

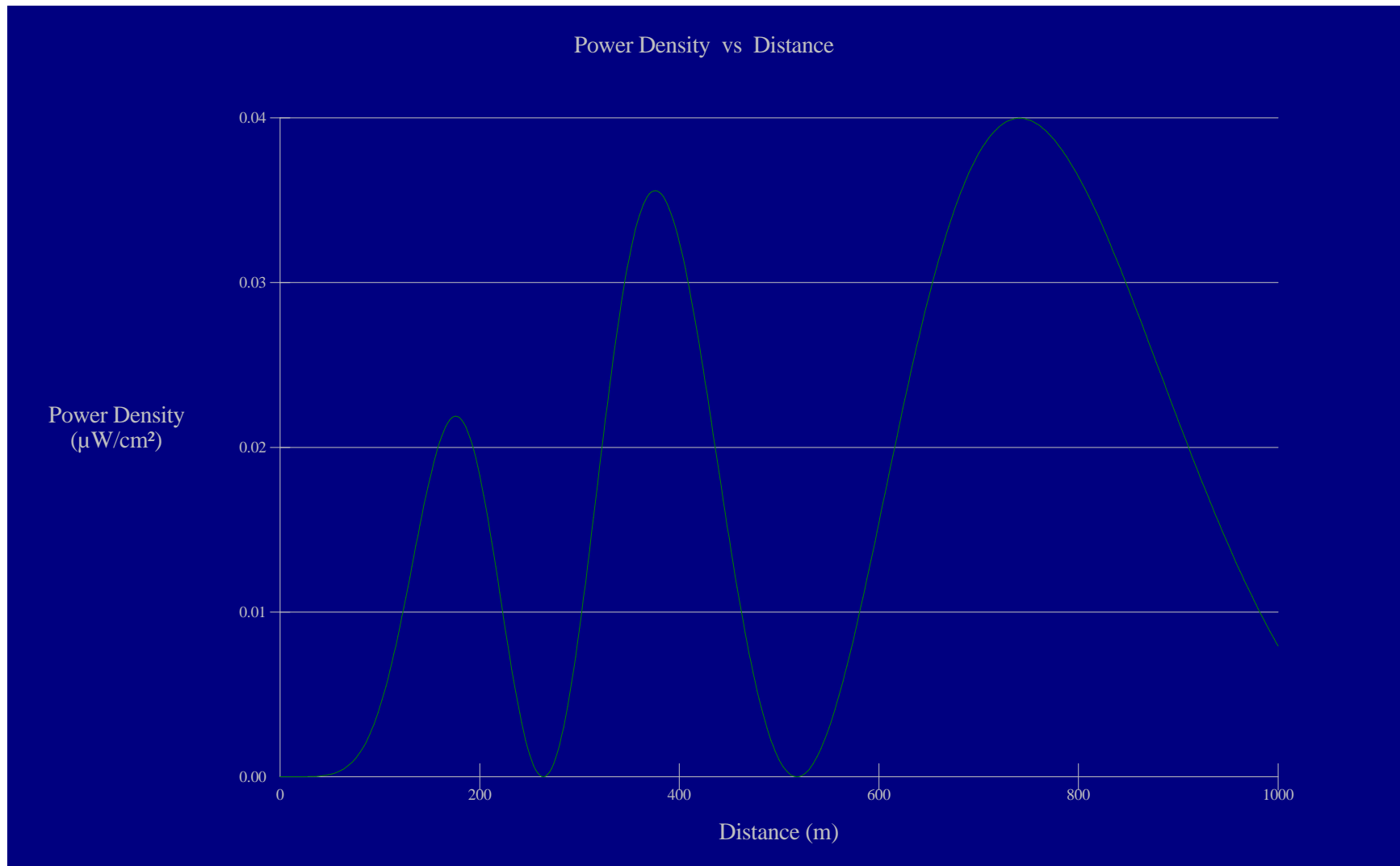
**ENVIRONMENTAL AND TECHNICAL EXHIBIT
TICHENOR LICENSE CORPORATION
MINOR MODIFICATION TO BPH-20070914ACP
KAMA (FM) FACILITY ID# 57806**

PURPOSE OF APPLICATION

Tichenor License Corporation (Tichenor) is submitting this minor modification to the pending application to specify different antenna configuration for the two facilities for a common, combined antenna. The revised antenna greatly reduces the power density figure from this facility at two meters above ground level. No alteration of the structure will occur other than the replacement of the KLTN / KAMA main antenna. This modification will increase the height above average terrain to 300 m, and reduce the effective radiated power to 8.68 kilowatts horizontal and vertical. The structure also serves as the support structure for KQUE (AM), facility ID 65309. This facility utilizes a two skirt radiator and detuning system supported by the KLTN tower. This antenna change out will not alter the radiation characteristics of KQUE.

ENVIRONMENTAL

Tichenor proposes, with this instant application to replace the existing antenna with an eight bay EPA Type 7 (DCRM) $\frac{1}{2}$ wave spaced antenna mounted with the radiation center located at 301 meters above ground level. No other alterations of the site will occur as a result of this antenna replacement. The site was studied in accordance with OET publication, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" Supplement A, Edition 97-01 to OET Bulletin 65, Edition 97-01. Using the OET FM Model software, it was determined that the maximum power density level at two meters above ground level with the antenna type specified is .0399 microwatts/cm². This power density level occurs at 740 meters from the base of the tower. This level is .02% of the maximum for general population, uncontrolled exposure level and exempts this facility from further consideration as a contributor. See the following pages for OET FM Model program data.



8680 watts horizontal and vertical

301 m above ground level

8 bay half wave "DCRM" EPA 7

Power Density at 2 meters above ground level

Distance (meters) = 1000
 Horizontal ERP (W) = 8680
 Vertical ERP (W) = 8680
 Antenna Height (m) = 301
 Antenna Type = 7 (EPA)
 Number of Elements = 8
 Element Spacing = .5
 Y-axis (Linear) = -1
 X-axis Setup = 0, 500

X (meters)	Y ($\mu\text{W}/\text{cm}^2$)
0	5.61858815881303E-31
2	2.67922056060554E-10
4	4.31943850044046E-09
6	2.20285658548313E-08
8	7.01179420484063E-08
10	1.72365412687951E-07
12	3.5978871004724E-07
14	6.70806087903795E-07
16	1.15137055110114E-06
18	1.8550751024939E-06
20	2.84322622668838E-06
22	4.18488264487672E-06
24	5.95685621334089E-06
26	8.24367170526955E-06
28	1.13988851360609E-05
30	1.54619326355257E-05
32	2.05870522694395E-05
34	2.69645166365863E-05
36	3.48046241895581E-05
38	4.43382348981706E-05
40	5.58171653988628E-05
42	6.95144263543874E-05
44	8.57242847252116E-05
46	1.04762133832536E-04
48	1.26964154493498E-04
50	1.52686751151285E-04
52	1.82305747823862E-04
54	2.18339223433195E-04
56	2.611722556495E-04
58	3.10399313764405E-04
60	3.66668376826404E-04
62	4.30655444161609E-04
64	5.0306162199567E-04
66	5.84609691237158E-04
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72	8.9157131840732E-04
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78	1.30797603415884E-03
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82	1.66469148467286E-03
84	1.87282432938165E-03
86	2.09935067997415E-03
88	2.34503060093132E-03

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990	9.04012501710262E-03
992	8.81513848550697E-03
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996	8.37363271094098E-03
998	8.15714177391229E-03
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