

New NCE FM Construction Permit Application

This application complies with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. The technical parameters for the new NCE FM facility are as indicated below:

| | New NCE FM |
|--------------------------------------|---------------------------|
| Channel / Class | 214A |
| Geographical Coordinates (NAD 83) | 40 25 45.1 109 29 55.9 |
| ASRN | 1228993 |
| Site AMSL | 1592.9 m |
| Tower AGL | 35.0 m |
| COR AGL | 17.0 m |
| COR AMSL | 1609.9 m |
| HAAT | -26.8 m |
| ERP | 0.860 kW (H&V, non-DA) |

Tabulation of HAAT / ERP / distance to 1 mV/m contour

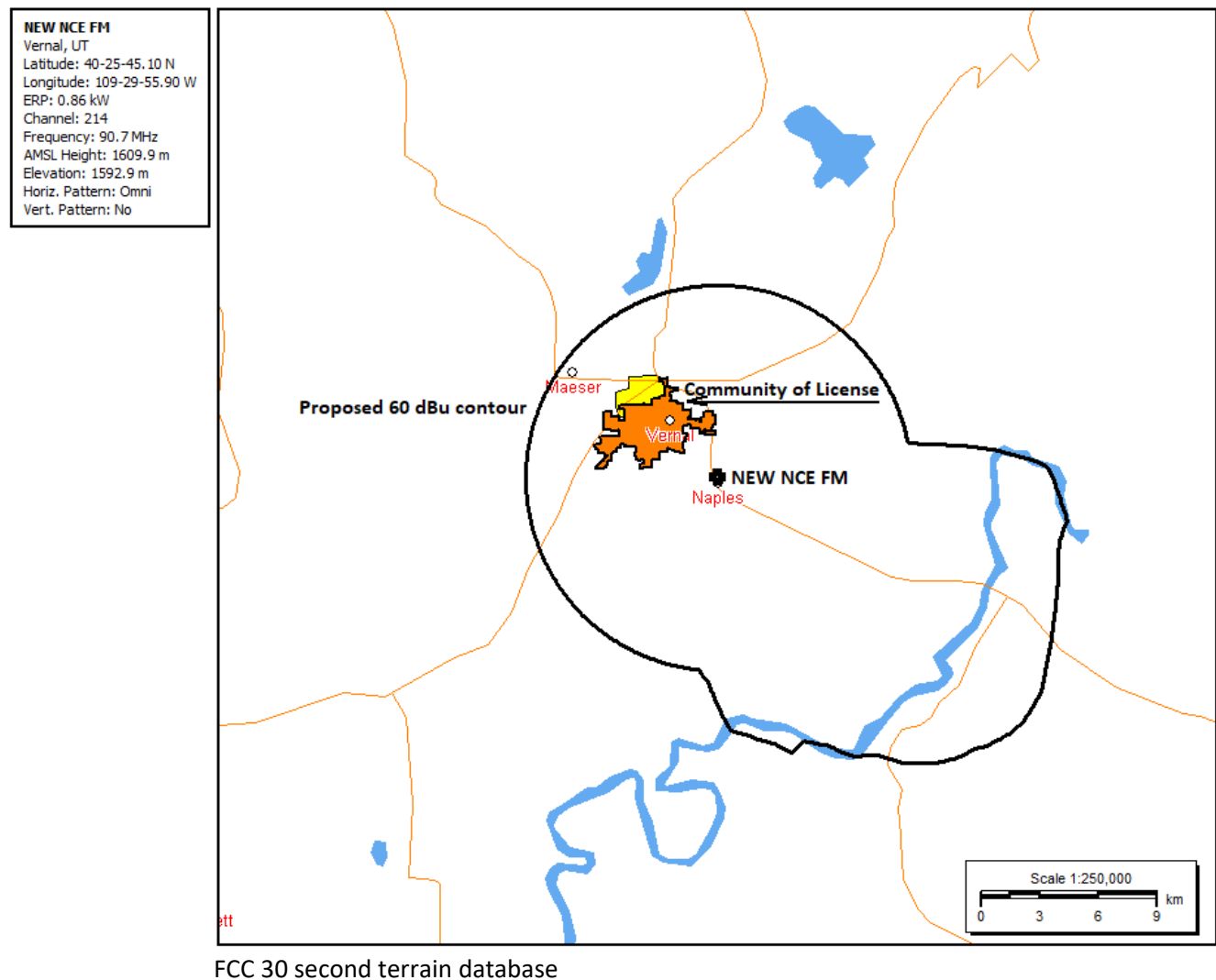
CH 214 40 25 45.1 / 109 29 55.9 0.860 kW ERP (H&V, non-DA) 1609.9 m COR AMSL -26.8 m HAAT

| Azi. | AV EL | HAAT | ERP kW | dBk | Field | 60-F5 |
|------|--------|--------|--------|-------|-------|-------|
| 000 | 1704.6 | -94.7 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 010 | 1750.4 | -140.5 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 020 | 1765.2 | -155.3 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 030 | 1698.7 | -88.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 040 | 1653.7 | -43.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 045 | 1638.3 | -28.4 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 050 | 1624.7 | -14.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 060 | 1609.5 | 0.4 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 070 | 1622.7 | -12.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 080 | 1576.3 | 33.6 | 0.8600 | -0.66 | 1.000 | 10.29 |
| 090 | 1519.1 | 90.8 | 0.8600 | -0.66 | 1.000 | 16.90 |
| 100 | 1512.6 | 97.3 | 0.8600 | -0.66 | 1.000 | 17.60 |
| 110 | 1506.7 | 103.2 | 0.8600 | -0.66 | 1.000 | 18.18 |
| 120 | 1496.2 | 113.7 | 0.8600 | -0.66 | 1.000 | 19.15 |
| 130 | 1489.4 | 120.5 | 0.8600 | -0.66 | 1.000 | 19.70 |
| 135 | 1496.5 | 113.4 | 0.8600 | -0.66 | 1.000 | 19.12 |
| 140 | 1503.4 | 106.5 | 0.8600 | -0.66 | 1.000 | 18.50 |
| 150 | 1526.3 | 83.6 | 0.8600 | -0.66 | 1.000 | 16.09 |
| 160 | 1544.1 | 65.8 | 0.8600 | -0.66 | 1.000 | 14.22 |
| 170 | 1551.4 | 58.5 | 0.8600 | -0.66 | 1.000 | 13.50 |
| 180 | 1568.5 | 41.4 | 0.8600 | -0.66 | 1.000 | 11.37 |
| 190 | 1612.5 | -2.6 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 200 | 1653.9 | -44.0 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 210 | 1668.7 | -58.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 220 | 1658.7 | -48.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 225 | 1662.8 | -52.9 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 230 | 1652.3 | -42.4 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 240 | 1652.5 | -42.6 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 250 | 1677.6 | -67.7 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 260 | 1715.3 | -105.4 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 270 | 1756.4 | -146.5 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 280 | 1792.4 | -182.5 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 290 | 1773.6 | -163.7 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 300 | 1758.2 | -148.3 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 310 | 1755.5 | -145.6 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 315 | 1747.3 | -137.4 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 320 | 1725.7 | -115.8 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 330 | 1738.1 | -128.2 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 340 | 1718.2 | -108.3 | 0.8600 | -0.66 | 1.000 | 9.79 |
| 350 | 1685.3 | -75.4 | 0.8600 | -0.66 | 1.000 | 9.79 |

FCC 30 second terrain database
(yellow highlighted values establish average HAAT)

Community of License Coverage Compliance with Section 73.515

The proposed 60 dBu contour will provide full coverage over the community of license of Vernal, UT.



The 60 dBu contour population and area were determined by the V-Soft Communications Probe 5 software program using the 2010 Census data as is indicated below:

Population Database: 2010 US Census (PL)

| | | Population | Housing Units | Area (sq. km) |
|------------------|---------------|------------|---------------|---------------|
| NEW NCE FM (214) | [Vernal, 1] | | | |
| F(50-50) | 60.00 dBu | 24,927 | 9,088 | 467.6 |

Allocation Study

CH 214 40 25 45.1 / 109 29 55.9 0.860 kW ERP (H&V, non-DA) 1609.9 m COR AMSL -26.8 m HAAT

| CH | CALL | TYPE | AZI. | DIST | LAT. | Pwr (kW) | INT (km) | PRO (km) | *IN* | *OUT* |
|------|------|-------|------|--------|------|----------|----------|----------|-----------------|-------|
| CITY | | STATE | <-- | FILE # | LNG. | HAAT (M) | COR (M) | LICENSEE | (Overlap in km) | |

Co-channel, 1st, 2nd, & 3rd adjacent channel relationships:

| | | | | | | | | | | |
|------------------|------|-----|-------|-----------------|-----------------|--------|-------|-----------------------|------|------|
| 213C | KBJF | CP | 247.9 | 192.23 | 39 45 36.90 | 75.000 | 142.5 | 97.3 | 39.9 | 81.0 |
| Saratoga Springs | UT | | 66.5 | BPED20180308AAB | 111 34 40.70 | 657 | 2789 | CSN International | | |
| 213C | KBJF | LIC | 247.9 | 192.23 | 39 45 36.90 | 75.000 | 142.5 | 97.3 | 39.9 | 81.0 |
| Nephi | UT | | 66.5 | BLED20111215ABI | 111 34 40.70657 | | 2789 | CSN International | | |
| 213C0 | KUWZ | LIC | 15.8 | 115.31 | 41 25 38.80 | 35.000 | 98.6 | 67.3 | 7.0 | 34.1 |
| Rock Springs | WY | | 196.0 | BLED20060213ADF | 109 07 19.40 | 512 | 2680 | University of Wyoming | | |

I.F. relationships:

N/A

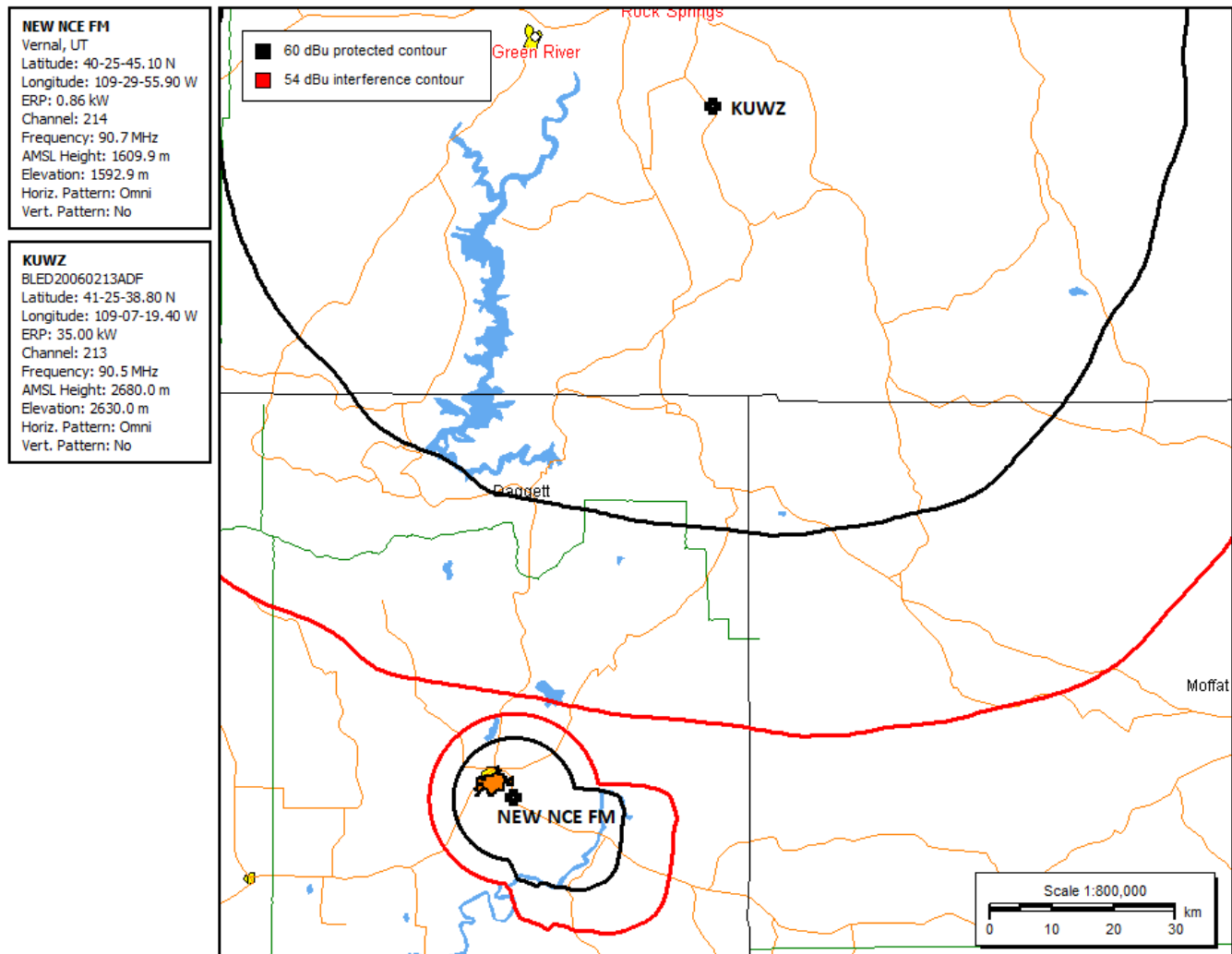
Channel 6 TV Protection

Per Section 73.525(a)(1), NCE-FM stations operating on CH 214 must provide protection to TV Channel 6 broadcast stations located within a distance of 187 km. There are no TV Channel 6 broadcast stations within 187 km of the proposed location of the new NCE FM, therefore it is in full compliance with all provisions of Section 73.525 with regard to Channel 6 TV protection.

FCC 30 second terrain database

Allocation Study

Below is a map demonstrating the lack of prohibited overlap between the proposed new NCE FM and KUWZ (licensed), CH 213, Rock Springs, WY.



Environmental Impact & RFR Compliance Statement

The proposed new NCE FM will be located at an established communications site that is in compliance with all environmental impact requirements.

The new NCE FM will operate with 0.860 kW ERP (H&V, non-DA) at an antenna height AGL of 17.0 meters utilizing a Nicom BKG77 1 bay antenna (EPA Type 2). Per the V-Soft RFHAZ software program, at two meters above ground the RFR is no more than 35.1% of the general population/uncontrolled MPE limit occurring at 15 meters from the base of the tower. K214AV is also located on the tower and operates with 0.205 kW ERP (H&V, non-DA) at an antenna height AGL of 17.0 meters. For a worst-case estimation at 2 meters above ground level the RFR is no more than 15.2% of the general population/uncontrolled MPE limit. The combined facilities will be no more than 50.3% of the general population/uncontrolled MPE limit, therefore the proposed new NCE FM will be in compliance with all RFR requirements.

The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.