

EXHIBIT 1
FCC FORM 442
Request for Confidentiality

See the Request for Confidentiality contained within the January 10, 2001,
transmittal letter that was submitted for this application.

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- a. The Harris RF-5800H-MP radio operates over the range of 1.6 to 59.999 MHz.
- b-d. The transmitter produces 1, 5, or 20 (10 in FM) Watts of PEP selectable by the operator, with no meaningful antenna gain.

e-g.

Mode	Modulation	Emission Designator	Necessary Bandwidth
AM SSB	Voice	2K50H3E	2.5 kHz
USB/LSB	Voice	2K50J3E	2.5 kHz
CW		100HA1A	.1 kHz
CW		100HJ2A	.1 kHz
FM	Voice	6K25F3E	6.25 kHz

Necessary bandwidth was determined using a combination of manufacturer's data and accepted spectrum standards.

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- a. The Harris RF-5800M-MP radio is capable of operation over the range of 30 to 512 MHz.
- b-d. The transmitter produces 1, 5, or 10 (20 in VHF-hi and UHF FM) Watts of PEP selectable by the operator, with no meaningful antenna gain.

e-g.

Mode	Modulation	Emission Designator	Necessary Bandwidth
FM Voice	Voice	2K50H3E	2.5 kHz
AM Voice	Voice	2K50J3E	2.5 kHz
ASK	16 kbps data	20K0A1D	20 kHz
FSK	16 kbps data	20K0F1D	20 kHz

Necessary bandwidth was determined using a combination of manufacturer's data and accepted spectrum standards.

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- a. The Collins HFS 900D radio operates over the range of 2 to 29.9999 MHz.
- b-d. The transmitter produces 100 Watts of average power, with no meaningful antenna gain.

e-g.

Mode		Power	Emission Designator	Necessary Bandwidth
SSB	Voice	400 Wpk	2K50J3E	2.5 kHz
M-PSK	Data 1800 bps	400 Wpk	2K50G2D	2.5 kHz
AME	Voice	100 Wmn	2K50H3E	2.5 kHz
CW		100 Wmn	100HA1A	.1 kHz

Necessary bandwidth was determined using a combination of manufacturer's data and accepted spectrum standards.

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- a. The Digital Microwave XP4 radio operates over the range of 14.5-15.35 GHz.
- b-d. The transmitter produces up to 80 mW of power selectable by the operator, with approximately 34 dB of antenna gain, yielding 200W EIRP.

e-g.

Mode	Modulation	Emission Designator	Necessary Bandwidth
2E1	2x2.048 Mbps	3M5G1D	3500 kHz
4E1	4x2.048 Mbps	7MG1D	7000
8E1	8x2.048 Mbps	14MG1D	14000
16E1	16x2.048 Mbps	28MG1D	28000
4DS-1	4x1.544 Mbps	5MG1D	5000
8DS-1	8x1.544 Mbps	10MG1D	10000
DS3	45 Mbps	25MG1D	25000

Necessary bandwidth was determined using a combination of manufacturer's data and accepted spectrum standards.

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- a. The Raytheon HISAR radar operates on a frequency of 9350 MHz.
- b-d. The transmitter produces 3500 Watts of Peak power, with 34dB of antenna gain, producing 7MW of ERP.

e-g.

Mode	Freq. (MHz)	PRF (HZ)	Pulsewidth uSec	Chirp (MHz)	Emission Designator	Necessary Bandwidth
WAMTI, SBS, NSS	9320, 9350, 9370	883.3 941.3 100.3	99	5.9	6M93Q0N	6930 kHz
SPOT	9350	600	73.32	100	215M8Q0N	215790 kHz
STRIP	9350	700	62.64	20.5	23M01Q0N	23010 kHz
SSV	9350	600	90	29.52	33MQ0N	32990 kHz

Necessary bandwidth was determined using the Mason-Zimmerman Approximation.

EXHIBIT 3
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