## EXHIBIT 1

4. Frequency (state	<u> </u>				MODULATING	NECESSARY BANDWIDTH
whether kHz or MHz)	POWER			EMISSION	SIGNAL	(kHz)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
(A)	(B)	(C)	(D)	(E)	(F)	(G)
4415 MHz	2 W	55.1 dBm	Peak	-60 dB, 400 KHz for CM/TM - 40 MHz for TM/TV	(1) -58.6 Kbps	-3 dB
		32360			(2) TM/CM 58.6 KHz	
		,			(3) TM/CM 119 KHz	
					(4) 8.5 μs 17μs	
4755 MHz	10 W	49.7 dBm	Peak	-20 dB, 200 KHz for CM/TM - 30 MHz for TM/TV	(1) -58.6 Kbps	-3 dB
		93.3			(2) TM/CM 58.6 KHz	
					(3) TM/CM 119 KHz	
					(4) 8.5 μs 17μs	
4457 MHz	2 W	55.1 dBm	Peak	-60 dB, 400 KHz for CM/TM - 40 MHz for TM/TV	(1) -58.6 Kbps	-3 dB
		323.6			(2) TM/CM 58.6 KHz	
					(3) TM/CM 119 KHz	
					(4) 8.5 μs 17μs	
4905 MHz	10 W	49.7 dBm	Peak	-20 dB, 200 KHz for CM/TM - 30 MHz for TM/TV	(1) -58.6 Kbps	-3 dB
		93.3			(2) TM/CM 58.6 KHz	
					(3) TM/CM 119 KHz	
	<del>                                     </del>				(4) 8.5 μs 17μs	
4436 MHz	2 W	55.1 dBm	Peak	-60 dB, 400 KHz for CM/TM - 40 MHz for TM/TV	(1) -58.6 Kbps	-3 dB
		723.6			(2) TM/CM 58.6 KHz	
	<del>                                     </del>				(3) TM/CM 119 KHz	
		<del>                                     </del>			(4) 8.5 μs 17μs	
4830 MHz	10 W	49.7 dBm	Peak	-20 dB, 200 KHz for CM/TM - 30 MHz for TM/TV		-3 dB
	<del>                                     </del>	93.3			(2) TM/CM 58.6 KHz	
	<u> </u>	17.5			(3) TM/CM 119 KHz	
	<del>                                     </del>		<b>1</b>		(4) 8.5 μs 17μs	

FM modulator at 0.446 mod. Ratio - TV FSK - for TM/CM, 15 KHz deviation from subcarrier

## **EXHIBIT 2 10.**

A) This frequency is used for uplinking telemetry and command data to an unmanned air vehicle from the backup ground station. It is generally intended for short-range communications although capable of a 50km or more communications distance.

The theory of operation goes as follows: The input data is modulated onto a carrier by the FM/FSK Modulator generating the IF signal. The IF signal is upconverted in mixer with a transmit synthesizer signal which is then amplified in the final stage to a 10w level. Themodulator, RF upconverter, and power amplifier are packaged together in a single unit with a heat sink on one face.

- B) The objectives are to maintain a continuous data link to the air vehicle at all times and hence continuos control of the vehicle.
- C) The technology used is off-the shelf equipment. The advancement sought are in quality, continuity and consistency of the telemetry.

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Subject: Data Link Frequencies and UHF Interfaces

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1. Primary Frequency Plan: see Table 1 below. We are aware that in some cases the authorities may ask for a DD1494 form. Therefore, I attached as Appendix A draft with data for the DD1494. It has data prepared for the US Govnt as part of the Hunter program.

Table 1. C-Band Preset Channels

Ch. No.	Uplink (Mhz)	Downlink [Mhz]
. 1.	4415	4755
2.	4422	4780
3.	4429	4805
4.	4438	4830
5.	4443	4855
6.	4450	4880
7	4457	4905

EXHIBIT 3