

**Hitachi-GE Nuclear Energy, Ltd.**  
**UK ABWR GENERIC DESIGN ASSESSMENT**  
**Resolution Plan for RO-ABWR-0014**  
**UK ABWR Radiological Protection Safety Case: Project Plan**  
**and Delivery**

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| <b>RO TITLE:</b>   | UK ABWR Radiological Protection Safety Case: Project Plan and Delivery |  |
| <b>REVISION :</b>  | 0  |  |
| <b>Overall RO Closure Date (Planned):</b>                        | 30-Oct 2015  |  |
| <b>REFERENCE DOCUMENTATION RELATED TO REGULATORY OBSERVATION</b> |  |  |
| <b>Regulatory Queries</b>  | -  |  |
| <b>Linked ROs</b>  | -  |  |
| <b>Other Documentation</b>                                       | -  |  |

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| <b>Scope of work :</b>   |
| <p><b>Background</b><br/> When comparing the ONR requirements and expectations to the current position of Hitachi-GE, it is necessary for Hitachi-GE to be clear and develop the Radiological Protection safety case for UK ABWR. They can be summarised as:</p> <ul style="list-style-type: none"> <li>- To show the overall objectives, strategy and scope of the Radiological Protection safety case;</li> <li>- To be clear how the integration of the Radiological Protection aspects into the overall UK ABWR safety case will be managed to ensure that a coherent and proportionate safety demonstration will be provided;</li> <li>- To show the hierarchy of submissions that constitutes the Radiological Protection safety case and their structure are fully considered;</li> <li>- To show how the submissions identified so far will develop the overall Radiological Protection related aspects of the safety case; and</li> <li>- To be clear how any Radiological Protection supporting documents produced will ultimately be used to support the PCSR.</li> </ul> <p>This Resolution Plan is prepared to respond this RO-ABWR-0014 on Project Plan and Delivery for Radiological Protection Safety Case.</p> <p><b>Scope of Work</b><br/> This Resolution Plan shows actions and milestones for Project Plan and Delivery of UK ABWR Radiological Protection Safety Case.</p> |

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| <b>Description of work:</b>  |
| <p><b>ACTION 1</b> - <i>Hitachi-GE to provide their strategy for development of the Radiological Protection elements of the UK ABWR Safety Case</i></p> <p>Hitachi-GE will provide the strategy for development of the Radiological Protection elements of the UK ABWR</p> |

Safety Case. This includes the approach that is being taken to manage and produce this. The Radiological Protection safety case strategy may need to be updated throughout GDA as new information becomes available and changes occur. Any significant changes to the strategy will be agreed with ONR prior to implementation and the updated version will be submitted to ONR.

**ACTION 2 - Hitachi-GE to provide a project plan for delivery of the Radiological Protection elements of the UK ABWR safety case**

Hitachi-GE will provide a plan for delivery of the Radiological Protection elements of the UK ABWR safety case to define in detail how the strategy identified in ROA1, will be enacted. This includes the following:

- Definition of the Radiological Protection safety case tasks required to be completed during GDA (including any tasks already completed or ongoing).
- Identification of the various reports which will be produced with clear presentation of their hierarchy and interfaces.
- The timeline for production of the deliverables, including their submission date to ONR.
- Any specific constraints or assumptions which may impact on the plan
- Any interfaces with other technical areas or topics.

This plan will include Step 3 and Step 4. Any significant changes to the radiological protection safety case project plan will be agreed with ONR prior to implementation and submissions to ONR will be made in a logical and timely manner.

**ACTION 3 - Hitachi GE to allocate suitably qualified and experienced resources to develop the UK ABWR Radiological Protection safety case**

Hitachi-GE will provide information on resources allocated to develop the UK ABWR Radiological Protection in terms of manpower and qualifications and experience required to produce the strategy and to complete each of the Radiological protection tasks identified in ROA 1 and ROA 2.

**ACTION 4 - Radiological Protection safety case deliverables**

Radiological Protection safety case deliverables schedule includes ROA 2. Submissions to ONR will be made in a logical and timely manner.

**Summary of impact on GDA submissions:**

This will be assessed as part of the response to ROA 1 and ROA 2.

**Programme Milestones/ Schedule:**

See attached Gantt Chart (Table 1)

**Reference:**

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Table 1 RO-ABWR-0014 Gantt Chart

| UK ABWR Radiological Protection Safety Case: Project Plan and Delivery Resolution Plan for RO-ABWR-0014 |   |           |           | 2014      |         |          |          | 2015    |          |       |       |     |      |      |        |           |         |          |          |
|---|---|-----------|-----------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
|   |   |           |           | September | October | November | December | January | February | March | April | May | June | July | August | September | October | November | December |
| Level   | Action Title  | Start     | Finish    |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 1   | Regulator's issue of RO   | 22-Sep-14 | 28-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 1.1   | ONR Issue RO  | 22-Sep-14 | 22-Sep-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 1.2   | Hitachi-GE acknowledge RO & issue Resolution Plan   | 6-Oct-14  | 31-Oct-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 1.3   | Regulator's confirm credibility of Resolution Plan  | 1-Nov-14  | 14-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 1.4   | Regulator's publish RO and Resolution Plan  | 16-Nov-14 | 28-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2   | Preparation of Submissions and Closure of RO Actions  | 1-Nov-14  | 30-Sep-15 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2.1   | RO Action 1 Hitachi-GE strategy for development of the Radiological Protection elements of the UK ABWR Safety Case                | 1-Nov-14  | 28-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2.2   | RO Action 2 Project plan for delivery of the Radiological Protection elements of the UK ABWR safety case in Step 3 and 4          | 1-Nov-14  | 28-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2.3   | RO Action 3 Allocation of suitably qualified and experienced resources to develop the UK ABWR Radiological Protection safety case | 1-Nov-14  | 28-Nov-14 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2.4   | RO Action 4 Radiological Protection safety case deliverable   | 1-Nov-14  | 30-Sep-15 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2.5   | Regulators Assessment of submission   | 1-Dec-14  | 30-Oct-15 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 3   | Regulator's Anticipated Closure of RO   |           |           |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 3.1   | Anticipated publication of Regulator's RO closure letter  | 15-Oct-15 | 30-Oct-15 |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |