



EXHIBIT 1

The operations contemplated under the experimental license involve full-duplex operation. Ten frequency pairs are being requested. This is a total of 20 frequencies. Five pairs operate with a 142 MHz frequency separation between transmit and receive frequencies, and five pairs operate with 52 MHz separation between transmit and receive frequencies. This is in accordance with the European band plan recommendation contained in CEPT T/R 13-01 "Preferred Channel Arrangements for Fixed Services in the Range 1-3 GHz." The radio which will be tested under this experimental license is being developed for export-only, primarily to European countries.

The particulars requested in item 4 of Form 442 are presented in the table below.

Frequency	POWER			EMISSION	MOD. SIGNAL	NECESSARY BW
MHz	(B)	(C)	(D)	(E)	(F)	(G)
1350.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1360.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1361.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1361.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1374.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1375.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1385.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1386.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1386.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1399.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1427.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1437.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1438.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1438.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1451.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1492.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1502.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1503.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1503.750	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz
1516.250	0.1 Watt	10 Watts	Mean	500KA1W	0.444 MHz	0.500 MHz

The frequencies in the table above are presented in numerical order of increasing frequency, for convenience.

In the table below, the frequencies are arranged as channel pairs, for both 142 MHz and 52 MHz separations. The reason for the choice of these frequencies is also given.



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PAIR #	FREQ. A - MHz	FREQ. B - MHz	SEPARATION	REASON
1	1350.750	1492.750	142 MHz	Lower band edge
2	1360.750	1502.750	142 MHz	mid-band
3	1361.250	1503.250	142 MHz	adjacent channel to #2
4	1361.750	1503.750	142 MHz	2 nd adjacent channel to #2
5	1374.250	1516.250	142 MHz	Upper band edge
6	1375.750	1427.750	52 MHz	Lower band edge
7	1385.750	1437.750	52 MHz	mid-band
8	1386.250	1438.250	52 MHz	adjacent channel to #7
9	1386.750	1438.750	52 MHz	2 nd adjacent channel to #7
10	1399.250	1451.250	52 MHz	Upper band edge



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EXHIBIT 2

The purpose of this experimental license will be to test new radio technology in a point-to-point fixed link. The local end of this link will be located at the facilities of Microwave Data Systems, 175 Science Parkway, Rochester (Monroe County), New York 14620. The geographical coordinates of this location are: 43° 07' 06" North latitude, 77° 36' 42.5" West longitude (NAD83).

The remote end of the link will also be fixed, but the specific location is not determined at this time. During the course of the experimental operation, several different locations may be used for the remote end. In all cases, this end of the link will be within an 80 km radius of the permanent site. This radius encompasses all, or parts of, Monroe, Ontario, Livingston and Wayne Counties.

EXHIBIT 3

A 3 foot (0.91 meter) parabolic grid antenna will be used. The beam width at the half-power points is 13.6 degrees. The orientation of the antenna at each end will depend on the location of the remote end of the link. The nominal antenna gain is 20 dB, which includes the effect of 1 dB of feedline and connector loss.

100mw output



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EXHIBIT 5

The radio equipment which will be tested under this experimental license is being developed for data or digitized voice transmissions at an E1 data rate. There is no provision for station identification as none is required for operation in the services in which the radio will be used.

Therefore, Microwave Data Systems requests that operation under this license be specifically exempted from the requirement for station identification contained in § 5.152, and that the license be so endorsed.