

Sound meter readings from 31 engine static fire

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Wed 2/15/2023 10:35 AM

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 2 attachments (5 MB)

Copy of Boca Chica Static Fire SPL 20230209.xlsx; IMG_0064.JPG;

Good morning,

Attached are the results from UTRGV's sound meter during the 31 engine static fire. The coordinates of the device are listed on the spreadsheet, but for reference it was almost exactly 3 miles away from the launch mount. From what little I've gathered about sound interpretation, the "Lz" values are Z-weighted values, which essentially means no weighting at all, while "La" values are A-weighted values, which applies different weightings to different frequencies based on human hearing and is what is frequently referenced in noise impact studies. So perhaps the best value from these results to compare to expected values would be the "Lapeakmax" value of 110.8 decibels. I'm not sure what the exact expected value would be in the location we placed the sound meter, but based off the "booster static fire" figure on page 38 of Appendix B of the PEA, it appears the device was somewhere between the 90 and 100 decibel contours. But I'm not sure how many engines that diagram is based on. So let me know if you all come up with a better way to interpret this data, or if you have any questions that I might be able to answer or can relay to Dr. Berg at UTRGV.

Thanks,

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