U.S. DEPARTMENT OF COMMERCE Classification Control Number FORM NTIA-44 NATIONAL TELECOMMUNICATIONS Doc. 43772/1 (3/91)AND INFORMATION ADMINISTRATION UNCLASSIFIED SPS-23290/1 **CERTIFICATION OF SPECTRUM SUPPORT** Recipient Agency System Stage of Review **NASA** 2 - Experimental **Technical Education Satellite 8 (TechEdSat-8) Mission** Section 1: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED

Frequency (MHz)	Emission	Mean Power (W)	Station Class (Stage 2)	Transmit Locations	Receive Locations
401.9928	300HG1D	10	XT	Space (TechEdSat-8)	Space (GOES-R East) (GOES-R West)
1616.25	2M50G1D	0.1			Space (Globalstar)
1618.725- 1626.5	41K7Q7W	1			Space (Iridium)
2280	5M00G1D	3			Wallops Island, VA
		Section 2: SC	DURCE DOCUMENTS		
Docket Number	Description of Document				Dated
SPS-23230/1	NASA Request for Stage 2 System Review				July 23, 2018

## Section 3: SPECTRUM PLANNING SUBCOMMITTEE (SPS) RECOMMENDATIONS

July 26, 2018

The SPS reviewed this system under the provisions of Chapter 10 of the NTIA Manual, noting that this system will not advance to Stage 4, and recommends that:

**NTIA Preliminary Assessment** 

- 1. NTIA certify Stage 2 spectrum support for the Technical Education Satellite 8 (TechEdSat-8) Mission as specified in Section 1.
- 2. NASA be aware that:

SPS-23266/1

- a. operations of this system are limited for a duration of 3-6 months from the date of frequency assignment;
- b. operations of this system using the frequencies 401.9928 MHz and 1616.25 MHz, and frequency range 1618.725-1626.5 MHz in the space research service are to be conducted on an unprotected, noninterference basis in accordance with Section 8.2.40 of the NTIA Manual;
- c. coordination with Globalstar and Iridium is required for use of the frequency 1616.25 MHz and frequency range 1618.725-1626.5 MHz, respectively, and that operation of this system is contingent upon Globalstar and Iridium and successfully obtaining authorization from the FCC; and
- d. NASA must coordinate the TechEdSat-8's space-to-space operations at the frequency 1616.25 MHz and in the frequency range 1618.725-1626.5 MHz with authorized users of these frequencies to preclude interference to duly authorized federal and non-federal users of the band 1613.8-1626.5 MHz.
- 3. NASA ensure that this system is equipped with the ability to turn on or to provide immediate cessation of emission by telecommand in accordance with Section 8.2.32 of the NTIA Manual.

Downgrading Instructions	Classification	Page Number	$\neg$
	UNCLASSIFIED	1 of 2	

FORM NTIA-44	Classification	System				
CONTINUATION PAGE	UNCLASSIFIED	Technical Education Satellite 8 (TechEdSat-8) Mission				
	hat NTIA waive the ITU international reaccordance with Section 3.3.1.2 of the N	gistration requirement to the Space Systems				
5. NASA protect personnel	nel from radiation levels that exceed generally accepted exposure criteria.					
lame/Title of Recommending Official	Signature	Date				
Stephen J. Butcher SPS Chairperson	Stephen J. B	utehen AUG 1 7 2018				
	Section 4: NTIA CERTIFICAT	TION				
The Office of Spectrum Managem This office certifies Stage 2 spect	nent concurs with the SPS recommenda	ations in Section 3.				
Name/Title of Certifying Official  Peter A. Tenhula  Deputy Associate Administrator	Signature	AUG 1 7 2018				
Distribution	Classification	Page Number				

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2 of 2

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