



**DEPARTMENT OF DEFENSE  
MISSILE DEFENSE AGENCY  
5700 18<sup>TH</sup> STREET  
FORT BELVOIR, VIRGINIA 22060-5573**

TO: Mr. Gerald.A.Esquivel, NASA/ ON

SUBJECT: MDA Justification for NASA Request to FCC for Relief of STA Special Conditions

REF: FCC Experimental STA, File Number: 1274-EX-ST-2019

The Missile Defense Agency requests the FCC under the supervision of NASA Spectrum management provide periodic relief of STA special conditions as follow:

- STA Special Conditions #3: Operations employing 2287.5 MHz to communicate from the Cygnus spacecraft directly to supporting ground stations are expressly prohibited
- STA special conditions #4: Operations employing 2287.5 MHz shall only be used to communicate from the Cygnus spacecraft to the NASA Tracking and Data Relay Satellite (TDRS), using an emission designator of 6M16G1D, and an ERP of 6.05 watts

MDA data collection operations using the NG-11 vehicle utilize data from ground station operations to facilitate payload/experiment operations. Providing relief on special conditions #3 and #4 will help to provide for continued success in our operations. Relief is defined as a minimum of several passes per week to ground stations or the removal of restrictions on the use of ground stations. The period would be from the start of the STA to NG-11 End of Mission (October 10 to December 11<sup>th</sup> 2019).

I appreciate your attention in the matter. Please direct questions/comments to Mr. Robert Garay, 571-231-8676.

10/2/2019

**X** Douglas B. Clover

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Douglas Clover  
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