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Response to flow model comments made by Snowdonia Canoe Club in EIC012 SCC-CW Rep 30 Nov 2020

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**Response to flow model comments made by Snowdonia Canoe Club in EIC012 SCC-CW Representation
30 Nov 2020 with respect to model validation and errors**

The below responses to SCC's text (in italics) have been provided by HR Wallingford.

1. *"SCC/CW have previously expressed concerns over the lack of validation, accuracy and appropriateness of the HR Wallingford model¹. The details are not repeated here, but it is relevant that the model cannot be regarded as definitive, and a substantial margin should be applied to any calculations based on modelled stream velocity or direction."*

HR Wallingford response: As demonstrated in previous HR Wallingford reports and as prescribed in the IEC TS 62600-201 guidelines, the model has been well validated in terms of tidal currents and sea levels against available local data from ADCP deployments and tide gauges.

2. *"There are apparent anomalies in some of the hourly plots. This is most obvious in Figure 3.26 (extract reproduced below) which contains regularly spaced straight line transitions between different flow speeds (indicated by red arrows). These cannot represent physical effects and appear to be a modelling artefact. They may or may not be significant, but from experience of computer modelling, they could indicate a deeper problem."*

HR Wallingford response: Apologies, although the modelling was correct and well validated as described above, and the figures generated were clear in the MS Word version of this report, there was an issue with the rendering of some colours when the MS Word was converted to the PDF document. This has been fixed and a new PDF is attached (MMC 574 DER6261-RT002-R05-01.pdf) with this issue fixed.