1st Topical Peer Review
Public event – 3rd May 2018
Brussels

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Reliable & functional cables crucial for nuclear safety
Ageing affects cables in different ways, potentially causing their inoperability

The scope of TRP includes:

All electrical cables important to safety, power (high & medium voltage), I&C, neutron instrumentation cables
All elements of “cable” commodity (Conductor; Insulation; Armoring/Shield; Jacket, sheath; Termination arrangements)

Identification of methods & criteria for selecting cables for AMP
Processes/procedures for identification of ageing mechanisms
Grouping criteria to implement ageing management
Ageing assessment of cables:

Ageing mechanisms requiring AM/ their significance
Acceptance criteria for specific ageing mechanisms
Key standards used for SSC specific AMP
Key documents used; R&D and OPEX

Monitoring, testing, sampling and inspection activities

Programmes & frequency for monitoring, testing; Acceptance criteria
Test methods used
Key features of inspection & surveillance programmes
Identifying trends, and progressive incl. unexpected deterioration

Preventive and remedial AM actions

Criteria for defining appropriate AM actions;
Procedures for deciding on & implementing AM actions;
Description of AM actions (to be) implemented
TG Cables

Review process

Nine TG experts + rapporteur + PM (11 countries)
Total of 493 questions related to cables raised
Of those, 152 from TG Cables

Identification of challenges and Good practices

Separately for NPPs and for Research reactors
12 Good practices & 25 challenges/areas for improvements for NPPs
4 Good practices and 11 challenged for RR identified

10 issues for NPP & 3 for RR in developed detail-input for WS:

- Systematic identification of degradation mechanism
- Decision criteria for useful life and related uncertainties
- Techniques for detecting degradation on inaccessible cables
- Cable deposits for accelerated ageing- most demanding locations
- How pertinent are methods for NPP to be applied on RR