Project SMS (the Safety Case)

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5003

Why a Project SMS

Changes to the existing railway and the building of new lines needs to be done safely and be legally compliant

Note:

The basis for this presentation was prepared by Dipl.-Ing. Maik Wuttke (TUV Rheinland) who provides expert assistance to the CRR in the area of authorisation to place in service

Legal Basis for Project SMS

RSD:

- ≻(EU) 402/2013 REA
- >(EU) 2018/762 SMS requirements for RU/IM
- (EU) 2018/545 Requirements Capture (mandated for vehicles, recommended for FI)

RSA:

≻NWA/NRSA





Building a project SMS can be structured into 5 topics



1 - Safety and Compliance Planning

Define the project and correct APIS/ACC Case

Set down policy and strategy to achieve this

Set out project life-cycle phases and schedule

>A competent project organisation must be established

State how independence and impartiality will be maintained

Adjust/update plan as needed



2 - Hazard Identification and RA

- Determine level of significance
- Systematic identification of all relevant hazards (checklists, workshops, lessons learned....)
- Documented in the Hazard Record
- ➢RA principal to (EU) 402/2013
- ➢ Risk evaluation
- >Safety measures for risk control
- Assessment of residual risk





3 – Safety & Compliance Requirements Specification

Systematic identification and listing of all requirements:

≻Legal

- Contractual/Network Access
- Standards/Codes of practice
- ➤Technical
- >Applicant specific requirements

Documented in the SCM and kept updated



4 – V & V

Verification – confirmation through objective evidence that the <u>specified requirements</u> have been fulfilled – *did you meet the standard*

Validation – confirmation through objective evidence that the requirements for a <u>specific intended use</u> have been fulfilled – *did you pick the right standard*

Confirmation of V & V is documented in SCM



5 – Safety Case & Demonstration of Compliance

The Safety Case indicates:

Safety & compliance planning complete No outstanding risk mitigations V & V activities complete

The Safety Case is the output of the above methods



General

Documents must contain what is necessary and only that

>Avoid volume

> Do not repeat same topic in different places

Self checking of documentation must be done





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