

Safety Tool Box Talk No 6

A comprehensive review of a serious elevator accident where a passenger fell into the shaft and was later got crushed by a descending elevator. This Safety TBT p examines the incident causes, investigation findings, and implemented safety measures to prevent similar occurrences.

This PPT should be conducted by the managers with thier report (including non technical staff) during their weekly meet whereas the attached word to be taken up by the field supervisor with thier field staf

For internal consumption and training only



Incident Overview

A passenger visiting a relative in the building opened the ground floor elevator door from outside, assuming the elevator was present. Upon stepping forward, the passenger fell into the elevator pit. While attempting to escape, the descending elevator caused serious injuries to the fallen passenger.



Root Cause Analysis



Compromised Door Safety

Ground floor doors were electrically shorted, allowing the elevator to operate with landing doors open



Mechanical Failure

Ground floor door lacked proper mechanical locking, enabling passenger access (open the doors)when elevator wasn't present



Passenger Assumption

Visitor assumed elevator was at ground floor when opening the door



Root Cause Identified

Maintenance Shortcut

The mechanic had shorted the ground floor lock circuit as a temporary measure after discovering the lock shorting strip was damaged.

The technician intended this as a temporary solution until replacement parts could be retrieved from stores, but left the elevator in normal operation with this critical safety feature disabled.





Immediate Corrective Actions -CA

Authority Notification

Public Works Department and police were promptly informed for further investigation and action

Technical Repairs

Lock components were replaced and properly adjusted to restore safety functionality

Service Restoration

Elevator returned to service only after all safety systems were verified operational

Preventive Measures Implemented (PA)



Safety Alert Distribution

The Environmental Health & Safety team issued a formal safety alert to all field staff, explicitly prohibiting the shorting of any safety circuit during normal elevator operation. Any circuit requiring shorting needs approval of his manager

This communication emphasized the critical nature of maintaining all safety systems in proper working condition at all times when elevators remain in service.



Ongoing Safety Enforcement

- 1** Comprehensive Inspection Program
Examiners directed to check all existing elevators for any unauthorized circuit shorting or safety bypasses
- 2** Immediate Remediation Requirement
Any identified safety issues must be addressed within a strictly enforced timeline
- 3** Documentation Protocol
Implementation of improved documentation for all maintenance activities, especially those affecting safety systems



**ELEVATOR
INSPECTION
CERTIFICATION**



Key Takeaways

Never Compromise Safety

Safety circuits should never be bypassed during normal elevator operation, regardless of circumstances

Proper Procedures

Elevators with compromised safety features must be taken out of service until properly repaired

Regular Verification

systematic inspection programs are essential to identify and correct unauthorized modifications