

Phil Jones

From: Hopkinson, Lisa [Lisa.Hopkinson@cyfoethnaturiolcymru.gov.uk]
Sent: 01 June 2015 15:54
To: pmj@abertawe.co.uk
Subject: ORDMI145 Tidal Lagoon Swansea Bay Marine Licence Additional

Hi Phil,

TLSB have now submitted the attached:

1. THA Technical note - Fish Draw Zone
2. Technical Note Turbine selection-minimising impacts on fish - this has an explanation of the improvements made to the turbine and the **revised Striker and IBM results**.
3. Technical Note herring remodel background - this is information on the revised herring IBM model, which is based on more recent herring population information.
4. Revised Summary impacts on VERs_V2 without AFD mitigation - this is a revised VER note - without AFD mitigation lagoon
5. Fish Deterrent Options Technical note - review of behaviour guidance options for the Lagoon. Within this document there is the framework for installation of AFD (previously provided in the ' TLSB AEMP Turbine mortality trigger levels framework' and we have provided a similar flow diagram for implementation of herring mitigation. In terms of the latter, although it is hopefully self- explanatory, we are preparing further clarification as to the rationale behind this herring mitigation and this should be ready early next week. (Lily: I'll forward this on once received.
6. Extension to Appendix 9-3 - this is further explanation of the information used in the IBM model.

I would appreciate any comments you may wish to submit with regards to the attached by **26th June 2015**.

Please give me a call if you have any queries or need any more information.

Kind regards,

Lisa

Lisa Hopkinson

[Trwyddedu Morol/](#) Marine Licensing

[Gwasaneath Trwyddedu](#) / Permitting Service

[Cyfoeth Naturiol Cymru](#) / Natural Resources Wales

Ffôn / Phone : 03000 654315

E-bost/E-mail: lisa.hopkinson@cyfoethnaturiolcymru.gov.uk / lisa.hopkinson@naturalresourceswales.gov.uk

Ein diben yw sicrhau bod adnoddau naturiol Cymru yn cael eu cynnal, eu gwella a'u defnyddio yn gynaliadwy, yn awr ac yn y dyfodol.

Our purpose is to ensure that the natural resources of Wales are sustainably maintained, enhanced and used, now and in the future.