



SMR

The information in this document is proprietary and confidential to Rolls-Royce SMR and is available to authorised recipients only – copying and onward distribution is prohibited other than for the purpose for which it was made available.

Facilitating Regulation

Mark Salisbury

Head of Regulatory Affairs

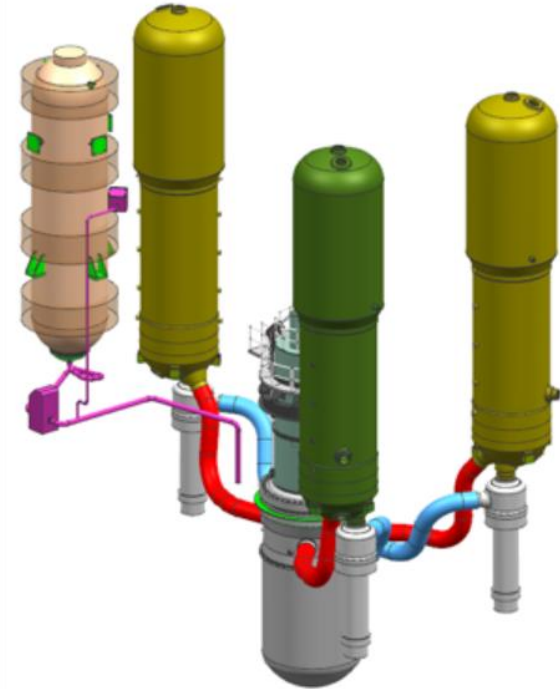
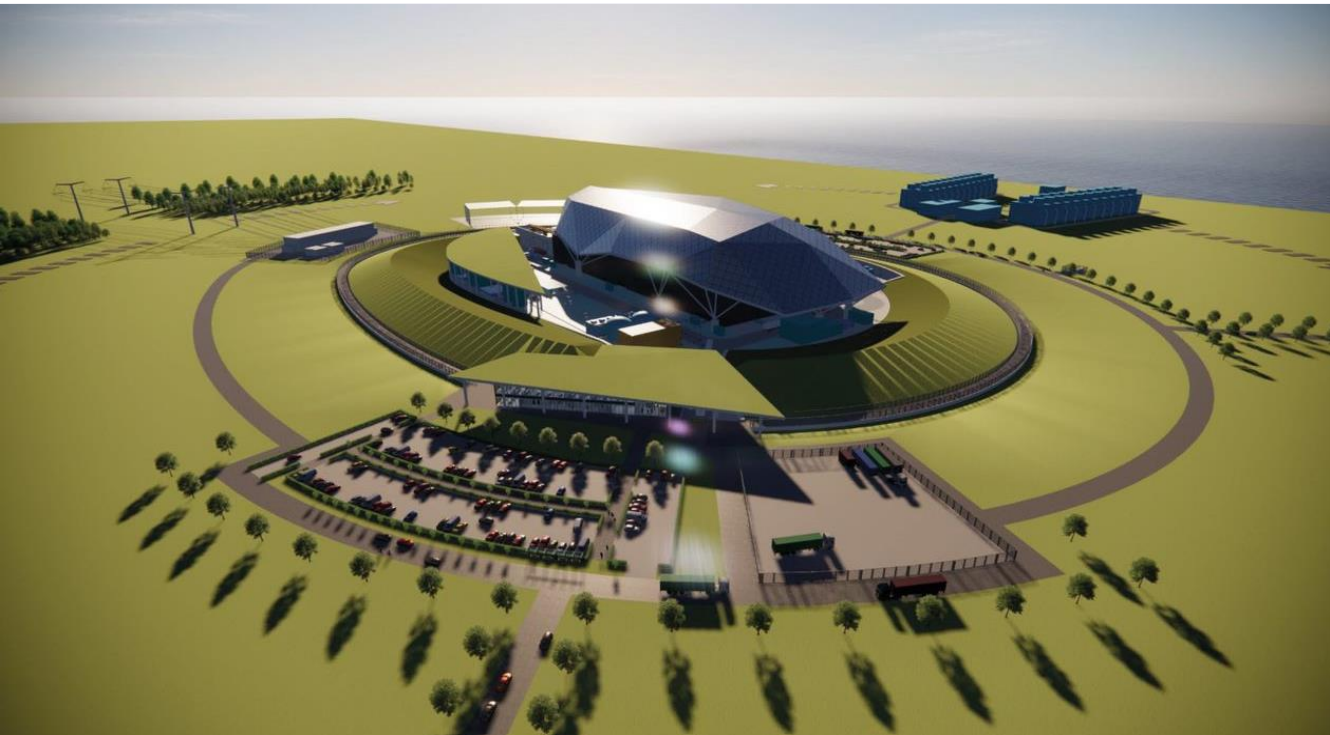
25th April 2023





SMR

An 'innovative-standard' SMR!





SMR

Deploying a factory built product in multiple jurisdictions

Challenges:

- Deploying plants across the world,
- Prescriptive versus non-prescriptive regimes,
- Licensing and consenting for a factory built product as opposed to a stick built power plant.





SMR



Leveraging international efforts

- Mapping Rolls-Royce SMR Design to International Atomic Energy Agency (IAEA) safety standards,
- Actively involved in the Nuclear Harmonisation and Standardisation Initiative (NHSI),
- Involved in WNA CORDEL.





Department for
Energy Security
& Net Zero



The Justification of Practices Involving Ionising Radiation Regulations 2004

The Secretary of State's Decision on Justification Authority under the Regulations, a condition of the Order in Force of the Regulations

The Secretary of State's Decision on Justification Authority under the Regulations, a condition of the Order in Force of the Regulations



The Justification of Practices Involving Ionising Radiation Regulations 2004

The Secretary of State's Decision on Justification Authority under the Regulations, a condition of the Order in Force of the Regulations

The Secretary of State's Decision on Justification Authority under the Regulations, a condition of the Order in Force of the Regulations

JUSTIFICATION APPLICATION



ON A NEW NUCLEAR REACTOR

DECEMBER 2023 (OPEN TO FEBRUARY 2024)

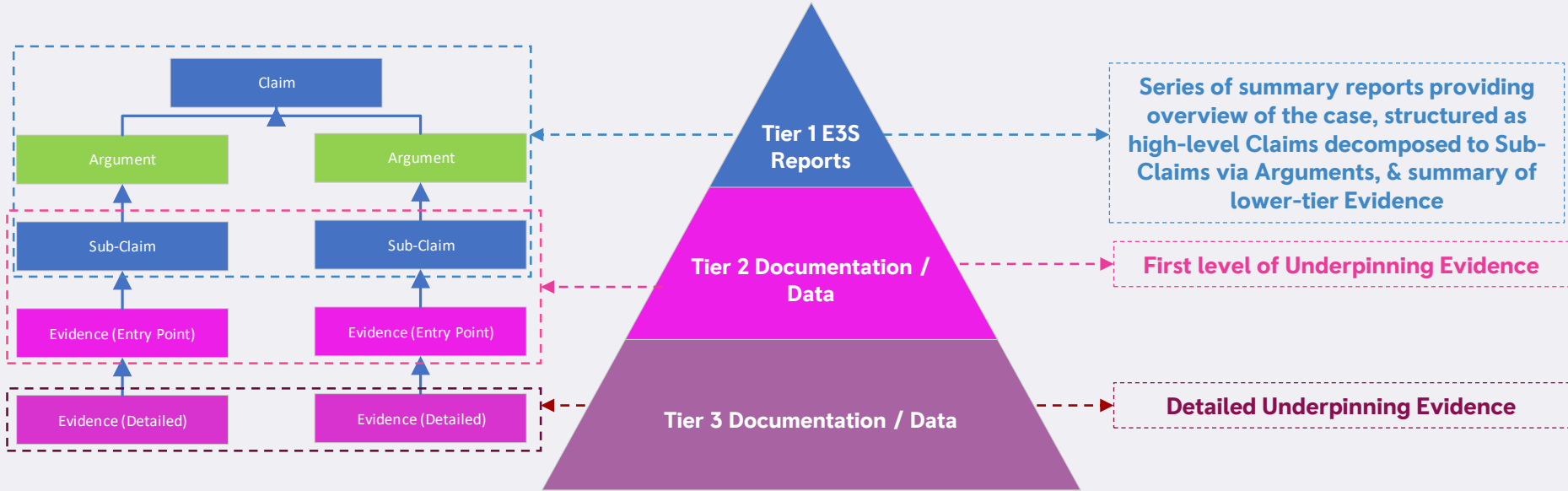


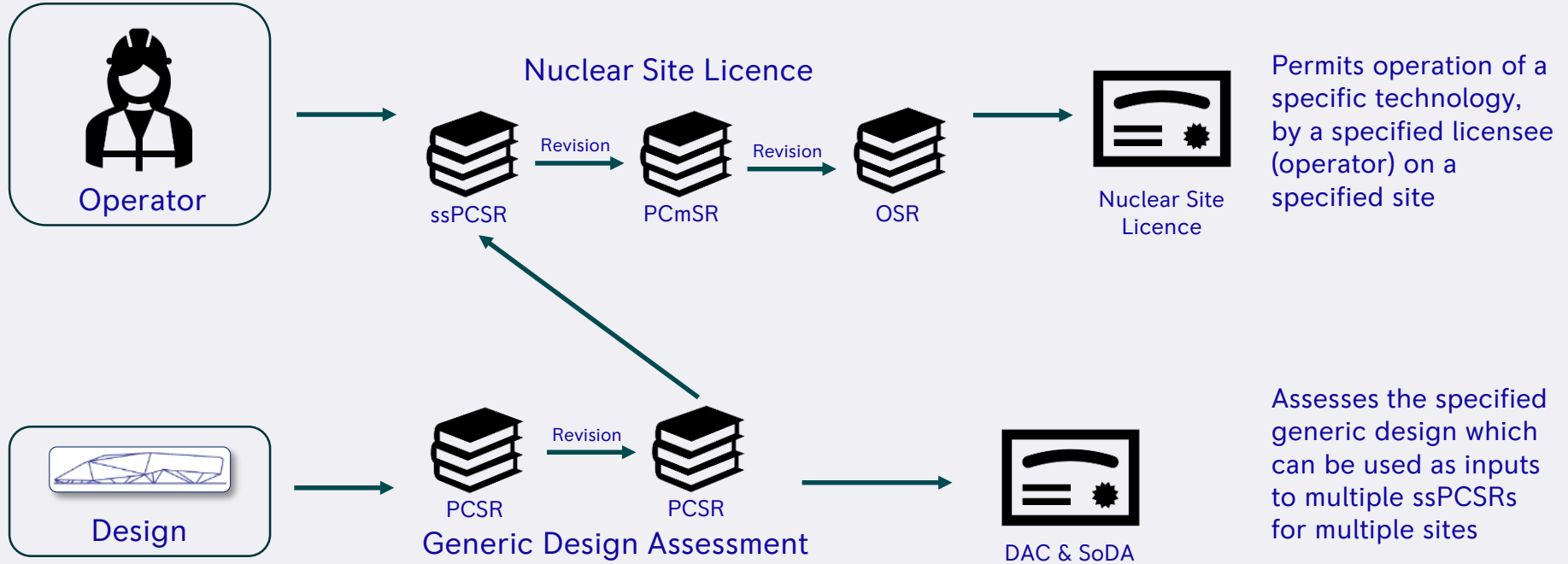
Radiological Justification

- Justification of Practices Involving Ionising Radiation (Amendment) Regulations, 2018,
- Council Directive 2013/59/Euratom (known as the Basic Safety Standards Directive),
- Leveraging experience within the UK and Europe.



E3S Case – Hierarchical Structure





PCSR = Pre-Construction Safety Report, ss = Site Specific, Pm = Pre-Commissioning, OSR = Operational Safety Report, DAC = Design Acceptance Confirmation, SoDA = Statement of Design Acceptability





SMR



Generic Design Assessment (GDA)

- Joint process by Office for Nuclear Regulation (ONR), Environment Agency (EA) and Natural Resources Wales (NRW),
- Open and transparent,
- Goal setting and non-prescriptive,
- 3 step process,
- Now entered Step 2,
- Total length 4.5 – 5 years,
- gda.rolls-royce-smr.com



