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New Nuclear Build Programme Industry Event

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Aims:

To provide an update on where we are with our GDA assessment and to highlight areas where there are likely to be GDA Issues.

To inform industry of the potential outcomes of the GDA process and how the end of GDA will be managed, through the development and implementation of resolutions plans.

To explain the transition from GDA to site licensing/authorisations.

Management of GDA Outcomes

Potential GDA Issues & Resolution Plans



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Nuclear Directorate

HSE

Management of GDA Outcomes – Key elements

- Meaningful GDA
- HSE DAC & EA SoDA
- GDA Issues
- Other assessment findings
- Links to site specific construction, commissioning etc

Meaningful GDA = the regulators have :

- received sufficient information in all relevant technical topic areas
- completed a sufficiently thorough and detailed assessment of the information
- come to a balanced judgement on the overall acceptability of the safety case for the proposed generic design

Note:

Assessment will vary from topic to topic

GDA is only part of the assessment required for construction and operation

Conclusions on DAC and SoDA

- If regulators **content**:
 - DAC and SoDA will be provided
 - Reference to final consolidated GDA submissions
- If regulators **largely content**:
 - Interim DAC and SoDA will be provided
 - Unresolved GDA Issues identified
 - Final DAC and SoDA provided only when GDA Issues are addressed
- If regulators **not content**:
 - No DAC or SoDA will be provided

If DAC or SoDA are provided

- Regulators are confident that the design is capable of being built and operated in a safe, secure and environmentally acceptable manner
- This would mark the end of GDA
- Validity is for 10 years
- No guarantee that regulators will grant site-specific permissions*

* GDA is only part of the assessment required for construction and operation

If Interim DAC or SoDA are provided

- Unresolved GDA Issues identified
- Confident that no generic design 'show stoppers' present
 - Need certainty that the Issues can be resolved
 - Hence RPs required to submit Resolution Plan before Interim DAC can be issued
- Resolution Plan will identify work and timeframe, and needs regulator's agreement.
- Final DAC and SoDA provided only when GDA Issues are addressed

Note:

- Provision of Interim DAC or SoDA marks end of GDA Assessment
- Further GDA work will only relate to GDA Issues and Resolution Plan
- All GDA Issues need clearing before nuclear island construction
- Provision of Final DAC and SoDA will mark the end of GDA

GDA Issues - Definition

- Unresolved issues considered by regulators to be significant, but resolvable, and which
- Require resolution before nuclear island safety-related construction of such a reactor could be considered.
- Where there are GDA Issues the regulators will expect the RPs to produce a Resolution Plan which identifies how the Issues would be addressed, and Resolution Plans need regulators agreement.

Example: before giving permission to proceed with nuclear safety-related construction, we would need to be satisfied that the safety case for the nuclear safety related buildings demonstrated that the buildings could withstand the impact of external factors, such as high winds and earthquakes.

GDA Issues

- Clear, unambiguous and no surprises
- Metrics
- Potential GDA Issues Log
- Quarterly Report
- Will be listed in Step 4 assessment and summary reports, & EA Decision Document
- Must be cleared before a final HSE DAC or EA SoDA
- May be more than 1 action per GDA issue
- Issues could be grouped under a technical topic heading with supporting GDA issue actions.

Potential GDA Issue Template and Tracking Sheet

- Based on established RO/ROA model
- Unique identifier for each potential GDA issue and action(s)
- Include issue description and reason for issue quote regulator's expectations
- Precision on issue scope - defined in specific potential GDA issue action(s).

GDA Issues - RPs' Resolution Plans

- Plan required for each GDA issue
- The plans to be submitted by 31 March 2011
- Agreed by regulators
- Resolution plans content may vary
- Must be credible
- Will be published
- Will be referenced from Step 4 summary report, & EA Decision Document
- Will not be referenced from an IDAC or ISoDA

Other assessment findings

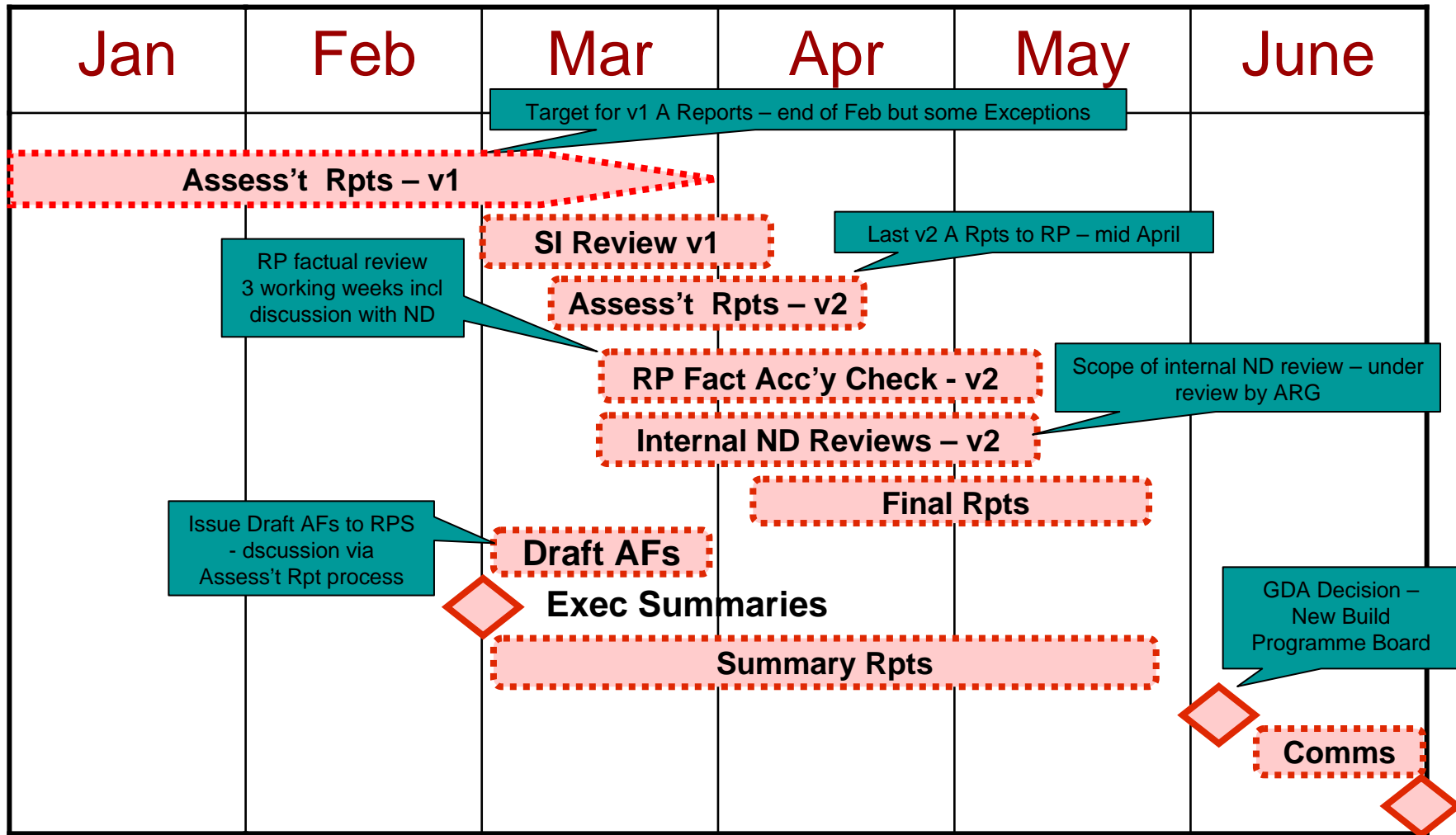
- GDA is not a complete assessment of the final design – but of the generic safety case
- Therefore it is appropriate to address some GDA assessment findings as normal regulatory business through Phase 2 (detail design, procurement, construction, commissioning)
- The assessment findings will be listed in the HSE Step 4 reports and EA Decision Document
- Expectation is that they will be addressed during Phase 2 site specific projects
- These assessment findings do not affect the provision of a Final DAC or SoDA

GDA Assessment Findings - Definition

Issues / findings for important safety items identified during the regulators' GDA assessment, but not considered critical to the decision to start nuclear island safety-related construction of such a reactor.

Example: we may highlight the need for the mechanical test programmes for safety critical equipment to cover the specific test criteria needed to ensure compliance with the safety case.

GDA Milestones – Step 4 Reports



Managing GDA Outcomes

We have identified arrangements for the:

- Step 4 reports & EA Decision Document

- DAC & SoDA (interim or final)

- Identification and resolution of potential GDA Issues

- End of GDA

These will deliver the Generic Design Assessment aims of:

- Recording significant detailed assessment

- Identifying remaining Issues

- Providing clarity and transparency

- Reducing regulatory risk

- And thus improving confidence of public and industry

We are making effective progress and will complete a meaningful assessment

It's doing what it said on the Tin!



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Questions?