



DISTRIBUTION CODE 2008

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Outline

1. Purpose and Scope

Objective

Scope

Management of Distribution Code

3. Condition of Supply

Connection Procedure and Non-compliance

Disconnection of Supply

Connected Plant Restrictions

4. Asset Management

Good Asset Management Practice

Consumer Obligations

5. Distribution Operating Code

Distribution Operating Parameters

Outage Planning

Maintenance of Sub-stations and Distribution Lines



Purpose and Scope

Objective

- Regulate – safe, reliable and efficient

Scope

- Distribution Licensee (33kV and below)
- Consumer connected to Distribution System

Non- Compliance - refer to Authority for redressal

Management of Distribution Code

- Amendment- made by Authority
- Request for Amendment- addressed by Authority



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Condition of Supply

Connection Procedures

- Application – prescribed format of the Licensees
- Connection Agreement – technical requirements, commercial arrangements, Site Responsibility Schedule, connection boundaries

Non-Compliance

- Licensees failure – inform(5 days) and investigate(20 days)
- Customers failure – inform customer and provide reasonable time for compliance

Condition of Supply



Disconnection of Supply

- Health, safety & emergency
- Upon customer request - 5 days in advance
- Illegal supply
- Non-compliance to Code or connection agreement

Condition of Supply- connected plant restrictions



Safety – safety standards/ Safety Regulations

Insulation – adequate insulation strength

Clearances – Safety Code regulations

Earthing - safety standards

Motor Starter - > 6 times the full load current

Back - energization

Harmonics and voltage flicker – connection agreement



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Asset Management Practice



1.
 - Assess and record : nature, location, condition and performance of Distribution System asset

2.
 - Develop and implement plans for acquisition, creation, maintenance, operation, repair and disposal of Distribution system asset
 - Plan for establishments and augmentation works with transmission connection

3.
 - Develop, test, simulate and implement Contingency plans



Asset Management- Customers' obligation

Consumers' Electrical Installation and Equipment

- Complies with Distribution Code
- Protection Equipment – coordinated with Distribution Systems
- Does not affect the reliability of Distribution system
- Not bypass/tamper meter

Distribution Licensee's Equipment on Consumer's Premises

- Should not interfere with system- equipment
- Provide unhindered access – supply, metering, billing and inspection



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Distribution Operating Code- Operating parameters



System of supply

Voltage Level	Limits of Variation
Single Phase:230V Three Phase: 400V	±6%
6.6kV, 11kV,33kV	±10%
Three phase at 66kV and above	±10%

- Frequency: 49.0 - 50.5 Hz
- Power Factor: 0.85
- Max. permissible phase differences: 5%.

Distribution Operating Code



Outage Planning

Coordinate planned outage with Transmission system

The outage programme should contain – identification of lines; date of outage; duration of outage and estimated quantum of load curtailed

Exemption from planning – emergency situation to save life, plant and machinery



Distribution Operating Code

Maintenance
of Sub-
stations and
Distribution
Lines

Preventive maintenance - annually/half
yearly/quarterly/monthly

Maintain register(maintenance works) –
transformer, breakers, and isolators;

33kV and below lines - Inspect at regular
interval

Coordinate maintenance works of sub-stations
with Transmission Licensee



Thank You