

From: Michael Luddy

To: Behnam Ghaffari

Date: September 25, 2017

Subject: 0715-EX-CN-2017

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Message:

In response to OET correspondence on September 20, we offer the following explanation for the power use:

We are using this frequency to verify S-band performance for U.S. Navy (troposcatter) communications at sea. Note that the link will be established with a point-to-point link, elevated 2 to 6 degrees above the horizon, transmitting from Moorestown, New Jersey towards the Lockheed Martin facility at Middle River. Naval communications requiring troposcatter communications do require much higher power, and we were seeking to test and demonstrate within a set of parameters that would permit us to confirm fidelity of the link. However this ERP was selected to allow us to perform channel sounding over a 92NM link, and we can reduce the power in this band if required.