

**ENGINEERING STATEMENT
FCC APPLICATION
Prepared For DuPage Radio, LLC
W272DQ(FM)(WCKG) Elmhurst, Illinois
Facility ID 151530 102.3 FM .250 kW
FCC Form 349-Instant Application**

- 1) Statement-Nature Of Proposal
- 2) Exhibit 1 – W272DQ License Vs.
Proposed 60 dBu Contour Overlap
- 3) Exhibit 2 – W272DQ 60 dBu And
WCKG 25 Mile Arc(Primary Station)
- 4) Exhibit 3 – W272DQ 40 dbu(50,10)
and Co Channels WXLC WYOT and
WYCA 60 dBu Contours
- 5) Exhibit 3A – W272DQ 40 dBu(50,10)
And Co-Channel WXLC 60 dBu
expanded View
- 6) Exhibit 3B – W272DQ 40 dBu(50,10)
And Co Channel WYCA 60 dBu
expanded View
- 7) Exhibit 4 – Kathrein 772501
Directional Antenna Pattern

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Nature Of Proposal

DuPage Radio, LLC("Dupage Radio") is the licensee of Translator Station W272DQ, 102.3 FM, Elmhurst, Illinois (Facility Id 151530) W272DQ is a licensed Class D FM station with authority to operate .250 kW with a facility (File number: 0000218561). WCKG AM 1530-Elmhurst is the Primary station(BL-19960524AA).

DuPage Radio herein proposes a minor change to the W272DQ, 102.3 Mhz. The instant application proposes to utilize a different antenna as the current (File number: 0000218561). DuPage is requesting a change to a Kathrein 772501 Directional Vertical/Horizontal(Circular) Polarized Antenna. Utilizing a new elevation of 1181.1 feet(360.00 Meters) Dupage Radio proposes to move the translator 19.6 Miles(31.54 km).

In this Proposed instant application DuPage Radio Requests operation at .100 kW power ERP.

Dupage Radio, LLC also requests changing the City of License to Chicago, Illinois.

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W272DQ Proposed

Coordinates:

41-53-21.0 N

87-37-36.0 W

Structure Elevation

360.00 (Meters)

1181.1 (Feet)

Height of Radiation Center Above Ground

360.00(meters)

1181.10(Feet)

**Height of Radiation Center Above Mean
Sea Level**

542.00(meters)

1778.21 (Feet)

Antenna

Directional Antenna

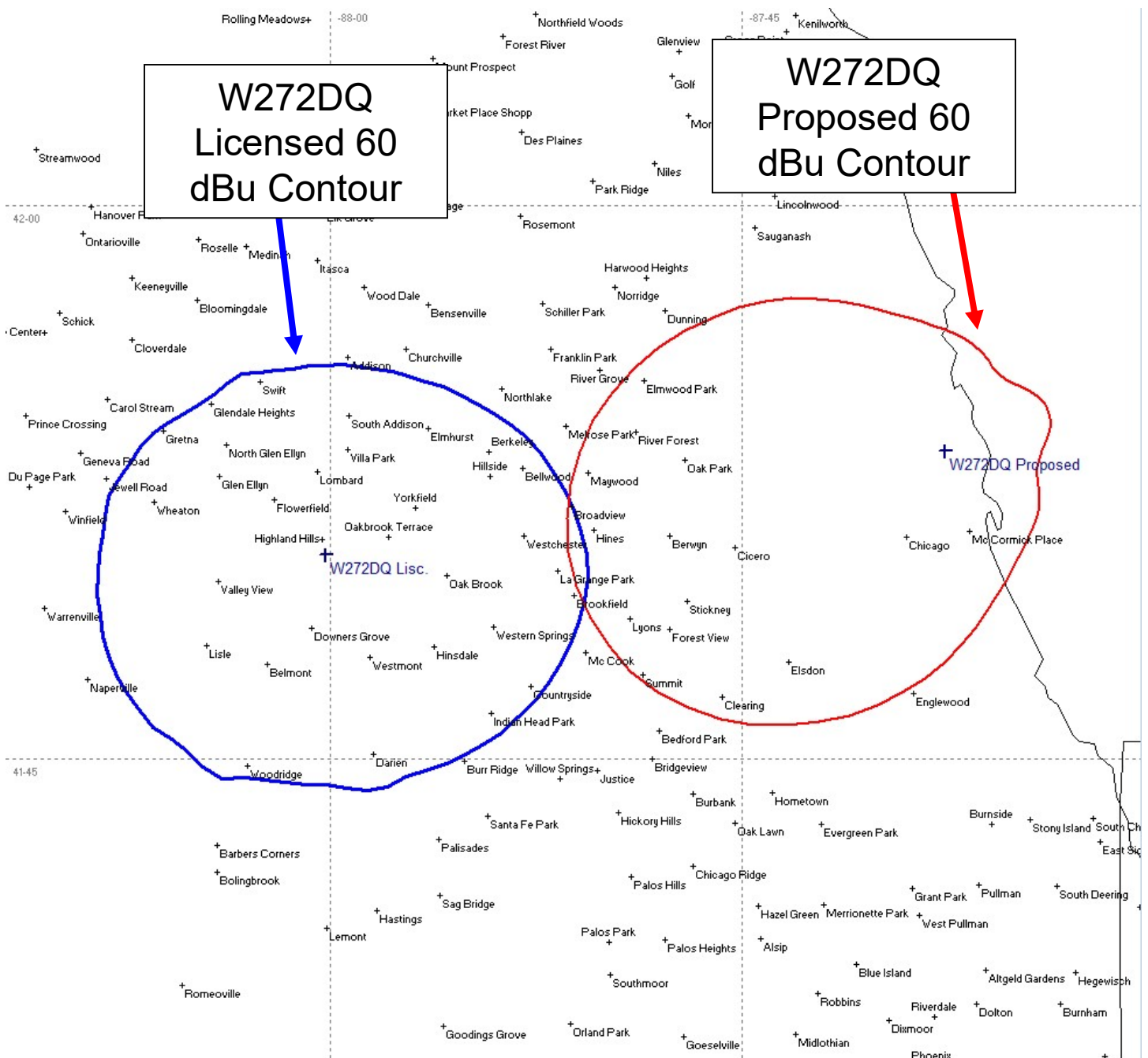
Kathrein 772501

Power:

100 Watts ERP

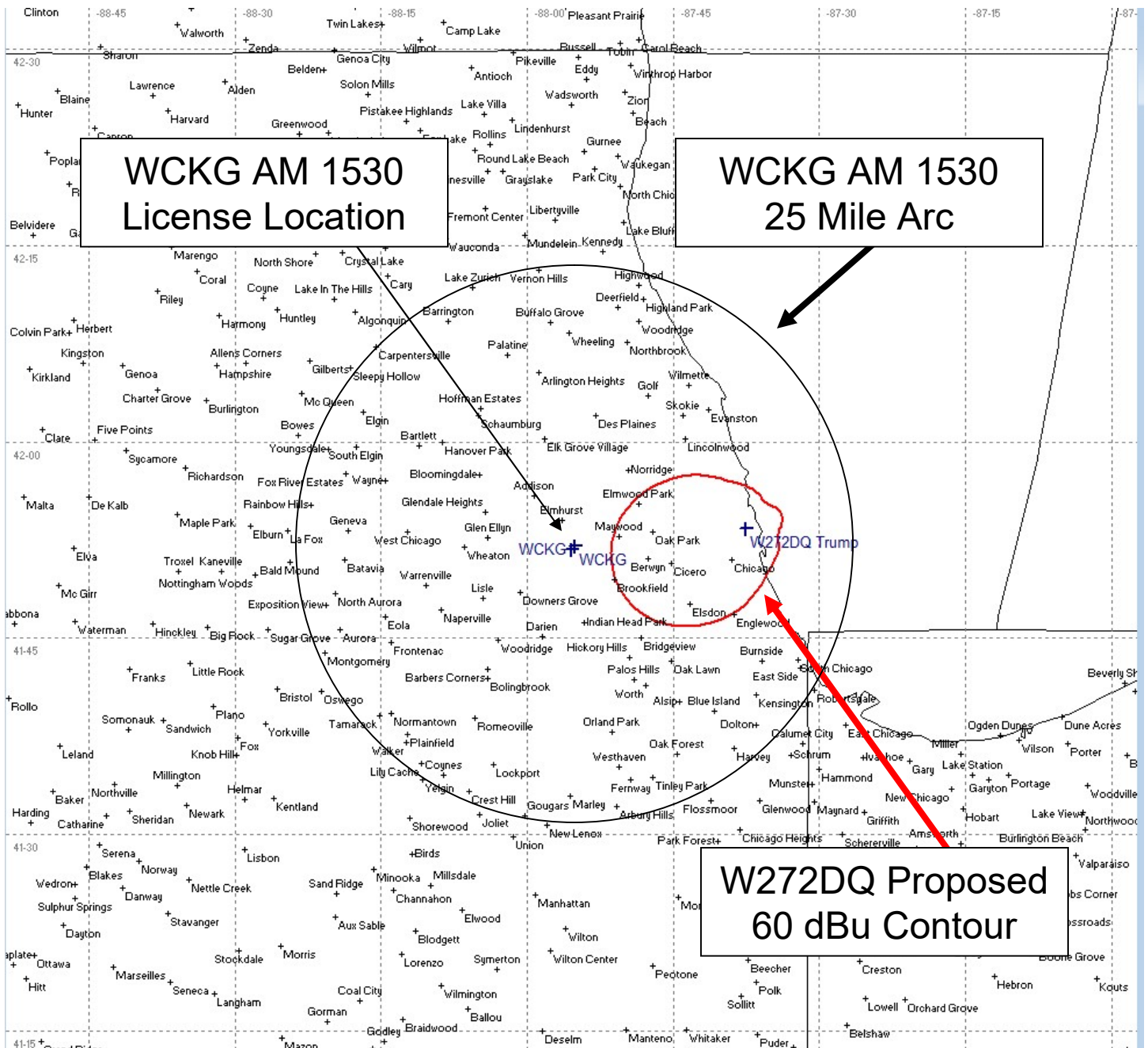
ENGINEERING EXHIBIT 1
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60 DBu Overlaps - License Vs. Proposed



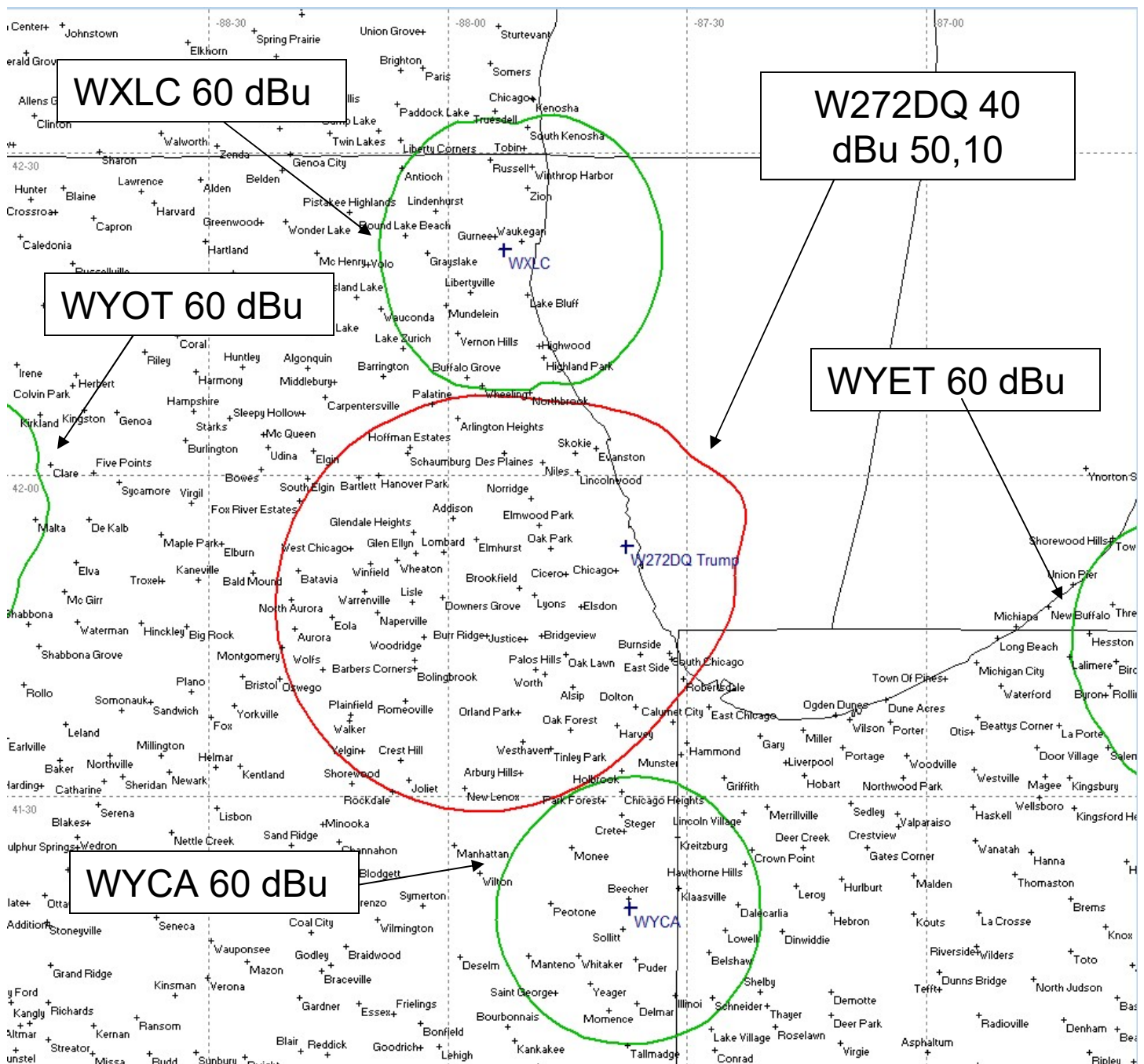
ENGINEERING EXHIBIT 2
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60 DBu W272DQ FM 102.3 - 25 Mile Arc WCKG AM 1530
(Primary Station)



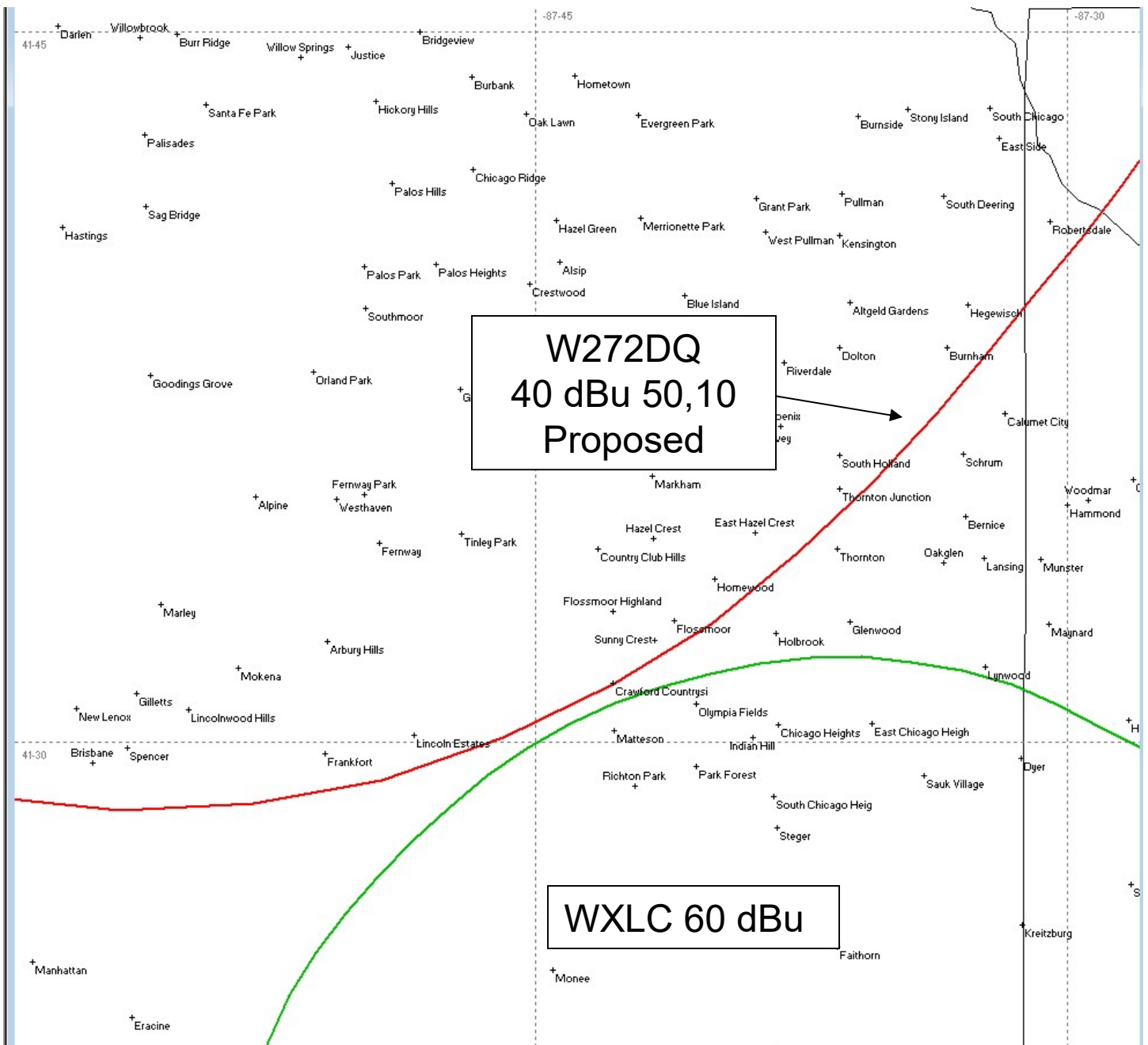
ENGINEERING EXHIBIT 3
FCC APPLICATION
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Facility ID 151530 102.3 FM .250 kW
FCC Form 349

Co Channel Study
WXLC, WYOT, WYCA, and WYET



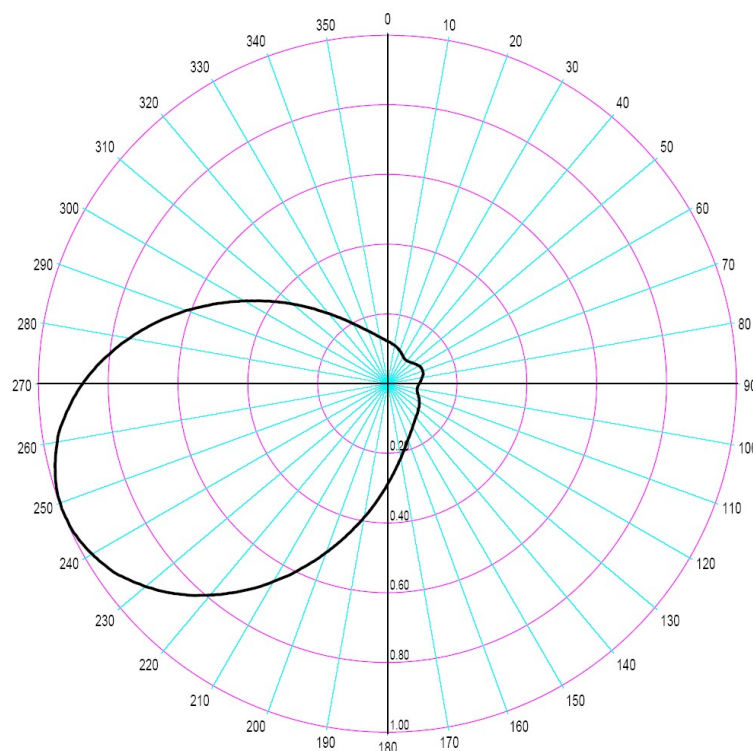
ENGINEERING EXHIBIT 3A
FCC APPLICATION
Prepared For Dupage Radio, LLC
W272DQ(FM)(WCKG) Elmhurst, Illinois
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FCC Form 349

Co Channel Study
WXLC Expanded View



ENGINEERING EXHIBIT 4
FCC APPLICATION
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Facility ID 151530 102.3 FM .250 kW
FCC Form 349

Kathrein 772501 Antenna Pattern
W272DQ Frequency 102.3 MHz
6.5 Db Gain-Vertical/Horizontal - Circular Polarized



| Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk |
|------|--------|---------|---------|-------|--------|---------|---------|-------|--------|---------|---------|-------|--------|---------|---------|
| 0.0 | 0.123 | 1.514 | -28.199 | 90.0 | 0.090 | 0.810 | -30.913 | 180.0 | 0.287 | 8.242 | -20.840 | 270.0 | 0.874 | 76.431 | -11.167 |
| 5.0 | 0.117 | 1.370 | -28.634 | 95.0 | 0.087 | 0.757 | -31.207 | 185.0 | 0.335 | 11.229 | -19.497 | 275.0 | 0.817 | 66.787 | -11.753 |
| 10.0 | 0.112 | 1.255 | -29.013 | 100.0 | 0.086 | 0.740 | -31.308 | 190.0 | 0.389 | 15.141 | -18.199 | 280.0 | 0.751 | 56.432 | -12.485 |
| 15.0 | 0.107 | 1.146 | -29.410 | 105.0 | 0.088 | 0.775 | -31.108 | 195.0 | 0.449 | 20.172 | -16.953 | 285.0 | 0.684 | 46.812 | -13.296 |
| 20.0 | 0.101 | 1.021 | -29.911 | 110.0 | 0.093 | 0.865 | -30.628 | 200.0 | 0.515 | 26.538 | -15.761 | 290.0 | 0.615 | 37.844 | -14.220 |
| 25.0 | 0.095 | 0.903 | -30.443 | 115.0 | 0.099 | 0.981 | -30.085 | 205.0 | 0.584 | 34.125 | -14.669 | 295.0 | 0.543 | 29.502 | -15.302 |
| 30.0 | 0.089 | 0.793 | -31.010 | 120.0 | 0.105 | 1.103 | -29.574 | 210.0 | 0.655 | 42.927 | -13.673 | 300.0 | 0.475 | 22.575 | -16.464 |
| 35.0 | 0.086 | 0.740 | -31.308 | 125.0 | 0.110 | 1.211 | -29.170 | 215.0 | 0.725 | 52.593 | -12.791 | 305.0 | 0.413 | 17.067 | -17.679 |
| 40.0 | 0.086 | 0.740 | -31.308 | 130.0 | 0.114 | 1.300 | -28.859 | 220.0 | 0.791 | 62.604 | -12.034 | 310.0 | 0.356 | 12.681 | -18.969 |
| 45.0 | 0.089 | 0.793 | -31.010 | 135.0 | 0.120 | 1.441 | -28.414 | 225.0 | 0.852 | 72.632 | -11.389 | 315.0 | 0.306 | 9.369 | -20.283 |
| 50.0 | 0.093 | 0.865 | -30.628 | 140.0 | 0.126 | 1.589 | -27.990 | 230.0 | 0.905 | 81.949 | -10.865 | 320.0 | 0.263 | 6.921 | -21.598 |
| 55.0 | 0.098 | 0.961 | -30.173 | 145.0 | 0.133 | 1.770 | -27.520 | 235.0 | 0.949 | 90.112 | -10.452 | 325.0 | 0.228 | 5.201 | -22.839 |
| 60.0 | 0.103 | 1.062 | -29.741 | 150.0 | 0.143 | 2.046 | -26.891 | 240.0 | 0.977 | 95.507 | -10.200 | 330.0 | 0.200 | 4.002 | -23.977 |
| 65.0 | 0.107 | 1.146 | -29.410 | 155.0 | 0.155 | 2.404 | -26.191 | 245.0 | 0.996 | 99.258 | -10.032 | 335.0 | 0.178 | 3.170 | -24.989 |
| 70.0 | 0.107 | 1.146 | -29.410 | 160.0 | 0.170 | 2.892 | -25.389 | 250.0 | 0.998 | 99.657 | -10.015 | 340.0 | 0.161 | 2.594 | -25.861 |
| 75.0 | 0.106 | 1.124 | -29.491 | 165.0 | 0.191 | 3.650 | -24.377 | 255.0 | 0.986 | 97.275 | -10.120 | 345.0 | 0.148 | 2.192 | -26.592 |
| 80.0 | 0.100 | 1.001 | -29.998 | 170.0 | 0.217 | 4.712 | -23.268 | 260.0 | 0.961 | 92.405 | -10.343 | 350.0 | 0.137 | 1.878 | -27.263 |
| 85.0 | 0.095 | 0.903 | -30.443 | 175.0 | 0.248 | 6.154 | -22.108 | 265.0 | 0.923 | 85.242 | -10.693 | 355.0 | 0.128 | 1.639 | -27.853 |