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TRANSMITTER EQUIPMENT CHARACTERISTICS		
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. PDLXX35ZZ (See Remarks)		2. MANUFACTURER'S NAME PACIFIC CREST CORPORATION
3. TRANSMITTER INSTALLATION – Fixed		4. TRANSMITTER TYPE – Digital Communications (FM)
5. TUNING RANGE – 410MHz –470MHz (In 20MHz Increments)		6. METHOD OF TUNING – SYNTHESIZED (SOFTWARE PROGRAM)
7. RF CHANNELING CAPABILITY - Selected Band in 12.5KHz or 25kHz Increments		8. EMISSION DESIGNATOR 8K60F1D (12.5kHz) or 17K8F1D (25kHz) 4800bps/GMSK or 9600bps/4 Level FSK (12.5kHz) 9600bps/GMSK or 19.2kbps/4 Level FSK (25kHz)
9. FREQUENCY TOLERANCE +/- 2.5ppm		
10. FILTER EMPLOYED ☒ a. YES ☐ b. NO		
11. SPREAD SPECTRUM ☐ a. YES ☒ b. NO		12. EMISSION BANDWIDTH ☐ CALCULATED ☒ MEASURED a. -3 dB MASK D (12.5kHz) Mask C (25kHz)
13. MAXIMUM BIT RATE - 9.6 kbps (12.5kHz) 19.2 kbps (25kHz)		b. -20 dB AS DEFINED BY TRANSMITTER SPECTRAL MASK
c. MODULATION TECHNIQUES AND CODING GMSK, 4-LEVEL FSK		c. -40 dB FCC PART 90.210
		d. -60 dB
		e. OC-BW
		15. MAXIMUM MODULATION FREQUENCY – 2.4kHz (12.5kHz) 4.8KHz (25kHz)
16. PRE-EMPHASIS ☐ a. YES ☒ b. NO		17. DEVIATION RATIO DEVIATION/MAX. FREQ. = 1.6KHz/470MHz = 3.4 x 10⁻⁶
		18. PULSE CHARACTERISTICS
19. POWER		a. RATE
a. MEAN 2W, 35W		b. WIDTH - N/A
b. PEP		c. RISE TIME
20. OUTPUT DEVICE MOTOROLA POWER TRANSISTOR WHICH FEEDS TO ANTENNA		d. FALL TIME
		e. COMP RATIO
		21. HARMONIC LEVEL
22. SPURIOUS LEVEL - < - 30 dBm		a. 2 nd = < - 30 dBm
		b. 3 rd = < - 35 dBm
23. FCC TYPE ACCEPTANCE NO. – KEAPDL4535		c. OTHER = < - 40 dBm
24. REMARKS Model number is PDLXX35ZZ where: XX is the starting frequency (41 = 410 MHz, 43 = 430 MHz, 45 = 450 MHz) ZZ is bandwidth (blank = 25kHz, 12 = 12.5kHz) 35 is maximum output power = 35Watts This model number refers to the base (transceiver) The system normally consists of a 35W / 2W base (transceiver) and the rover (receiver)		
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ANTENNA EQUIPMENT CHARACTERISTICS		
1. ☐ a. TRANSMITTING ☐ b. RECEIVING ☒ c. TRANSMITTING AND RECEIVING		
2. NOMENCLATURE, MANUFACTURER'S MODEL NO. BMUF-4080 BMUF-4340 BMUF-4600 (See Remarks)		3. MANUFACTURER'S NAME MAXRAD
4. FREQUENCY RANGE 406MHz to 440MHz (BMUF-4080) 430MHz to 450MHz (BMUF-4340) 450MHz to 470MHz (BMUF-4600)		5. TYPE Unity gain, elevated feed, no ground plane, mobile whip
6. POLARIZATION Vertical		7. SCAN CHARACTERISTICS
		a. TYPE Non-scanning
8. GAIN		b. VERTICAL SCAN
a. MAIN BEAM Unity		(1) Max Elev
b. 1st MAJOR SIDE LOBE		(2) Min Elev
		(3) Scan Rate
9. BEAMWIDTH		c. HORIZONTAL SCAN
a. HORIZONTAL		(1) Sector Scanned
b. VERTICAL		(2) Scan Rate
		d. SECTOR BLANKING (<i>X one</i>) ☐ (1) YES ☒ (2) NO
10. REMARKS The appropriate frequency range antenna is matched to the radio. The above specifications apply to the three listed unity gain antennas.		
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ANTENNA EQUIPMENT CHARACTERISTICS		
1. ☐ a. TRANSMITTING ☐ b. RECEIVING ☒ c. TRANSMITTING AND RECEIVING		
2. NOMENCLATURE, MANUFACTURER'S MODEL NO. BMUF-4085 BMUF-4325 BMUF-4525 (See Remarks)		3. MANUFACTURER'S NAME MAXRAD
4. FREQUENCY RANGE 406MHz to 430MHz (BMUF-4080) 430MHz to 450MHz (BMUF-4325) 450MHz to 470MHz (BMUF-4525)		5. TYPE 5dbi gain, elevated feed, no ground plane, mobile whip
6. POLARIZATION Vertical		7. SCAN CHARACTERISTICS
		a. TYPE Non-scanning
8. GAIN		b. VERTICAL SCAN
a. MAIN BEAM 5db		(1) Max Elev
b. 1st MAJOR SIDE LOBE		(2) Min Elev
		(3) Scan Rate
9. BEAMWIDTH		c. HORIZONTAL SCAN
a. HORIZONTAL		(1) Sector Scanned
b. VERTICAL		(2) Scan Rate
		d. SECTOR BLANKING (<i>X one</i>) ☐ (1) YES ☒ (2) NO
10. REMARKS The appropriate frequency range antenna is matched to the radio. The above specifications apply to the three listed 5db gain antennas.		
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SAMPLE LINE DIAGRAM

HIGH POWER BASE AND ROVER

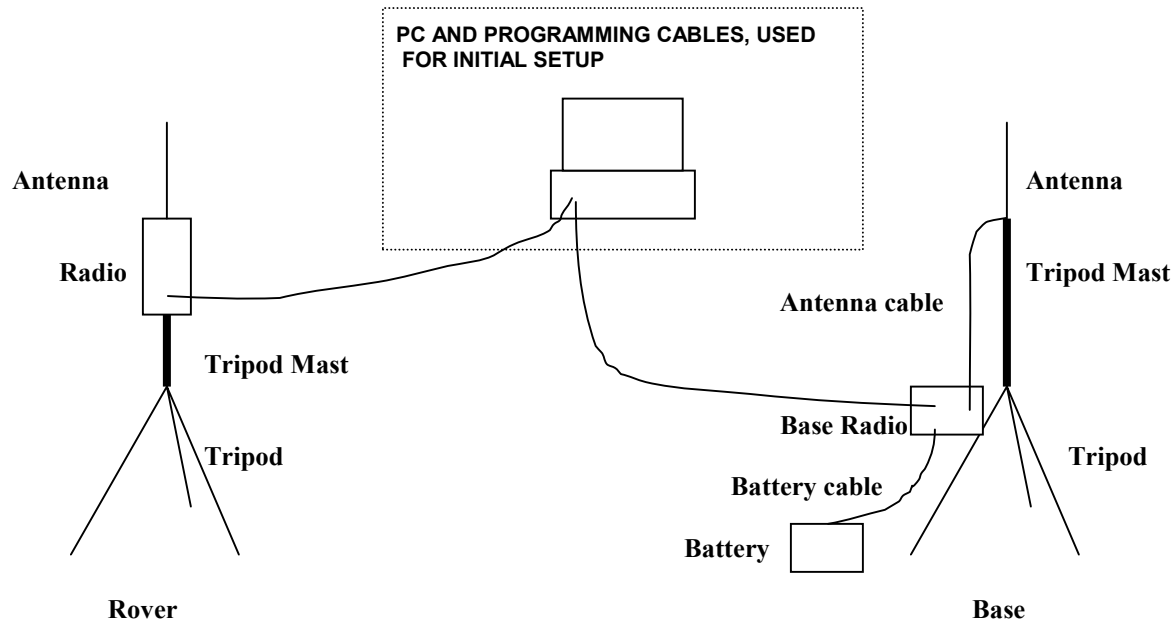


Diagram shows one base unit and one rover unit. Rover units are receive only. Two base units or one bas / rover combination required for communication. Data source for transmission not shown. Data source connects to power supply cable in base and programming connector in rover.