

FIGURE 4-3

ADJACENT CHANNEL WAIVER REQUEST

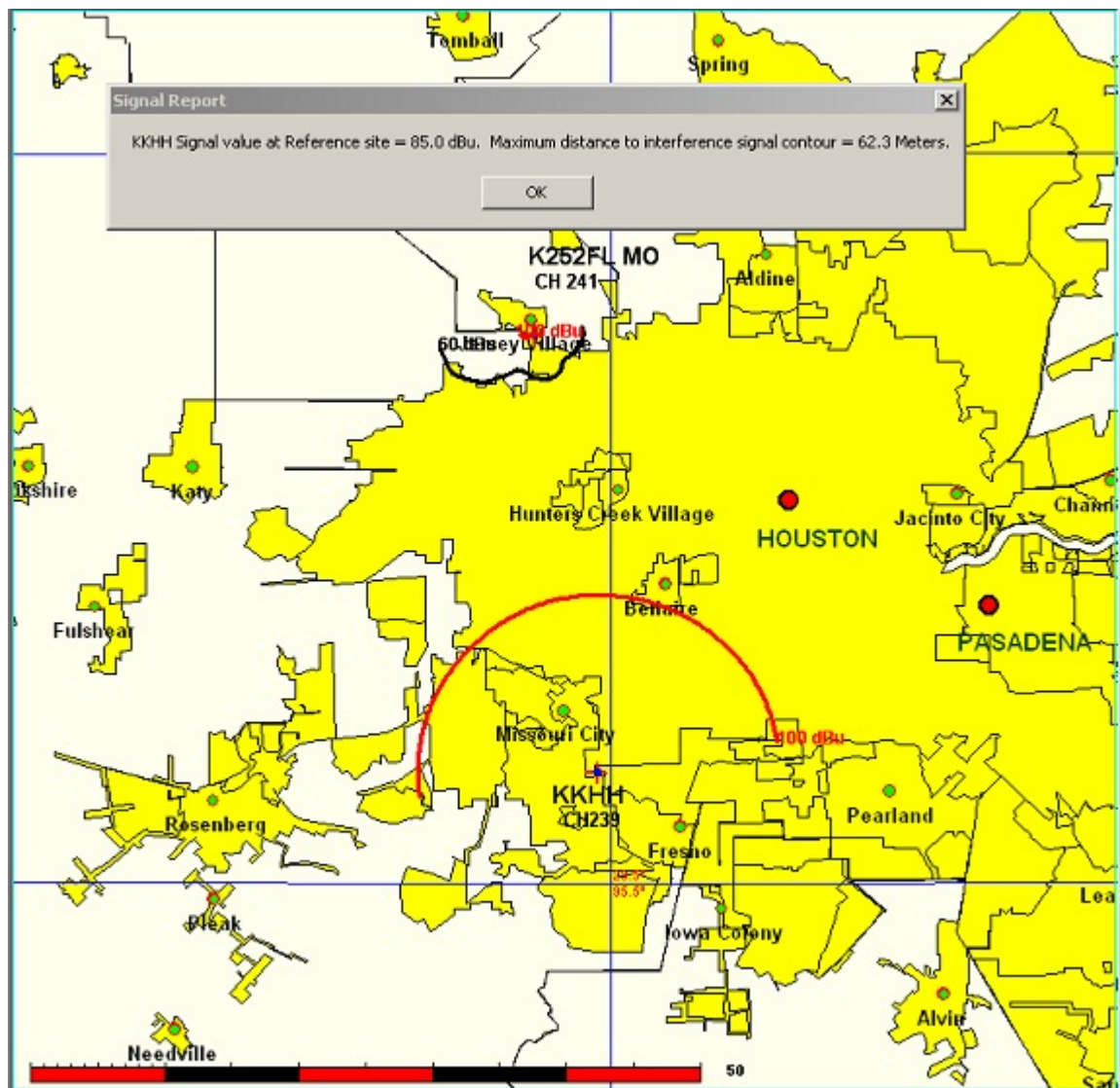
SECOND-ADJACENT CHANNEL STATION KKHH (CH. 239C)

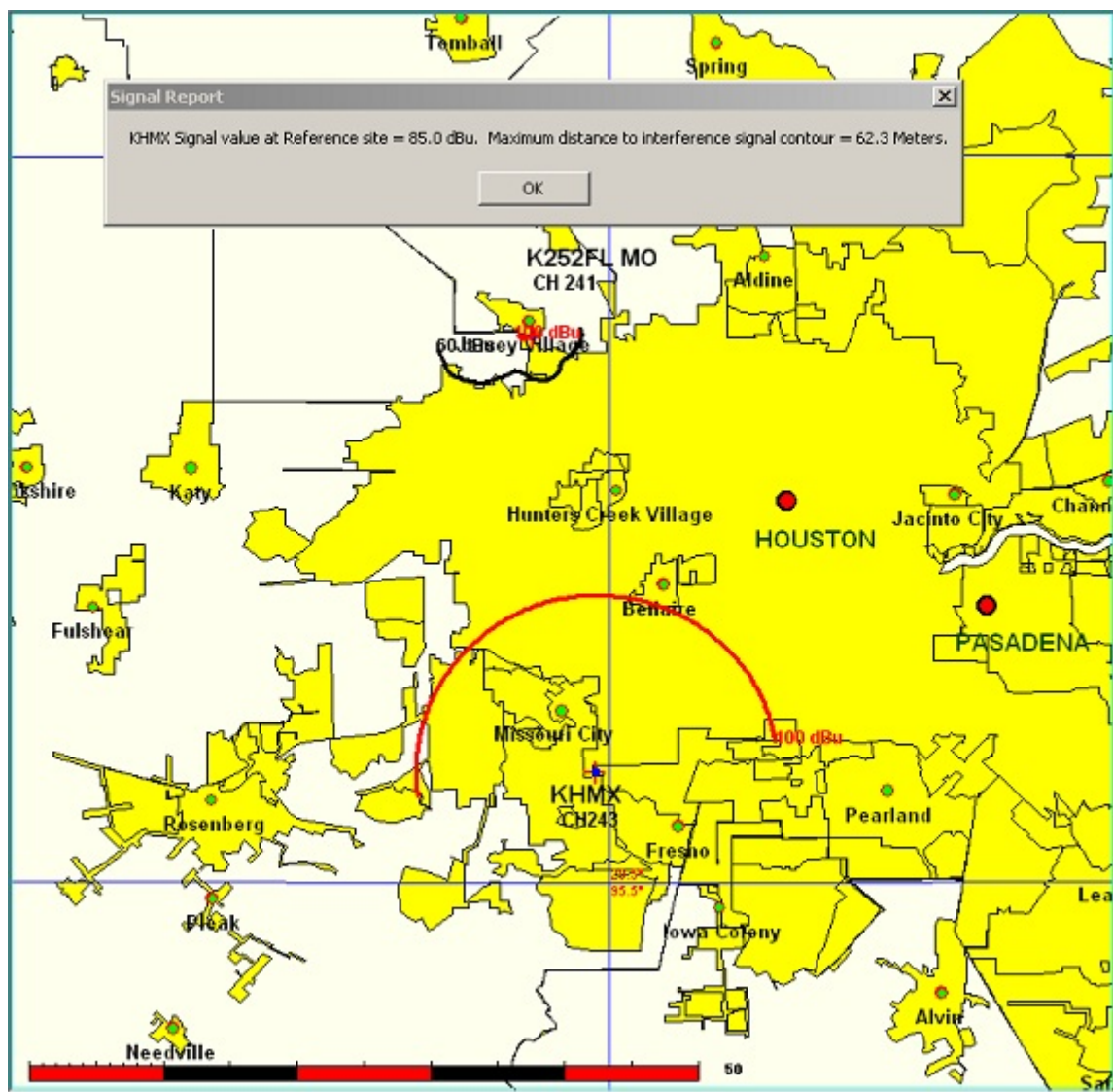
SECOND-ADJACENT CHANNEL STATION KHHX (CH. 243C)

NO POPULATION WITHIN INTERFERENCE CONTOUR

Second-Adjacent Channel Stations KKHH and KHHX each are predicted to have a signal level of 85.0 dBu at the proposed site (the reference site). The D/U (desired to undesired) signal ratio is 40 dBu. Thus, the interfering signal level from this proposal is $85.0 + 40 = 125.0$ dBu to each facility.

The map below shows the calculated predicted signal level from KKHH/KHHX at the proposed translator site, and the predicted interfering contour distance (maximum horizontal distance). KKHH/KHHX are collocated facilities with identical radiated powers and antenna heights.





As detailed on the following pages, the interference signal from this proposal does not reach the ground, or any populated or traveled areas and cannot cause interference to any populated areas when the downward radiation characteristics of the specified antenna system are used.

There are no tall building, roof tops, or other occupied spaces within the interference contour from this proposal. Thus no interference is predicted to occur to a populated area, and a grant of this waiver request is in the public interest as no harm is caused by a grant of the proposal.

Applicant believes that it has demonstrate that due to lack of population within the interference contour that it is in compliance with the Commission's rules - however, should a waiver of the rules with regards to the second and/or third-adjacent station contour overlaps be necessary it respectfully requests that said waiver be granted.

A grant is in the public interest in that it has been demonstrated that no harm will occur from a grant and that no population is at risk.

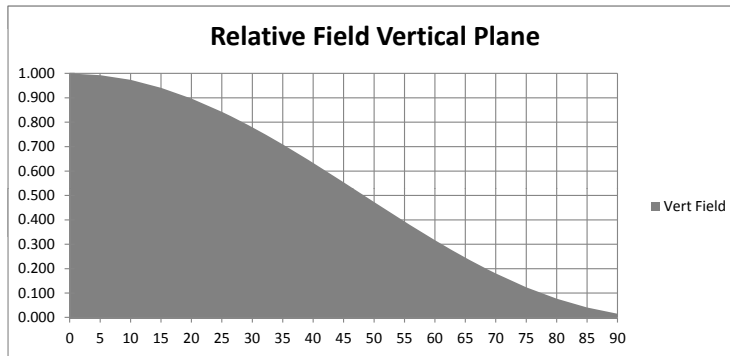
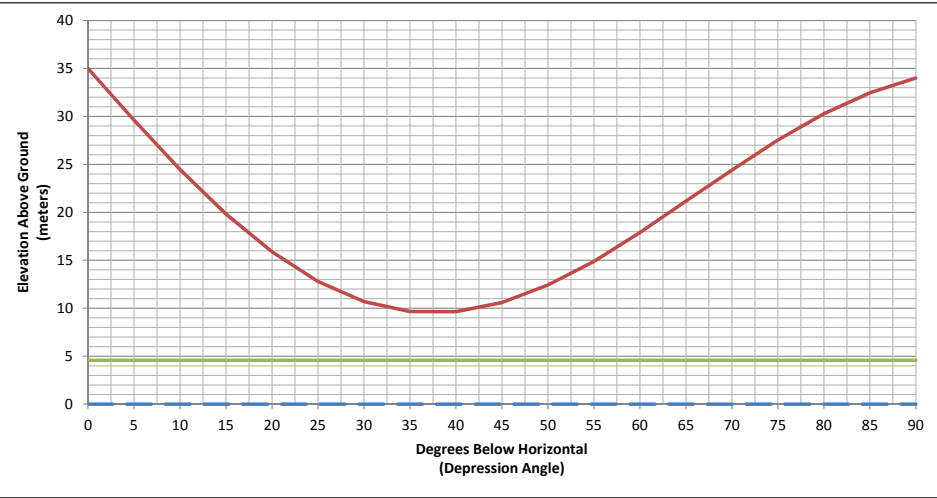
	Antenna
Manufacturer	SCA
Model	CA-5FMCUS
Number of Bays	1
Inter-Bay Spacing	FULLWAVE

Center of Radiation:	35	m AGL
Effective Radiated Power (ERP):	250	Watts
Interference Contour:	125	dBu
E Field Strength:	1.38995	V/m
Free Space Impedance:	377	Ohms
Power Density:	0.00512458	W/m ²
Maximum Free Space Distance:	62.31	meters

FIGURE 4 - WAIVER TO SECOND ADJ CHANNEL STATIONS

125 DBU
INTERFERENCE CONTOUR PLOTTED ABOVE GROUND LEVEL

DEPRESSION ANGLE	RELATIVE		ERP WATTS	IN METERS			
	FIELD	POWER		ECTOR LENG	HORIZONTAL	VERTICAL	AGL
0	1.0000	1.0000	250.00	62.31	62.31	0.00	35.00
5	0.9930	0.9860	246.51	61.87	61.64	5.39	29.61
10	0.9740	0.9487	237.17	60.69	59.76	10.54	24.46
15	0.9410	0.8855	221.37	58.63	56.63	15.17	19.83
20	0.8970	0.8046	201.15	55.89	52.52	19.12	15.88
25	0.8430	0.7106	177.66	52.52	47.60	22.20	12.80
30	0.7800	0.6084	152.10	48.60	42.09	24.30	10.70
35	0.7090	0.5027	125.67	44.18	36.19	25.34	9.66
40	0.6330	0.4007	100.17	39.44	30.21	25.35	9.65
45	0.5540	0.3069	76.73	34.52	24.41	24.41	10.59
50	0.4730	0.2237	55.93	29.47	18.94	22.58	12.42
55	0.3940	0.1552	38.81	24.55	14.08	20.11	14.89
60	0.3170	0.1005	25.12	19.75	9.88	17.11	17.89
65	0.2450	0.0600	15.01	15.27	6.45	13.83	21.17
70	0.1810	0.0328	8.19	11.28	3.86	10.60	24.40
75	0.1240	0.0154	3.84	7.73	2.00	7.46	27.54
80	0.0770	0.0059	1.48	4.80	0.83	4.72	30.28
85	0.0410	0.0017	0.42	2.55	0.22	2.54	32.46
90	0.0160	0.0003	0.06	1.00	0.00	1.00	34.00



WAREHOUSE ROOFS DO NOT EXCEED 6.1 METERS (20 FEET) IN ELEVATION
 MINIMUM ELEVATION OF INTERFERENCE CONTOUR IS 9.6 METERS (31 FEET).

