

1	Command and Control Telemetry		
1.1	Ground Control Station		
1.1.1	Transmitter Primary C2	L-3	
	Frequency Range		
		Receive L-Band	1625-1850
		Transmit S-Band	2200-2500
	Bandwidth Receive		30
	Bandwith Transmit		7.5
	Transmission Mode	Frequency Division Duplex	
	Emission Designator	NA	
	Power		10
1.1.2	Transmitter Secondary C-2		
	Transmitter Secondary C2	Silvus Technologies, Inc	
	Frequency Range	4700-5000	
	Bandwidth	5, 10, 20 (10 and 20 will not be used)	
	Maximum Bit Rate	100+	
	Transmission Mode	Time Divison Duplex	
	Emission Designator		
	Power		10
	FCC ID	N2S-SC42-245	
	Antenna	Haigh-Farr	
	Frequency Range	4500-5000	
	Type	Blade	
	Polarization	Vertical	
	Gain		0
	Beamwidth	omnidirectional	
1.1.3	Tracking Antenna	Troll Systems Corp.	
	Frequency Range	1625 to 1850	
		2200 to 2500	
		4400 to 5800	
	Type	2 ft Offset fed Parabolic Dish	
	Polarization	Vertical	
	Gain 1625 to 1850		17
	Gain 2200 to 2500		20
	Gain 4400 to 5800		26
	Beamwidth		
		Horizontal 1625 to 1850	16
		Horizontal 2200 to 2500	12
		Horizontal 4400 to 5800	6
		Vertical 1625 to 1850	26
		Vertical 2200 to 2500	20
		Vertical 4400 to 5800	9

1.1.4	Transmitter C-2 Tertiary	MicroHard	
	Frequency Range	902-928	
	Bandwidth		400
	Maximum Bit Rate		175
	Transmission Mode	FM	
	Emission Designator	350kF1D	
	Power		1
	FCC ID	NS901P5	
1.1.5	Antenna	PCTEL	
	Frequency Range	902-928	
	Type	whip	
	Polarization	vertical	
	Gain		5
	Beam Width	Omnidirectional	
		Horizontal	360
		Vertical	80
1.2	Airborne Systems		
1.2.1	Transmitter Primary C2	L-3	
	Frequency Range		
		Receive L-Band	2200-2500
		Transmit S-Band	1625-1850
	Bandwidth Receive		7.5
	Bandwith Transmit		30
	Transmission Mode	Frequency Division Duplex	
	Emission Designator	NA	
	Power		10
1.2.2	Transmitter Secondary C-2		
	Transmitter Secondary C2	Silvus Technologies, Inc	
	Frequency Range	4700-5000	
	Bandwidth	5, 10, 20 (10 and 20 will not be used)	
	Maximum Bit Rate	100+	
	Transmission Mode	Time Divison Duplex	
	Emission Designator		
	Power		10
	FCC ID	N2S-SC42-245	
1.2.3	Antenna	Antcom	
	Frequency Range		1700-2000
			2200-2500
			4400-5000
	Type		Blade
	Polarization		Vertical
	Gain 1700-2000 front to back		4
	Gain 1700-2000 side		2

	Gain 2200-2500		4
	Gain 440-5000		5
	Beamwidth	Omnidirectional	
1.1.4	Transmitter C-2 Tertiary	MicroHard	
	Frequency Range	902-928	
	Bandwidth		400
	Maximum Bit Rate		175
	Transmission Mode	FM	
	Emission Designator	350kF1D	
	Power		1
	FCC ID	NS901P5	
1.1.5	Antenna	Haigh Farr	
	Frequency Range	902-928	
	Type	blade	
	Polarization	vertical	
	Gain		0
	Beam Width	Omnidirectional	
2	Transponder		
2.1	Mode C	Sagotech	
2.11	Transmitter		
	Frequency (fixed) TX		1090
	Bandwidth		
	Maximum Bit Rate		
	Transmission Mode	FM	
	Emission Designator		
	Power		
	Frequency (fixed) RX		1030
	FCC ID		
	1030 sensitivity	-73 plus or minus 4	
	RF Impedence		50
	Altitude Encoder		20000
	FCC Compliance		
2.12	Antenna	Comant	
	Frequency Range	1030 to 1090	
	Type	whip	
	Polarization	Vertical	
	Gain		0
	Beam Width	omnidirectional	

Bandit

MHz
MHz
MHz
MHz

Watts

SC4210-485-EB
MHz
MHz
Mbps

W

6040

Mhz

db

A600-LSC-TR-01
MHz
MHz
MHz

dbi
dbi
dbi

deg
deg
deg
deg
deg
deg

MHX-910

MHz

KHz

kbps

Watt PEP

MN9155

MHz

db

degrees

degrees

Bandit

MHz

MHz

MHz

MHz

Watts

SC4210-485-EB

MHz

MHz

Mbps

W

2B-L-S-C-BANDVVV-XSSS-2

db

db

db
db

MHX-910
MHz
KHz
kbps

Watt PEP

6008
MHz

db

XPC-TR-50
MHz

MHz

dBm
Ohm
Ft
FCC part 87, 115

CI 101
MHz

db