

From: [Perez, Chris](#)
To: [Bilodeau, Stephanie A](#)
Subject: Re: Launch sound levels
Date: Monday, April 24, 2023 12:18:49 PM

OK, thanks!

From: Bilodeau, Stephanie A <stephanie_bilodeau@fws.gov>
Sent: Monday, April 24, 2023 12:16 PM
To: Perez, Chris <chris_perez@fws.gov>
Subject: Launch sound levels

Hey Chris,

Attached is the data from our sound meter, which was placed at 25.986023, -97.18476242; approximately 2 miles away from the orbital launch mount. The max reading was 114.9 dBA and the sound level was over 90 dBA for 1 minute and 18 seconds. Sound levels appear to take approximately 8 minutes and 20 seconds from beginning of the launch to get back to “normal” levels. I inserted a graph to visualize the data over a 20 minute period. The maximum of 114.9 dBA matches the sound levels expected from a Starship orbital launch in figures 3 and 4 of Appendix B of the PEA. The location of the device was between the rings of 100 and 110 dBA shown in figures 3 and 4.

Keep in mind there is a caveat with this data, as there’s always a chance something went wrong with the calibration of the device or there was unexpected interference of some kind on the microphone, and we are not sound engineers.

Thank you,

Stephanie Bilodeau

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