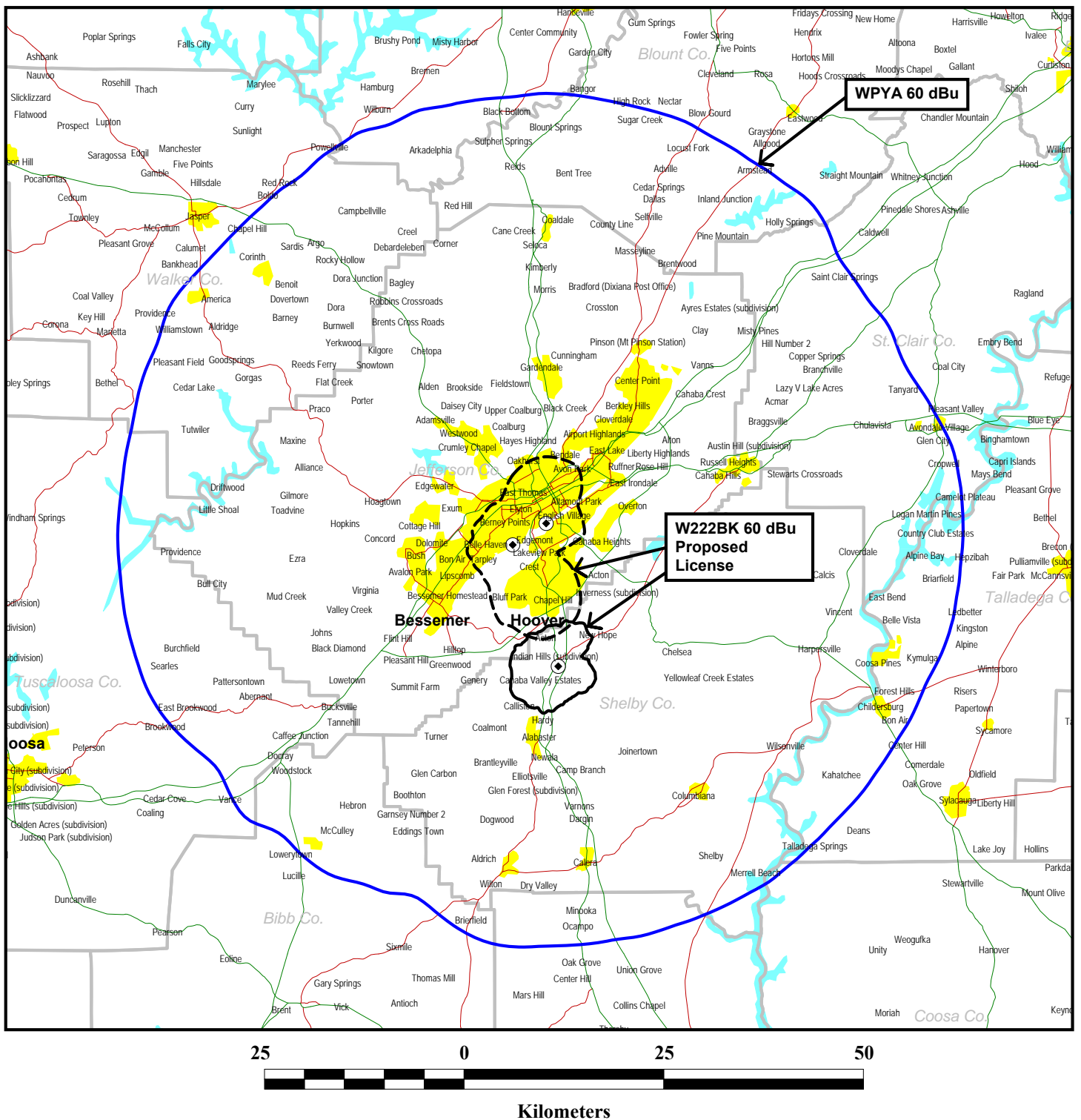


Figure 1



## FILL-IN COMPLIANCE MAP

FM TRANSLATOR STATION W222BK  
BIRMINGHAM, ALABAMA  
CH 222 (92.3 MHz) 0.095 kW (DA)

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

# FM Contour Study

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



**Channel:** 222 **Coordinates:** 033-27-37 086-51-07 (NAD 27) **ERP:** 0.095 kW **Max. HAAT:** 180 m **Considering Only Interference Caused**

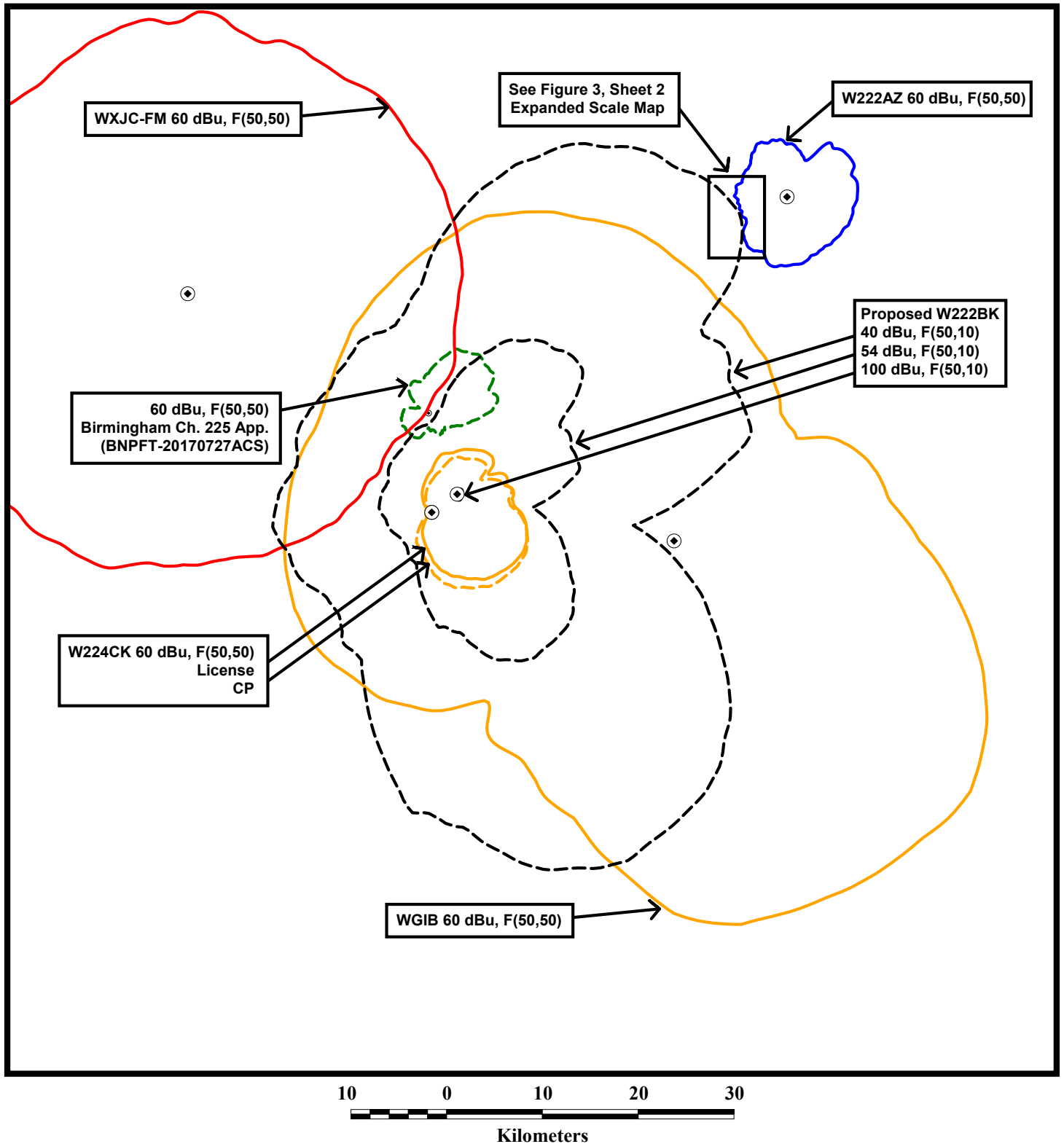
**Comment:** Proposed W222BK

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	
<b>WGIB</b>	220	FM	LIC	91.9	BIRMINGHAM	AL	US	C	33-24-59	23.22	41.96	-18.74
24256	BLED	20030115ABE	C3	D	N		3.5	266	086-36-28	102.09	<b>SHORT</b>	/1
WGIB 60.0 dBu desired distance: 41.3 km				Proposed 100.0 dBu undesired distance: 0.7 km								
<b>W222BK</b>	222	FX	LIC	92.3	BIRMINGHAM	AL	US	C	33-19-25	16.2	51.65	-35.45
150836	BLFT	20101228ABG	D	N	N		0.01	83.2	086-47-26	159.43	<b>SHORT</b>	/2
W222BK 60.0 dBu desired distance: 6.7 km				Proposed 40.0 dBu undesired distance: 44.9 km								
<b>W222AZ</b>	222	FX	LIC	92.3	SPRINGVILLE	AL	US	C	33-44-23	46.36	52.68	-6.32
141688	BLFT	20071108AEU	D	N	N		0.01	115.8	086-28-50	47.8	<b>SHORT</b>	/3
W222AZ 60.0 dBu desired distance: 7.7 km				Proposed 40.0 dBu undesired distance: 44.9 km								
<b>WXJC-FM</b>	223	FM	LIC	92.5	CORDOVA	AL	US	C	33-38-55	35.07	50.42	-15.35
77749	BLH	20040819AAQ	A	N	N		2.2	167	087-09-19	306.77	<b>SHORT</b>	/3
WXJC-FM 60.0 dBu desired distance: 29.9 km				Proposed 54.0 dBu undesired distance: 20.6 km								
<b>W224CK</b>	224	FX	CP	92.7	VESTAVIA HILLS	AL	US	C	33-26-35.6	3.26	17.49	-14.23
156965	BPFT	20171018AAN	D	C	N		0.07		086-52-50	234.46	<b>SHORT</b>	/1
W224CK 60.0 dBu desired distance: 16.8 km				Proposed 100.0 dBu undesired distance: 0.7 km								
<b>W224CK</b>	224	FX	LIC	92.7	VESTAVIA HILLS	AL	US	C	33-26-35.6	3.26	17.49	-14.23
156965	BLFT	20160929AII	D	C	N		0.07		086-52-50	234.46	<b>SHORT</b>	/1
W224CK 60.0 dBu desired distance: 16.8 km				Proposed 100.0 dBu undesired distance: 0.7 km								
<b>NEW</b>	225	FX	APP	92.9	BIRMINGHAM	AL	US	C	33-32-11	8.96	16.48	-7.52
200668	BNPFT	20170727ACS	D	D	N		0.099		086-53-03	340.56	<b>SHORT</b>	/3
NEW 60.0 dBu desired distance: 15.8 km				Proposed 100.0 dBu undesired distance: 0.7 km								
<b>NEW</b>	225	FX	APP	92.9	BIRMINGHAM	AL	US	C	33-35-00	13.65	11.62	2.03
200668	BNPFT	20180320ABH	D	D	N		0.099		086-51-05	0.22	<b>CLOSE</b>	
NEW 60.0 dBu desired distance: 10.9 km				Proposed 100.0 dBu undesired distance: 0.7 km								
<b>WTUG-FM</b>	225	FM	LIC	92.9	NORTHPORT	AL	US	C	33-03-15	79.05	76.39	2.66
54796	BLH	20050624AAS	C1	N	Y		100	298.8	087-32-57	235.33	<b>CLOSE</b>	
WTUG-FM 60.0 dBu desired distance: 75.7 km				Proposed 100.0 dBu undesired distance: 0.7 km								

/1 There will be overlap normally prohibited by Section 74.1204. However, based on the U/D signal strength ratio method, which is permitted by the FCC per Living Way Ministries, there will be no actual interference due to lack of population under Section 74.1204(d). See Figure 17 and Figure 4.

/2 Licensed W222BK operation.

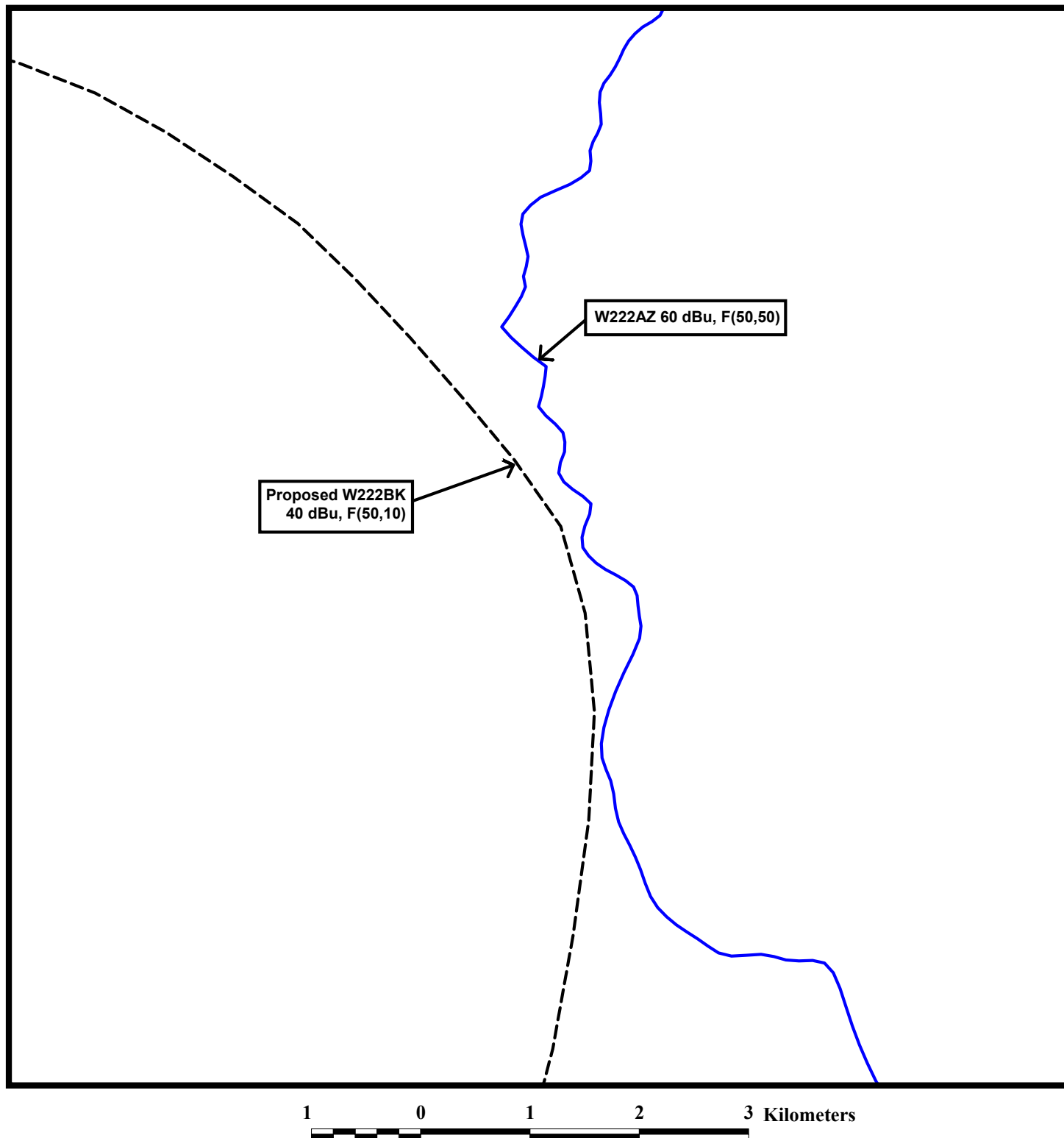
/3 Proposal complies with the contour overlap provisions of Section 74.1204(a). See Exhibit 17 and Figure 3.



# **COMPLIANCE WITH SECTION 74.1204**

FM TRANSLATOR STATION W222BK  
BIRMINGHAM, ALABAMA  
CH 222 (92.3 MHZ) 0.095 kW (DA)

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



**COMPLIANCE WITH SECTION 74.1204  
[EXPANDED SCALE MAP]**

FM TRANSLATOR STATION W222BK  
BIRMINGHAM, ALABAMA  
CH 222 (92.3 MHZ) 0.095 kW (DA)

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



Figure 4



**UNDESIRE-TO-DESIRED (U/D) SIGNAL STRENGTH INTERFERENCE RATIO ANALYSIS**

FM TRANSLATOR STATION W222BK

BIRMINGHAM, ALABAMA

CH 222D (92.3 MHZ) 0.095 KW (DA)

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