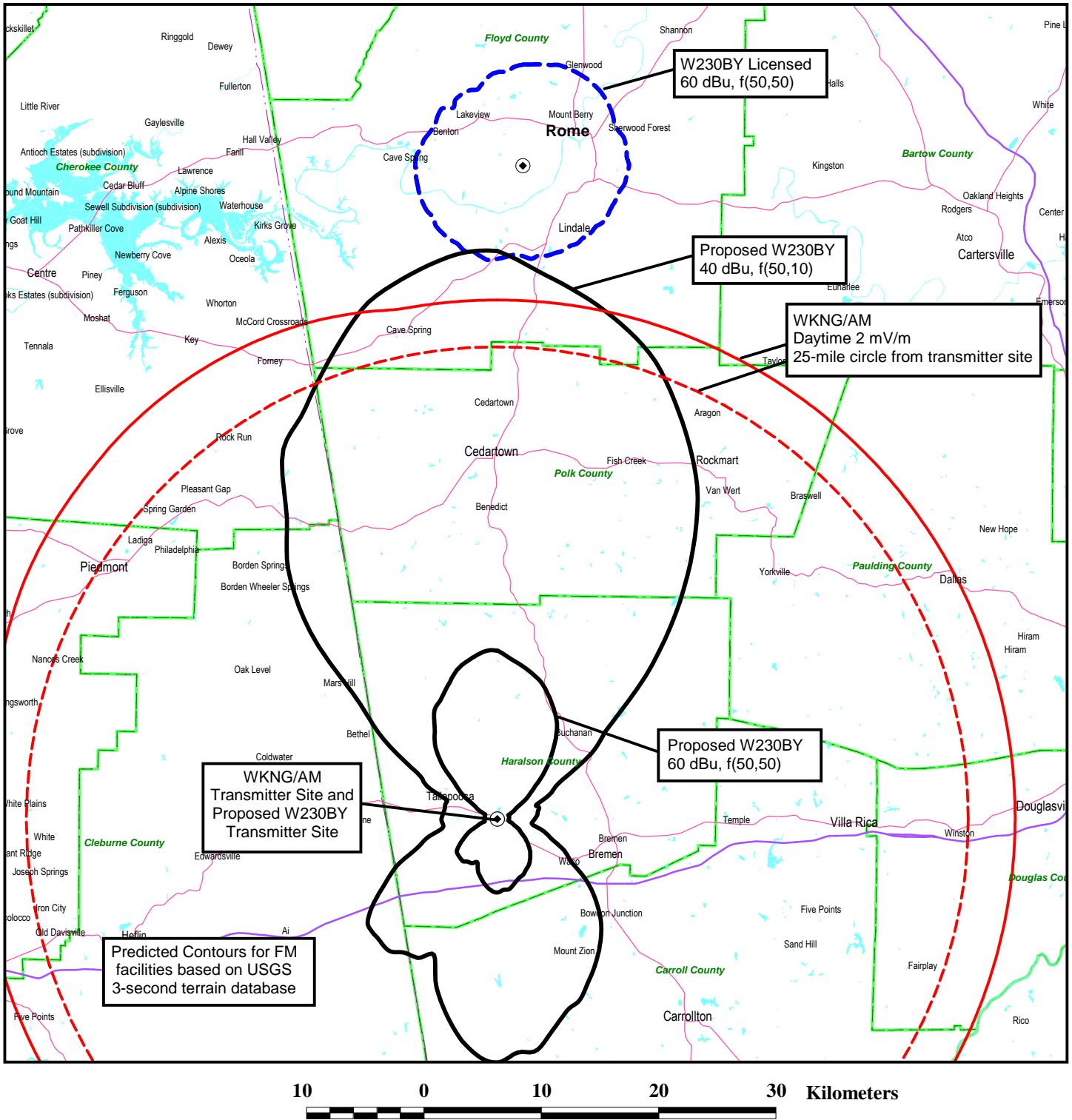


Figure 1



OVERVIEW OF W230BY PROPOSAL

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

FM Contour Study

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



Channel: 230 **Coordinates:** 033-44-06 085-15-08 (NAD 27) **ERP:** .25 kW **Max. HAAT:** 149 m **Considering Only Interference Caused**

Comment: W230BY - CP Mod

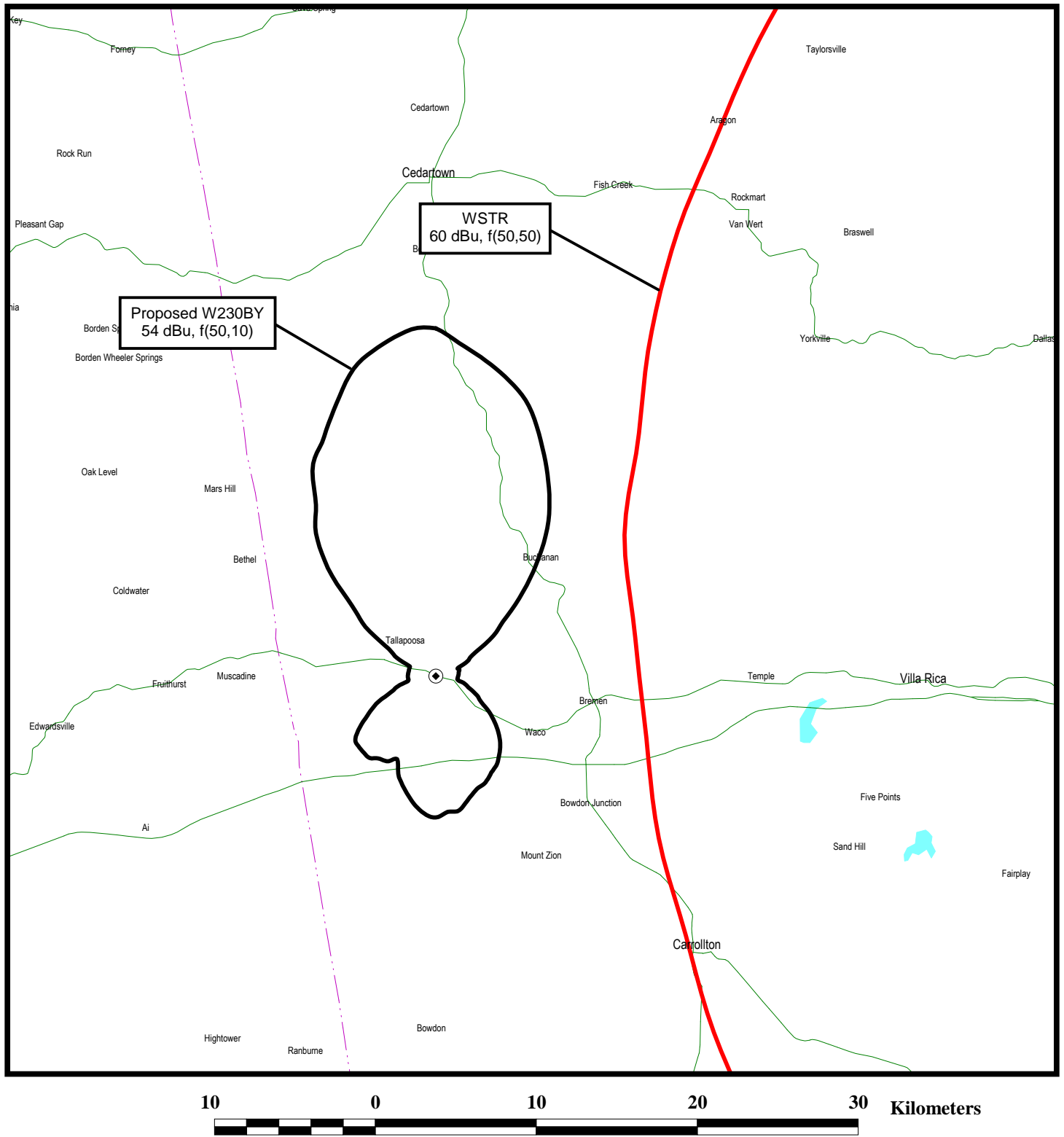
Callsign	Chan.	Service	Status	Freq.	City	State	Co.	Rec.	Latitude	Dist. (km)	Sep. (km)	Spac. (km)
Facility ID	ARN			Class	DA	73.215	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	Comment	
WVFJ-FM	227	FM	CP	93.3	GREENVILLE	GA	US	C	33-05-10	84.83	83.4	1.43
53679	BPED	20140214AAS	C0	D	Y	57	491		084-46-10	148.02	CLOSE	
WVFJ-FM 60.0 dBu desired distance: 82.3 km				Proposed 100.0 dBu undesired distance: 1.1 km								
W230BY	230	FX	CP	93.9	TALLAPOOSA	GA	US	C	33-44-06	0	67.5	-67.5
143039	BPFT	20150203ABP	D	D	N	0.25			085-15-08	180	SHORT	/1
W230BY 60.0 dBu desired distance: 15.8 km				Proposed 40.0 dBu undesired distance: 51.7 km								
W230BY	230	FX	LIC	93.9	ROME	GA	US	C	34-14-08	55.56	60.79	-5.23
143039	BLFT	20141104ADR	D	N	N	0.01			085-13-43	2.23	SHORT	/2
W230BY 60.0 dBu desired distance: 9.1 km				Proposed 40.0 dBu undesired distance: 51.7 km								
WSTR	231	FM	LIC	94.1	SMYRNA	GA	US	C	33-45-33	85.06	99.05	-13.99
30822	BLH	20060523ADI	C0	N	N	100	310.4		084-20-05	87.93	SHORT	/3
WSTR 60.0 dBu desired distance: 75.3 km				Proposed 54.0 dBu undesired distance: 23.8 km								

/1 - Applicant's outstanding construction permit being modified by the instant proposal.

/2 - Applicant's licensed operation. The instant proposal meets the Mattoon waiver criteria. See Exhibit 17 and Figure 1.

/3 - The instant proposal complies with the contour overlap provisions of Section 74.1204(a). See Exhibit 17 and Figure 3.

Figure 3



COMPLIANCE WITH SECTION 74.1204

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

Tabulation of Terrain Data and Distances to Contour for Proposed W230BY

<u>Azimuth (deg)</u>	<u>3.2-16.1 km Average Elevation (based on USGS 3-second Data)</u>	<u>HAAT</u>	<u>Relative Field</u>	<u>ERP (kW)</u>	<u>60 dBu f(50,50) Dist. (km)</u>	<u>54 dBu f(50,10) Dist. (km)</u>	<u>40 dBu f(50,10) Dist. (km)</u>
0	322	125	1.000	0.25000	14.4	21.7	48.4
5	330	117	0.969	0.23450	13.7	20.6	46.5
10	336	111	0.937	0.21949	13.1	19.7	44.9
15	336	111	0.865	0.18684	12.6	18.7	43.1
20	340	107	0.792	0.15682	11.9	17.5	40.7
25	343	104	0.689	0.11851	10.9	15.7	37.3
30	345	102	0.585	0.08556	10.0	14.0	33.8
35	346	101	0.453	0.05119	8.8	12.3	29.3
40	350	97	0.320	0.02560	7.2	10.2	24.2
45	357	90	0.214	0.01145	5.7	8.0	18.8
50	356	91	0.108	0.00292	4.0	5.8	12.7
55	363	84	0.069	0.00119	3.0	4.4	9.9
60	376	71	0.030	0.00023	1.9	2.6	6.0
65	375	72	0.020	0.00010	1.4	2.2	4.9
70	371	76	0.010	0.00003	1.0	1.5	3.5
75	364	83	0.010	0.00003	1.0	1.5	3.7
80	372	75	0.010	0.00003	1.0	1.4	3.5
85	377	70	0.010	0.00003	1.0	1.4	3.4
90	387	60	0.010	0.00003	1.0	1.4	3.2
95	394	53	0.010	0.00003	1.0	1.4	3.0
100	389	58	0.010	0.00003	1.0	1.4	3.1
105	386	61	0.017	0.00007	1.3	1.9	4.1
110	385	62	0.023	0.00013	1.5	2.2	4.9
115	387	60	0.039	0.00038	2.0	2.8	6.3
120	389	58	0.055	0.00076	2.4	3.3	7.3
125	378	69	0.076	0.00144	2.9	4.2	9.4
130	372	75	0.097	0.00235	3.5	4.9	11.1
135	365	82	0.115	0.00331	4.0	5.7	12.5
140	361	86	0.133	0.00442	4.4	6.2	13.7
145	357	90	0.148	0.00544	4.7	6.7	14.8
150	358	89	0.162	0.00656	4.9	6.9	15.8
155	356	91	0.177	0.00783	5.2	7.3	16.9
160	359	88	0.192	0.00922	5.4	7.5	17.4
165	356	91	0.207	0.01071	5.7	7.9	18.5
170	350	97	0.222	0.01232	6.0	8.5	19.9
175	352	95	0.228	0.01294	6.1	8.5	20.0
180	348	99	0.233	0.01357	6.3	8.8	20.8
185	351	96	0.228	0.01294	6.1	8.6	20.2
190	359	88	0.222	0.01232	5.7	8.0	18.9
195	367	80	0.207	0.01071	5.3	7.4	17.1
200	376	71	0.192	0.00922	4.8	6.7	15.2
205	392	55	0.177	0.00783	4.1	5.7	12.8
210	377	70	0.162	0.00656	4.4	6.1	13.7
215	367	80	0.148	0.00544	4.4	6.3	13.9
220	350	97	0.133	0.00442	4.7	6.6	14.6
225	338	109	0.115	0.00331	4.6	6.5	14.4
230	318	129	0.097	0.00235	4.5	6.5	14.3
235	310	137	0.076	0.00144	4.0	5.9	13.1
240	312	135	0.055	0.00076	3.3	4.9	11.1
245	309	138	0.039	0.00038	2.7	4.1	9.5

Tabulation of Terrain Data and Distances to Contour for Proposed W230BY

<u>Azimuth (deg)</u>	<u>3.2-16.1 km Average Elevation (based on USGS 3-second Data)</u>	<u>HAAT</u>	<u>Relative Field</u>	<u>ERP (kW)</u>	<u>60 dBu f(50,50) Dist. (km)</u>	<u>54 dBu f(50,10) Dist. (km)</u>	<u>40 dBu f(50,10) Dist. (km)</u>
250	308	139	0.023	0.00013	1.9	3.0	7.3
255	308	139	0.017	0.00007	1.5	2.5	6.2
260	303	144	0.010	0.00003	1.1	1.8	4.8
265	312	135	0.010	0.00003	1.1	1.7	4.7
270	306	141	0.010	0.00003	1.1	1.8	4.8
275	313	134	0.010	0.00003	1.1	1.7	4.7
280	318	129	0.010	0.00003	1.1	1.7	4.6
285	316	131	0.010	0.00003	1.1	1.7	4.6
290	318	129	0.010	0.00003	1.1	1.7	4.6
295	317	130	0.020	0.00010	1.7	2.7	6.6
300	320	127	0.030	0.00023	2.3	3.4	8.0
305	324	123	0.069	0.00119	3.6	5.4	11.9
310	320	127	0.108	0.00292	4.8	6.8	15.3
315	321	126	0.214	0.01145	6.8	9.5	22.6
320	319	128	0.320	0.02560	8.3	11.6	27.7
325	333	114	0.453	0.05119	9.3	13.0	31.3
330	329	118	0.585	0.08556	10.7	15.3	36.4
335	335	112	0.689	0.11851	11.3	16.5	38.7
340	334	113	0.792	0.15682	12.2	18.1	41.7
345	325	122	0.865	0.18684	13.2	19.8	44.8
350	324	123	0.937	0.21949	13.8	20.8	46.7
355	319	128	0.969	0.23450	14.3	21.5	48.1

Tabulation of Terrain Data and Distances to Contour for Licensed W230BY

Azimuth (deg)	3.2-16.1 km Average Elevation (based on USGS 3-second Data)	HAAT	Relative Field	ERP (kW)	60 dBu f(50,50) Dist. (km)
0	214	218	1.000	0.01	8.6
5	211	221	1.000	0.01	8.7
10	206	226	1.000	0.01	8.8
15	200	232	1.000	0.01	8.9
20	189	243	1.000	0.01	9.1
25	187	245	1.000	0.01	9.1
30	186	246	1.000	0.01	9.2
35	185	247	1.000	0.01	9.2
40	186	246	1.000	0.01	9.2
45	187	245	1.000	0.01	9.1
50	192	240	1.000	0.01	9.1
55	198	234	1.000	0.01	8.9
60	206	226	1.000	0.01	8.8
65	216	216	1.000	0.01	8.6
70	212	220	1.000	0.01	8.6
75	199	233	1.000	0.01	8.9
80	200	232	1.000	0.01	8.9
85	202	230	1.000	0.01	8.9
90	194	238	1.000	0.01	9.0
95	202	230	1.000	0.01	8.9
100	206	226	1.000	0.01	8.8
105	220	212	1.000	0.01	8.5
110	223	209	1.000	0.01	8.4
115	228	204	1.000	0.01	8.3
120	227	205	1.000	0.01	8.3
125	227	205	1.000	0.01	8.3
130	239	193	1.000	0.01	8.1
135	237	195	1.000	0.01	8.1
140	242	190	1.000	0.01	8.0
145	239	193	1.000	0.01	8.1
150	246	186	1.000	0.01	7.9
155	242	190	1.000	0.01	8.0
160	246	186	1.000	0.01	7.9
165	246	186	1.000	0.01	7.9
170	253	179	1.000	0.01	7.8
175	244	188	1.000	0.01	8.0
180	256	176	1.000	0.01	7.7
185	261	171	1.000	0.01	7.6
190	249	183	1.000	0.01	7.9
195	233	199	1.000	0.01	8.2
200	218	214	1.000	0.01	8.5
205	219	213	1.000	0.01	8.5
210	222	210	1.000	0.01	8.4
215	206	226	1.000	0.01	8.8
220	211	221	1.000	0.01	8.7
225	204	228	1.000	0.01	8.8
230	199	233	1.000	0.01	8.9
235	195	237	1.000	0.01	9.0
240	206	226	1.000	0.01	8.8
245	194	238	1.000	0.01	9.0

Tabulation of Terrain Data and Distances to Contour for Licensed W230BY

<u>Azimuth (deg)</u>	<u>3.2-16.1 km Average Elevation (based on USGS 3-second Data)</u>	<u>HAAT</u>	<u>Relative Field</u>	<u>ERP (kW)</u>	<u>60 dBu f(50,50) Dist. (km)</u>
250	191	241	1.000	0.01	9.1
255	189	243	1.000	0.01	9.1
260	190	242	1.000	0.01	9.1
265	188	244	1.000	0.01	9.1
270	187	245	1.000	0.01	9.1
275	189	243	1.000	0.01	9.1
280	205	227	1.000	0.01	8.8
285	211	221	1.000	0.01	8.7
290	224	208	1.000	0.01	8.4
295	231	201	1.000	0.01	8.2
300	225	207	1.000	0.01	8.4
305	222	210	1.000	0.01	8.5
310	257	175	1.000	0.01	7.7
315	240	192	1.000	0.01	8.0
320	243	189	1.000	0.01	8.0
325	249	183	1.000	0.01	7.9
330	262	170	1.000	0.01	7.6
335	247	185	1.000	0.01	7.9
340	234	198	1.000	0.01	8.2
345	230	202	1.000	0.01	8.3
350	236	196	1.000	0.01	8.1
355	221	211	1.000	0.01	8.5

Tabulation of Terrain Data and Distances to Contour for WSTR(FM)

<u>Azimuth (deg)</u>	<u>3.2-16.1 km Average Elevation (based on USGS 3-second Data)</u>	<u>HAAT</u>	<u>Relative Field</u>	<u>ERP (kW)</u>	<u>60 dBu f(50,50) Dist. (km)</u>
0	283	311	1.000	100	73.2
5	283	310	1.000	100	73.2
10	290	304	1.000	100	72.7
15	287	307	1.000	100	72.9
20	288	306	1.000	100	72.8
25	287	307	1.000	100	72.9
30	290	304	1.000	100	72.7
35	299	295	1.000	100	72.0
40	304	290	1.000	100	71.5
45	311	283	1.000	100	71.0
50	306	288	1.000	100	71.4
55	306	288	1.000	100	71.4
60	312	282	1.000	100	70.9
65	306	288	1.000	100	71.4
70	302	292	1.000	100	71.8
75	300	294	1.000	100	71.9
80	295	299	1.000	100	72.3
85	293	301	1.000	100	72.4
90	293	301	1.000	100	72.5
95	289	305	1.000	100	72.8
100	285	308	1.000	100	73.0
105	284	309	1.000	100	73.1
110	279	315	1.000	100	73.5
115	277	317	1.000	100	73.6
120	273	320	1.000	100	73.9
125	275	319	1.000	100	73.8
130	268	326	1.000	100	74.3
135	259	334	1.000	100	74.9
140	257	337	1.000	100	75.1
145	260	334	1.000	100	74.9
150	267	327	1.000	100	74.4
155	264	330	1.000	100	74.6
160	264	330	1.000	100	74.6
165	264	330	1.000	100	74.6
170	265	329	1.000	100	74.6
175	272	322	1.000	100	74.0
180	272	321	1.000	100	74.0
185	277	317	1.000	100	73.6
190	276	317	1.000	100	73.7
195	268	326	1.000	100	74.3
200	277	317	1.000	100	73.6
205	277	317	1.000	100	73.7
210	287	307	1.000	100	72.9
215	287	307	1.000	100	72.9
220	293	301	1.000	100	72.5
225	298	296	1.000	100	72.0
230	301	293	1.000	100	71.8
235	302	292	1.000	100	71.7
240	296	297	1.000	100	72.2
245	300	294	1.000	100	71.9

Tabulation of Terrain Data and Distances to Contour for WSTR(FM)

<u>Azimuth (deg)</u>	3.2-16.1 km Average Elevation (based on	<u>HAAT</u>	<u>Relative Field</u>	<u>ERP (kW)</u>	60 dBu f(50,50)
	<u>USGS 3-second Data)</u>				<u>Dist. (km)</u>
250	298	295	1.000	100	72.0
255	301	293	1.000	100	71.8
260	297	297	1.000	100	72.1
265	298	295	1.000	100	72.0
270	294	300	1.000	100	72.4
275	282	312	1.000	100	73.3
280	283	310	1.000	100	73.2
285	276	318	1.000	100	73.7
290	272	322	1.000	100	74.0
295	272	321	1.000	100	74.0
300	267	327	1.000	100	74.4
305	264	330	1.000	100	74.6
310	260	334	1.000	100	74.9
315	260	334	1.000	100	74.9
320	262	332	1.000	100	74.7
325	270	324	1.000	100	74.2
330	277	317	1.000	100	73.6
335	278	316	1.000	100	73.5
340	279	315	1.000	100	73.5
345	277	317	1.000	100	73.7
350	278	316	1.000	100	73.6
355	280	314	1.000	100	73.4