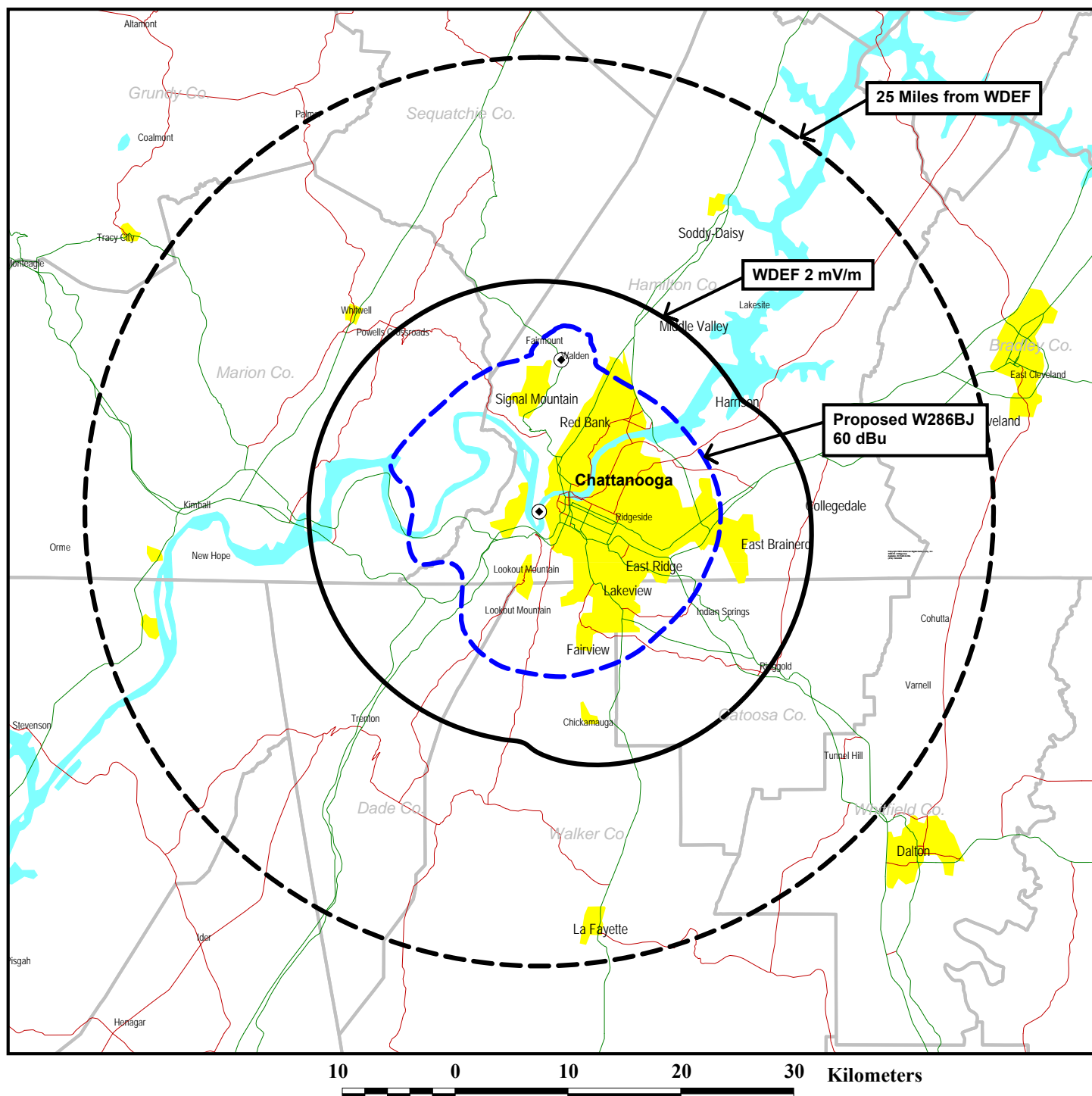


Figure 1



AM FILL-IN COMPLIANCE MAP

FM TRANSLATOR STATION W286BJ
CHATTANOOGA, TENNESSEE
CH 230 (93.9 MHZ) 0.25 kW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

FM Contour Study

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Channel: 230 **Coordinates:** 035-09-41 085-19-05 (NAD 27) **ERP:** 0.25 kW **Max. HAAT:** 487 m **Considering Only Interference Caused**

Comment: Proposed W286BJ

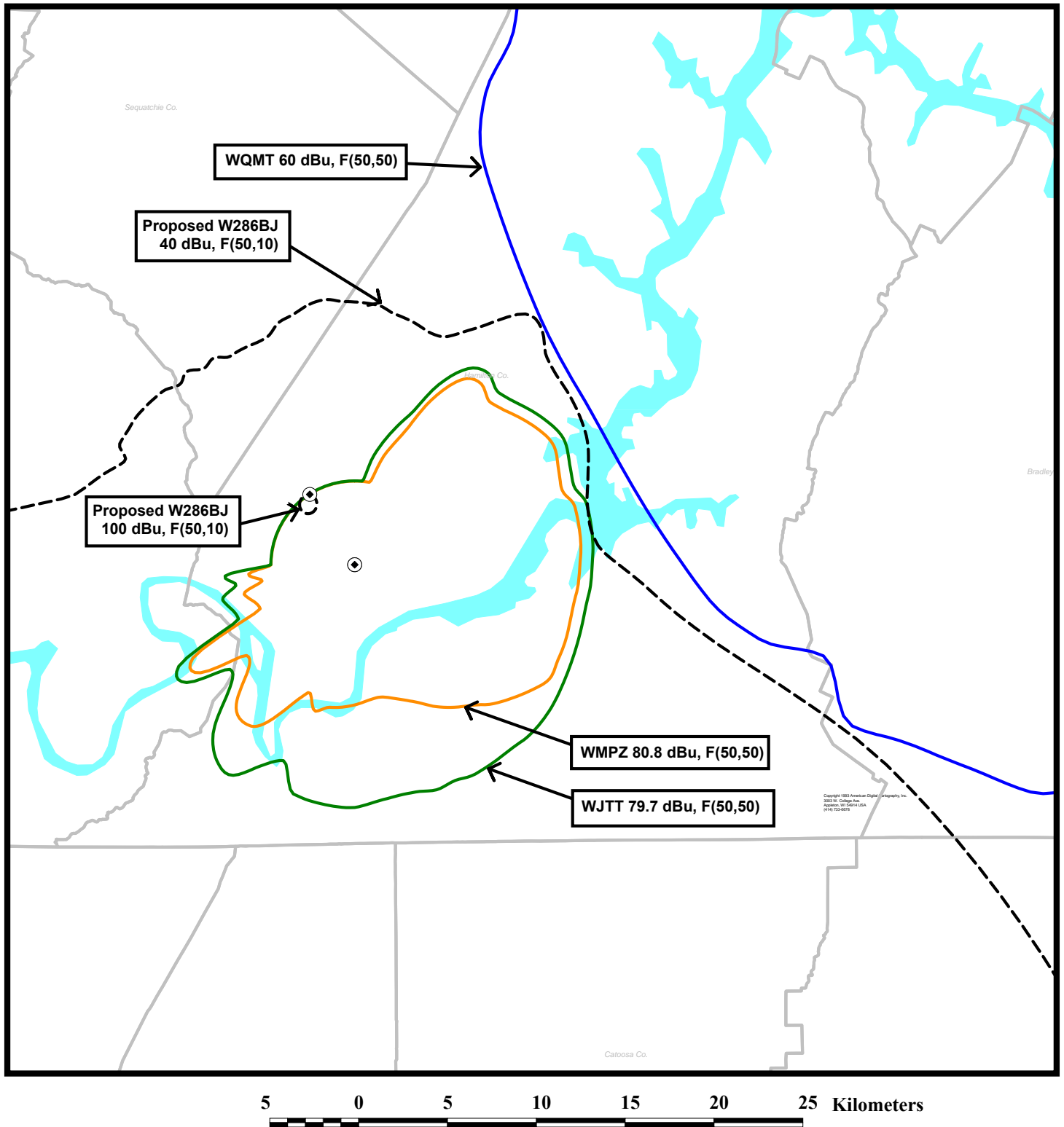
Callsign	Chan.	Service	Status	Freq.	City	State	Co.	Rec.	Latitude	Dist. (km)	Sep. (km)	Spac. (km)
Facility ID	ARN			Class	DA	73.215	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	Comment	
WMPZ	228	FM	LIC	93.5	HARRISON	TN	US	C	35-07-33	4.69	41.84	-37.15
60659	BLH	20080625ABW	A	D	Y	6	96		085-17-25	147.42	SHORT	/ 1
WMPZ 60.0 dBu desired distance: 40.7 km				Proposed 100.0 dBu undesired distance: 1.1 km								
WQMT	230	FM	LIC	93.9	DECATUR	TN	US	C	35-21-55	55.91	126.45	-70.54
70782	BLH	20080729ACZ	C3	N	Y	16.5	122.6		084-45-22	65.88	SHORT	/ 2
WQMT 60.0 dBu desired distance: 41.5 km				Proposed 40.0 dBu undesired distance: 84.9 km								
WDUC	230	FM	LIC	93.9	LYNCHBURG	TN	US	C	35-22-40	98.24	117.22	-18.98
183375	BLH	20110824ABY	A	N	Y	4.1	118.6		086-21-54	284.51	SHORT	/ 2
WDUC 60.0 dBu desired distance: 32.3 km				Proposed 40.0 dBu undesired distance: 84.9 km								
WJTT	232	FM	LIC	94.3	RED BANK	TN	US	C	35-07-33	4.69	41.45	-36.76
6752	BLH	19980814KD	A	N	N	4.7	113		085-17-25	147.42	SHORT	/ 1
WJTT 60.0 dBu desired distance: 40.4 km				Proposed 100.0 dBu undesired distance: 1.1 km								
W284AE	284	FX	LIC	104.7	CHATTANOOGA	TN	US	C	35-12-26	6.1	29	-22.9
58443	BLFT	20150422ABD	D	D	N	0.25			085-16-52	33.37	SHORT	/ 3

/1 There will be contour overlap normally prohibited by Section 74.1204(a). However, based on the undesired-to-desired (UD) signal strength ratio method (per Living Way), it has been determined that no actual interference will occur due to lack of population under 74.1204(d). See Exhibit 17 and Figure 4.

/2 Proposal complies with the contour overlap provisions of Section 74.1204(a). See Exhibit 17 and Figure 3.

/3 Not an allocation issue.

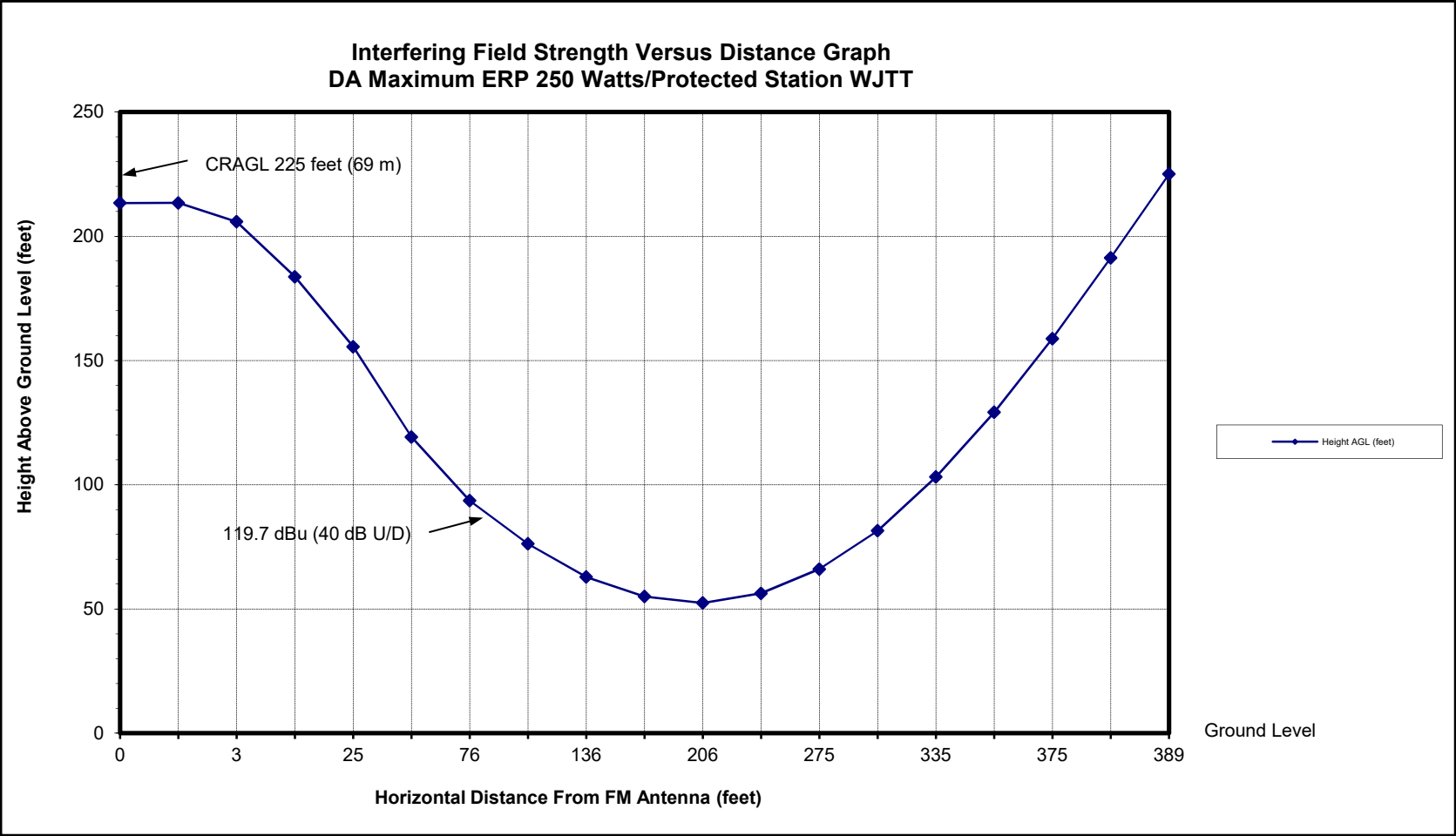
Figure 3

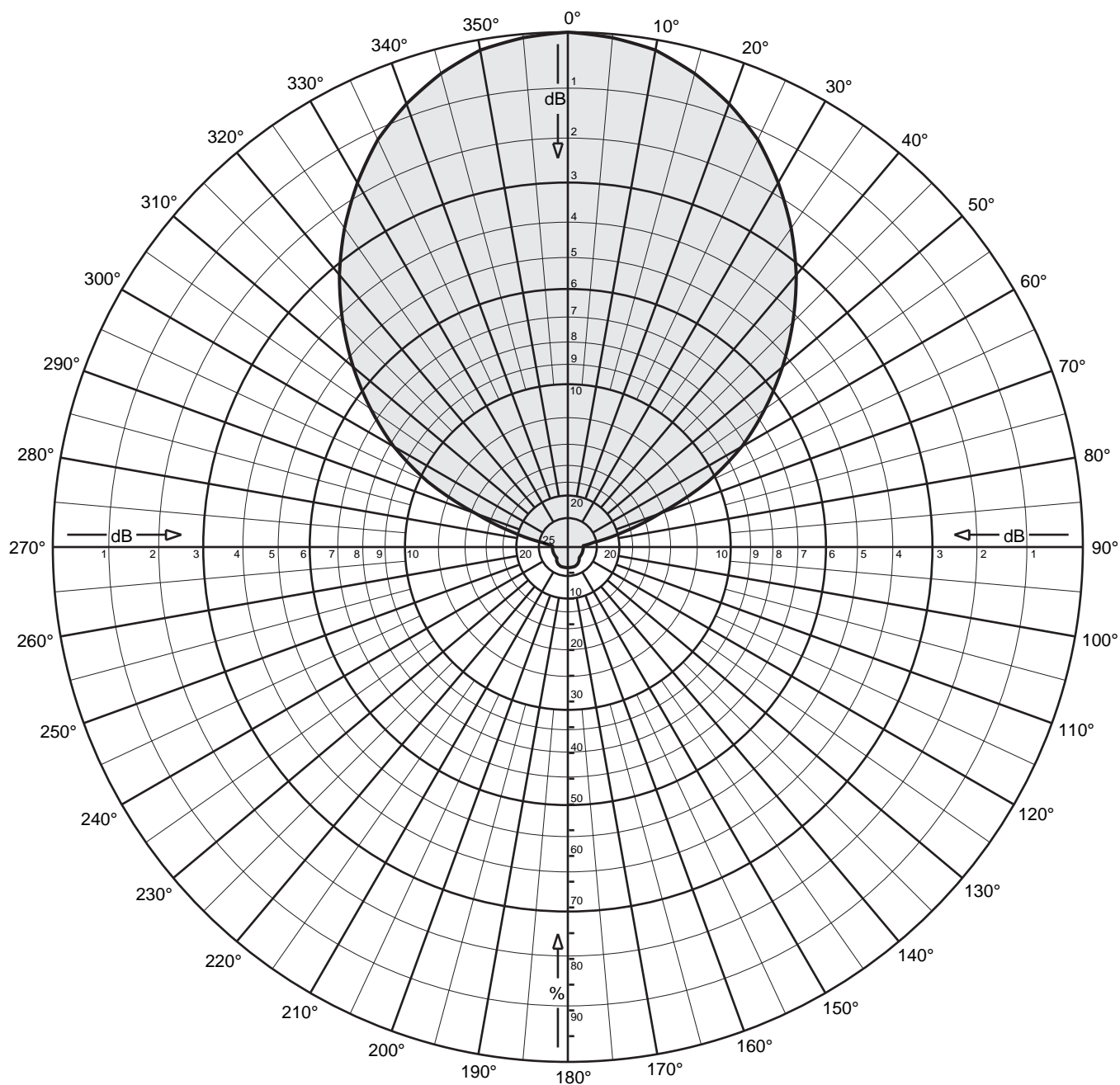


COMPLIANCE WITH SECTION 74.1204
FM TRANSLATOR STATION W286BJ
CHATTANOOGA, TENNESSEE
CH 230 (93.9 MHz) 0.25 kW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 4





2 x CL-FM/CV Array

Broadband 88-108 MHz

one ea CL-FM/HRM & CL-FM/VRM 50% power

Gain: 4.0 dBd (x 2.51)

Horizontal and Vertical polarization

0.87 wave vertical spacing

Horizontal plane Pattern



2 x CL-FM/CV Array
 Broadband 88-108 MHz
 one ea CL-FM/HRM & CL-FM/VRM 50% power
 Gain: 4.0 dBd (x 2.51)

Horizontal and Vertical polarization
 0.87 wave vertical spacing
 Horizontal plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.00	2.51	180	0.040	-27.96	-23.96	0.00
5	0.993	-0.06	3.94	2.48	185	0.040	-27.96	-23.96	0.00
10	0.980	-0.18	3.82	2.41	190	0.040	-27.96	-23.96	0.00
15	0.952	-0.43	3.57	2.28	195	0.040	-27.96	-23.96	0.00
20	0.916	-0.76	3.24	2.11	200	0.040	-27.96	-23.96	0.00
25	0.873	-1.18	2.82	1.91	205	0.039	-28.18	-24.18	0.00
30	0.817	-1.76	2.24	1.68	210	0.038	-28.40	-24.40	0.00
35	0.756	-2.43	1.57	1.44	215	0.036	-28.87	-24.87	0.00
40	0.690	-3.22	0.78	1.20	220	0.034	-29.37	-25.37	0.00
45	0.618	-4.18	-0.18	0.96	225	0.030	-30.46	-26.46	0.00
50	0.544	-5.29	-1.29	0.74	230	0.030	-30.46	-26.46	0.00
55	0.467	-6.61	-2.61	0.55	235	0.030	-30.46	-26.46	0.00
60	0.390	-8.18	-4.18	0.38	240	0.030	-30.46	-26.46	0.00
65	0.300	-10.46	-6.46	0.23	245	0.030	-30.46	-26.46	0.00
70	0.190	-14.42	-10.42	0.09	250	0.030	-30.46	-26.46	0.00
75	0.110	-19.17	-15.17	0.03	255	0.030	-30.46	-26.46	0.00
80	0.050	-26.02	-22.02	0.01	260	0.030	-30.46	-26.46	0.00
85	0.030	-30.46	-26.46	0.00	265	0.030	-30.46	-26.46	0.00
90	0.030	-30.46	-26.46	0.00	270	0.030	-30.46	-26.46	0.00
95	0.030	-30.46	-26.46	0.00	275	0.030	-30.46	-26.46	0.00
100	0.030	-30.46	-26.46	0.00	280	0.050	-26.02	-22.02	0.01
105	0.030	-30.46	-26.46	0.00	285	0.110	-19.17	-15.17	0.03
110	0.030	-30.46	-26.46	0.00	290	0.190	-14.42	-10.42	0.09
115	0.030	-30.46	-26.46	0.00	295	0.300	-10.46	-6.46	0.23
120	0.030	-30.46	-26.46	0.00	300	0.390	-8.18	-4.18	0.38
125	0.030	-30.46	-26.46	0.00	305	0.467	-6.61	-2.61	0.55
130	0.030	-30.46	-26.46	0.00	310	0.544	-5.29	-1.29	0.74
135	0.031	-30.17	-26.17	0.00	315	0.618	-4.18	-0.18	0.96
140	0.034	-29.37	-25.37	0.00	320	0.690	-3.22	0.78	1.20
145	0.036	-28.87	-24.87	0.00	325	0.756	-2.43	1.57	1.44
150	0.038	-28.40	-24.40	0.00	330	0.817	-1.76	2.24	1.68
155	0.039	-28.18	-24.18	0.00	335	0.873	-1.18	2.82	1.91
160	0.040	-27.96	-23.96	0.00	340	0.916	-0.76	3.24	2.11
165	0.040	-27.96	-23.96	0.00	345	0.952	-0.43	3.57	2.28
170	0.040	-27.96	-23.96	0.00	350	0.980	-0.18	3.82	2.41
175	0.040	-27.96	-23.96	0.00	355	0.993	-0.06	3.94	2.48