TRANSSC 22
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Technical Basis of Provisions in TS-R-1

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Purpose of the project

• To identify essential safety requirements and the gaps;
• To pool and preserve the knowledge;
• To have easy and fully access to technical bases;
• To help users to understand the Regulations;
• To facilitate the revision/review and the improvement of the Regulations.
Meetings

• The first technical meeting, October 2010 in Paris;
• The second one, March 2011;
• Mr. Ben DEKKER from WNTI chaired these two meetings;
• Around 50 participants took part in these two meetings;
Work done by meetings

- Identified essential safety requirements;
- The provisions are sorted as:
  - Fundamentals;
  - Requirements;
  - Criteria;
  - Conditions and scope;
  - Quantitative values.
Work done by meetings

- Searched technical bases by tracing all advisory materials published by IAEA and other papers;
- Created a matrix to link essential safety requirements and references describing the technical bases;
Outcomes of meetings cont.

- Relation of Fundamentals, Criteria and Grading;
- Basis for Criticality Safety in Transport;
- Tracking of the Regulation Change History;
- Relations between the basic concepts of the Transport Regulations;
## Example of conclusions of the meetings

<table>
<thead>
<tr>
<th>Section</th>
<th>Conclusion</th>
<th>Reference</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>646</td>
<td>20% increase after test for in normal conditions</td>
<td>646.1-6, 622.4-7</td>
<td>Considered reasonable when introduced in SS6 1985 Edition instead of no increase. Probably arbitrary chosen.</td>
</tr>
<tr>
<td>634</td>
<td>Smallest dimension for packages (10 cm)</td>
<td>634.1</td>
<td>Sufficiently documented in 634.1</td>
</tr>
<tr>
<td>618</td>
<td>Requirement for air transport (ambient temperatures)</td>
<td></td>
<td>ICAO value</td>
</tr>
</tbody>
</table>
Inventory of documents used for technical bases

- IAEA safety standards;
- IAEA TECDOC;
- PATRAM (1978 – 2007);
- ISO, IMDG, UNOB, ADR … 
- Others;

(2.5 G)
Recommendations

• Specific topics will be listed with its importance or priority in order to propose further work (UF6, contamination, Type C, LSA/SCO, NORM, Q system, activity release, criticality issues, etc.);

• Consultant meetings, CRP.
• The static (historical) and dynamic material;
• To call more cooperation from the Member States;
Thanks!