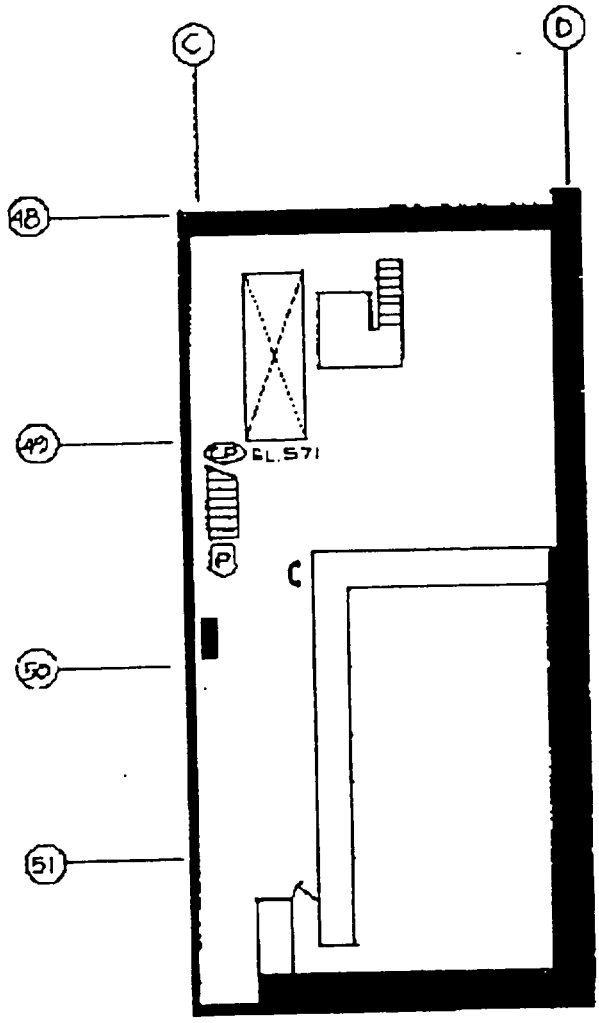
None

## 8.0 COMMUNICATIONS

1 Extension Phone
Portable Radios

## 9.0 CONSTRUCTION

All sides - Concrete Except
North Wall - Metal Siding




FIRE ZONE 14.3

ELEVATION 590'-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. U3TB-82 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Turbine Building Unit 3
Elevation 590 - 6"
Fire Zones 14.3.B, 8.2.8.D
Off-Gas Recombiner/$H_2$ Analyzer

**2.0 Access:**

2.1 Primary: From stairs in the Unit 3 Fan Floor Area of North Turbine Bldg., el. 590', Rad key needed to access of gas cond. room

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Panels | Cable insulation | A,C |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 36-3 | 480V Turbine Bldg. MCC 36-3 | 364A | 480V SWGR 36 |

3.3 Hazardous Substances: Radioactive Equipment
Check for hydrogen leak in off-gas recombiner.

3.4 Physical Hazards: None

3.5 Life Safety: One means of egress.

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: None

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs in the Unit 3 Fan Floor area el. 571'.
- 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: Fans controlled from local panel at the 590' el.

6.2 Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke down stairs of the Unit 3 Fan Floor Area, North Turbine Bldg. el. 590'.

## 7.0 Exposures: None

## 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: Reinforced concrete on exposed structural steel

9.2 Wall:

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

9.3 Ceiling: Reinforced concrete

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



**SPECIAL NOTE:**

Exciter Protected with a $CO_2$ System

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 561' -6"
Fire Zone 8.2.8.A
Main Turbine Floor

## 2.0 ACCESS

Primary: From stairs at the center of the Main Turbine Floor el. 561'- 6". Rad key needed to access turbine area

Secondary: From stairs near the SW corner of Unit 3 Turbine Floor, el. 561'- 6" Rad key needed to access turbine area

## 3.0 HAZARDS

Fire: HVAC External Duct Insulation
Lubricating Oil
Cable insulation

Electrical: Bearing Lift Pumps

Other: $CO_2$ from exciter
Hydrogen from Generator

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinklers over bearing lift pumps, $CO_2$ System in exciter housing

5 - Hose Reels
2 - $CO_2$ 1" Hose Reels
3 - $CO_2$ Portable Extinguishers
3 - Dry Chemical Portable Extinguishers
1 - Dry Chemical Wheeled Extinguisher

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near stairs in SW corner of Unit 3 Turbine Floor
- Check Sprinkler System Actuation over Lift Pumps
- S.C.B.A.
- Attack with Port. Ext., follow with 1 1/2" hose lines
- 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 at the center of the Main Turbine Floor el. 561'

## 7.0 EXPOSURES

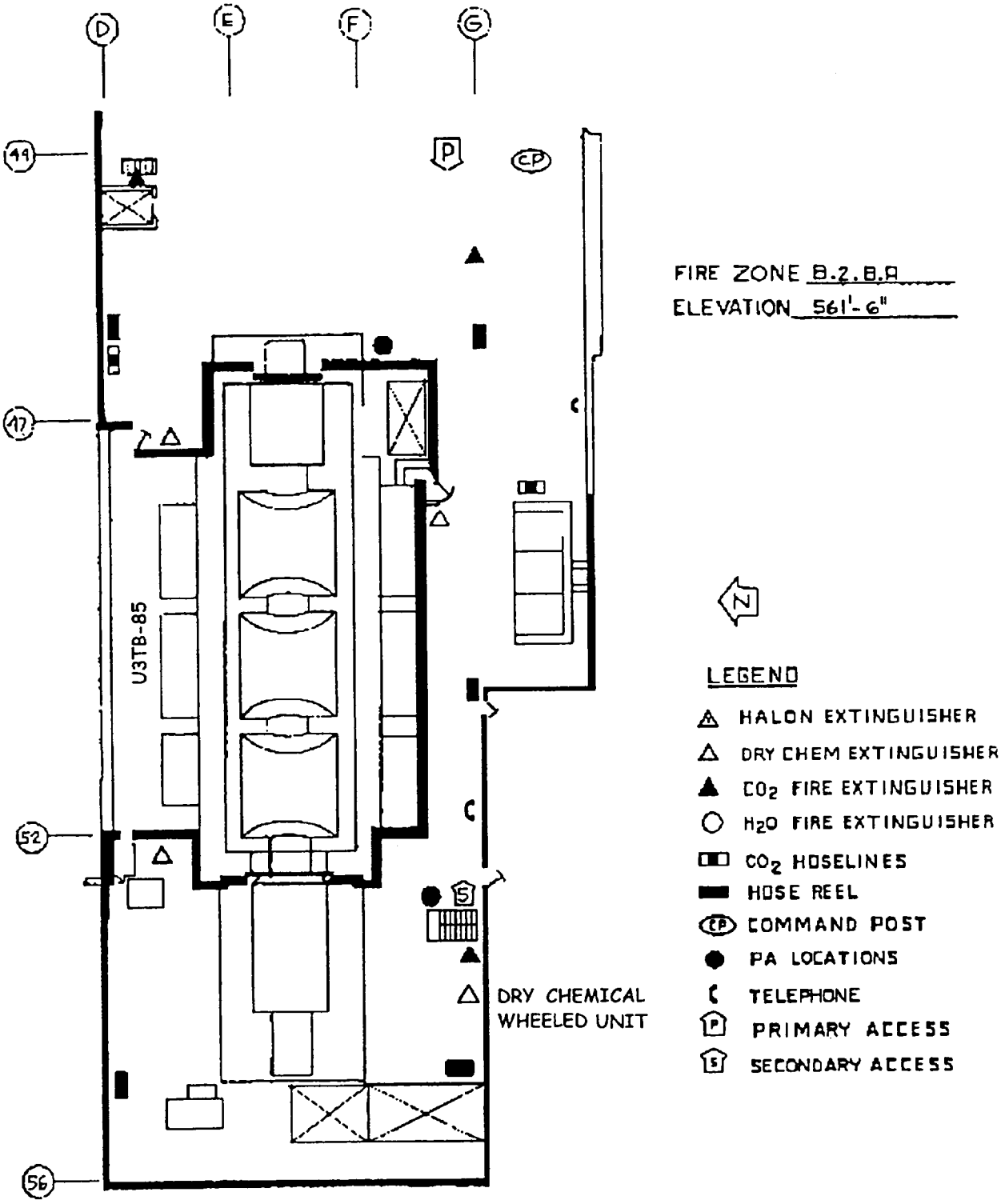
None

## 8.0 COMMUNICATIONS

Portable Radios
2 P.A. Locations
2 Extension Phones

## 9.0 CONSTRUCTION

Floor-Ceiling-South Wall-Concrete
Walls - Metal siding on exposed structural steel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17
52
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CP
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U3TB-85
DRY CHEMICAL
WHEELED UNIT
FIRE ZONE B.2.B.A
ELEVATION 561'-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

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 561' -6"
Fire Zone 8.2.8.A
Main Turbine Floor

**2.0 Access:**

2.1 Primary: From stairs at the center of Main Turbine Floor, El. 561'-6". Rad key needed to access turbine area

2.2 Secondary: From stairs near the SW Corner of Unit 3 Turbine Floor, el. 561'-6". Rad key needed to access turbine area

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Panels | Cable insulation | A,C |
| Ventilation | HVAC external Duct insulation | A |
| Cranes | Lubricating oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| (3) 3-5620A | Bearing Lift Pumps | | 480V MCC 38-3 |
| (2) 3-5620B | Bearing Lift Pumps | | 480V MCC 38-3 |
| 3A | Drywell and Torus Air Comp. | D2 | MCC 38-1 |
| 3-5708A | Drywell and Torus Purge Exhaust - Fan 3A | C3 | MCC 38-1 |
| 3-5708-B | Drywell and Torus Purge Exhaust Fan 3B | B2 | MCC 39-1 |
| 3B | Drywell and Torus Delta Air Compressor 3B | D2 | MCC 39-1 |
| 3-5620A 3A | Bearing Lift Pumps | B2 | 480V MCC 38-3 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5620B 3B | Bearing Lift Pumps | B3 | 480V MCC 38-3 |
| 3C | Bearing Lift Pumps | B4 | 480V MCC 38-3 |
| 3D | Bearing Lift Pumps | B5 | 480V MCC 38-3 |
| 3E | Bearing Lift Pumps | B6 | 480V MCC 38-3 |
| 2/3B | Turbine Room Crane | 273A | 480V Swgr 27 |
| 3A-5702 | South Turbine Room Vent Fans | | |
| 3B-5702 | South Turbine Room Vent Fans | | |
| 2/3A | Turbine Room Cranes | 376A | 480V Swgr 37 |
| 2/3B | Turbine Room Cranes | 376A | 480V Swgr 37 |
| 3A-5704 | RX Building Vent Exhaust Fans | 384C | 480V Swgr 38 |
| 3B-5704 | RX Building Vent Exhaust Fans | 395C | 480V Swgr 39 |
| 3C-5704 | RX Building Vent Exhaust Fans | 395D | 480V Swgr 39 |
| 3-5714 | RX Building Evaporator Cooler Recirc. Pump | D4 | MCC 39-3 |

3.3 Hazardous Substances: Hydrogen from Generator

3.4 Physical Hazards: None

3.5 Life Safety: $CO_2$ from exciter

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler System over Bearing Lift Pumps. (D-47, D-52) and M-G Sets
$CO_2$ System for exciter housing

4.3 Hose Reels: 5 - Hose Reels
2 - $CO_2$ 1" 200'-0" Hose Reels

4.4 Portable Extinguishers: 3 - $CO_2$
3 - Dry Chemical
1 – Dry Chemical Wheeled Unit

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs in SW corner of Unit 3 Turbine Floor el. 561'.
- If suppression system above lift pumps has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation.
- Caution should be used if the $CO_2$ system for the exciter housing has actuated due to exposure to $CO_2$
- 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 locations

## 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 the center of the Main Turbine Floor, El. 561'.

## 7.0 Exposures: None

## 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: 18" reinforced concrete on exposed structural steel

9.2 Wall:

a. North: Metal siding on exposed structural steel
b. South: 18" or 6" reinforced concrete, 3-hour rated
c. East: Metal siding on exposed structural steel
d. West: Metal siding on exposed structural steel

9.3 Ceiling: Built-up Roof on precast concrete slabs over exposed structural steel

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



## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
Turbine Area

## 2.0 ACCESS

Primary: From Rad door at the NE Corner of Unit 3 Turbine Area, El. 561'. Rad key needed to access area

Secondary: From Rad door on the South Wall Unit 3 Turbine Area, El. 561'. Rad key needed to access area

## 3.0 HAZARDS

Fire: Lubricating Oil

Electrical: See 3.2

Other: Radioactive (Turbine)
$CO_2$ from exciter

## 4.0 FIRE PROTECTION EQUIPMENT

4 - Hose Reels (3 located adjacent to area)
2 - $CO_2$ Hose Reels
2 - $CO_2$ Portable Extinguishers
3 - Dry Chemical Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near center of Turbine Floor el. 561'-6"
- S.C.B.A.
- Attack with Port. Ext., follow with Hose Lines
- Search Area for Victims
- Caution: De-energize Equipment
- Ventilate
- Overhaul

## 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 on the South Wall of Unit 3 Turbine Area el. 561'-6"

## 7.0 EXPOSURES

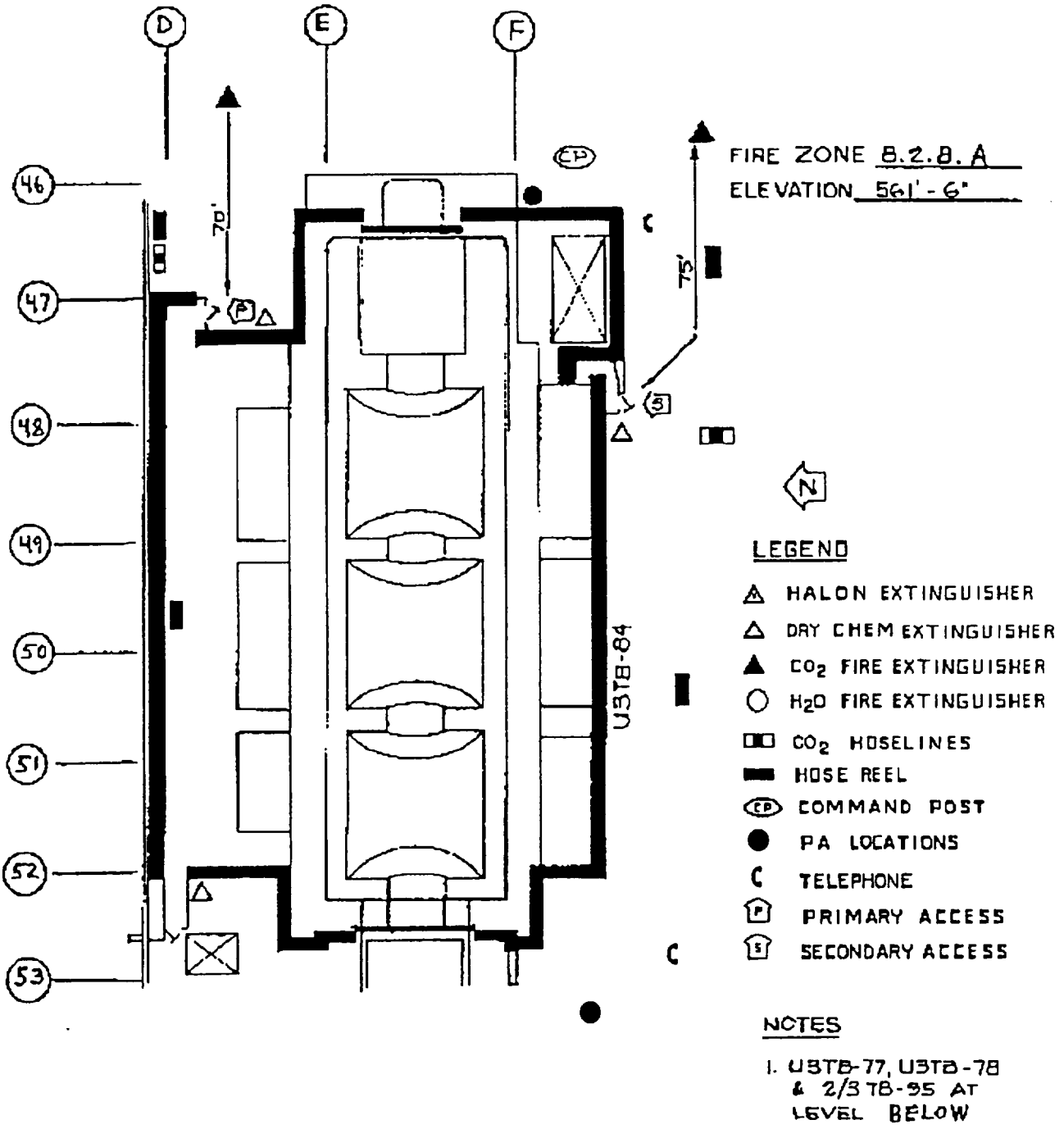
None. However, beware of possible Running Oil Fire exposing Safety-Related equipment at lower levels

## 8.0 COMMUNICATIONS

2 P.A. Locations nearby
2 Extension Phones nearby
Portable Radios

## 9.0 CONSTRUCTION

Roof/Ceiling - Concrete on steel
South Wall - Reinforced concrete
Other Walls - Metal panels concrete shield walls


D
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52
53
70'
75'
CP
P
S
U3TB-84
N
FIRE ZONE 8.2.8.A
ELEVATION 561'-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. U3TB-77, U3TB-78 & 2/3TB-95 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 3 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
Turbine Area

**2.0 Access:**

2.1 Primary: From Rad door on the NE wall of Unit 3 Turbine Area, el. 561'. Rad key needed to access area

2.2 Secondary: From Rad door on the south wall of Unit 3 Turbine Area, el. 561'. Rad key needed to access area

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Turbine | Lubricating oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5601 | 810,000 KW Turbine | | |
| | Turbine Main Shaft | B3 | 480V |
| | Suction Pump | | MCC 35-1 |
| | Turbine Gear Piggyback Motor | 1 | MCC-38-3 |
| | Turbine Gear Oil Pump | A3 | MCC 38-3 |
| | Turbine Turning Gear | A4 | MCC 38-3 |
| 3-4901 | Turbine Vacuum Breaker Breaker Valve | B2 | MCC 38-2 |

3.3 Hazardous Substances: Radioactive (Turbines) Equipment

3.4 Physical Hazards: None

3.5 Life Safety: $CO_2$ from exciter

## 4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: 4 - Hose Reels (3 located in adjacent area)
2 - $CO_2$ 1"-200'-0" Hose Reels located in adjacent area

4.4 Portable Extinguishers: 2 - $CO_2$ located in adjacent area
3 - Dry Chemical located in adjacent area

## 5.0 Guidelines for Fire Attack:

- Establish command post near center of Main Turbine Floor, el. 561'-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 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.

## 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 through door on the South wall of the Unit 3 Turbine Area el. 561'-6".

## 7.0 Exposures:

No Safety-Related equipment at this level. However, a pressurized lube oil fire would extend to lower levels where Safety-Related equipment is located.

## 8.0 Communications:

8.1 Portable radios: Ok to use

8.2 Public Address: 2 P.A. Locations in adjacent area

8.3 Telephone: 2 Extension Phones located in adjacent area

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

Turbine Area:

a. North: 30" concrete
b. South: 30" concrete
c. East: 24" concrete
d. West: 30" concrete

9.3 Ceiling: Built-up Roof on precast concrete slabs over exposed steel

## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.C
EHC Reservoir Area

## 2.0 ACCESS

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

Secondary: From Hallway of Unit 3 Turbine Bldg., el. 517'

## 3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: See 3.2

Other: EHC Fluid

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization, Thermal
Suppression: Localized Wet Pipe over the EHC Reservoirs
Wet pipe along N/S Hallway to EHC
1 - $CO_2$ 1" Hose Reels
4 - $CO_2$ Portable Extinguishers
2 - Hose Reels

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near MCC 26-1 in Hallway 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
- Position person at control valve
- Provide 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 up stairs adjacent to the West wall of the Oil Storage Room.

## 7.0 EXPOSURES

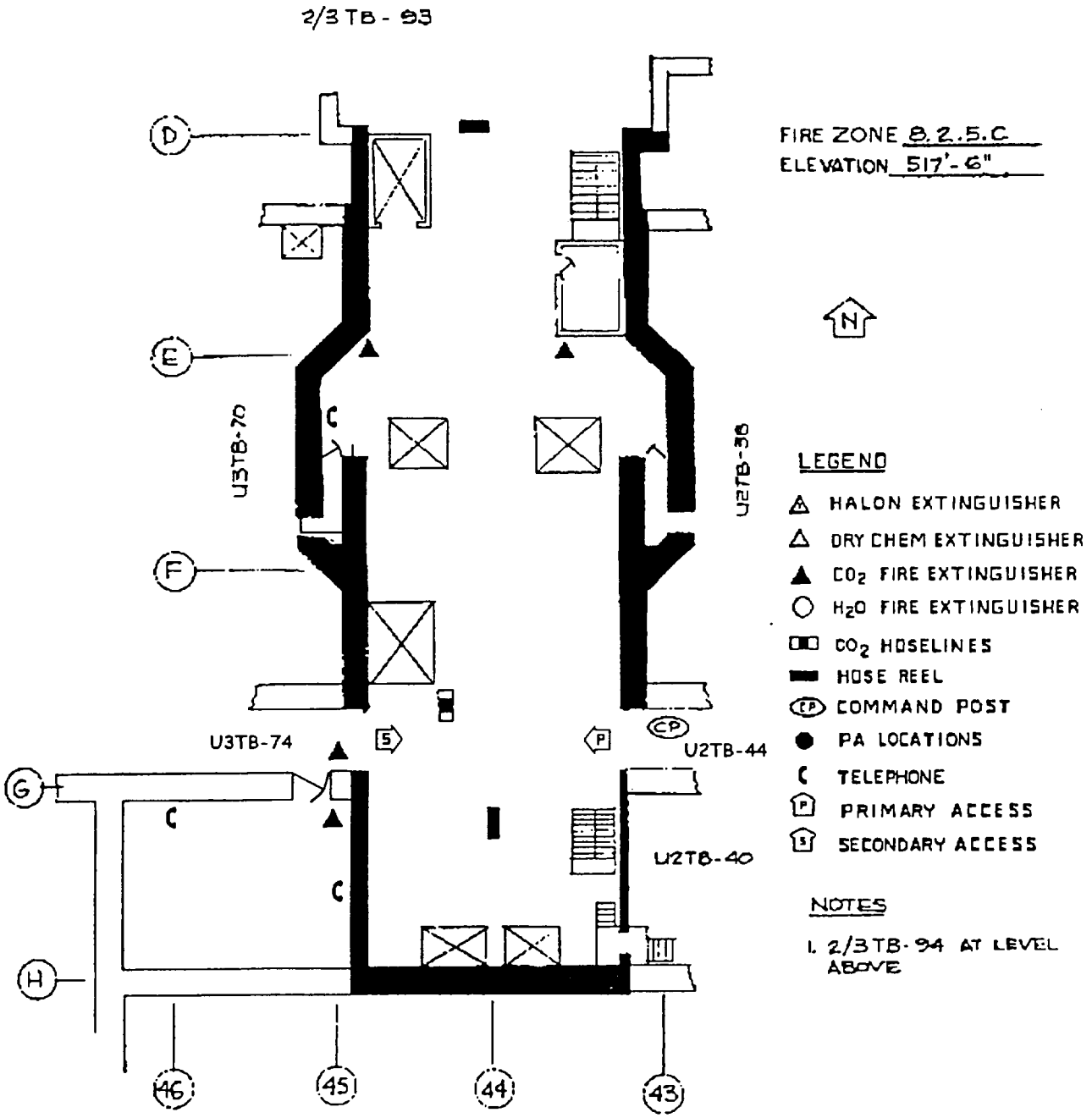
EHC Fluid (1900 gal. Non-flammable)
Panels 2253-53, 2253-54A & E

## 8.0 COMMUNICATIONS

3 Extension Phones (2 located in adjacent area)
Portable Radios

## 9.0 CONSTRUCTION

Ceiling/Floor - Reinforced concrete with stairwells and hatch
South - 12" Reinforced concrete
North/East/West - Reinforced concrete/open


2/3 TB - 93
D
E
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C
U3TB-70
U3TB-74
U2TB-36
U2TB-44
U2TB-40
5
P
CP
46
45
44
43
FIRE ZONE 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
COMMAND POST
PA LOCATIONS
TELEPHONE
PRIMARY ACCESS
SECONDARY ACCESS
NOTES
1. 2/3TB-94 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.
EHC Reservoir Area

**2.0 Access:**

2.1 Primary: From Hallway of Unit 2 Turbine Bldg., el. 517'

2.2 Secondary: From Hallway of Unit 3 Turbine Bldg., el. 517'

**3.0 Hazards:**

3.1 Fire:

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

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-5619 | Turbine Oil Filter Pumps | B1 | MCC 25-1 |
| 3-5619 | Turbine Oil Filter Pumps | B1 | MCC 35-1 |
| 2/3-5619 | Turbine Oil Filter Pumps | B6 | MCC 36-1 |
| 2-3999-4 | Monitor Supply Pump | | |
| 2-4715 | Inst. Air Compressor | 275A | 480V Swgr 27 |
| 2/3-7602 (Unit) 4715 | $C0_2$ Refrig. Compressor | D1 | MCC 27-4 |
| 3A | EHC Fluid Pumps | 354A | 480V Swgr 35 |
| 3B | EHC Fluid Pumps | 374C | 480V Swgr 37 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2A | EHC Fluid Pumps | 254A | 480V Swgr 25 |
| 2B | EHC Fluid Pumps | 274C | 480V Swgr 27 |
| 35-1-4 | Local Control Panel | A5 | 480V MCC 35-1 |
| 25-1-4 | Local Control Panel | F1A | 480V MCC 25-1 |

3.3 Hazardous Substances: EHC Fluid

3.4 Physical Hazards: None

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors, Thermal detectors above EHC Fluid Reservoir

4.2 Automatic Suppression: Wet Pipe Sprinkler System
Open Head Sprinkler System over EHC Reservoir

4.3 Hose Reels: 1 - $CO_2$ 1"-200'-0" Hose Reel
2 - Hose Reels

4.4 Portable Extinguishers: 4 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post near MCC 26-1 in Unit 2 Hallway Turbine Bldg. 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 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 overhead, south of U-2 EHC Pumps/Reservoir on 517' el.
  NOTE: To minimize the damage to essential cable trays, it is important to prevent the spread of fire thru the Hallway along Col. lines F-G. Set up at Col. G-42 to prevent fire from spreading east. Set up at Col. G-48 to prevent fire spread west.
- Provide a fire watch until the 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 up the stairs adjacent to the West wall of the Oil Storage Room el. 517'.

**7.0 Exposures:** EHC Fluid Reservoirs
(1900 gal, Non-flammable liquid)
Panels 2253-53, 2253-54 A & E

**8.0 Communications:**

8.1 Portable radios: OK to use

8.2 Public Address: No handset available

8.3 Telephone: 3 Extension Phones (2 located in adjacent area)

**9.0 Construction:**

9.1 Floor: Reinforced concrete supported by exposed structural steel with stairwells and hatches

9.2 Wall:

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

9.3 Ceiling: 18" Reinforced concrete with exposed structural steel, stairwells and hatches

## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.C
Condensate Demineralizer Area

## 2.0 ACCESS

Primary: From EHC Area, el. 517', Rad key needed to access Condensate Demineralizer Rooms

Secondary: From Door in North Wall, Radwaste Bldg., el. 517', Rad key needed to access Condensate Demineralizer Rooms

## 3.0 HAZARDS

Fire: Lubricating Oil
Cable Insulation

Electrical: Motor Control Centers etc.

Other: Radioactive Equipment

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization (C-E/43-45)

1 - Hose Reel
6 - $CO_2$ Portable Extinguishers (2 located in adjacent area)

## 5.0 GUIDELINES FOR FIRE ATTACK

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

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Utilize Portable Smoke Ejectors and Flexible Ducting to exhaust smoke to and up the stairs North of EHC area el. 517'

## 7.0 EXPOSURES

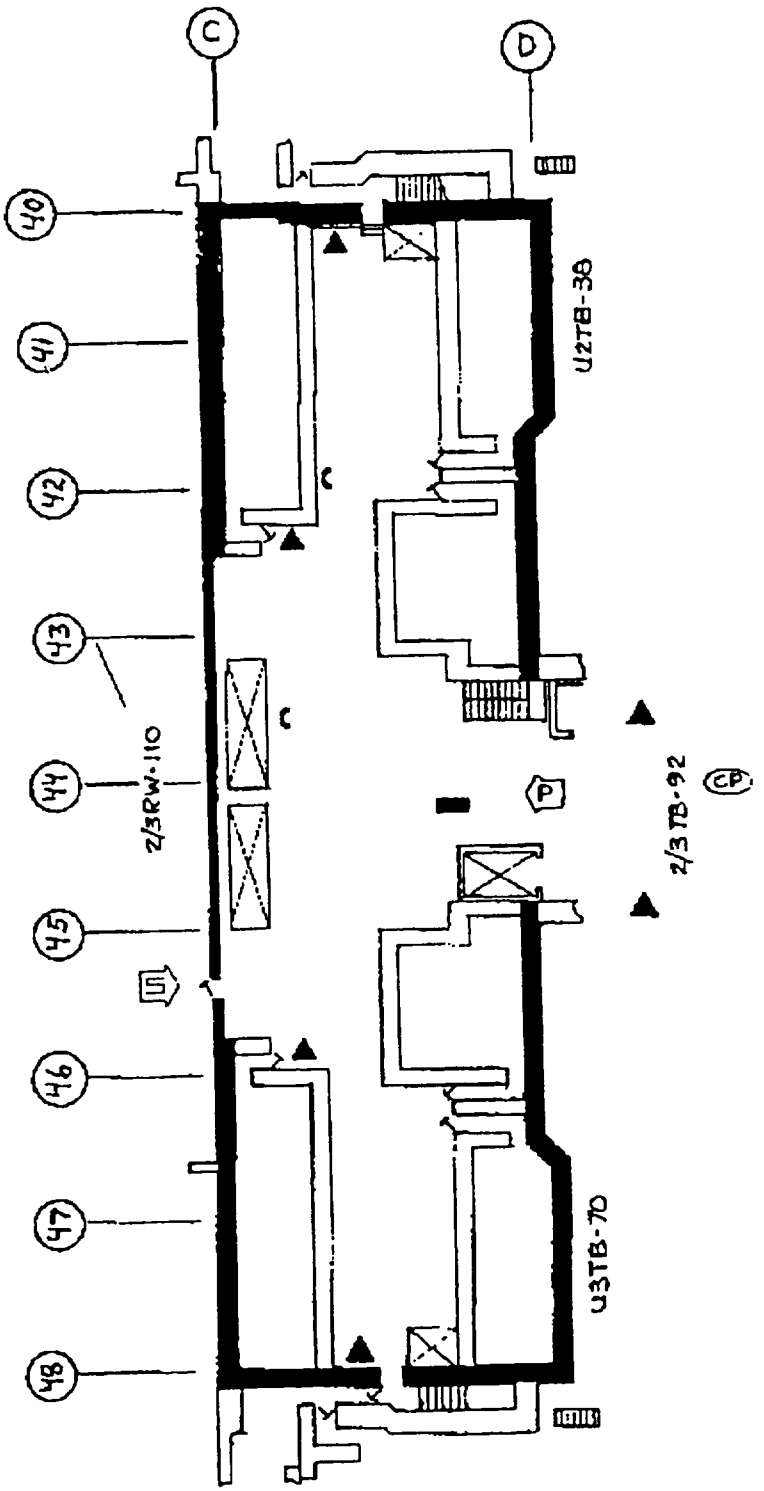
Division I and II Cable Trays
Condensate Demineralizers
Motor Control Centers 27-1, 37-1

## 8.0 COMMUNICATIONS

Portable Radios
2 Extension Phones

## 9.0 CONSTRUCTION

Concrete on all sides except partial South wall




FIRE ZONE 8.2.6C
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. 2/3TB-95 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2/3 Turbine Building
Elevation 517'-6"
Fire Zone 8.2.5.C
Condensate Demineralizer Area

**2.0 Access:**

2.1 Primary: From EHC Area, el. 517', Rad key needed to access Condensate Demineralizer Rooms

2.2 Secondary: From door in North wall, Radwaste Bldg., el. 517', Rad key needed to access Condensate Demineralizer Rooms

**3.0 Hazards:**

3.1 Fire:

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

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-3301-A | Condensate Demin Inlet Valve 2A | D1 | MCC 27-1 |
| 2-3301-B | Condensate Demin Inlet Valve 2B | D3 | MCC 27-1 |
| 2-33O1-C | Condensate Demin Inlet Valve 2C | E1 | MCC 27-1 |
| 2-33O1-D | Condensate Demin Inlet Valve 2D | E3 | MCC 27-1 |
| 2-3301-E | Condensate Demin Inlet Valve 2E | F1 | MCC 27-1 |
| 2-3301-F | Condensate Demin Inlet Valve 2F | F3 | MCC 27-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-3301-G | Condensate Demin Inlet Valve 2G | G1 | MCC 27-1 |
| 2-3302-A | Condensate Demin Outlet Valve 2A | D2 | MCC 27-1 |
| 2-3302-B | Condensate Demin Outlet Valve 2B | D4 | MCC 27-1 |
| 3-5502 | Cond. Demin. Recycle Pump Suction Valve | J4 | MCC 37-1 |
| 3-3301-A | Cond. Demin. Inlet Valve 3A | D1 | MCC 37-1 |
| 3-3302-A | Cond. Demin. Outlet Valve 3A | D2 | MCC 37-1 |
| 3-3301-B | Cond. Demin. Inlet Valve 3B | D3 | MCC 37-1 |
| 3-3302-B | Cond. Demin. Outlet Valve 3B | D4 | MCC 37-1 |
| 3-3301-C | Cond. Demin. Inlet Valve 3C | E1 | MCC 37-1 |
| 3-3302-C | Cond. Demin. Outlet Valve 3C | E2 | MCC 37-1 |
| 3-3301-D | Cond. Demin Inlet Valve 3D | E3 | MCC 37-1 |
| 3-3302-D | Cond. Demin. Outlet Valve 3D | E4 | 37-1 |
| 3-3301-E | Cond. Demin. Inlet Valve 3E | F1 | 37-1 |
| 3-3302-E | Cond. Demin. Outlet Valve 3E | F2 | 37-1 |
| 3-3301-F | Cond. Demin Inlet Valve 3F | F3 | 37-1 |
| 3-3302-F | Cond. Demin. Outlet Valve 3F | F4 | 37-1 |
| 3-3301-G | Cond. Demin. Inlet Valve 3G | G1 | 37-1 |
| 3-3302-G | Cond. Demin. Outlet Valve 3G | G2 | |
| 2-3302-C | Condensate Demin Outlet Valve 2C | E2 | MCC 27-1 |
| 2-3302-D | Condensate Demin Outlet Valve 2D | E4 | MCC 27-1 |
| 2-3302-E | Condensate Demin Outlet Valve 2E | F2 | MCC 27-1 |
| 2-3302-F | Condensate Demin Outlet Valve 2F | F4 | MCC 27-1 |
| 2-3302-G | Condensate Demin Outlet Valve 2G | G2 | MCC 27-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-5502- | Cond. Demin. Recycle Pump Suction Valve | J4 | MCC 27-1 |
| 3-5505 | Caustic Dilution Preheater | A4 | MCC 37-1 |
| 2-5501-A | Condensate Demin Recycle Valve 2A | H1 | MCC 27-1 |
| 2-5501-B | Condensate Demin Recycle Valve 2B | H2 | MCC 27-1 |
| 2-5501-C | Condensate Demin Recycle Valve 2C | H3 | MCC 27-1 |
| 2-5501-D | Condensate Demin Recycle Valve 2D | H4 | MCC 27-1 |
| 2-5501-E | Condensate Demin Recycle Valve 2E | J1 | MCC 27-1 |
| 2-5501-F | Condensate Demin Recycle Valve 2F | J2 | MCC 27-1 |
| 1-5501-G | Condensate Demin Recycle Valve 2G | J3 | MCC 27-1 |
| 3-5501-A | Condensate Demin Recycle Valve 3A | H1 | MCC 37-1 |
| 3-5501-B | Condensate Demin Recycle Valve 3B | H2 | MCC 37-1 |
| 3-5501-C | Condensate Demin Recycle Valve 3C | H3 | MCC 37-1 |
| 3-5501-D | Condensate Demin Recycle Valve 3D | H4 | MCC 37-1 |
| 3-5501-E | Condensate Demin Recycle Valve 3E | J1 | MCC 37-1 |
| 3-5501-F | Condensate Demin Recycle Valve 3F | J2 | MCC 37-1 |
| 3-5501-G | Condensate Demin Recycle Valve 3G | J3 | MCC-27-1 |
| 3-5502 | Recycle Pump | C5 | MCC 37-1 |
| 3-5504 | Caustic Feed Pump | C2 | MCC 37-1 |
| 2-3999-1 | Sample Return Pump | | |
| MCC 37-1 | Motor Control Center 37-1 | 374B | SWGR 480V 37 |
| 2-5503 | Acid Feed Pump | C1 | MCC 27-1 |
| 3-5503 | Acid Feed Pump | C1 | MCC 37-1 |
| MCC 27-1 | MCC 27-1 | 274B | SWGR 480V 27 |
| 2-5502 | Recycle Pump | C5 | MCC 27-1 |
| 2-5504 | Caustic Feed Pump | C2 | MCC 27-1 |
| | Cond Demin Air Compressor | 275C | 480V SWGR 27 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-5505 | Caustic Dilution Preheater | A4 | 480V MCC 27-1 |
| | Cond Demin Air Compressor | 375C | 480V SWGR 37 |

3.3 Hazardous Substance: Radioactive Equipment
Acid Tanks

3.4 Physical Hazards: None

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: Ionization Detectors (C-E/43-45)

4.2 Automatic Suppression: None

4.3 Hose Reels: 1 - Hose Reel

4.4 Portable Extinguishers: 6 - $CO_2$, (2 located in adjacent area)

## 5.0 Guidelines for Fire Attack:

- Establish command post in Corridor near EHC Fluid Reservoir.
- 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 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.

## 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 to and up stairs North of EHC area el. 517'.

**7.0 Exposures:** Division I and II Cable Trays
Condensate Demineralizers
Motor Control Centers 27-1, 37-1

**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: Concrete on grade

9.2 Wall:

a. North: 36" Reinforced concrete and concrete block/12" reinforced concrete
b. South: 36" Reinforced concrete/open
c. East: 36" Reinforced concrete shield wall/24" concrete block
d. West: 36" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete on exposed steel with stairwells and hatches

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



## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 534'
Fire Zone 8.2.6.C
Lube Oil Reservoir Area

## 2.0 ACCESS

Primary: From stairs near the NW corner of Unit 2 Shield Wall, el. 534'

Secondary: From stairs in the south end of zone, el. 534'

## 3.0 HAZARDS

Fire: Cable Insulation
Lubricating Oil

Electrical: Motor Control Centers

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Thermal above Turbine Oil Reservoirs

Suppression: Open Head Water Spray System above Turbine Oil Reservoirs. Wet Pipe Sprinkler System (G-H/43-45)

1 - $CO_2$ 1" Hose Reel
2 - Hose Cabinets
2 - $CO_2$ Portable Extinguishers
1 - Dry Chemical Portable Extinguisher
1 - Hose Reel

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at Ground Level near stairs
- Support Sprinklers
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- Caution: High voltage, De-energize equipment
- Ventilate and Overhaul
- Standby Sprinkler valve and Fire Watch

## 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 the NW corner of the Unit 2 Shield Wall

## 7.0 EXPOSURES

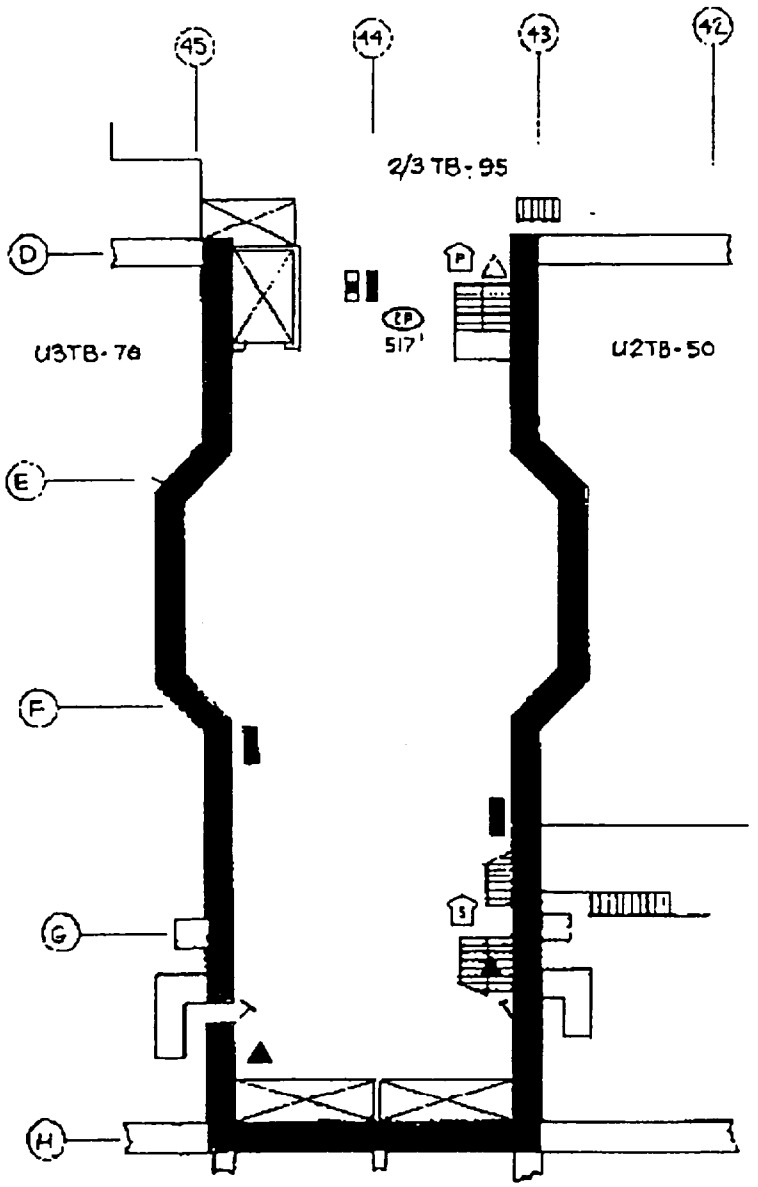
See 7.0 Exposures

## 8.0 COMMUNICATIONS

Portable Radios

## 9.0 CONSTRUCTION

Floor/Ceiling - Concrete on exposed steel with stairwells and hatches
Walls - Reinforced concrete




FIRE ZONE 8.2.6.C
ELEVATION 534'-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. 2/3TB-92 AT LEVEL BELOW
2. U2TB-57 & U3TB-84 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2/3 Turbine Building
Elevation 534'
Fire Zone 8.2.6.C
Lube Oil Reservoir Area

**2.0 Access:**

2.1 Primary: From the stairs near the NW corner of the Unit 2 Shield Wall, el. 534'.

2.2 Secondary: From stairs in the south end of zone, el. 534'.

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Turbine Oil Reservoirs, Pumps | Lubrication Oil | B |
| Electrical Cables | Cable insulation | A,C |
| SGTS | Filters | A |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| MCC 35-1 39-2 | | | |
| 2/3A-7506 | Standby Gas Treatment Fan | E1 | MCC 28-2 |
| 2/3A 7503(A) | Standby Gas Treatment Air Heater | C4 | MCC 28-3 |
| 2/3B 7503(B) | Standby Gas Treatment Air Heater | C3 | MCC 39-2 |
| 2/3B-7507 | Standby Gas Treatment Fan | A1 | MCC 39-2 |
| 2/3A-7507 | Standby Gas Treat. Fan Disch. Damper 2/3A | D4 | MCC 28-3 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2/3B-7507 | Standby Gas Treatment Fan Disch. Damper | B5 | MCC 39-2 |
| 2/3B-7505 | Standby Gas Treatment System Inlet Damper | B1 | MCC 39-2 |
| 2/3B-75O4 | Standby Gas Treatment Outside Air Damper | D1 | MCC 39-2 |
| 3-5610 | Turbine Oil Tank Vapor Extractor | D3 | MCC 35-1 |
| 3-7503(2/3B) | RX Bldg. Vent Stby Gas Treatment Damper | D2 | MCC 39-2 |
| 2/3A-7504A | Standby Gas Treat. Outside Air Supply Damper 2/3A | E4 | MCC 28-2 |
| 2-7503(2/3A) | RX Bldg. Vent to Standby Gas Treatment 2/3A Damper | C1 | MCC 28-2 |
| 2/3A-7505 | Standby Gas Treatment System Inlet Damper 2/3A | C1 | MCC 28-3 |
| 2/3A-7509 | Standby Gas Treatment Units | | |
| 2/3A-7502 | Standby Gas Treatment Units | | |
| 2/3A-7503 | Standby Gas Treatment Units | | |
| 2/3A-7501 | Standby Gas Treatment Units | | |
| 2/3B-7509 | Standby Gas Treatment Units | | |
| 2/3B-7502 | Standby Gas Treatment Units | | |
| 2/3B-7503 | Standby Gas Treatment Units | | |
| 2/3B-7501 | Standby Gas Treatment Units | | |
| 35-1 | MCC 35-1 | 355A | 480V Swgr 35 |
| 25-1 | MCC 25-1 | 255A | 480V Swgr 25 |
| 39-2 | MCC 39-2 | 393D | 480V Swgr 39 |
| | Turbine Oil Purifier | D3 | 48OV MCC 25-1 |
| | Turbine Oil Tank Vapor Extractor | D4 | 480V MCC 25-1 |
| | Permanent Turbine Oil Centrifuge | D2 | 480V MCC 25-1 |

3.3 Hazardous Substances: None

3.4 Physical Hazards: None

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: Thermal Detection above turbine oil reservoir

4.2 Automatic Suppression: Wet Pipe Sprinklers (G-14/43-45)
Open Head Water Spray above Turbine Oil Reservoir

4.3 Hose Reels: 2 - Hose Cabinets
1 - $CO_2$ 1'-200'-0" Hose Reel
1 - Hose Reel

4.4 Portable Extinguishers: 2 - $CO_2$
1 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post near stairs at NW corner of Unit 2 Shield Wall at Ground Floor Level.
- If suppression system has actuated, assistance may not be needed.
- Provide support to automatic suppression system.
- If suppression system fails to actuate, manual actuation for local water spray.
- 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 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 at the 534' elevation north of Unit 2 TBCCW Heat Exchangers near Col. 42-C.
- 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.

## 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 Ejectors and Flexible Ducting to exhaust smoke up stairs at the NW corner of Unit 2 shield wall el. 534'.

**7.0 Exposures:** Standby Gas Treatment Units
MCC 39-2, 25-1, 35-1
Instrument Racks 2223-29A and 2223-29B
Division I and II Cable Trays
Service Water Valves:
2-3904-501, 3-3904-501, 2-3904-500, 3-3904-500, 2-3906-500, 3-3906-500, 2-3906-501, 3-3906-501, 2/3-3999-241, 2/3-3999-240
CRD Valves:
2/3-0301-162, 2/3-0301-163

**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 steel on stairwells and hatches

9.2 Wall:

a. North: Open
b. South: 12" Reinforced concrete, 3-hour rated
c. East: 30" Reinforced concrete
d. West: 48" Reinforced concrete

9.3 Ceiling: Concrete on exposed steel on stairwells and hatches 18" reinforced

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



## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 534'-0"
Fire Zone 8.2.6.C
Heat Exchanger Area

## 2.0 ACCESS

Primary: North Central stairs near condensate demineralizer control panels from el. 517' to el. 534'

Secondary: None

## 3.0 HAZARDS

Fire: Lubricating Oil

Electrical: See 3.2

Other: Resins stored in Drums, 2 Transformers containing Pyranol.

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe Sprinkler System

3 - Hose Reels
1 - $CO_2$ 1" Hose Reel
2 - $CO_2$ Portable Extinguishers
1 - Dry Chemical Portable Extinguisher

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at base of stairs of Resin Fill Funnels
- Provide support for Sprinkler 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 and Overhaul
- Provide surveillance for Sprinkler System control valve and 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 up stairs along Unit 2 West shield wall el. 538'

## 7.0 EXPOSURES

Instrument Racks
4kV SWGR 27, 37

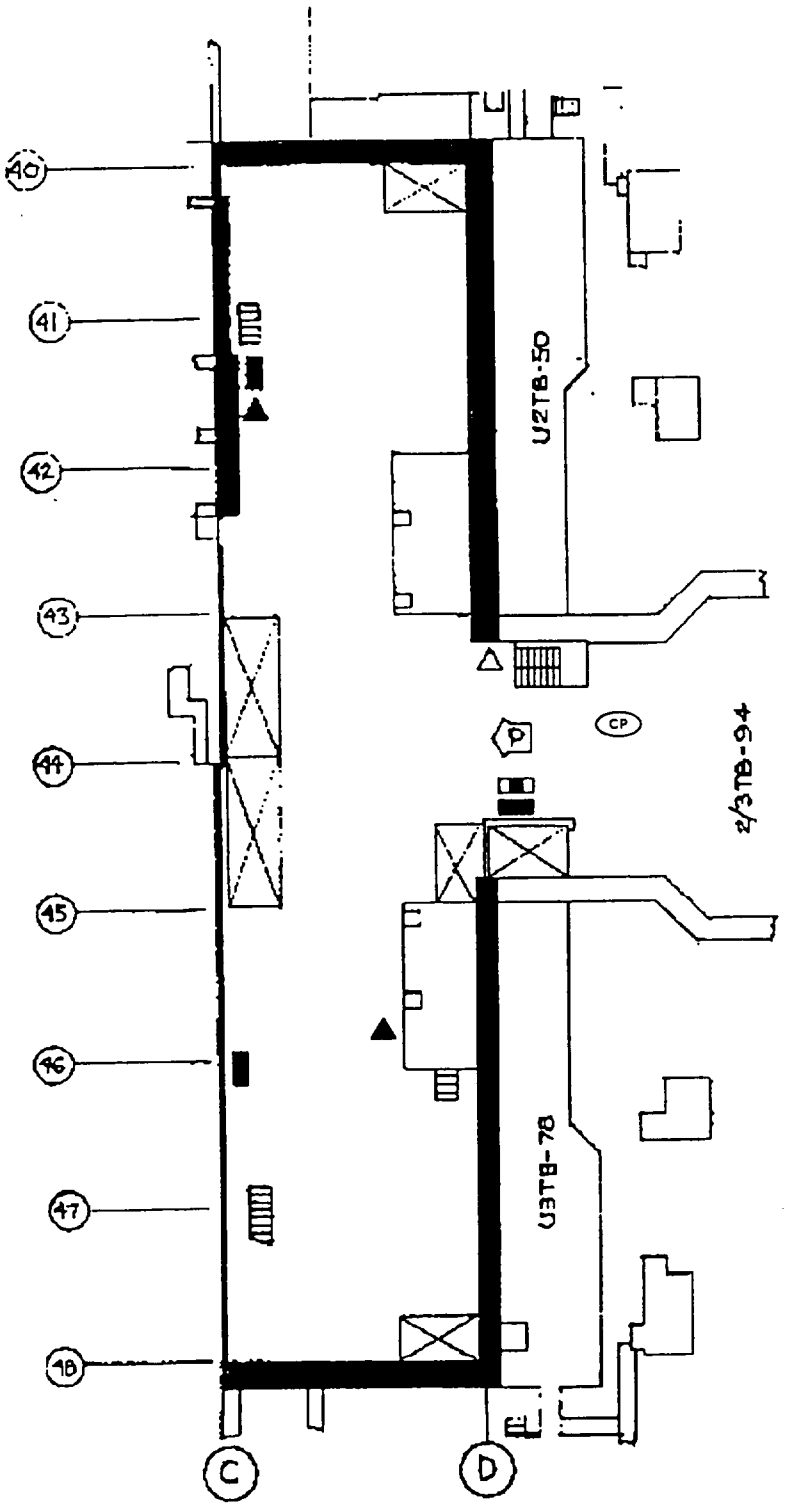
## 8.0 COMMUNICATIONS

Portable Radios

## 9.0 CONSTRUCTION

Floor and Ceiling are concrete on exposed steel with stairwells and hatches

Walls are concrete construction




FIRE ZONE B.2.G.C
ELEVATION 534'-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

1. 2/3TB-93 AT LEVEL BELOW
2. U2TB-57 & U3TB-84 AT LEVEL ABOVE

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2/3 Turbine Building
Elevation 534'-0"
Fire Zone - 8.2.6.C
Heat Exchanger Area

**2.0 Access:**

2.1 Primary: North Central stairs near condensate demineralizer control panel from el. 517' to el. 534'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Pumps, Compressors | Lubricating Oil | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 2-3303 | Condensate Demin. By-Pass Valve | A2 | MCC 27-1 |
| 3A-3801 | Turbine Building Cooling Water Pumps | B2 | MCC 35-1 |
| 3B-3801 | Turbine Building Cooling Water Pumps | A5 | MCC 37-1 |
| 2A-3801 | Turbine Building Cooling Water Pumps | B2 | MCC 25-1 |
| 2B-38O1 | Turbine Building Cooling Water Pumps | A5 | MCC 27-1 |
| Swgr 27 | 480V Swgr 27 | 2409 | 480V Swgr 24 |
| Swgr 37 | 480V Swgr 37 | 3409 | 480V Swgr 34 |
| | Rad. Waste Air Comp. | 275B | 48OV Swgr 27 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-5902 | Turbine Building Freight Elev. | A5 | MCC 25-1 |
| | Turbine Radwaste Bldg. Air Sampling System Compr. | K3 | MCC 27-1 |
| 3303 | Condensate Demineralization By-Pass Valve | A2 | MCC 37-1 |
| | Turbine Radwaste Bldg Air Sampling System Recirc. Pump | KS | MCC 27-1 |
| | Turbine Build. Sampling System Compr. | K3 | MCC 37-1 |
| | Turbine Bldg. Air Air Sampling System Recirc. Pump | K4 | MCC 37-1 |

3.3 Hazardous Substances: Resins stored in Drums.

3.4 Physical Hazards: 2 - Transformers (27 and 28) containing Pyranol

3.5 Life Safety: None

## 4.0 Fire Protection Equipment:

4.1 Detection: None

4.2 Automatic Suppression: Wet Pipe Sprinkler System

4.3 Hose Reels: 3 - Hose Reels
1 - $CO_2$ 1"-200-0 Hose Reel

4.4 Portable Extinguishers: 2 - $CO_2$
1 - Dry Chemical

## 5.0 Guidelines for Fire Attack:

- Establish command post at Ground Level at stairs South of area.
- 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 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 534' el. north of H-2 TBCCW Heat Exchangers near Col. 42C.
- 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 up stairs at the NW corner of Unit 2 Shield Wall el. 534'

**7.0 Exposures:** 4kV Swgr 27, 37; Instrument Racks

**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 steel with stairwells and hatches

9.2 Wall:

a. North: 36"/24" Reinforced concrete/metal siding
b. South: 48" Reinforced concrete/open/8" concrete block
c. East: 48" Reinforced concrete
d. West: 48" Reinforced concrete

9.3 Ceiling: 18" Reinforced concrete on exposed steel with stairwells and hatches

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



**SPECIAL NOTE:**

MG Set oil Pumps can be secured from Control Room at Panels 902-4 and 903-4.

## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 561'-6"
Fire Zone 8.2.8.A
MG sets

## 2.0 ACCESS

Primary: From Unit 2 Turbine Building Open area el. 561'-6"

Secondary: From Unit 3 Turbine Building, Open area, el. 561'-6"

## 3.0 HAZARDS

Fire: Lubricating Oil
Grease

Electrical: MG sets

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

Suppression: Wet Pipe System
4 - Hose Reels
(2 located in adjacent areas)
2 - $CO_2$ 1" Hose Reels
2 - $CO_2$ Portable Extinguishers
(1 located in adjacent area)
3 - Dry Chemical Portable Extinguishers located in adjacent areas

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post at top of stairs between Unit 2/3 Turbines
- Provide support for Sprinkler System
- S.C.B.A.
- Attack with Port. Ext., follow with 1-1/2" hose line
- Search Area for victims
- De-energize Electrical Equip.
- Ventilate and Overhaul
- Provide a person for surveillance for sprinkler valve and 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 center of MG set area el. 561'-6"

## 7.0 EXPOSURES

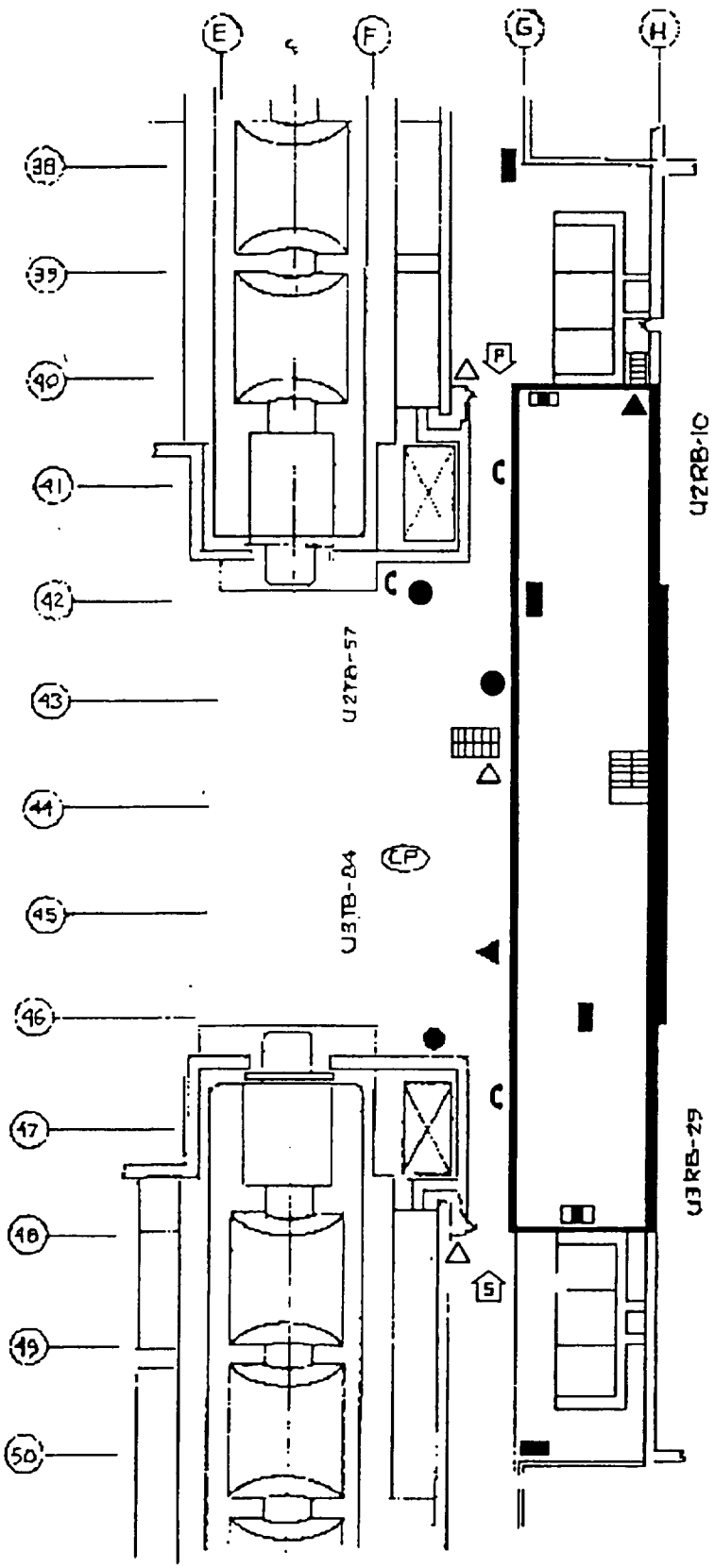
None

## 8.0 COMMUNICATIONS

3 - P.A. Locations nearby
3 - Extension Phones nearby
Portable Radios

## 9.0 CONSTRUCTION

Floor and Ceiling are concrete on exposed structural steel
South Wall is concrete and 3 hour fire rated




FIRE ZONE 8.2.8.A
ELEVATION 561'-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

1. 2/3TB-97 AT LEVEL ABOVE
2. U2TB-50, 2/3TB-94 & U3TB-78 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2/3 Turbine Building
Elevation 561' -6"
Fire Zone 8.2.8.A
MG Sets

**2.0 Access:**

2.1 Primary: From Unit 2 Turbine Building open area, el. 561'-6"

2.2 Secondary: From Unit 3 Turbine Building open area, el. 561'-6"

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| MG Sets | Lubricating oil | B |
| | Grease | B |

3.2 Electrical:

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3-A-202-31 | MG Set | 293D | Bus 29 |
| 2-A | RX Protection System MG Set | B4 | MCC 28-2 |
| 2B | RX Protection System MG Set | C2 | MCC 29-2 |
| 3A | Recirc. Pump MG Set | 3104 | 4160V Swgr 31 |
| 3B | Recirc. Pump MG Set | 3204 | 4160V Swgr 32 |
| 3A | Recirc. MG Set 3A Space Heaters | H3 | MCC 37-1 |
| 3B | Recirc. MG Set Space Heaters | K2 | MCC 37-1 |
| 3A | Recirc. MG Coupling Fluid Drive Pump 2 | G2 | MCC 36-1 |

| Component Number | Component Description | Circuit Breaker | Power Supply |
|---|---|---|---|
| 3B | Recirc. MG Coupling Fluid Drive Pump 1 | G3 | MCC 36-1 |
| 3-B | RX Protection MG Set | E2 | MCC 39-2 |
| 3A | RX Protection System Bus 2 MG Set | C2 | MCC 38-3 |
| 3-A-202-51 | MG Set Recirc. Coupling Fluid Pump (A1) | F2 | MCC 35-1 |
| 3-A-202-51 | Recirc. MG Vent Fan | 385D | 480V Swgr 38 |
| 3B-202-51 | MG Set Recirc. Coupling Fluid Pumps (2) | F3 | MCC 35-1 |
| 3B-202-51 | Recirc. MG Set Vent Fan | 394A | 480V Swgr 39 |
| 2A-202-51 | MG Set Recirc. Coupling Fluid Pump 1 | F2 | MCC 25-1 |
| 2A-202-51 | Recirc. MG Set Vent Fan | 285D | 480V Swgr 28 |
| 2B-202-51 | MG Set Recirc. Coupling Fluid Pump 2 | F3 | MCC 25-1 |
| 2B-202-51 | Recirc. MG Set Vent Fan | 294A | 480V Swgr 29 |
| 2A | Recirc. Pump Mg Set | 2104 | 4160V Swgr 21 |
| 2B | Recirc. Pump MG Set | 2204 | 4160V Swgr 22 |
| | Recirc. Pump 2A MG Set 2A Space Heaters | B3 | 480V MCC 26-4 |
| 2A | Recirc. MG Coupling Fluid Drive Pump 2 | J2 | 48OV MCC 26-1 |
| 2B | Recirc. MG Coupling Fluid Drive Pump 1 | J3 | 480V MCC 26-1 |
| 2B | Recirc. Pump 2B MG Set 2B Space Heaters | K2 | 480V 27-1 |

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 System

4.3 Hose Reels: 4 - Hose Reels (2 located in adjacent areas)
2 - $CO_2$ 1"-200' -0" Hose Reel

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

## 5.0 Guidelines for Fire Attack:

- Establish command post between Units 2/3 Turbines el. 561'-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 (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.
- Position one person with a portable radio at sprinkler system control valve located near MG Sets between Cols. 45G and 46G.
- 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 up stairs at the center of the MG Sets el. 561'-6"

## 7.0 Exposures: None

## 8.0 Communications:

8.1 Portable radios: OK to use

8.2 Public Address: 3 P.A. Locations in adjacent areas

8.3 Telephone: 3 Extension Phones located in adjacent areas

**9.0 Construction:**

9.1 Floor: 18" Reinforced concrete on exposed steel

9.2 Wall:

a. South: 18" Reinforced concrete, 3-hour rated

9.3 Ceiling: Concrete on exposed steel

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



## 1.0 LOCATION

Unit 2/3 Turbine Building
Elevation 581'/601'
Fire Zones 8.2.8.B, 8.2.8.C
RX Building Ventilation Equipment

## 2.0 ACCESS

Primary: From Turbine Operating Floor, up stairs at South Wall between MG Sets, el. 561' to el. 601'

Secondary: None

## 3.0 HAZARDS

Fire: Filters
Cable Insulation

Electrical: 480V Vent Fans

Other: None

## 4.0 FIRE PROTECTION EQUIPMENT

4 - $CO_2$ Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

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

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use Smoke Ejectors and Flexible Ducting to exhaust to Operating Floor

## 7.0 EXPOSURES

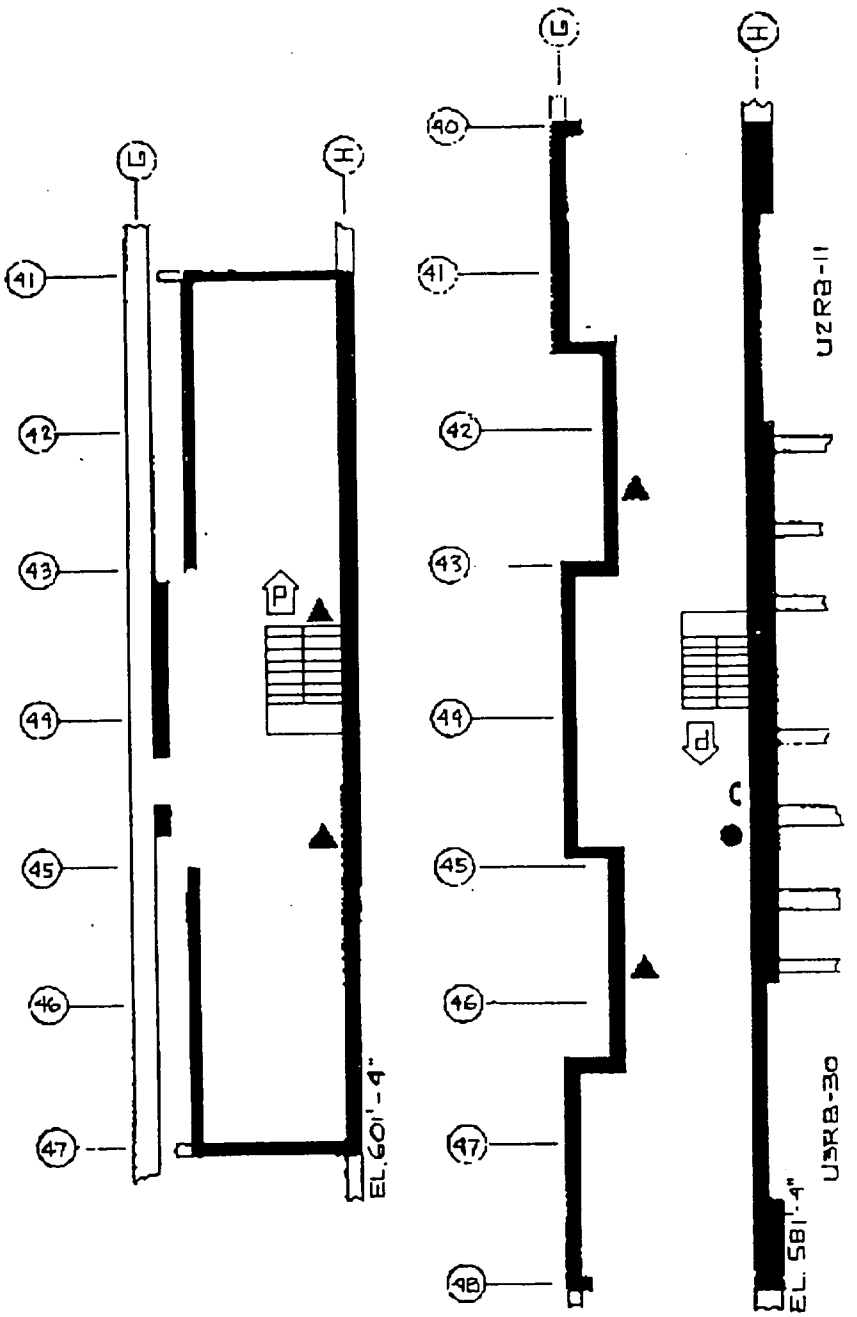
None

## 8.0 COMMUNICATIONS

1 Extension Phone
1 P.A. Location
Portable Radios

## 9.0 CONSTRUCTION

Walls - Concrete or open walls - Reinforced concrete on exposed steel
Floors - Reinforced concrete on exposed steel
Ceiling - Builtup roofing on precast concrete slab on exposed steel




FIRE ZONE 8.2.8.B, 8.2.8.C
ELEVATION 581'/601'

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. 2/3TB-96, U2TB-57 & U3TB-84 AT LEVEL BELOW

COMMONWEALTH EDISON CO.

DRESDEN NUCLEAR UNITS 2 & 3

FIRE PRE-PLAN

**1.0 Location:** Unit 2/3 Turbine Building
Elevation 581'/601'
Fire Zones 8.2.8.B, 8.2.8.C
Reactor Building Ventilation Equipment

**2.0 Access:**

2.1 Primary: From Turbine Operating Floor, up stairs at South wall between MG Sets, el. 561' to el. 601'

2.2 Secondary: None

**3.0 Hazards:**

3.1 Fire:

| Hazard | Material | Class |
|---|---|---|
| Reactor Bldg. Vent System | Filters | A |
| Panels | Cable insulation | A,C |
| Turbine Bldg. Vent System | Filters | A |

3.2 Electrical: 480V Ventilation Fans

3.3 Hazardous Substances: Radioactive HVAC Filters

3.4 Physical Hazards: Elevated walkway

3.5 Life Safety: None

**4.0 Fire Protection Equipment:**

4.1 Detection: None

4.2 Automatic Suppression: None

4.3 Hose Reels: None

4.4 Portable Extinguishers: 4 - $CO_2$

## 5.0 Guidelines for Fire Attack:

- Establish command post on Operating Floor near MG Sets.
- Self-contained breathing apparatus should be used by all personnel.
- Initial attack should be made with portable extinguishers backed up 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 reference drawings).
- 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 to open area above Operating Floor.

## 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: 1 Extension Phone (el. 581')

## 9.0 Construction:

9.1 Floors: 18" Reinforced concrete on exposed steel

9.2 Wall:

a. North: 12" Reinforced concrete, 3-hour rated except for HVAC duct w/o fire dampers
b. South: 12" Reinforced concrete, 3-hour rated except for HVAC duct w/o fire dampers
c. East: 6" Reinforced concrete, open at elevation 581'
d. West: 6" Reinforced concrete, open at elevation 581'

9.3 Ceiling: Builtup roofing on precast concrete slabs on exposed steel.

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

**SPECIAL NOTE:**

Extra lengths (minimum 50') of hose need to be added to hose stations prior to charging hoses to reach this area.

## 1.0 LOCATION

Unit 3 Turbine Building
Elevation 502'-6"
Fire Zone 8.2.4
Cable Tunnel, East end

## 2.0 ACCESS

Primary: From manhole in Aux. Elect. Room, el. 517' down to el. 502'

Secondary: From manhole South of EHC pumps, el. 517' to el. 502'

## 3.0 HAZARDS

Fire: Cable Insulation

Electrical: None

Other: Entrapment possible
Confined

## 4.0 FIRE PROTECTION EQUIPMENT

Detection: Ionization
Suppression: Wet Pipe System

3 - $CO_2$ Portable Extinguishers

## 5.0 GUIDELINES FOR FIRE ATTACK

- Command Post near manhole in Aux. Elect. Room
- Check Wet Pipe 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 for fixed systems

## 6.0 VENTILATION

Fixed: Operation of HVAC by Control Room as needed.

Manual: Use portable smoke ejectors and flexible ducting to exhaust smoke up through manhole in Aux. Elect. Room or up access hole near EHC pumps.

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

## 7.0 EXPOSURES

Division I and II Cable Trays

## 8.0 COMMUNICATIONS

2 Extension Phones
Portable Radios

## 9.0 CONSTRUCTION

Walls - Concrete (East Wall 3-hour rated)
Floor - Concrete
Ceiling - Concrete, 3-hour rated except for exposed steel manholes