Office for Nuclear Regulation

CONTACT RECORD	
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Visit Reference Number *(International visits only)*	N/A
Title / Topic: *(include level 1, 2, 3 or 4 if applicable)*	Stage 2 SMR Mature Technology Industry Engagement – GE-Hitachi
Date of Contact:	27 – 28 November 2018
Date Issued:	5th December 2018
Completed / Compiled By: *(name, programme)*	[redacted], New Reactors
Type of Contact: *(*delete not applicable)*	Industry Engagement Meeting
Contact With: *(names, position, organisation)*	**GE-Hitachi:** [redacted]
ONR Staff: *(names , role, programme)*	**ONR** • [redacted] – External Hazards [redacted] (Day 1 only) • [redacted] – Cyber Security (Day 2 only) • [redacted] – Security (Day 2 only) • [redacted] – Security (Day 2 only) • [redacted] – Security • [redacted] – Cyber Security • [redacted] – Civil Engineering • [redacted] – Electrical Engineering C&I • [redacted] – Structural Integrity • [redacted] – Electrical Engineering C&I • [redacted] – Mechanical Engineering • [redacted] – Mechanical Engineering • [redacted] – Fault Analysis • [redacted] – Human and Organisational Capability • [redacted] – Mechanical Engineering • [redacted] – External Hazards (Day 2 only) • [redacted] – Chemistry (Day 1 only) • [redacted] – Radiological Protection (Day 2 only) • [redacted] – Structural Integrity • [redacted] – ANTs DDS (Day 1 only) • [redacted] – Fuel and Core Analysis • [redacted] – Electrical Engineering C&I • [redacted] – Electrical Engineering C&I

	EA • [redacted] – ANTs [redacted] • [redacted] – ANTs • [redacted] – Policy and Strategy (Day 1 only) • [redacted] – (Day 1 only)

Summary / Key Points:

ONR, EA and GE-Hitachi met at the request of the Department for Business, Energy and Industrial Strategy (BEIS), as defined in the Small Modular Rector (SMR) Mature Technology (MT) Industry Engagement Strategy (TRIM 2017/439332) for Stage 2 Engagement. The meeting follows Stage 1 Engagement (TRIM 2018/169856).

The objectives of the meeting, as defined in the Engagement Strategy, were:

- enable development of a high-level ONR and EA understanding of the MT SMR proposal to the extent necessary to identify potential new challenges that its regulation may pose should it enter into future design assessment;
- enable the development of the vendor's understanding of the UK regulatory regime and expectations.

The agenda for the engagement was distributed in advance (TRIM 2018/186630). A strict time limit of twelve hours was allocated for the Stage 2 meeting.

ONR provided an introductory presentation (TRIM 2018/375604) to introduce the objectives of the meeting, the agenda and the rules for the meeting. ONR/EA also provided presentations (TRIM 2018/375567) on the following topics, over the course of the Stage 2 meeting:

- Generic Design Assessment;
- Permitting and Environment (EA);
- Nuclear Site Licensing and Regulation Under The Licence;
- Safety Analysis; and
- Security.

GE-Hitachi provided presentations to the regulators, with presentation slides provided in advance (TRIM 2018/375616) on the following topics, over the course of the Stage 2 meeting:

- Design Summary;
- Deployment Options and Indicative Schedule;
- Permitting and Environment;
- Design Process and Requirements Management;
- Large Break LOCA;
- Defence in Depth;
- Design Features; and
- Security.

The Stage 2 engagement allowed the following criteria, identified in the Engagement Strategy, to be successfully achieved:

- understanding from each party of the information exchanged, after questions have been asked and answered;
- any necessary regulatory guidance development (e.g. potential amendment of an ONR Technical Assessment Guide (TAG)) can be identified;
- any remaining areas of discussion requiring further consideration are identified to form

part of the agenda for stage 3 to ensure they are closed-out suitably

The topics for discussion in Stage 3 were agreed between regulators and the vendor (TRIM 2018/384132). A formal agenda for Stage 3 will be produced by ONR following the meeting and distributed to the vendor.

The vendor was provided with the opportunity to add topics to the Stage 3 agenda for the regulators to provide information on currently available assessment guidance.

The meeting was constructive, and all parties identified it as a positive second engagement.

Circulation List

Organisation	Name / Responsibility	Date
Office for Nuclear Regulation	[redacted]	

	[redacted]	