Cross Reference Matrix

Solicitation: UHF SATCOM Antennas

Contractor:

SPEC PARAGRAPH #	DESCRIPTION	REFERENCE FOR TECH INFORMATION	MEETS SPEC	DOES NOT MEET SPECS	COMMENTS
2.1	**The (1) UHF SATCOM Antenna Support shall include the following minimum characteristics**				
2.1.1	The availability of on-call technical support is required for working with the supplier to answer any questions the vendor may encounter.				
3.1	**The (2) UHF SATCOM Antennas shall include the following minimum characteristics**				
3.1.1	Cross-yagi configuration				
3.1.2	Mountable on an included folding tripod				
3.1.3	Antenna/tripod combination should be able to be deployed in approximately three (3) minutes by one person				
3.1.4	Shall be able to withstand up to 160 MPH winds				
3.1.5	Shall meet MIL-STD-810 environmental standards.				
3.1.6	Antenna drive unit/element section shall not exceed 36 inches in length				
3.1.7	Entire weight shall be no more than 30 lbs				
3.1.8	Shall operate in the UHF SATCOM band (240-320 MHz).				
3.1.9	Transmit voltage standing wave ratio (VSWR) shall not exceed 1.5:1				
3.1.10	Shall implement Right-Hand Circular polarization, with an antenna gain a minimum of +11 dBic, and an axial ratio of 3Db				
3.1.11	Shall have a power handling of at least 200 Watts (Average)				
3.1.12	RF interface connector mounted on the antennas shall be a female "N" type				
3.1.13	Shall incorporate an integral DC blocking device to prevent damage to the antenna in the case of inadvertent misconnection of a bias-tee				
3.1.14	Shall come with a soft carry bag specific to the antenna system				
3.2.1	**The (3) UHF SATCOM Manpack Antennas shall include the following minimum characteristics**				
3.2.2	3 element Cross-YAGI configuration				
3.2.3	Mounted on an included folding tripod				
3.2.4	Antenna/tripod combination should be able to be deployed in approximately three (3) minutes by one person				
3.2.5	Be able to withstand up to 80 Mph winds				
3.2.6	Meet MIL-STD-810 environmental standards				
3.2.7	Antenna drive unit/element section shall not exceed 36 inches in length				
3.2.8	Entire weight shall be no more than 4.0 lbs				
3.2.9	Operate in the UHF SATCOM band (240-320 MHz)				
3.2.10	Transmit voltage standing wave ratio (VSWR) shall not exceed 1.5:1				
3.2.11	Implement Right-Hand Circular polarization, with an antenna gain a minimum of +10.9 dBic, and an axial ratio of less than 3 dB				
3.2.12	Have a power handling of at least 200 Watts (Average)				
3.2.13	RF interface connector mounted on the antenna shall be a female "BNC" type				
3.2.14	The antenna system shall come from the vendor with a soft carry bag				
3.3	**The (3) UHF SATCOM Vehicular Mount 225-2000MHz Antennas shall include the following minimum characteristics**				
3.3.1	Be multi-band and omni-directional				
3.3.1	Utilize the NATO 4.5 inch circular, 4-hole mounting scheme				

3.3.3	Meet MIL-STD-810 environmental standards				
3.3.4	Antenna assembly shall not exceed 46 inches in length				
3.3.5	Entire weight shall be no more than 10.0 lbs				
3.3.6	Operate on the frequency range 225 MHz-2 GHz				
3.3.7	Transmit voltage standing wave ratio (VSWR) shall not exceed 2.5:1				
3.3.8	Implement Vertical Linear polarization, with an antenna gain greater than 0 dBi				
3.3.9	Have a power handling of at least 100 Watts (Average)				
3.3.10	RF interface connector mounted on the antenna shall be a female "N" type				
3.3.11	Antenna shall be painted the following colors; sand, olive, or flat tactical black				

Enclosure (7)

Completed Past Performance Evaluation Data
Customer:
Contract Number/Period of Performance:
Contract Type:
Total Contract Value:
Point of Contact to Assess Customer Satisfaction (Include name, phone number, and email address):
Contract Work Description:
Remarks: