

# WKFL Minor Change Application

06/09/06

## Exhibit 17B KFAQ Critical Hours Radiation Limitation

### KFAQ Critical Hours Study For WKFL @5kw ch

Distance KM	Azimuth	Entry Angle	Max Radiation	Actual Radiatio @ 1km
1931.4	306.3	2.7	1685.87	573.6
1943.2	307.4	2.6	1684.5	549.5
1952	308.6	2.6	1674.95	524.7
1949.4	309.7	2.6	1639.87	500.5
1949.9	310.8	2.6	1595.41	476.9
1927.2	311.9	2.7	1538.58	454.9
1906.2	312.9	2.8	1474.71	435.1
1872.6	313.6	3	1391.68	420.2
1843.6	314.3	3.2	1319.04	405.7
1812.5	315	3.4	1244.79	393.6
1776.9	315.4	3.6	1165.27	385.8
1739.9	315.6	3.9	1103.96	381.7
1702.7	315.6	4.1	1048.49	381.3
1672.9	315.5	4.4	1005.7	384.3
1626.2	314.4	4.7	947.97	405.7
1592.1	313.4	4.9	913.97	424.3
1565.2	312.4	5.1	895.35	444.1
1543.8	311.2	5.3	884.4	469
1530.8	310.6	5.4	875.25	481.1
1520.9	310.4	5.5	865.13	485.5
1511.7	310.3	5.6	854.55	487.7
1502.8	310.2	5.6	844.16	489.7
1494.3	310.1	5.7	834.74	492.7
1487	309.9	5.8	827.63	497.4
1481.1	309.6	5.8	823.23	503.7
1476.5	309.2	5.9	820.85	510.7
1470.8	309	5.9	815.58	515.2
1466.1	308.8	5.9	811.95	520.4
1461.1	308.6	6	807.61	525.1
1456.2	308.3	6	803.36	529.9
1452.7	308.1	6.1	801.48	535.5
1449.8	307.8	6.1	800.31	541.3
1442.3	307.6	6.2	794.48	545.5

1438.2	307.3	6.2	793.36	551.4
1429.6	307.1	6.3	787.39	556.8
1408	306.8	6.5	767.68	562
1378.8	306.4	6.7	740.85	570.5
1356.7	305.8	6.9	722.79	583.7
1342.7	305.1	7.1	714.26	599.8
1321.7	304.1	7.3	699.46	621.2
1291.4	302.7	7.6	675.96	652.1
1287.9	301.5	7.6	682.55	678.3
1288.1	300.3	7.6	694.61	706
1297.8	299.2	7.5	717.67	729.8
1310.8	298.2	7.4	744.98	752.2
1326.1	279.3	7.2	775.44	773.9
1336.7	295.9	7.1	805.77	805.7
1352.1	294.4	7	843.73	837.5
1373.5	293.2	6.8	889.05	865.9
1402.4	292.6	6.5	936.33	880.4
1433.6	292.2	6.2	982.77	889.3
1465.8	291.9	6	1041.17	895.9
1498.7	291.9	5.7	1107.14	897.6
1531.2	292.1	5.4	1166.45	894
1568.1	291.5	5.1	1247.3	905.7
1601.4	291.9	4.9	1301.43	898.7
1631	292.6	4.7	1355.13	883.8
1659.9	293.2	4.4	1412.17	870.1
1686.8	293.9	4.3	1458.89	854.3
1706.8	294.9	4.1	1479.56	832.1
1718.4	296.1	4	1473.28	804.4
1740.7	296.8	3.9	1504.83	789.1
1765.1	297.4	3.7	1541.1	775.4
1789.5	298	3.6	1583.97	760.9
1816.8	298.6	3.4	1636.08	747
1839.1	299.4	3.3	1669.69	729.5
1858.5	300.3	3.1	1692.89	710.4
1877.3	301.1	3	1711.41	690.6
1891.5	302.1	2.9	1716.58	669.1
1907.9	303	2.8	1726.43	647.7
1913.5	304.1	2.8	1709.4	624.4
1914.2	305.1	2.8	1682.02	601
1929.4	306.1	2.7	1687.07	578.3

Closest Radiation to KFAQ 0.1mv/m contour is 305.4 degrees tn