From:	Murphy, Brian J.
To:	Kearney, Darren; Miles Schumacher (mschumacher@lynnjackson.com)
Cc:	Edwards, Kristen; Thurber, Jon; Reiss, Amanda; Paulson, Eric
Subject:	RE: [EXT] Docket EL19-003: Follow Up Questions on the Crowned Ridge Wind Mitigation Plan
Date:	Thursday, March 25, 2021 7:44:18 AM
Attachments:	Letter from GE WIOM.pdf

Darren,

Below and attached are our responses to questions 2-4.

2. Please explain why Winter Ice Operation Mode (WIOM) was not turned on until February 2021.

   Response:

   In late 2020, General Electric (GE) approached NextEra Energy Resources, LLC ("NEER") regarding the enabling of the WIOM software. WIOM was a relatively new performance feature for NEER and Crowned Ridge Wind, LLC, and, therefore, NEER required that the WIOM software be reviewed under NEER's software acceptance process to ensure that WIOM would not adversely affect the reliability or performance of the wind turbines when operating under normal conditions. The software acceptance process was completed in late October 2020, and implementation started on the NEER fleet beginning in December 2020, with Crowned Ridge receiving the WIOM software in February 2021

3. Please explain how WIOM helps reduce wind turbine noise in the event there is frost accumulation on the blade. Specifically, how does changing the blade pitch or keeping a turbine from stalling reduce noise. Please provide studies or documentation that supports this would lead to a multiple dBA sound level reduction.

   Response:

   See the attached letter from GE. Given that GE, as explained in the attached letter, does not have field data, at this time, showing the amount of sound dampening associated with WIOM, Crowned Ridge has commitment to conduct a sound study in the Fall of 2021 to confirm compliance with the Commission's sound thresholds with the use of WIOM.

4. Did the blade angle changes, possibly due to frost, only occur at certain turbines near receptors 1-3 or was the blade angle change observed at all wind turbines? Please explain.

   Response:

   The blade angle changes that occurred at certain wind turbines near receptors 1-3 also generally occurred throughout the wind project.

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