

FORM NTIA-44 (3/91)		U.S. DEPARTMENT OF COMMERCE NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION		Classification UNCLASSIFIED		Control Number DOC:45806/1 SPS-26600/1	
CERTIFICATION OF SPECTRUM SUPPORT							
Recipient Agency NASA		System Polylingual Experimental Terminal (PEXT)				Stage of Review 2 – Experimental	
Section 1: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED							
Frequency (GHz)		Emission		Mean Power (W)		Station Class	
27.1 27.45 (transmit)		2M00G1D 10M0G1D 20M0G1D		2.8		XT	
23.15 (receive)		600KG1D 2M00G1D 4M00G1D		N/A		N/A	
Section 2: SOURCE DOCUMENTS							
Docket Number SPS-26496/1 SPS-26537/1		Description of Document NASA Request for Stage 2 System Review NTIA Preliminary Assessment				Dated December 20, 2023 January 31, 2024	
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 NASA requested use of the station class symbol of ES; the operations of the PEXT will be for less than 12 months; the system will not advance beyond Stage 2; the PEXT spacecraft is supported by the TDRSS previously certified under SPS-12395/8; and NDD pre-coordination for PEXT (Action Item 2023OCT/06) was completed without any constraints, and recommends that:</p> <ol style="list-style-type: none"> 1. NTIA certify Stage 2 spectrum support for the Polylingual Experimental Terminal (PEXT) as specified in Section 1. 2. NASA be aware that use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research or earth-exploration applications, and also transmissions of data originating from industrial and medical activities in space in accordance with Footnote 5.536 to the National Table of Frequency Allocations. 3. NASA direct the PEXT antenna boresight at least 5 degrees away from the surface of the Earth. 4. 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 <i>Robert W. Denny</i>				Date FEB 23 2024	
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 Steven A. Molina Deputy Associate Administrator		Signature <i>Steve Molina</i>				Date FEB 23 2024	
Special Handling		Classification UNCLASSIFIED				Distribution IRAC, SPS, FAS	