

FORM NTIA-44 (3/91)		U.S. DEPARTMENT OF COMMERCE NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION		Classification UNCLASSIFIED		Control Number Doc. 43772/1 SPS-23290/1	
CERTIFICATION OF SPECTRUM SUPPORT							
Recipient Agency NASA		System Technical Education Satellite 8 (TechEdSat-8) Mission				Stage of Review 2 – Experimental	
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: SOURCE DOCUMENTS							
Docket Number	Description of Document				Dated		
SPS-23230/1 SPS-23266/1	NASA Request for Stage 2 System Review NTIA Preliminary Assessment				July 23, 2018 July 26, 2018		
Section 3: SPECTRUM PLANNING SUBCOMMITTEE (SPS) RECOMMENDATIONS							
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: 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: 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	
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4. NASA submit a request that NTIA waive the ITU international registration requirement to the Space Systems Subcommittee (SSS) in accordance with Section 3.3.1.2 of the NTIA Manual.
5. NASA protect personnel from radiation levels that exceed generally accepted exposure criteria.

Name/Title of Recommending Official Stephen J. Butcher SPS Chairperson	Signature 	Date AUG 17 2018
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Section 4: NTIA CERTIFICATION

The Office of Spectrum Management concurs with the SPS recommendations in Section 3.
This office certifies Stage 2 spectrum support for this system.

Name/Title of Certifying Official Peter A. Tenhula Deputy Associate Administrator	Signature 	Date AUG 17 2018
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