

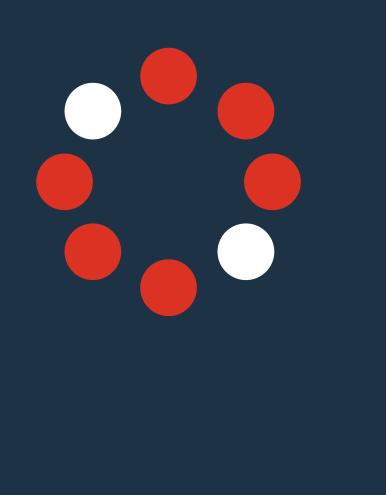


Alstom Transport India Limited, Kolkata

Case Study:
Deep Dive Safety audit for Accident elimination/optimization

Dr. Amit KUMAR





Agenda

- 1. Business Overview & ATIL Kolkata
- 2. Case Study



Business Overview

Rolling Stock & Components



People Mover & Monorail

Light Rail

Metro Suburban

Regional & Intercity

High-speed & Very high-speed

Locomotives

Components

APABILITIES

- Rolling Stock (Urban & Mainline)
- Signalling & Digital Mobility
- Systems
- Infrastructure



INDUSTRIAL FOOT PRINT

- Madhepura: Mainline Rolling Stock (Electric Locomotives)
- Sricity: Urban Rolling Stock
- Savli: Rolling Stock & Bogies
- Coimbatore: Traction & Equipment
- Maneja: Propulsion Equipment
- Kolkata: Car Body Shells



NGINEERING CENTRES

- Bengaluru
- Hyderabad

Digital & Integrated Systems



Urban Signalling

Mainline Signalling

Turnkey

Smart Mobility

Cybersecurity

Signalling & Infrastructure Services

Infrastructure & Telecom

Services



Rolling Stock Maintenance

Asset Life Management

Parts & Component Overhauls

Digital Solutions

Train Operations & System Maintenance

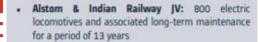






E-LOCO Projects (CBS)

KEY PROJECTS IN PROGRESS



- Delhi Meerut RRTS: 210 commuter metro cars and installing India's first ETCS Level 2 system for a mainline project
- Mumbai Metro Line 3: 248 metro cars and equipping the latest CBTC signalling technology

ONGOING PROJECTS -**URBAN ROLLING STOCK**

- Mumbai Metro Line 3 (248 metro cars)
- Montreal Metro (212 metro cars)
- Sydney Metro City & Southwest Extension (138 metro cars)
- Perth Metro (252 Car Body Shells)
- Agra Kanpur Metro (201 metro cars)
- Mumbai Metro Line 4 & 4A (234 Metro cars)



Car Body shell for E-Loco

Wt: 22 T (one segment)

Dim: 18m x 3.2 m x 3.5 m



worldwide

Over

70,000

employees





Alstom Zero Deviation Plan (12 Directives)





ZERO Deviations in High-Risk Activities

ZERO Tolerance
on deviation
to the Alstom Safety Directives

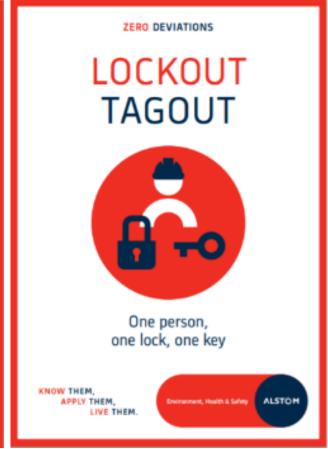
Alstom Zero Deviation Plan

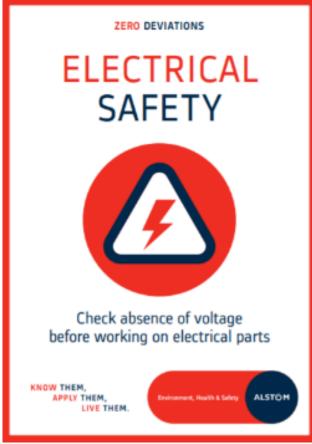
RULES

KNOW THEM,
APPLY THEM,
LIVE THEM.







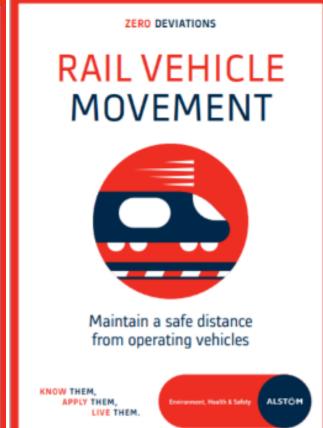


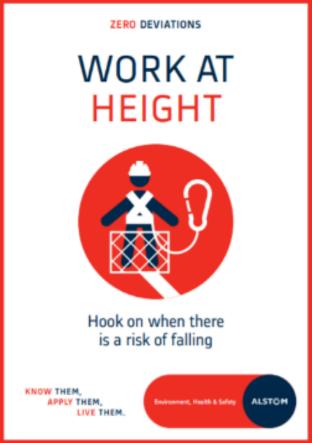
Alstom Zero Deviation Plan

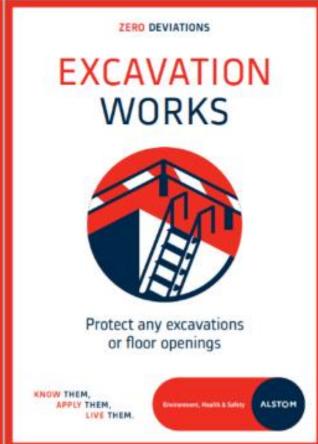
RULES

KNOW THEM,
APPLY THEM,
LIVE THEM.









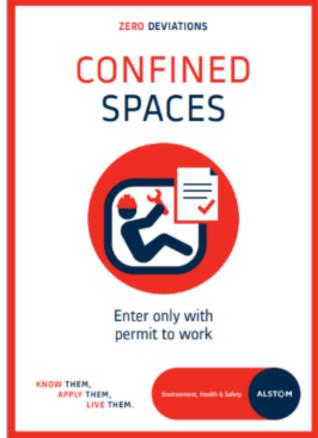
Alstom Zero Deviation Plan

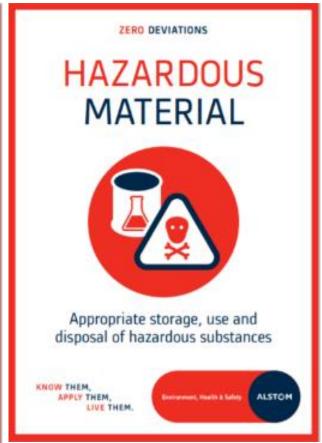
LIFE SAVING RULES

KNOW THEM,
APPLY THEM,
LIVE THEM.









Case Study: Deep Dive Safety audit for Accident elimination/optimization

Alstom Transport Kolkata Unit producing Car Body shell for E-Loco. During production, High risk activities like Heavy Fabrication, Lifting, Shot blasting & Painting are involved in the process.

- 1. **Problem**: During the FY:20-21 there were work related injury is reported. This was an alarming situation for ATIL Management.
- 2. Solution: To eliminate work related incidents, ATIL Management had taken the following steps.
- a) Deep dive safety audit with Cross functional team (EHS + Production + Industrial Team+ Shop floor Associates)
- b) Identification of Major/minor Safety gap related to day-to-day activities
- c) Categorization of gaps and immediate action plan (mitigation action & elimination action).
- d) Weekly review with Management

3. Results:

- a) Zero Accident in last two financial years (880 days without LTA)
- b) 2.6 M safe manhours achievement
- c) AZDP (Safety compliances) 96 %



