

EXHIBIT 16
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CRITICAL HOURS INTERFERENCE STUDY
WCBM Maryland, Inc.
Baltimore, MD

There are two domestic Class A stations operating 680 kHz which require additional protection consideration during critical hours. These stations are KBRW - Barrow, Alaska and KNBR - San Francisco, California. It should be noted that KBRW is too far removed from WCBM to require protection consideration during critical hours. Table 16.0 presents the projection of the 0.1 mV/m groundwave contour for KNBR. This contour was projected using conductivity data extracted from FCC Figure M3. This contour is depicted in Figure 16.0. Also shown in this figure are fifteen points, labeled A through N, located along the perimeter of this contour. Table 16.1 presents a tabulation of the bearing, distance, critical hours radiation limits, and proposed WCBM radiation toward each of these points. As can be seen from this table, the proposed WCBM day-time facilities will easily provide the required protection to KNBR during critical hours, as required by Section 73.187 of the FCC Rules.

TABLE 16.0

KNBR 0.1 mV/m DAYTIME
GROUNDWAVE CONTOUR

WCBM Maryland, Inc.
Baltimore, MD

| <u>Azimuth (Degrees)</u> | <u>Radiation (mV/m at 1 km)</u> | <u>Conductivities (mmhos/m/ending distance(km))</u> | <u>0.1 mV/m Contour (km)</u> |
|------------------------------|-------------------------------------|----------------------------------------------------------------------------------|--------------------------------------|
| 335 | 2560.4 | 8/0.2, 5000/30, 8/31.1, 5000/51.4, 30/178.1, 8/209.1, 4/399, 5000 | 504.89 |
| 340 | 2560.4 | 8/0.2, 500/45.3, 30/49.1, 5000/64.2, 30/116.4, 8/210.1, 4 | 420.91 |
| 345 | 2560.4 | 8/0.2, 5000/26.9, 30/30.9, 5000/39.8, 30/50.4, 5000/68.4, 30/70.1, 8/212.8, 4 | 405.23 |
| 350 | 2560.4 | 8/0.2, 5000/23.9, 30/52.2, 5000/71.5, 8/223.9, 4 | 407.91 |
| 355 | 2560.4 | 8/0.2, 5000/21.7, 30/30.3, 15/54.4, 8/66.8, 5000/67.3, 8/328.8, 4 | 417.97 |
| 0 | 2560.4 | 8/0.2, 5000/19.9, 30/25, 15/56.5, 8/145.4, 30/251, 8/346.5, 4 | 464.56 |
| 5 | 2560.4 | 8/0.2, 5000/18.6, 30/21.5, 15/59.2, 8/116.2, 30/250.6, 8/344.2, 4/473.3, 8 | 478.44 |
| 10 | 2560.4 | 8/0.2, 5000/17.6, 30/18.9, 15/58.6, 8/88.2, 30/199.2, 15/238, 8/291.3, 4 | 466.47 |
| 15 | 2560.4 | 8/0.2, 5000/16.7, 30/17, 15/58.7, 30/174.4, 15/238.9, 8/284.2, 4 | 471.28 |
| 20 | 2560.4 | 8/0.2, 5000/14.9, 30/15.9, 15/59.9, 30/159.5, 15/216.3, 8/306.3, 4 | 468.66 |
| 25 | 2560.4 | 8/0.2, 5000/13.1, 30/15.1, 15/61.5, 30/145.4, 15/193.5, 8 | 489.77 |
| 30 | 2560.4 | 8/0.2, 5000/11.8, 30/14.6, 15/63.7, 30/133.8, 15/178.2, 8 | 482.09 |
| 35 | 2560.4 | 8/0.2, 5000/10.8, 30/14.1, 15/66.7, 30/124.8, 15/168, 8 | 476.42 |
| 40 | 2560.4 | 8/0.2, 5000/10, 30/13.8, 15/70.4, 30/115.3, 15/160, 8/351.5, 4 | 454.28 |

TABLE 16.0 (cont'd)

| <u>Azimuth (Degrees)</u> | <u>Radiation (mV/m at 1 km)</u> | <u>Conductivities (mmhos/m/ending distance (km))</u> | <u>0.1 mV/m Contour (km)</u> |
|------------------------------|-------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------|
| 45 | 2560.4 | 8/0.2, 5000/9.4, 30/13.6, 15/75.3, 30/107.4, 15/152.1, 8/319.3, 4 | 444.36 |
| 50 | 2560.4 | 8/0.2, 5000/9, 30/13.5, 15/81.5, 30/101.1, 15/146, 8/204.6, 2/245.5, 8/315.5, 4 | 415.19 |
| 55 | 2560.4 | 8/0.2, 5000/8.6, 30/13.6, 15/93, 30/96.3, 15/141.4, 8/195.4, 2/265.1, 8/334.2, 4 | 399.83 |
| 60 | 2560.4 | 8/0.2, 5000/8.3, 30/13.7, 15/139.1, 8/190.1, 2/263.1, 4/287, 8/325, 4 | 390.87 |
| 65 | 2560.4 | 8/0.2, 5000/8.2, 30/13.9, 15/138.5, 8/187.4, 2/261.4, 4 | 383.41 |
| 70 | 2560.4 | 8/0.2, 5000/8.2, 30/14.3, 15/138.9, 8/189.1, 2/261.8, 4 | 384.45 |
| 75 | 2560.4 | 8/0.2, 5000/8.3, 30/14.8, 15/143.9, 8/194.5, 2/266.7, 4 | 387.60 |
| 80 | 2560.4 | 8/0.2, 5000/8.4, 30/15.4, 15/150.7, 8/204.4, 2/275.7, 4 | 392.66 |
| 85 | 2560.4 | 8/0.2, 5000/8.6, 30/16.2, 15/160.4, 8/215.2, 2/288, 4 | 398.09 |
| 90 | 2560.4 | 8/0.2, 5000/8.9, 30/17.6, 15/174.1, 8/227.9, 2/304.7, 4 | 404.36 |
| 95 | 2560.4 | 8/0.2, 5000/9.3, 30/19.3, 15/189.4, 8/244.1, 2/329.3, 4 | 411.20 |
| 100 | 2560.4 | 8/0.2, 5000/9.9, 30/21.6, 15/207.2, 8/264.8, 2/359.8, 4 | 419.69 |
| 105 | 2560.4 | 8/0.2, 5000/10.5, 30/24.7, 15/236.1, 8/278.2, 2/386.9, 4 | 427.54 |
| 110 | 2560.4 | 8/0.2, 5000/11.3, 30/29.2, 15/69.6, 8/106.3, 15/171.8, 8/271.5, 15/289.1, 2/406, 4 | 410.81 |
| 115 | 2560.4 | 8/0.2, 5000/12.4, 30/35.9, 15/59, 8/125.1, 15/131.9, 8/271.5, 15/315.7, 2/378.9, 4 | 413.68 |

TABLE 16.0 (cont'd)

| <u>Azimuth (Degrees)</u> | <u>Radiation (mV/m at 1 km)</u> | <u>Conductivities (mmhos/m/ending distance (km))</u> | <u>0.1 mV/m Contour (km)</u> |
|------------------------------|-------------------------------------|----------------------------------------------------------|--------------------------------------|
| 120 | 2560.4 | 8/279.7, 15/318.2, 8/361, 4 | 417.02 |
| 125 | 2560.4 | 8/291.4, 15/330.1, 8/394.5, 4 | 421.16 |
| 130 | 2560.4 | 8/308.9, 15/363.7, 8/409.8, 4 | 425.08 |
| 135 | 2560.4 | 8/404.4, 4 | 416.52 |
| 140 | 2560.4 | 8/334.1, 4 | 406.92 |
| 145 | 2560.4 | 8/99.5, 15/136.5, 8/320, 4 | 414.57 |
| 150 | 2560.4 | 8/86.1, 15/161.7, 8/393.4, 5000 | 499.11 |

All conductivity data from FCC Figure M3.

WCBM PROPOSED 680KHZ
CRITICAL HOURS RADIATION
TOWARD KNBR
(Domestic Standards)

| BEARING (Degrees) | POINT ON 0.1 mV/m CONTOUR | DISTANCE TO 0.1 mV/m CONTOUR (km) | CRITICAL VERTICAL WINDOW (Degrees) | MAXIMUM WINDOW RADIATION (mV/m @ 1 km) | RADIATION LIMIT (mV/m @ 1 km) |
|----------------------|---------------------------------|--------------------------------------------|---------------------------------------------|-------------------------------------------------|-------------------------------------|
| 289.0 | A | 3754.4 | 0.0 - 0.0 | 508.0 | 13885.7 |
| 288.4 | B | 3680.2 | 0.0 - 0.0 | 518.7 | 13743.5 |
| 287.9 | C | 3599.4 | 0.0 - 0.0 | 528.1 | 13590.8 |
| 286.7 | D | 3546.8 | 0.0 - 0.0 | 551.8 | 13478.7 |
| 285.3 | E | 3525.3 | 0.0 - 0.0 | 580.6 | 13421.0 |
| 283.9 | F | 3534.4 | 0.0 - 0.0 | 609.6 | 13416.5 |
| 282.7 | G | 3534.7 | 0.0 - 0.0 | 633.8 | 13399.8 |
| 281.5 | H | 3526.4 | 0.0 - 0.0 | 656.7 | 13368.8 |
| 280.3 | I | 3525.7 | 0.0 - 0.0 | 677.8 | 13350.6 |
| 279.1 | J | 3536.4 | 0.0 - 0.0 | 696.7 | 13358.5 |
| 277.9 | K | 3559.0 | 0.0 - 0.0 | 713.1 | 13392.2 |
| 277.1 | L | 3617.4 | 0.0 - 0.0 | 722.4 | 13496.0 |
| 276.3 | M | 3669.7 | 0.0 - 0.0 | 730.4 | 13590.1 |
| 275.8 | N | 3736.4 | 0.0 - 0.0 | 734.8 | 13708.1 |
| 275.5 | O | 3806.0 | 0.0 - 0.0 | 737.1 | 13826.7 |

TABLE 16.1

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