

Federal Communications Commision

Exhibit 1

Duplexed frequencies requested (MHz)

Channel	Mobile Station	Base Station
1	1850.2 - 1850.4	1930.2 - 1930.4
2	1850.4 - 1850.6	1930.4 - 1930.6
3	1850.6 - 1850.8	1930.6 - 1930.8
4	1850.8 - 1851.0	1930.8 - 1931.0
5	1851.0 - 1851.2	1931.0 - 1931.2
6	1851.2 - 1851.4	1931.2 - 1931.4
7	1851.4 - 1851.6	1931.4 - 1931.6
8	1851.6 - 1851.8	1931.6 - 1931.8
9	1851.8 - 1852.0	1931.8 - 1932.0
10	1852.0 - 1852.2	1932.0 - 1932.2
11	1852.2 - 1852.4	1932.2 - 1932.4
12	1852.4 - 1852.6	1932.4 - 1932.6
13	1852.6 - 1852.8	1932.6 - 1932.8
14	1852.8 - 1853.0	1932.8 - 1933.0
15	1853.0 - 1853.2	1933.0 - 1933.2
16	1853.2 - 1853.4	1933.2 - 1933.4
17	1853.4 - 1853.6	1933.4 - 1933.6
18	1853.6 - 1853.8	1933.6 - 1933.8
19	1853.8 - 1854.0	1933.8 - 1934.0
20	1854.0 - 1854.2	1934.0 - 1934.2
21	1854.2 - 1854.4	1934.2 - 1934.4
22	1854.4 - 1854.6	1934.4 - 1934.6
23	1854.6 - 1854.8	1934.6 - 1934.8
24	1854.8 - 1855.0	1934.8 - 1935.0
25	1855.0 - 1855.2	1935.0 - 1935.2

Channel	Mobile Station	Base Station
26	1855.2 - 1855.4	1935.2 - 1935.4
27	1855.4 - 1855.6	1935.4 - 1935.6
28	1855.6 - 1855.8	1935.6 - 1935.8
29	1855.8 - 1856.0	1935.8 - 1936.0
30	1856.0 - 1856.2	1936.0 - 1936.2
31	1856.2 - 1856.4	1936.2 - 1936.4
32	1856.4 - 1856.6	1936.4 - 1936.6
33	1856.6 - 1856.8	1936.6 - 1936.8
34	1856.8 - 1857.0	1936.8 - 1937.0
35	1857.0 - 1857.2	1937.0 - 1937.2
36	1857.2 - 1857.4	1937.2 - 1937.4
37	1857.4 - 1857.6	1937.4 - 1937.6
38	1857.6 - 1857.8	1937.6 - 1937.8
39	1857.8 - 1858.0	1937.8 - 1938.0
40	1858.0 - 1858.2	1938.0 - 1938.2
41	1858.2 - 1858.4	1938.2 - 1938.4
42	1858.4 - 1858.6	1938.4 - 1938.6
43	1858.6 - 1858.8	1938.6 - 1938.8
44	1858.8 - 1859.0	1938.8 - 1939.0
45	1859.0 - 1859.2	1939.0 - 1939.2
46	1859.2 - 1859.4	1939.2 - 1939.4
47	1859.4 - 1859.6	1939.4 - 1939.6
48	1859.6 - 1859.8	1939.6 - 1939.8
49	1859.8 - 1860.0	1939.8 - 1940.0
50	1860.0 - 1860.2	1940.0 - 1940.2

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Channel	Mobile Station	Base Station
51	1860.2 - 1860.4	1940.2 - 1940.4
52	1860.4 - 1860.6	1940.4 - 1940.6
53	1860.6 - 1860.8	1940.6 - 1940.8
54	1860.8 - 1861.0	1940.8 - 1941.0
55	1861.0 - 1861.2	1941.0 - 1941.2
56	1861.2 - 1861.4	1941.2 - 1941.4
57	1861.4 - 1861.6	1941.4 - 1941.6
58	1861.6 - 1861.8	1941.6 - 1941.8
59	1861.8 - 1862.0	1941.8 - 1942.0
60	1862.0 - 1862.2	1942.0 - 1942.2
61	1862.2 - 1862.4	1942.2 - 1942.4
62	1862.4 - 1862.6	1942.4 - 1942.6
63	1862.6 - 1862.8	1942.6 - 1942.8
64	1862.8 - 1863.0	1942.8 - 1943.0
65	1863.0 - 1863.2	1943.0 - 1943.2
66	1863.2 - 1863.4	1943.2 - 1943.4
67	1863.4 - 1863.6	1943.4 - 1943.6
68	1863.6 - 1863.8	1943.6 - 1943.8
69	1863.8 - 1864.0	1943.8 - 1944.0
70	1864.0 - 1864.2	1944.0 - 1944.2
71	1864.2 - 1864.4	1944.2 - 1944.4
72	1864.4 - 1864.6	1944.4 - 1944.6
73	1864.6 - 1864.8	1944.6 - 1944.8
74	1864.8 - 1865.0	1944.8 - 1945.0
75	1865.0 - 1865.2	1945.0 - 1945.2

Channel	Mobile Station	Base Station
76	1865.2 - 1865.4	1945.2 - 1945.4
77	1865.4 - 1865.6	1945.4 - 1945.6
78	1865.6 - 1865.8	1945.6 - 1945.8
79	1865.8 - 1866.0	1945.8 - 1946.0
80	1866.0 - 1866.2	1946.0 - 1946.2
81	1866.2 - 1866.4	1946.2 - 1946.4
82	1866.4 - 1866.6	1946.4 - 1946.6
83	1866.6 - 1866.8	1946.6 - 1946.8
84	1866.8 - 1867.0	1946.8 - 1947.0
85	1867.0 - 1867.2	1947.0 - 1947.2
86	1867.2 - 1867.4	1947.2 - 1947.4
87	1867.4 - 1867.6	1947.4 - 1947.6
88	1867.6 - 1867.8	1947.6 - 1947.8
89	1867.8 - 1868.0	1947.8 - 1948.0
90	1868.0 - 1868.2	1948.0 - 1948.2
91	1868.2 - 1868.4	1948.2 - 1948.4
92	1868.4 - 1868.6	1948.4 - 1948.6
93	1868.6 - 1868.8	1948.6 - 1948.8
94	1868.8 - 1869.0	1948.8 - 1949.0
95	1869.0 - 1869.2	1949.0 - 1949.2
96	1869.2 - 1869.4	1949.2 - 1949.4
97	1869.4 - 1869.6	1949.4 - 1949.6
98	1869.6 - 1869.8	1949.6 - 1949.8
99	1869.8 - 1870.0	1949.8 - 1950.0
100	1870.0 - 1870.2	1950.0 - 1950.2

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Duplexed frequencies requested (MHz)

Channel	Mobile Station	Base Station
101	1870.2 - 1870.4	1950.2 - 1950.4
102	1870.4 - 1870.6	1950.4 - 1950.6
103	1870.6 - 1870.8	1950.6 - 1950.8
104	1870.8 - 1871.0	1950.8 - 1951.0
105	1871.0 - 1871.2	1951.0 - 1951.2
106	1871.2 - 1871.4	1951.2 - 1951.4
107	1871.4 - 1871.6	1951.4 - 1951.6
108	1871.6 - 1871.8	1951.6 - 1951.8
109	1871.8 - 1872.0	1951.8 - 1952.0
110	1872.0 - 1872.2	1952.0 - 1952.2
111	1872.2 - 1872.4	1952.2 - 1952.4
112	1872.4 - 1872.6	1952.4 - 1952.6
113	1872.6 - 1872.8	1952.6 - 1952.8
114	1872.8 - 1873.0	1952.8 - 1953.0
115	1873.0 - 1873.2	1953.0 - 1953.2
116	1873.2 - 1873.4	1953.2 - 1953.4
117	1873.4 - 1873.6	1953.4 - 1953.6
118	1873.6 - 1873.8	1953.6 - 1953.8
119	1873.8 - 1874.0	1953.8 - 1954.0
120	1874.0 - 1874.2	1954.0 - 1954.2
121	1874.2 - 1874.4	1954.2 - 1954.4
122	1874.4 - 1874.6	1954.4 - 1954.6
123	1874.6 - 1874.8	1954.6 - 1954.8
124	1874.8 - 1875.0	1954.8 - 1955.0
125	1875.0 - 1875.2	1955.0 - 1955.2

Channel	Mobile Station	Base Station
126	1875.2 - 1875.4	1955.2 - 1955.4
127	1875.4 - 1875.6	1955.4 - 1955.6
128	1875.6 - 1875.8	1955.6 - 1955.8
129	1875.8 - 1876.0	1955.8 - 1956.0
130	1876.0 - 1876.2	1956.0 - 1956.2
131	1876.2 - 1876.4	1956.2 - 1956.4
132	1876.4 - 1876.6	1956.4 - 1956.6
133	1876.6 - 1876.8	1956.6 - 1956.8
134	1876.8 - 1877.0	1956.8 - 1957.0
135	1877.0 - 1877.2	1957.0 - 1957.2
136	1877.2 - 1877.4	1957.2 - 1957.4
137	1877.4 - 1877.6	1957.4 - 1957.6
138	1877.6 - 1877.8	1957.6 - 1957.8
139	1877.8 - 1878.0	1957.8 - 1958.0
140	1878.0 - 1878.2	1958.0 - 1958.2
141	1878.2 - 1878.4	1958.2 - 1958.4
142	1878.4 - 1878.6	1958.4 - 1958.6
143	1878.6 - 1878.8	1958.6 - 1958.8
144	1878.8 - 1879.0	1958.8 - 1959.0
145	1879.0 - 1879.2	1959.0 - 1959.2
146	1879.2 - 1879.4	1959.2 - 1959.4
147	1879.4 - 1879.6	1959.4 - 1959.6
148	1879.6 - 1879.8	1959.6 - 1959.8
149	1879.8 - 1880.0	1959.8 - 1960.0
150	1880.0 - 1880.2	1960.0 - 1960.2

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Channel	Mobile Station	Base Station
151	1880.2 - 1880.4	1960.2 - 1960.4
152	1880.4 - 1880.6	1960.4 - 1960.6
153	1880.6 - 1880.8	1960.6 - 1960.8
154	1880.8 - 1881.0	1960.8 - 1961.0
155	1881.0 - 1881.2	1961.0 - 1961.2
156	1881.2 - 1881.4	1961.2 - 1961.4
157	1881.4 - 1881.6	1961.4 - 1961.6
158	1881.6 - 1881.8	1961.6 - 1961.8
159	1881.8 - 1882.0	1961.8 - 1962.0
160	1882.0 - 1882.2	1962.0 - 1962.2
161	1882.2 - 1882.4	1962.2 - 1962.4
162	1882.4 - 1882.6	1962.4 - 1962.6
163	1882.6 - 1882.8	1962.6 - 1962.8
164	1882.8 - 1883.0	1962.8 - 1963.0
165	1883.0 - 1883.2	1963.0 - 1963.2
166	1883.2 - 1883.4	1963.2 - 1963.4
167	1883.4 - 1883.6	1963.4 - 1963.6
168	1883.6 - 1883.8	1963.6 - 1963.8
169	1883.8 - 1884.0	1963.8 - 1964.0
170	1884.0 - 1884.2	1964.0 - 1964.2
171	1884.2 - 1884.4	1964.2 - 1964.4
172	1884.4 - 1884.6	1964.4 - 1964.6
173	1884.6 - 1884.8	1964.6 - 1964.8
174	1884.8 - 1885.0	1964.8 - 1965.0
175	1885.0 - 1885.2	1965.0 - 1965.2

Channel	Mobile Station	Base Station
176	1885.2 - 1885.4	1965.2 - 1965.4
177	1885.4 - 1885.6	1965.4 - 1965.6
178	1885.6 - 1885.8	1965.6 - 1965.8
179	1885.8 - 1886.0	1965.8 - 1966.0
180	1886.0 - 1886.2	1966.0 - 1966.2
181	1886.2 - 1886.4	1966.2 - 1966.4
182	1886.4 - 1886.6	1966.4 - 1966.6
183	1886.6 - 1886.8	1966.6 - 1966.8
184	1886.8 - 1887.0	1966.8 - 1967.0
185	1887.0 - 1887.2	1967.0 - 1967.2
186	1887.2 - 1887.4	1967.2 - 1967.4
187	1887.4 - 1887.6	1967.4 - 1967.6
188	1887.6 - 1887.8	1967.6 - 1967.8
189	1887.8 - 1888.0	1967.8 - 1968.0
190	1888.0 - 1888.2	1968.0 - 1968.2
191	1888.2 - 1888.4	1968.2 - 1968.4
192	1888.4 - 1888.6	1968.4 - 1968.6
193	1888.6 - 1888.8	1968.6 - 1968.8
194	1888.8 - 1889.0	1968.8 - 1969.0
195	1889.0 - 1889.2	1969.0 - 1969.2
196	1889.2 - 1889.4	1969.2 - 1969.4
197	1889.4 - 1889.6	1969.4 - 1969.6
198	1889.6 - 1889.8	1969.6 - 1969.8

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Exhibit 2 Sections 5 (b) - 5 (e)

Fixed Locations:

Motorola (Corporate Tower) 1303 E. Algonquin Road Schaumburg (Cook) Illinois	Lat: 42 03 45 N	Long: 88 03 08 W
Motorola (Arlington Ridge) 3215B Wilke Road Arlington Heights (Cook) Illinois	Lat: 42 08 20 N	Long: 87 59 40 W
Motorola (Subscriber) 600 N. U.S. Highway 45 Libertyville (Lake) Illinois	Lat: 42 17 21 N	Long: 88 00 00 W

Mobile Locations:

Up to 25 mobile units within a 20 mile radius of any fixed location described above.

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Exhibit 3

Sections 10 (a) - 10 (c)

10 (a) This authorization is requested to allow us to operate a testbed for field testing of a DCS 2000 system. Our proposed system consists of three (3) transmit base stations and up to 25 mobile stations to perform tests.

10 (b) The objective of our experiment is to verify the operation of the DCS 2000 Digital Cellular System.

10 (c) Our proposed experiment (i.e. field testing) is a critical phase in the development of the DCS 2000 system, which will expand on the European digital cellular system.

FCC Application - Experimental Radio Service
Motorola, Inc.

Exhibit 4
Item No. 15(e)

NOTE: This Exhibit ONLY applies for the Fixed Arlington Heights Location

