



Standards for High Speed Rail Systems

Iñaki Barrón de Angoit

UIC, Director of Passengers Department

Paris, France



Standards for high speed rail

Important preoccupation and subject very often requested by UIC members

Standards for railways and the many “w”:

- What's
- Why
- Which
- Who
- When

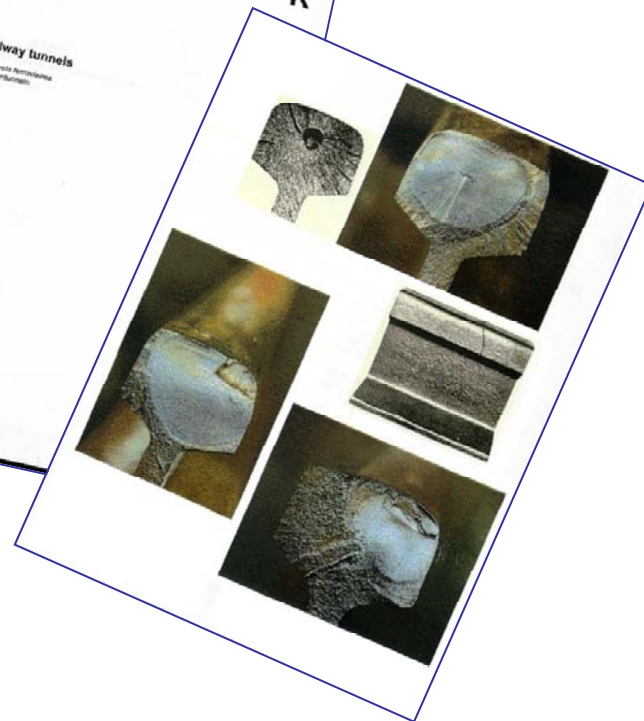
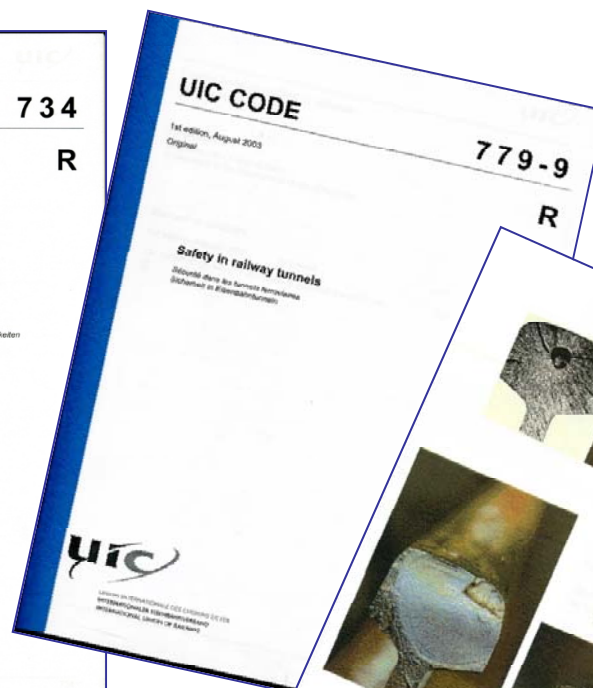
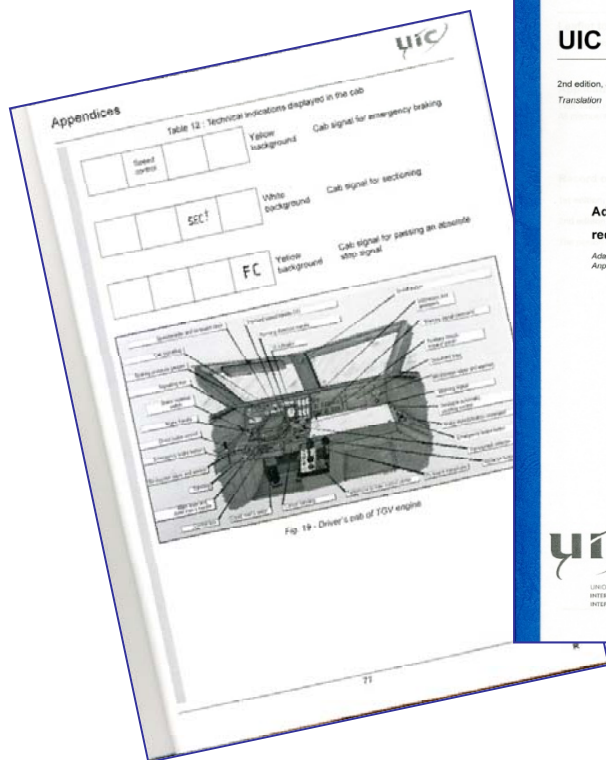


What's standards?

- Railway Standards is a document produced to define mandatory requirements to conceive, built and operate any railway system
- It can consist of a rule, guideline, procedure or definition
- Standards help to make life simpler and to increase the reliability and the effectiveness of the railway systems



UIC Leaflets





Why standards?

Standards are required to give as much as possible homogeneity, by accomplishing the 3 main objectives:

- Safety
- Operability (technical aspects)
- Economy



Which standards?

- Many different types: Technical
Operational
Legal
- Many different levels: National
International (global?)
- Many different families: EU
Japan
USA (AAR)
China
Russia
...



Who is to produce standards?

Authority / Authorities
International / National

In principle, all the possible actors should be also involved, bringing together the experience and expertise of all interested parties (operators, producers, users, regulators, etc.)



When standards must be produced?

From the beginning of the conception of the HS system

In many different steps

Actions: always, at any time

Updating and adapting standards must be a permanent activity



Standards for high speed systems

- Necessity and objectives of the (specific?) railway normative for high speed
- Different levels of responsibility and different levels of commitment
- Types and level of normative: technique (infrastructure, rolling stock, operation, etc.), commercial, legal, industrial, etc.
- Railway normative actors: conception, elaboration, validation and application. How?
- The future of the international railway normative (European, global)
- Toward global railway standards. It's possible?



Standards for high speed systems

New standards or extrapolation?
(I.e. UIC Leaflet 518 for more than
300 km/h)

What's the role of UIC Leaflets, in
Europe, outside?



Standards for high speed systems

Application:

- How?
- When?
- Who?
- ...



Discussion on High Speed Standards

- Workshop in Beijing
UIC + ERA + MOR / CARS
10th – 11th May 2010 – Preliminary
- Workshop at the UIC Headquarters:
UIC + ERA + MOR / CARS + FRA (USA)
+ Japan + Russia + UNIFE + ...
15th October 2010 – Exploratory
- Next steps: Second workshop, training,...



Track 201 – Module V:

Let's discuss on standards for high speed