



**SCREENING CHAPTER 14
TRANSPORT POLICY
Land Transport / RAIL**

**AGENDA ITEM I: LAND TRANSPORT/RAIL/
Interoperability**

**Country Session: The Republic of TURKEY
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CONTENT

- Current Situation
- Ongoing Studies
- Future Plans



Current Situation

- No central office responsible for overall rail safety
- Divided tasks and responsibilities regarding interoperability and safety between departments of TCDD
- Numerous operational instructions prepared under the responsibility of the corresponding departments at TCDD
- A national implementation plan for the Technical Specifications for Interoperability (TSIs) has not been drawn up yet.

Current Situation (CONT'D)

Permanent Way Department

- Responsible for maintenance and repair of permanent way
- Definition of technical specifications and regulations according to:
 - UIC standards
 - Implementing rules of French and German railways.
 - Technical standards:
 - Long Welded Rails, Track Gauge
 - Maximum Axle Load and Speed
 - Structural and Loading Gauge
 - Geometrical measures of Tracks & Points
 - Procurement of equipments

Current Situation (CONT'D)

Permanent Way Department

- Instruction no 105 of TCDD concerning responsibilities and tasks of the staff
- Bridges and Culverts according to
 - BE German Railways Steel Bridge Calculation Basics
 - EUROCODE standards.
 - Inspections of such structures with “Basics on Control, Maintenance and Restructuring of Bridges”

Current Situation (CONT'D)

Permanent Way Department

➤ Track Infrastructure:

- Cross-section of Platforms
- Precautions in level-crossings according to the Law on Road Traffic
- Traffic safety in level-crossings

➤ Project and Application:

- Cant (superelevation) and curve relations with respect to speed
- Principles for the use of Track Maintenance Vehicles



Current Situation (CONT'D)

Traction Department:

- Rolling Stock according to UIC norms
- Passenger cars and freight wagons in compliance with
 - corresponding RIV and RIC specifications
- Office of Train Operations
 - responsible for the safety of the Rolling Stock.
- Operational instructions under this department
 - “Preparation and Traffic of Trains”
 - “Radio Communication”
 - “Psycho-technical Examination”
- The internal inspection by Traction Inspectors

Current Situation (CONT'D)

Freight Department

- Instruction No 502
 - Definition of principles for loading, labelling and sealing of freight
 - Planning demands, allocation, distribution and transport of freight wagons.
- Instruction No 505
 - Definition of principles for loading, unloading, transferring and labelling of dangerous goods
- Operational Instruction on Interoperability of freight wagons on international transport (RIV)

Current Situation (CONT'D)

Installations Department:

Railway Traffic Management

- Law on Road Traffic
- Incorporation Statute of TCDD
- Operational instructions:
 - Preparation and Traffic Management of Trains
 - Radio Communication
 - No 1601 on the tasks and responsibilities of the staff
 - No 515 on Traffic Management
 - No 1605 on DRS signalling system



Current Situation (CONT'D)

Installations Department: Railway Traffic Management

➤ Circulars

- No 81 on provisions for a case of throwing stones at trains
- No 288 on certain places for backing trains with locos
- No 292 on provisions for handling of out of gauge freight
- No 400 on places of slopes to check train brakes
- No 421 on railway sections with max. allowable axle loads
- No 470 on principles of transport of gasses
- No 630 on railway accidents
- No 641 on operations of electrical train
- No 647 on point cabins
- No 761 on transport of rails longer than 180m

Current Situation (CONT'D)

Installations Department

➤ Control-Command and Signalling Systems:

- For new construction: UIC standards, EN and CENELEC & CEN&ETSI specifications
- For the fixing stage of installations: UNISIG and CENELEC standards
- Operation is managed according to Traffic Regulations of
 - CTC (for signalled sections) along with ATS protection system
 - TMI (for non-signalled sections)



Current Situation (CONT'D)

Installations Department

➤ Telecommunication:

- ITU-T for wired systems
- ITU-R and ETS for radio systems
- MORANE for GSM-R
- Circulars of No 1601, No 1602, No 1603 and No 1604 for responsible staff

➤ Energy:

- By-Law on “Strong Current Installation” by Ministry of Energy and Natural Resources
- UIC, IEC and EN
- 25 Kv-50Hz.



Future Plans

- Strengthen the administrative capacity of Turkish Railway Sector on safety and interoperability:
 - to analyse current railway safety rules for gap analysis
 - to examine TSIs for preparing National Safety Rules
 - to translate TSIs to Turkish
 - to train the staff responsible for interoperability.
 - to establish a safety unit at TCDD
 - to prepare Safety Management System