Section 5 – Substation Fire Protection Requirements
Document release information

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<th>Client</th>
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<td>DSM split into 10 Sections – Introduction and Sections 1 to 9</td>
<td>Sandeep Magan</td>
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# 5 Substation Fire Protection Requirements

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NO OTHER STRUCTURES IN THIS ZONE UNLESS FIRE PROTECTED

NOTE: THIS DRAWING IS INDICATIVE ONLY. FOR SPECIFIC EQUIPMENT REQUIREMENTS REFER TO APPROPRIATE SECTION OF DISTRIBUTION SUBSTATION MANUAL. FIRE RISK ZONE SHALL BE CALCULATED AT 6m FROM THE OUTER POINT OF ALL ELECTRICAL EQUIPMENT WITHIN SUBSTATION AREA.

CASE 1 - ISOLATED SUBSTATION TOTALLY NON FIRE RATED

INDUSTRIAL & COMMERCIAL AREAS
Distribution Substation Manual

Section 5 - Substation Fire Protection Requirements

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**Legend**

- **FIRE RISK ZONE**

**Drawing No.** DSM-5-02

**CASE 2 - ISOLATED SUBSTATION**

- Open Top, Non-Fire Rated Doors,
- 2HR Fire Rated Walls

**INDUSTRIAL & COMMERCIAL AREAS**

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*This drawing to be read in conjunction with the substation installation requirements - DSB #5/6*
Distribution Substation Manual

Section 5 - Substation Fire Protection Requirements

Legend:
- FIRE RISK ZONE

Plan:
- MAIN BUILDING
- WINDOWS ETC ONLY
  PERMITTED OUTSIDE
  OF FIRE RISK ZONE
- 2HR FIRE
  RATED WALLS

Elevation:
- MAIN BUILDING

Note: This drawing is indicative only. For specific equipment requirements refer to appropriate section of Distribution Substation Manual. Fire risk zone shall be calculated at 6m from the outer point of all electrical equipment within substation area.

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Network Engineering Branch
Distribution Substation Manual

Drawing No. DSM-5-03

Case 3 - Adjacent Substation
Totally Non Fire Rated
Industrial & Commercial Areas

Date: 01/06/97
Revision:

westernpower
Distribution Substation Manual
Section 5 - Substation Fire Protection Requirements

PLAN

ELEVATION

LEGEND

FIRE RISK ZONE

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SUBSTATION INSTALLATION REQUIREMENTS - DSB 95/6

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NETWORK ENGINEERING BRANCH
DISTRIBUTION SUBSTATION MANUAL

CASE 4 - ATTACHED OR ADJACENT SUBSTATION
NON FIRE RATED DOORS & VENTS
2HR FIRE RATED WALLS & ROOF
INDUSTRIAL & COMMERCIAL AREAS

DRAWING No. DSM-5-04
DATE: 01/06/97
REVISION:
This drawing to be read in conjunction with the substation installation requirements - DSB #5/6

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Network Engineering Branch
Distribution Substation Manual

CASE 5 - INDOOR SUBSTATION WITH PUBLIC ACCESS OVER

INDUSTRIAL & COMMERCIAL AREAS

DRAWING NO. DSM-5-05

DATE: 01/06/97

LEGEND

FIRE RISK ZONE

IF > 2.2m THEN SUBSTATION WALLS, DOORS AND VENTS etc DO NOT REQUIRE 2HR FIRE RATING
IF < 2.2m THEN SUBSTATION WALLS MUST BE 2HR FIRE RATED
NOTE: THIS DRAWING IS INDICATIVE ONLY. FOR SPECIFIC EQUIPMENT REQUIREMENTS REFER TO APPROPRIATE SECTION OF DISTRIBUTION SUBSTATION MANUAL. FIRE RISK ZONE SHALL BE CALCULATED AT 2 m FROM THE OUTER POINT OF ALL ELECTRICAL EQUIPMENT WITHIN SUBSTATION AREA.

CASE 6 - ISOLATED SUBSTATION TOTALLY NON FIRE RATED

RESIDENTIAL AREAS