

Non-Interference Compliance

Regarding Facility id 150497

Channel 237

Description of Exhibit 13 Contents

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all of the applicable rule sections and that this application for a construction permit is in full compliance with 47 C.F.R. § 74.1204.

Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

[A]n application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

Page 3 contains a tabulation of the vertical radiation pattern of the proposed antenna and the minimum ground clearance of the interfering contour based on this pattern.

Pages 4 through 5 include a tabulation of the vertical radiation pattern for the proposed antenna provided by the antenna manufacturer.

Page 6 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 7 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using the free space equation and 120 radials.

Page 8 of this exhibit is an aerial photo of the vicinity surrounding the proposed translator's tower site.

Note: The tallest buildings within the zone of predicted interference are 20ft (6.1m) in height. This proposal provides 8.5m (27.9ft) ground clearance so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1537019	BLH20130110AFG	KFWR	61.7	61.7
1684887	BPH20150807ACE	KFWR	61.7	61.7
604926	BLH20020725AAO	KLTY	83.4	82.8
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				61.7

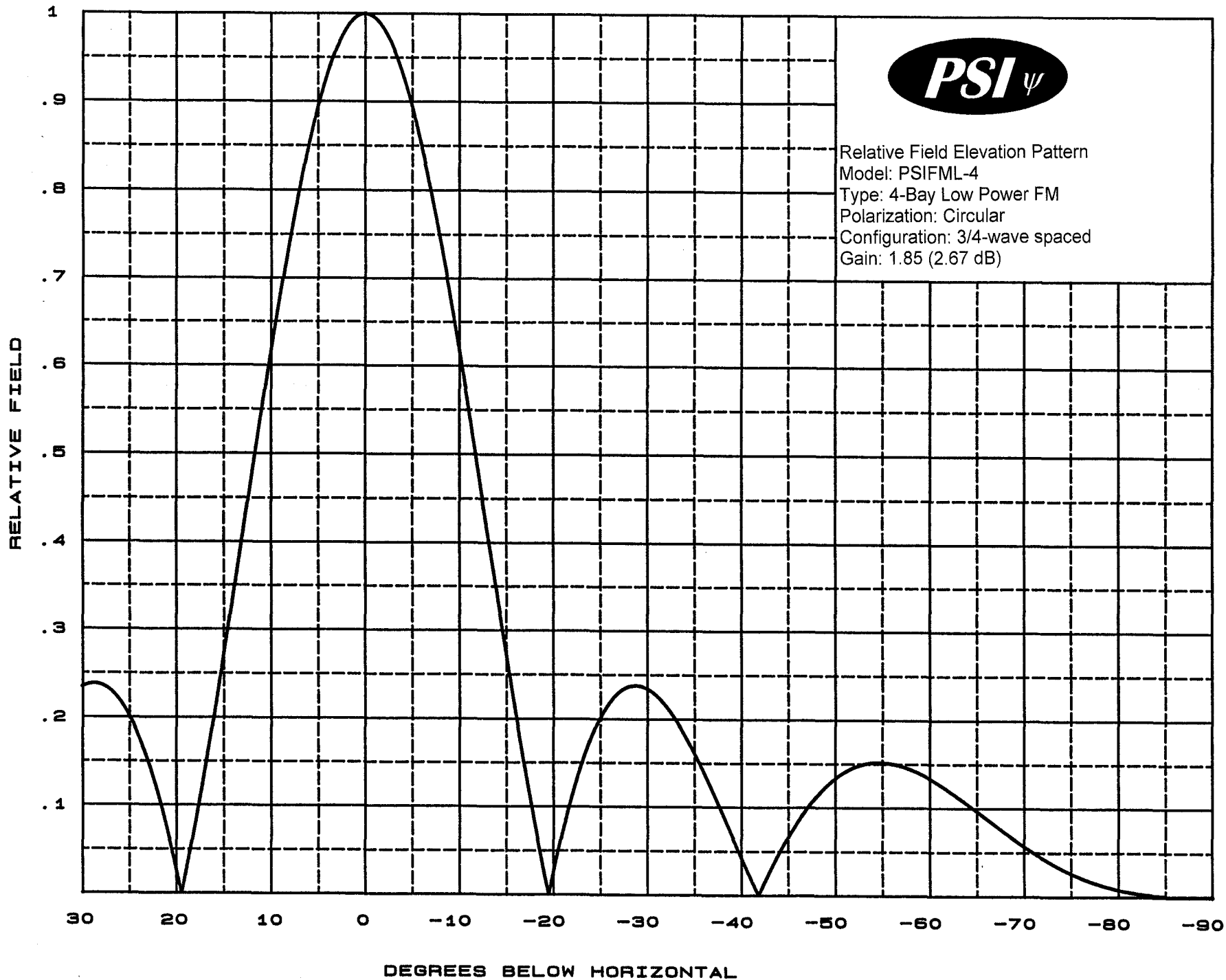
FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **61.7 dBμ**, this makes the proposed translator's worst-case interfering contour **101.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **911.9 m** from the transmit antenna.

The maximum horizontal plane of the interfering contour was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 7 of this exhibit). However, the field strength of the proposed translator's antenna varies with angle of depression from horizontal. The antenna relative fields are tabulated on the following page at 5 degree increments, starting at 5 degrees below horizontal. Antenna relative field strength data was provided and certified by the manufacturer of the proposed antenna. Using a free-space calculation that neglects any loss due to reflection, the vertical ground clearance of the proposed translator's interference contour has been tabulated. As shown on the following page, the area of interference clears the tower ground level (TGL) by **8.5 m** at the lowest point.

Note: The tallest buildings within the zone of predicted interference are 20ft (6.1m) in height. This proposal provides 8.5m (27.9ft) ground clearance so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer:	PSI
Antenna Model:	FML-4 (.75) DIR
CORAGL:	122 m
Maximum ERP:	0.25 kW
Interfering Contour:	101.7 dBμ
Max Int. Contour Distance:	911.9 m
Min Ground Clearance:	8.5 m

Depression Angle Below Horizontal	Antenna Relative Field	ERP (watts)	Distance to Interfering Contour from Antenna (m)	Horizontal Distance of Interfering Contour from Tower (m)	Vertical Clearance of Interfering Contour above TGL (m)
5	.894	199.8	815.3	812.2	50.9
10	.617	95.2	562.7	554.1	24.3
15	.272	18.5	248.0	239.6	57.8
20	.027	0.2	24.6	23.1	113.6
25	.201	10.1	183.3	166.1	44.5
30	.234	13.7	213.4	184.8	15.3
35	.161	6.5	146.8	120.3	37.8
40	.043	0.5	39.2	30.0	96.8
45	.086	1.8	78.4	55.5	66.5
50	.133	4.4	121.3	78.0	29.1
55	.152	5.8	138.6	79.5	8.5
60	.133	4.4	121.3	60.6	17.0
65	.097	2.4	88.5	37.4	41.8
70	.057	0.8	52.0	17.8	73.2
75	.027	0.2	24.6	6.4	98.2
80	.008	0.0	7.3	1.3	114.8
85	.001	0.0	0.9	0.1	121.1
90	.001	0.0	0.9	0.0	121.1
Minimum Clearance above TGL:					8.5 m





Propagation Systems Inc.
 Elevation Pattern Tabulation
 Antenna: PSIFML-4 Special
 Bay spacing: 3/4 wave

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.828	-50.0	0.133	-17.511	-10.0	0.617	-4.190
-89.0	0.001	-60.828	-49.0	0.124	-18.146	-9.0	0.682	-3.325
-88.0	0.001	-60.828	-48.0	0.112	-18.995	-8.0	0.743	-2.583
-87.0	0.001	-60.828	-47.0	0.099	-20.093	-7.0	0.799	-1.950
-86.0	0.001	-60.828	-46.0	0.083	-21.568	-6.0	0.850	-1.415
-85.0	0.001	-60.828	-45.0	0.066	-23.581	-5.0	0.894	-0.974
-84.0	0.002	-54.807	-44.0	0.047	-26.536	-4.0	0.931	-0.618
-83.0	0.003	-50.816	-43.0	0.027	-31.530	-3.0	0.961	-0.346
-82.0	0.004	-47.448	-42.0	0.004	-47.143	-2.0	0.982	-0.154
-81.0	0.006	-44.350	-41.0	0.018	-34.664	-1.0	0.996	-0.038
-80.0	0.008	-41.584	-40.0	0.043	-27.417	0.0	1.000	0.000
-79.0	0.011	-39.244	-39.0	0.067	-23.482	1.0	0.996	-0.038
-78.0	0.014	-37.021	-38.0	0.092	-20.770	2.0	0.983	-0.153
-77.0	0.018	-35.027	-37.0	0.116	-18.740	3.0	0.961	-0.345
-76.0	0.022	-33.164	-36.0	0.139	-17.134	4.0	0.931	-0.618
-75.0	0.027	-31.481	-35.0	0.161	-15.860	5.0	0.894	-0.972
-74.0	0.032	-29.946	-34.0	0.181	-14.829	6.0	0.850	-1.415
-73.0	0.037	-28.537	-33.0	0.199	-14.006	7.0	0.799	-1.948
-72.0	0.044	-27.203	-32.0	0.215	-13.370	8.0	0.743	-2.582
-71.0	0.050	-25.968	-31.0	0.226	-12.904	9.0	0.682	-3.325
-70.0	0.057	-24.841	-30.0	0.234	-12.607	10.0	0.617	-4.188
-69.0	0.065	-23.782	-29.0	0.238	-12.473	11.0	0.550	-5.193
-68.0	0.072	-22.802	-28.0	0.237	-12.517	12.0	0.481	-6.361
-67.0	0.080	-21.905	-27.0	0.230	-12.748	13.0	0.411	-7.728
-66.0	0.088	-21.078	-26.0	0.219	-13.200	14.0	0.341	-9.347
-65.0	0.097	-20.308	-25.0	0.201	-13.920	15.0	0.272	-11.305
-64.0	0.105	-19.614	-24.0	0.178	-14.983	16.0	0.205	-13.752
-63.0	0.112	-18.995	-23.0	0.149	-16.540	17.0	0.141	-16.993
-62.0	0.120	-18.427	-22.0	0.114	-18.867	18.0	0.081	-21.840
-61.0	0.127	-17.926	-21.0	0.073	-22.712	19.0	0.025	-32.147
-60.0	0.133	-17.491	-20.0	0.027	-31.431	20.0	0.027	-31.481
-59.0	0.139	-17.125	-19.0	0.025	-32.201	21.0	0.073	-22.730
-58.0	0.144	-16.827	-18.0	0.081	-21.840	22.0	0.114	-18.867
-57.0	0.148	-16.602	-17.0	0.141	-16.993	23.0	0.149	-16.540
-56.0	0.150	-16.452	-16.0	0.205	-13.752	24.0	0.178	-14.990
-55.0	0.152	-16.374	-15.0	0.272	-11.310	25.0	0.201	-13.920
-54.0	0.152	-16.391	-14.0	0.341	-9.351	26.0	0.219	-13.200
-53.0	0.150	-16.496	-13.0	0.411	-7.731	27.0	0.230	-12.748
-52.0	0.146	-16.709	-12.0	0.481	-6.364	28.0	0.237	-12.517
-51.0	0.141	-17.040	-11.0	0.550	-5.195	29.0	0.238	-12.473
						30.0	0.234	-12.607

file: FML 4-bay elevation tabulation

revision: A

Date: 1/28/08

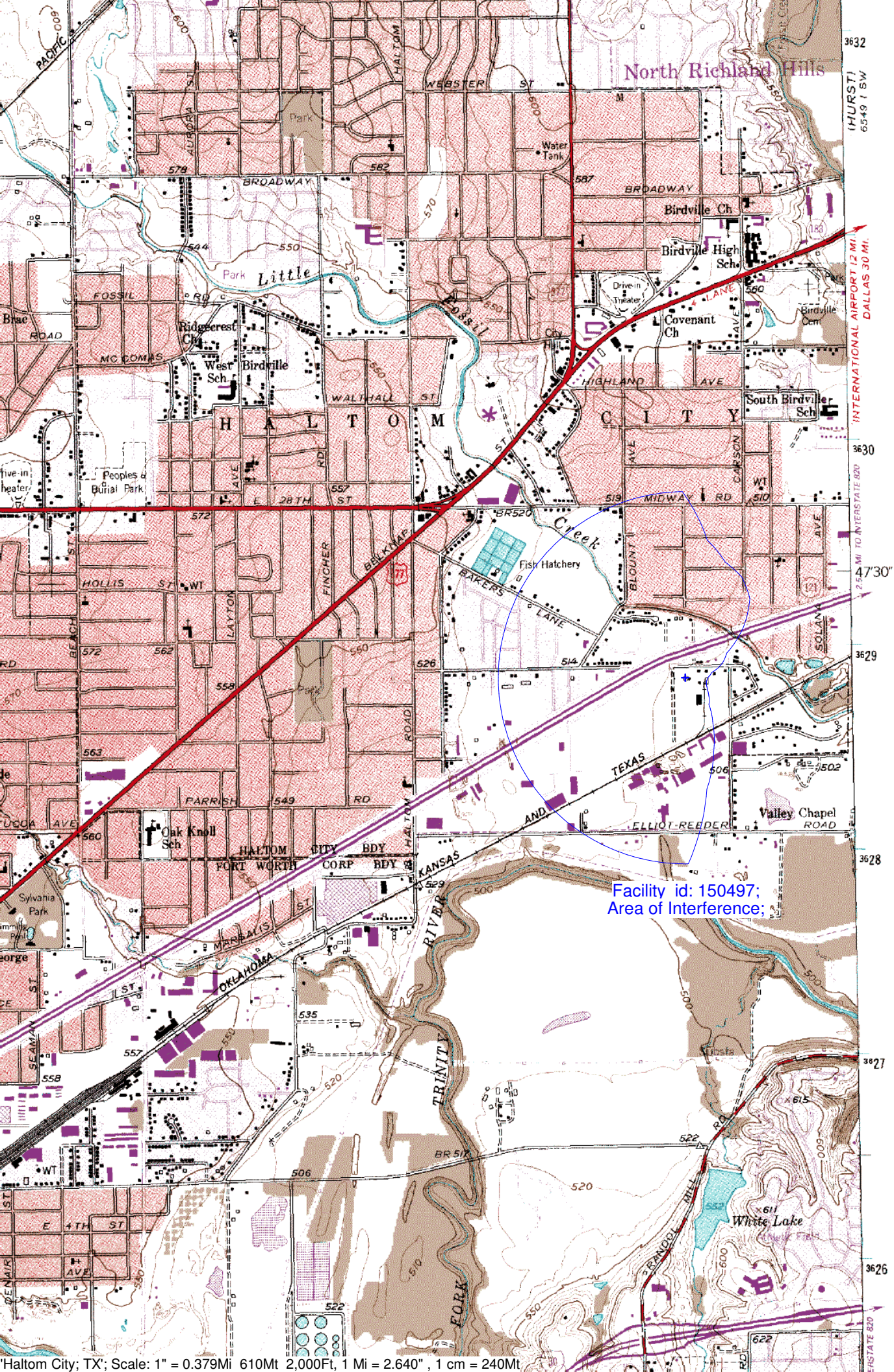
Adjacent Channel Study **For Station K237FY, Facility_id: 150497**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
604926	2809	BLH-20020725AAO	KLTY	INSPIRATION MEDIA OF TEXAS, I	C	ARLINGTON	TX	LIC	99	697.5	235	2	35	0.8978
1684887	31062	BPH-20150807ACE	KFWR	LKCM RADIO LICENSES, L.P.	C0	JACKSBORO	TX	APP	100	761.4	240	3	76.8	0.8978
1537019	31062	BLH-20130110AFG	KFWR	LKCM RADIO LICENSES, L.P.	C0	JACKSBORO	TX	LIC	100	761.4	240	3	76.8	0.8978
1579234	193135	BNPL-20131022ANZ	KHOR-LP	THE REDEEMED CHRISTIAN CHL	L1	ARLINGTON	TX	CP	0	211	238	1	14.7	0
1675603	139324	BLFT-20150407ABN	K239CC	INTELLI, LLC	D	BURLESON	TX	LIC	0.25	252	239	2	23.3	0
1670001	195376	BNPL-20131113BEX	NEW	RADIO ALFHA	L1	GRAND PRAIRIE	TX	APP	0	237	237	0	28.9	0
1623186	193847	BNPL-20131023AJZ	KVWR-LP	WARNING RADIO	L1	DALLAS	TX	CP	0	210	237	0	44.8	0
1249012	150493	BLFT-20080603ACV	K240DS	CENTRAL PARK CHURCH OF GO	D	GARLAND	TX	LIC	0.115	274	240	3	65.3	0
1687501	195326	BLL-20150911ADS	KWAH-LP	EVANGELISTIC MESSENGERS A	L1	ENNIS	TX	LIC	0	177	238	1	78.2	0
1650245	41328	BLH-20140915AAU	KHYI	METRO BROADCASTERS - TEXA	C2	HOWE	TX	LIC	17	483	237	0	87.6	0
1672915	165950	BLH-20150305AAT	KOME-FM	CHISHOLM TRAIL COMMUNICATI	C3	MERIDIAN	TX	LIC	11	468.6	237	0	93.5	0
271073	33724	BLH-19980717KG	KBGO	CAPSTAR TX, LLC	C2	WACO	TX	LIC	24	309	239	2	141.7	0
577348	35643	BLH-20010814AAN	KWKQ	AFFILIATED MEDIA, INC. FCC TRI	C3	GRAHAM	TX	LIC	10.5	501	234	3	144.7	0

Intermediate Frequencies (53 and 54 channels difference):

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
602471	23084	BLH-20020320AAE	KHKS	AMFM TEXAS LICENSES LLC	C	DENTON	TX	LIC	99	698	291	54	35	6



Facility id: 150497;
Area of Interference;

