

**ENGINEERING EXHIBIT
SUPPORTING APPLICATION FOR CONSTRUCTION PERMIT
UNIVISION RADIO LICENSE CORPORATION
KKRG (FM)
CHANNEL 267A
FACILITY ID NUMBER: 16750
ALBUQUERQUE, NEW MEXICO**

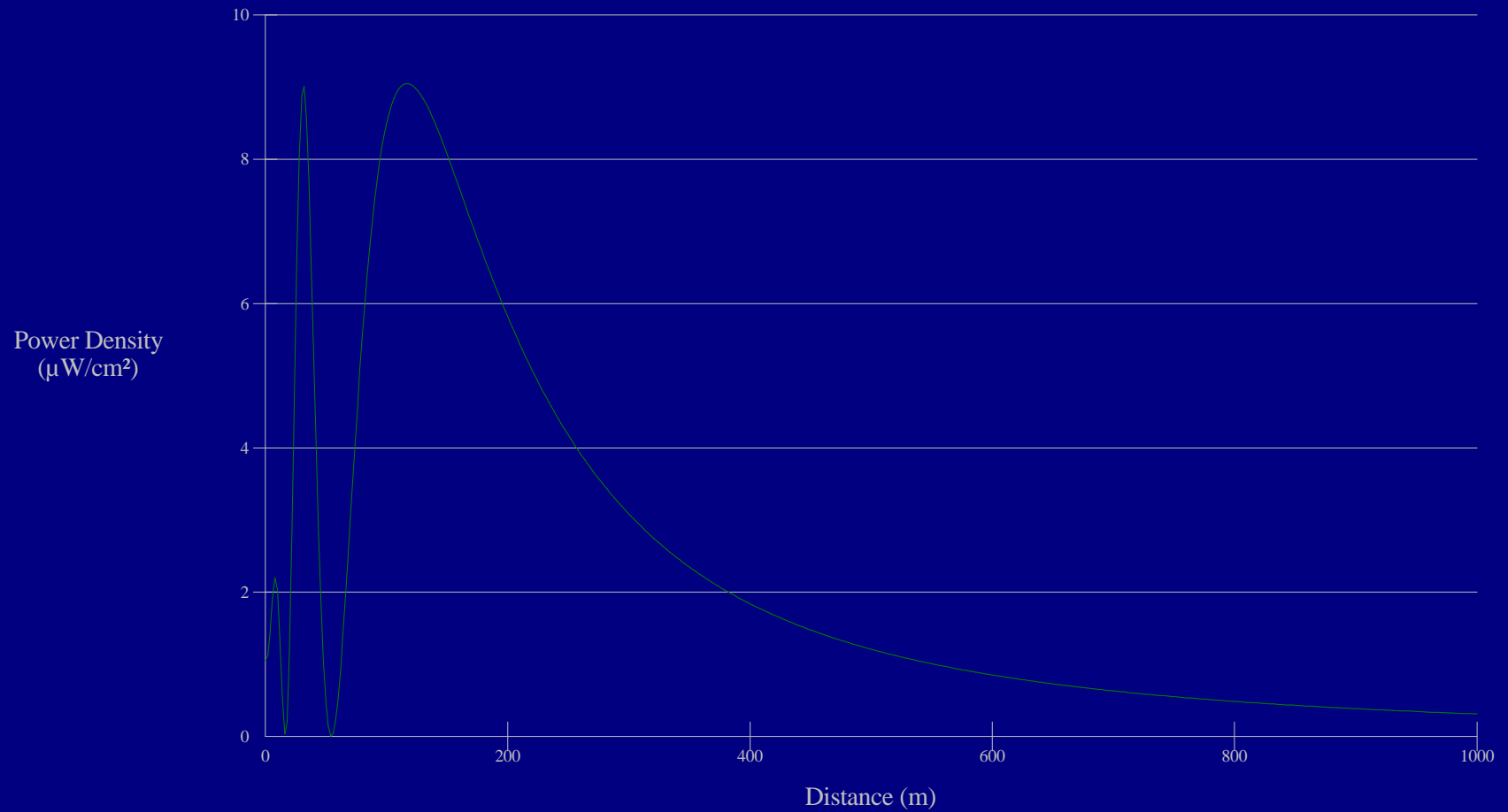
PURPOSE OF APPLICATION

Univision Radio License Corporation (Univision) seeks to make a minor change to this licensed facility. The facility is presently licensed with an effective radiated power of 3700 Watts horizontal and vertical from the coordinates 35° 04'04" N, 106° 46'47" W, NAD27, with a height above average terrain of 128 meters. Univision requests the minor change with this instant application to move the facility to the coordinates; 35°03'57" N, 106°46'58" W, NAD27. The proposed existing support structure registration number is 1058920. This site is fully spaced to all other licensees and applicants as defined by 73.207. The proposed facility will operate with 4760 watts horizontal and vertical with a radiation center of 1765 m above mean sea level. The height of average terrain was determined using three second terrain data derived from digitized USGS maps and determined to be 112.74 meters.

ENVIRONMENTAL

A grant of this application will not result in any tower construction, structure modifications, or lighting and marking changes. It is merely to add the antenna and transmission line for this facility. This is a multiple user site on a remote mesa, with one other FM, and one LP Television licensee within three kilometers of the site. The antenna utilized by KKRK will be a Dielectric 4 bay .6 wave spaced DCR type antenna, mounted at 27 meters above ground level. 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 can be determined using the EPA "DCR" (Type 7) choice appropriate for the antenna to be utilized, that the maximum power density level at two meters above ground level is 9 microwatts/centimeter² and occurs at 118 meters from the base of the tower. This is 4.5% of the maximum for general population, unrestricted exposure level, therefore exempting the facility from further study. The base of the tower is fenced. Univision feels the proposed facility complies with 1.1310. Univision will reduce power or discontinue operation in the event of maintenance on the structure or antenna. See the following pages for the data and graph from the OET FM Model program.

Power Density vs Distance



4760 watts horizontal and vertical
4 bay DCR type antenna .6 wave spaced
27 m AGL
Power Density at 2 m above ground level

Distance (meters) = 1000
 Horizontal ERP (W) = 4760
 Vertical ERP (W) = 4760
 Antenna Height (m) = 27
 Antenna Type = 7
 Number of Elements = 4
 Element Spacing = .6
 Y-axis (Linear) = -1
 X-axis Setup = 0, 500

X (meters)	Y ($\mu\text{W}/\text{cm}^2$)
0	1.05540707405567
2	1.12893249988185
4	1.45640658406082
6	1.91287747114473
8	2.20416670848799
10	2.03250294666156
12	1.37633869561019
14	.550816689473555
16	3.24405600787224E-02
18	.205563707475726
20	1.19910751380852
22	2.84971979041037
24	4.79681339060325
26	6.64316317305492
28	8.06339732307393
30	8.87819974869413
32	9.00993859772595
34	8.56979965028645
36	7.68916054761395
38	6.51244483805834
40	5.22505614243964
42	3.95463724355352
44	2.79324535324551
46	1.80540989133651
48	1.03116259798721
50	.47969241350967
52	.143973521724365
54	6.25536679292341E-03
56	4.24353828541575E-02
58	.224931098930933
60	.525830606959937
62	.918726612686406
64	1.37963891067905
66	1.88747525371726
68	2.42417085882418
70	2.97113508924473
72	3.5163403305409
74	4.05161534329086
76	4.56947325630131
78	5.06431683573104
80	5.53213459186216
82	5.97022516960632
84	6.37695360710594
86	6.75153995292302
88	7.0938788340236

90	7.40438749686715
92	7.68387933160134
94	7.93085594214242
96	8.14432208950968
98	8.33061033346719
100	8.49132561838521
102	8.62810295353842
104	8.74257496360315
106	8.83634729833513
108	8.91098041309117
110	8.96797647493
112	9.00877035996818
114	9.03472388842916
116	9.0471225971688
118	9.04717447847478
120	9.03601022172782
122	9.01468458403566
124	8.9841785899109
126	8.94540232087887
128	8.89919810568805
130	8.84634396238384
132	8.78755717646043
134	8.72349792595096
136	8.65477288576845
138	8.58193876080206
140	8.50550571098301
142	8.42555614520299
144	8.33985012011938
146	8.25199250306388
148	8.16233429655422
150	8.07119453529735
152	7.97886283659613
154	7.88560177571121
156	7.7916490929649
158	7.69721974032741
160	7.60250777581321
162	7.50768811431911
164	7.41291814362508
166	7.31833921420446
168	7.22407801129729
170	7.13024781742066
172	7.0369496731508
174	6.94427344363329
176	6.8522987978765
178	6.7610961074714
180	6.67072727096766
182	6.58124646972853
184	6.49270086069008
186	6.40513121106838
188	6.31857247969258
190	6.23305434929516
192	6.14860171376323
194	6.06523512404659
196	5.98297119613052
198	5.901822984212
200	5.82180032196794
202	5.7429101345716

204	5.66515672389805
206	5.58854202916045
208	5.51306586503511
210	5.43872613916348
212	5.36551905076332
214	5.29343927193719
216	5.22248011313454
218	5.15263367410182
220	5.08389098154386
222	5.01624211461711
224	4.94967631928166
226	4.8841821124525
228	4.81974737681199
230	4.7563594470728
232	4.69400518841442
234	4.6326710677557
236	4.57234321847012
238	4.51300749909971
240	4.45464954657668
242	4.39725482441948
244	4.34080866633041
246	4.28529631558654
248	4.2307029605826
250	4.17701376685472
252	4.12421390588606
254	4.07228858097063
256	4.02122305038816
258	3.97100264812189
260	3.92161280233183
262	3.87303905177835
264	3.8252670603745
266	3.77828263003079
268	3.7320717119425
270	3.68662041645692
272	3.64191502164667
274	3.59794198070457
276	3.55468792826606
278	3.51213968575614
280	3.47028426584992
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284	3.38860092200317
286	3.34870155019608
288	3.3091256790085
290	3.27019422078773
292	3.23189490661625
294	3.19421568949311
296	3.15714474340539
298	3.12067046207332
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302	3.04946655769259
304	3.01471480558251
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308	2.94685797295456
310	2.91373202855459
312	2.88112749873889
314	2.84903446125753
316	2.81744319261085

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322	2.72558568280536
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326	2.66668659070132
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334	2.55419144073276
336	2.52712459287966
338	2.50046478598162
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346	2.39774666011372
348	2.37301142371583
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352	2.32462580928626
354	2.30096220404929
356	2.27764281125916
358	2.25466135687008
360	2.2320116975112
362	2.20968781769633
364	2.18768382707974
366	2.16599395775863
368	2.14461256162286
370	2.12353410775237
372	2.10275317986235
374	2.08226447379642
376	2.06206279506784
378	2.04214305644851
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398	1.85740528609151
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404	1.80670948246323
406	1.79025747547342
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418	1.69597694453752
420	1.68096959926319
422	1.66615511280369
424	1.65153030343391
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