

Elevator Commissioning

A Near Miss Safety Incident Analysis

A case study of a near-miss electrical incident during elevator commissioning at a prestigious South Mumbai hotel, where a near miss accident was reported





Incident Overview

The Incident

During elevator commissioning, a significant explosion occurred at the machine room main switch.

The explosion propelled the cover approximately ten feet from its original position

Fortunately, no personnel were in proximity to the main switch, preventing injuries.

Immediate Response

The hotel maintenance team quickly replaced the main switch with a new one.

Power supply was successfully restored after the incident.

Root Cause Analysis (RCA)

1 *Temporary Equipment Failure*

Temporary old iron clad power main switch was used by the project team.

2 *Repeated Use Damage*

Due to repeated use of the power handle, the phase wires got shorted inside the switch.

3 *Improper Maintenance*

The screws fixing the cover were not properly secured - they were loose or missing.



Safety Actions & Recommendations

1

Corrective Action (CA)

The power main switches were thoroughly checked by the project team and restored to proper working order.

2

Preventive Action (PA)

Safety alert disseminated to all field personnel by the Safety Department.

Emphasis on ensuring client-supplied main switches are in optimal condition with securely affixed covers. Recommend to use RCCB than Iron Clad main switches.

3

Operational Safety

Operators instructed to keep their face away while operating main switches.

This precaution will safeguard operators' faces in case of similar short circuits.



Operate the power mains switch with face away . Use Left hand only.



Face Away – No 1