

From: McCracken, Ian [Dartmouth] [Ian.McCracken@EC.GC.CA]
Sent: Friday, August 12, 2011 2:05 PM
To: Young, Elizabeth
Cc: Corkum, Jeffrey [Dartmouth]; Troke, Glenn [St. John's];
Mailhiot, Joshua [St.
John's]; Thomas, Bridget [Dartmouth]
Subject: Hebron Offshore Oil Development Project (2009-056)

Elizabeth,

With regard to your e-mail of August 5, 2011 concerning the proponent's responses in Part A of the Information Response, EC offers the following comments:

EMCP Comment 28: EC 14 Regarding Offshore Wind Climate and Offshore Extremal Wave Analysis

Please note that the comments referenced as EC 14 concerned the Offshore Wind Climate and the Offshore Extremal Wave Analysis, not just the Offshore Wind Climate, as the heading for the response would suggest.

On rereading part c of ECMP 28: EC 14 from Nov 2010, it is not clear if the additional information provided, about the adjustment of the MSC50 data used to develop the 100 year wave, was actually going to be included in the CSR. This information included the formula, the data source, and a reference for this method. This is an important modification and the additional information should be added to the CSR.

The attempt at clarification about the release of wave radar data to CNLOPB and Fisheries and Oceans is appreciated. The situation is still not clear but may resolve in time.

The response concerning the applicability to different platform types, of different methods used in the various extremal wave analyses, is appreciated. It would still be advisable to include in the CSR the uncertainty range for the 100 year wave value from the chosen method. However it is presumably included in the original report and available for use.

For any further analysis that may be conducted, the proponent is advised to consider further examination of available wave data (from both radar and wave

buoys) as it applies to adjusting the MSC50 wave heights prior to the extremal analysis. The equation used to adjust the MSC50 wave heights was based on wave radar data for which validation information is not widely available. It did not seem to make use of years of data from wave buoys considered the standard reference for other sources of wave information.

EMCP Comment 129 - EC 46 Regarding Attraction of Seabirds to Platforms
This response is considered adequate, provided the following comments are addressed:

A portion of EMCP's response should be reworded as follows (changes in bold):

"The program design would be developed in consultation with Environment Canada's Canadian Wildlife Service, and would be completed prior to platform start-up in 2017. It is anticipated that field testing would begin upon completion of platform start-up and commissioning activities offshore."

If you have any questions, please contact me at your convenience.

Regards,

Ian

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