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TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. AN/PPS-5D Transmitter		2. MANUFACTURER'S NAME Syracuse Research Corporation	
3. TRANSMITTER INSTALLATION (U) Transportable		4. TRANSMITTER TYPE (U) Pulse Doppler	
5. TUNNING RANGE 16.21 GHz - 16.50 GHz		6. METHOD OF TUNING (U) Synthesizer	
7. RF CHANNELING CAPABILITY 16.21 GHz; 10 MHz increments		8. EMISSION DESIGNATOR(S) (U) 2M35Q3N LFM (U) 5K78Q0N Simple Pulse (U) 1K46Q3N LFM	
9. FREQUENCY TOLERANCE (U) 35 ppm			
10. FILTER EMPLOYED (X one) ☒ a. YES ☐ b. NO			
11. SPREAD SPECTRUM (X one) ☒ a. YES ☐ b. NO		12. EMISSION BANDWIDTH (X and complete as applicable) ☒ a. CALCULATED ☐ b. MEASURED	
13. MAXIMUM BIT RATE (U) N/A		a. -3dB (U) 608 KHz (U) 82 kHz (U) 649.4 KHz	
14. MODULATION TECHNIQUES AND CODING (U) Linear FM: (see remarks) and simple pulse		b. -20 dB (U) 2.35 MHz (U) 578 KHz (U) 1.46 MHz	
		c. -40 dB (U) 23.47 MHz (U) 1.061 MHz (U) 2.44 MHz	
		d. -60 dB (U) 122.2 MHz (U) 1.57 MHz (U) 3.49 MHz	
		e. OC-BW (U) 2.35 MHz (U) 578 KHz (U) 1.46 MHz	
		15. MAXIMUM MODULATION FREQUENCY (U) N/A	
16. PRE-EMPHASIS (X-one) ☐ a. YES ☒ b. NO		17. DEVIATION RATIO (U) N/A	
19. POWER		18. PULSE CHARACTERISTICS N/A	
a. MEAN (U) N/A		a. RATE (U) 7102 pps (U) 14205 (U) 4523	
b. PEP (U) 2 Watts		b. WIDTH (U) 5.5 usec (U) 11 usec (U) 15.4 usec	
20. OUTPUT DEVICE (U) Transistor		c. RISE TIME (U) 10 ns (U) 10 ns (U) 10 ns	
22. SPURIOUS LEVEL (U) -50 dB		d. FALL TIME (U) 10 ns (U) 10 ns (U) 10 ns	
		e. COMP RATIO (U) 4.125 (U) N/A (U) 11.55	
		21. HARMONIC LEVEL	
23. FCC TYPE ACCEPTANCE NO. N/A		a. 2ND (U) -40 dB	
24. REMARKS (U) Item 7: The transmitter (and receiver) has a vendor provided certified software frequency control that ensure operations in the 16.210 GHz to 16.50 GHz band. Item 10: Cavity Filter, 15.60 - 16.90 GHz. Item 14: The frequency deviation for the chirp waveform is 750 kHz. The radar may use a Frequency Hop mode where the radar will change center frequency every scan of the radar. Item 18: Pulse Characteristics are for LFM, Simple Pulse, and LFM respectively		b. 3ND (U) -40 dB	
		c. OTHER (U) -40 dB	
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