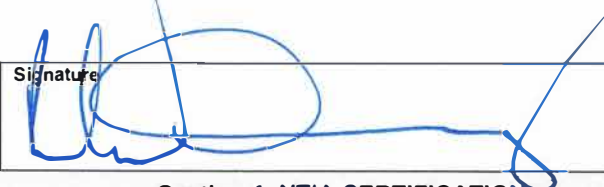
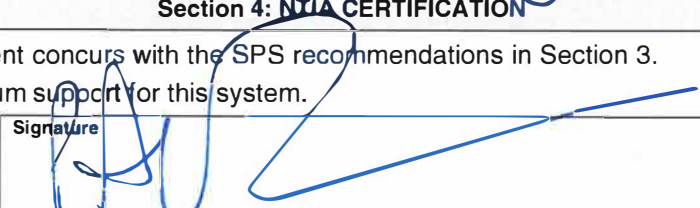


FORM NTIA-44 (3/91)		U.S. DEPARTMENT OF COMMERCE NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION			Classification UNCLASSIFIED		Control Number Doc. 44427/1 SPS-24340/1		
CERTIFICATION OF SPECTRUM SUPPORT									
Recipient Agency NASA		System Passive Thermal Coating Observatory Operating in Low-Earth Orbit (PATCOOL) CubeSat					Stage of Review 2 – Experimental		
Section 1: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED									
Frequency (MHz) 1618.725 - 1626.5		Emission 41K7Q7W		Mean Power (W) 1	Station Class (Stage 2) XT	Transmit Locations Space		Receive Locations Space	
Section 2: SOURCE DOCUMENTS									
Docket Number SPS-24275/1		Description of Document NASA Request for Stage 2 System Review					Dated April 17, 2020		
Section 3: SPECTRUM PLANNING SUBCOMMITTEE (SPS) RECOMMENDATIONS									
<p>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 the RF characteristics are identical to TechEdSat-7 (SPS-22153/1), and recommends that:</p> <ol style="list-style-type: none"> 1. NTIA certify Stage 2 spectrum support for the Passive Thermal Coating Observatory Operating in Low-Earth Orbit (PATCOOL) CubeSat as specified in Section 1. 2. NASA be aware that operations of this system are limited to a duration of 3-6 months from the date of frequency assignment. 3. NASA be aware that operations of this system using the frequency band 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. 4. 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. 5. NASA be aware that coordination with Iridium is required for use of the frequency band 1618.725 - 1626.500 MHz, and that operation of this system is contingent upon Iridium successfully obtaining authorization from the FCC. 6. 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. 7. NASA protect personnel from non-ionizing radiation levels that exceed generally accepted exposure criteria. 									
Name/Title of Recommending Official Robert W. Denny SPS Chairperson		Signature 					Date JUN - 2 2020		
Section 4: NTIA CERTIFICATION									
<p>The Office of Spectrum Management concurs with the SPS recommendations in Section 3. This office certifies Stage 2 spectrum support for this system.</p>									
Name/Title of Certifying Official Peter A. Tenhula Deputy Associate Administrator		Signature 					Date JUN - 2 2020		
Downgrading Instructions		Classification UNCLASSIFIED					Distribution IRAC, SPS, FAS		