

**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RI 10806 progress statement  
**Date:** 01 February 2024 10:13:22

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Hi [REDACTED],

With regards the progress statement on RI 10806, here is an update:

1. NNB GenCo should use the best available relevant data source(s) for defining the Extreme Still Water Level hazard. As part of this, NNB GenCo should resolve the Extreme Still Water Level Technical Queries (TQ 1, 2 & 3, see ONR-NR-AR-22-005) and, if relevant, update its Extreme Still Water Level 10-4/yr annual frequency of exceedance event - 29/02/2024

**RESPONSE: Formal letter has been provided to ONR with response to each of the technical queries. The explanatory note for the use of the credible maximum value quoted in SDSR rev 5 is being prepared.**

2. Taking into account any update to the Extreme Still Water hazard value, NNB GenCo should:

- Use the best available relevant data source(s) for defining the offshore wave hazard.
- Review and update the joint probability analysis of extreme still water level and significant wave heights, using a different method if appropriate, to ensure that it is aligned with relevant good practice.
- Update its nearshore wave analysis, ensuring it aligns with relevant good practice and, where relevant, taking into account updates to the offshore wave hazard and the sea defence design.
- Ensure that potential future changes to the geomorphology and bathymetry are considered in the updated wave analyses - 29/02/2024

**RESPONSE: Updated wave analysis is just completing review by the flooding Design Authority (in my Branch), and will be issued to ONR once that review is finalised. Results will be key inputs to the sea defence designs (temporary and permanent), and will be incorporated into SDSR revision 6 (expected to be issued to ONR in Q2/3 2024).**

3. Taking into account any update to the Extreme Still Water hazard value, NNB GenCo should update its tsunami hazard and review its approach to using the Mean High Water Spring (seawater level) in combination with tsunami hazard, to ensure that it aligns with relevant good practice, or provide the rationale for its selected approach - 29/02/2024

**RESPONSE: The Tsunami report is being updated by Atkins (authors of original report) to respond to this query, and then will be accepted into the SZC project. The plan is to have this report ready for review internally by 1<sup>st</sup> Feb, with issue to ONR expected within Q1 2024.**

4. NNB GenCo should adequately address all of the ONR Platform Height Observations, raised as part of ONR assessment ONR-NR-AR-18-034 and provide responses to ONR. Action close out anticipated to be aligned to the First Safety Related Structure report.

**RESPONSE:** All of the platform height observations will be finally closed within the FSRS report. Good progress is being made on all topics, for example, the aforementioned updated wave analysis will provide closure of some of the observations, alongside other issued work on flooding pathways via the pumping station and outfall buildings, which close out other observations. The ongoing design work for the surface water management systems and the sea defences will provide final substantiation for the remaining observations.

**General comment:**

In terms of the design of the various flooding protection measures, this work demonstrates that the input data from the external hazards topic is now in place for the commencement of the detailed design activities, or will be available for the correct time during that design process. Furthermore, the detailed design process will provide the substantiation that the flooding levels that could challenge nuclear safety on site are all manageable. Obviously there could be challenges to nuclear safety identified during that detailed design process (although at this stage, based on initial design studies, we do not see any challenges), and these will be addressed accordingly to ensure that risks are reduced ALARP, with no options being fore-closed.

I hope that this provides a sufficient update, please do let me know if further information would be useful?

Thanks

[Redacted]

[Redacted]

[Redacted]



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