

From: Mark Besch

To: Behnam Ghaffari

Date: September 22, 2021

Subject: FCC File No. 1481-EX-ST-2021

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Message:

Mr. Ghaffari,

Here is a better explanation which I hope will address the issues you have.

This request supports an experiment which uses a Bi-static, Over-The-Horizon-Radar (OTHR) system. The system consists of the bi-static OTHR system located in White Sands Missile Range (WSMR) and 24 transponders and beacons located across the Southeast part of the United States. These transponders are at known locations and allow us to instrument the illuminated area with transponders at known locations. The transponders respond to signals from the OTHR site at WSMR with signals which are up to though usually less than 1W. These known elements greatly assist us with our analysis of the ionospheric phenomenology we are investigating.

Please let me know if you have further questions or concerns regarding this application.

Mark Besch