

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

KE2XKT

(Call Sign)

XD MO

(Class of Station)

0040-EX-RR-2010

(File Number)

NAME Dielectric Communications

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(e) of the Commission's Rules

Station Locations

- (1) MOBILE: Raymond, ME, within 6.5 km, centered around NL 43-55-40; WL 70-29-09
- (2) MOBILE: Raymond (CUMBERLAND), ME, within 6.5 km, centered around NL 43-55-40; WL 70-29-09

Frequency Information

MOBILE: Raymond, ME, within 6.5 km, centered around NL 43-55-40; WL 70-29-09

| Frequency  | Station Class | Emission Designator       | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------------|------------------|---------------------------|
| 54-72 MHz  | MO            | N0N<br>6M00C3F<br>6M00F3E | 10000 W (ERP)    |                           |
| 76-88 MHz  | MO            | N0N<br>6M00C3F<br>6M00F3E | 10000 W (ERP)    |                           |
| 88-108 MHz | MO            | N0N                       | 10000 W (ERP)    |                           |

This authorization effective April 04, 2010 and  
will expire 3:00 A.M. EST April 04, 2012

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

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| Frequency     | Station Class | Emission Designator       | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------------|------------------|---------------------------|
| 88-108 MHz    | MO            | 200KF3E                   | 10000 W (ERP)    |                           |
| 174-216 MHz   | MO            | N0N<br>6M00C3F<br>6M00F3E | 30000 W (ERP)    |                           |
| 406.1-450 MHz | MO            | 100HA1A                   | 50 W (ERP)       |                           |
| 470-608 MHz   | MO            | N0N<br>6M00C3F<br>6M00F3E | 100000 W (ERP)   |                           |
| 540-600 MHz   | MO            | 100HA1A                   | 1000 W (ERP)     |                           |
| 614-806 MHz   | MO            | N0N<br>6M00C3F<br>6M00F3E | 100000 W (ERP)   |                           |
| 660-720 MHz   | MO            | 100HA1A                   | 1000 W (ERP)     |                           |
| 760-820 MHz   | MO            | 100HA1A                   | 1000 W (ERP)     |                           |
| 1670-1675 MHz | MO            | N0N                       | 100 W (ERP)      |                           |

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| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1860-1910 MHz | MO            | 100HA1A             | 1000 kW (ERP)    |                           |
| 2495-2500 MHz | MO            | N0N                 | 100 W (ERP)      |                           |
| 5420-5480 MHz | MO            | 100HA1A             | 1000 W (ERP)     |                           |
| 5780-5840 MHz | MO            | 100HA1A             | 1000 W (ERP)     |                           |
| 6500-6560 MHz | MO            | 100HA1A             | 1000 W (ERP)     |                           |

MOBILE: Raymond (CUMBERLAND), ME, within 6.5 km, centered around NL 43-55-40; WL 70-29-09

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 820-960 MHz | MO            | N0N                 | 1000 W (ERP)     |                           |

## Special Conditions:

- (1) This authorization does not include use of the 1910-1930 MHz band which has been designated for unlicensed PCS.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) There should be No Operation for frequency band 451 MHz to 500 MHz.