

From: Randy Umfleet

To: Behnam Ghaffari

Date: October 01, 2021

Subject: FCC File No. 0825-EX-CN-2021

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Message:

We submitted two link budget worksheets with our application. The "ERP Power Spreadsheet Closest Wall" shows the dBm calculation at 8 ft. from the repeater (which is the closest wall). We also submitted "ERP Power Spreadsheet 100 ft. Standard" to show the mathematical relationship of free space loss when the signal is 100 ft. from the repeater. Please refer to the "Range in Feet" cell and the "Repeated Signal Power @ Range in dBm" cells on each exhibit to see this relationship.

The insertion loss cells are both customized for our particular system: 50 ft. of LMR-240 has approximately 6 dB of signal loss and we accounted for approximately 1 dB of loss for antenna insertion. Thus, the "Ant Cable Insertion Loss" is -7 dB as shown on both link budgets submitted.

Please let us know if you require any additional information. Thanks!