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HTA Distribution Station

Operation and electrical safety equipment

DANGER
NO ENTRY
Transformer
Station

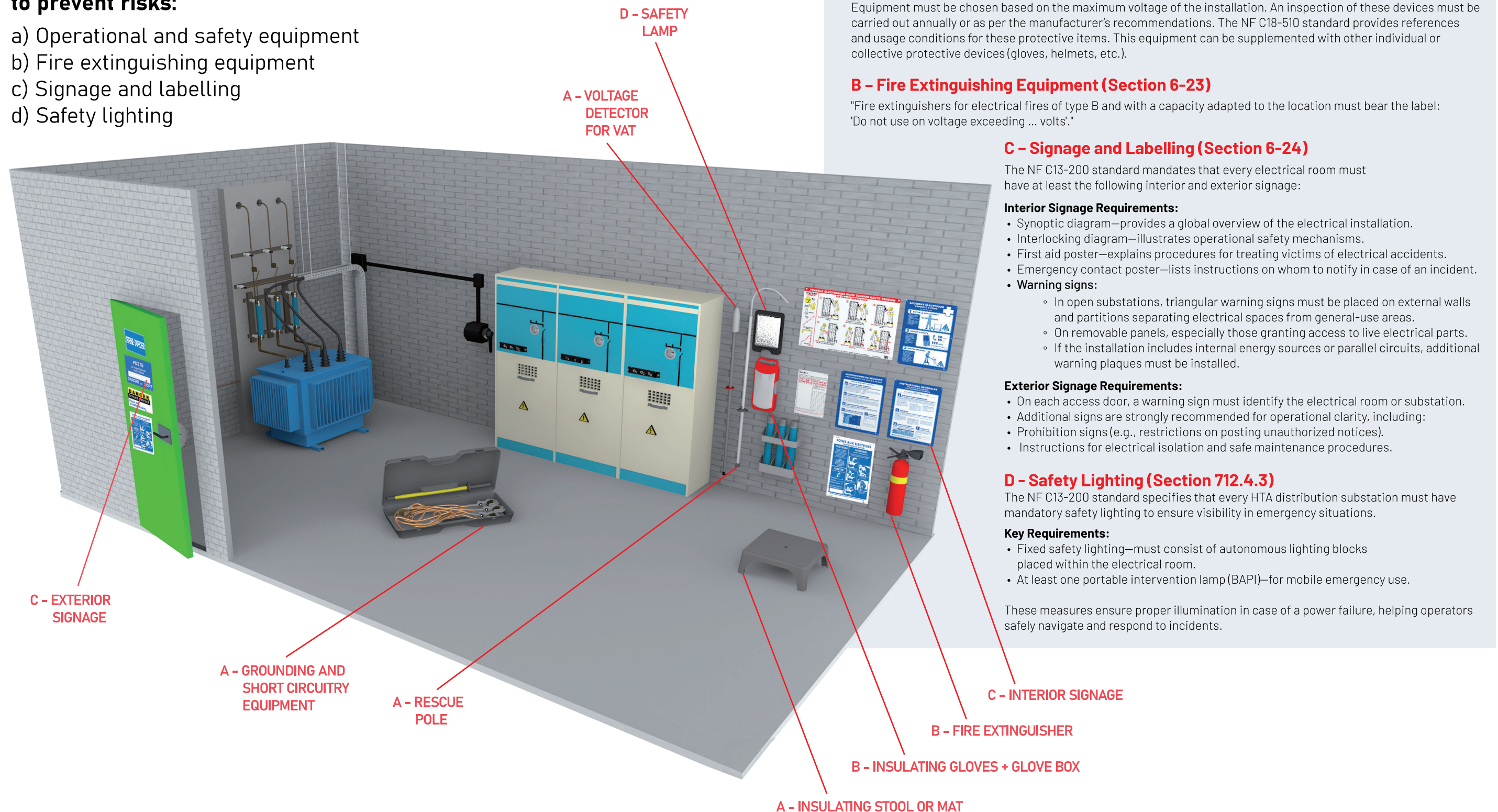
Ensure your substations
comply with the
NF C13-200
Standard June 2018

Operational and safety equipment for HTA Distribution substation

They are defined by the NF C13-200 standard, updated in June 2018.

Four categories of equipment are recommended to prevent risks:

- Operational and safety equipment
- Fire extinguishing equipment
- Signage and labelling
- Safety lighting



WHAT DOES NF C13-200 STANDARD SPECIFY?

A – Operational and Safety Equipment (Section 6-22)

"The conditions for implementation, selection, and use of personal protective equipment, as well as their maintenance, are defined by the employer in accordance with the Labor Code.

To facilitate rescue operations, the following must be present and maintained:

- Rescue pole
- Insulating mat (for maximum voltages up to 36 kV) or insulating stool (for maximum voltages up to 63 kV)
- Insulating gloves (for maximum voltages up to 36 kV)
- Voltage Absence Tester (VAT)

Equipment must be chosen based on the maximum voltage of the installation. An inspection of these devices must be carried out annually or as per the manufacturer's recommendations. The NF C18-510 standard provides references and usage conditions for these protective items. This equipment can be supplemented with other individual or collective protective devices (gloves, helmets, etc.).

B – Fire Extinguishing Equipment (Section 6-23)

"Fire extinguishers for electrical fires of type B and with a capacity adapted to the location must bear the label: 'Do not use on voltage exceeding ... volts'."

C – Signage and Labelling (Section 6-24)

The NF C13-200 standard mandates that every electrical room must have at least the following interior and exterior signage:

Interior Signage Requirements:

- Synoptic diagram—provides a global overview of the electrical installation.
- Interlocking diagram—illustrates operational safety mechanisms.
- First aid poster—explains procedures for treating victims of electrical accidents.
- Emergency contact poster—lists instructions on whom to notify in case of an incident.
- **Warning signs:**
 - In open substations, triangular warning signs must be placed on external walls and partitions separating electrical spaces from general-use areas.
 - On removable panels, especially those granting access to live electrical parts.
 - If the installation includes internal energy sources or parallel circuits, additional warning plaques must be installed.

Exterior Signage Requirements:

- On each access door, a warning sign must identify the electrical room or substation.
- Additional signs are strongly recommended for operational clarity, including:
- Prohibition signs (e.g., restrictions on posting unauthorized notices).
- Instructions for electrical isolation and safe maintenance procedures.

D – Safety Lighting (Section 712.4.3)

The NF C13-200 standard specifies that every HTA distribution substation must have mandatory safety lighting to ensure visibility in emergency situations.

Key Requirements:

- Fixed safety lighting—must consist of autonomous lighting blocks placed within the electrical room.
- At least one portable intervention lamp (BAPI)—for mobile emergency use.

These measures ensure proper illumination in case of a power failure, helping operators safely navigate and respond to incidents.