Small Modular Reactors – Transport Safety

The Global Nuclear Safety and Security Network (GNSSN)
13th Steering Committee Meeting

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Transport of SMRs

Review / Revision Process of International Framework for Transport Safety Regulations

**Route 1**

**IAEA / UNECE**
- SMR classified as ‘DG Class 7’
- Revise SSR-6
  - New requirements
  - New category
  - New UN Number (?)

  - Revise UN Model Regulations

  - Revise National Road / Rail Regulations

**Route 1a**

**IMO**
- SOLAS Convention
  - Chapter VII, Part D Regulation 14
  - INF Code
    - Revise for INF 4?
  - Revise International Sea Regulations (IMDG Code)
  - SOLAS Convention
    - Chapter VII, Part A Regulation 3

Route 1 and Route 1a are interconnected, indicating a flow of processes and regulations.
Transport of SMRs

Review / Revision Process of International Framework for Transport Safety Regulations

**Route 1**
- **IAEA / UNECE**
  - SMR approved under Special Arrangement approval
  - Revise National Road / Rail Regulations

**Route 2**
- **IMO**
  - SMR not classified as ‘DG Class 7’
  - Revise SOLAS Convention
    - Chapter VIII Nuclear Ships?
    - + Possible copy of INF 3 or new INF 4(?) requirements?
Timescales

Route 1
- perhaps 4 years for SSR-6
- 2 years for publication of Model regulations

Route 1a
- 2 years IMDG Code
- 2 years for INF Code if required

Overall perhaps 8 – 10 years

Route 2
The most likely route for sea mode
Unknown timescale – revision of Convention within IMO administration
IAEA support for IMO

The Agency may be asked by the IMO to provide a report of the extent to which the power reactor(s) on a ship comply with the IAEA Safety Standards

There is no indication at this time if/when this work will be requested and the likely requested deadline for completion

– but the deadline will be within, perhaps early within, the timeframe of the IMO work
Thank you!