

Compliance with 73.215 WSBH
INTERFERENCE PROTECTION EXHIBIT
APPLICATION FOR MINOR CHANGE
WSBH FM, LLC
WSBH (FM), SATELLITE BEACH, FLORIDA
CH 253C3 25.0 KW (H&V) 104.7 METERS AMSL
FACILITY ID # 166009

WSBH FM, LLC (hereinafter WSBH) is the licensed operator of commercial FM broadcast station WSBH(FM) (File number BLH-20061130AKQ) operating on channel 253A (98.5 megahertz) at Satellite Beach, Florida. By this application WSBH seeks a change in class from Class A to Class C3. In addition, this application specifies changes in effective radiated power and antenna. The proposed site is the current licensed location at geographic coordinates 28° 08' 11" North Latitude, 80° 42' 12" West Longitude (NAD27). This application proposes directional operation with a maximum effective radiated power (ERP) of 25 kilowatts (kW), circularly polarized, with antenna radiation center height above average terrain (HAAT) of 100 meters. The specified antenna radiation center height above ground level (AGL) is 98 meters.

The proposed allotment site satisfies the Commission's allocations spacing rules for a fully spaced full 25 kilowatt (kW) Class C3 facility. The proposed allotment reference coordinates are 28° 15' 55" North, 80° 41' 46" West (NAD27). *Table 1* is a tabulation of required separations pertinent to use of channel 253C3 at Satellite Beach, Florida. The allotment reference site complies with the Commission's minimum distance separations contained in Section 73.207 of the FCC's rules to all existing, authorized and proposed stations and allotments as a full 25 kW Class C3 allotment, except for WSBH's existing channel 253A licensed facility at Satellite Beach, Florida, for which this proposal is a mutually exclusive substitute.

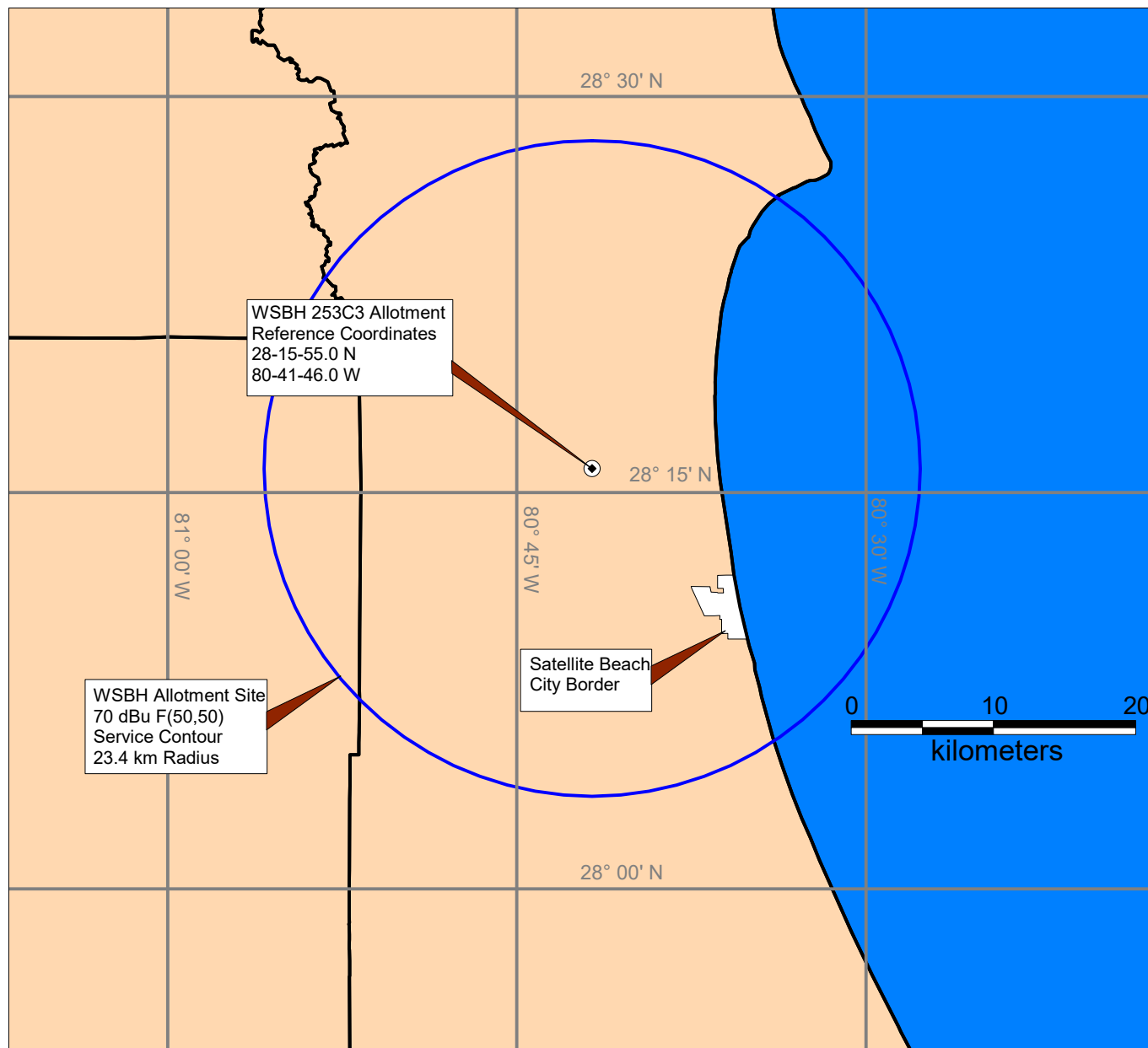
Operation from the channel 253C3 reference site would provide the requisite city grade

(70 dBu) signal to Satellite Beach, Florida. *Figure 1* is a map which depicts the city grade coverage contour (70 dBu) based on maximum Class C3 facilities (ERP 25 kW/HAAT 100 meters) at the proposed allotment reference site. As shown, all (100%) of Satellite Beach, Florida is located within the predicted 70 dBu contour.

Table 1

Channel 253C3 Spacing Study at Allotment Reference Site

Callsign	City	ST	Channel	Facility Id #	Status	Distance (km)	Required (km)	Clear (km)
W250BH	MELBOURNE	FL	250D	142447	LIC	24.27	0	24.3
WNUE-FM	DELTONA	FL	251C2	46969	USE	68.06	56	12.1
WNUE-FM	DELTONA	FL	251C2	46969	LIC	74.54	56	18.5
WWRZ	FORT MEADE	FL	252C2	72687	USE	126.76	117	9.8
WWRZ	FORT MEADE	FL	252C2	72687	LIC	123.87	117	6.9
WTKT	CRYSTAL RIVER	FL	253C1	18520	USE	213.38	211	2.4
WSBH*	SATELLITE BEACH	FL	253A	96177	USE	13.67	142	-128.3
WSBH	SATELLITE BEACH	FL	253A	166009	LIC	14.3	142	-127.7
WHPB-LP	ORLANDO	FL	253LP100	195882	LIC	82.54	78	4.5
WTKT	CRYSTAL RIVER	FL	253C1	18520	LIC	222.9	211	11.9
WTKT	CRYSTAL RIVER	FL	253C1	18520	LIC	213.45	211	2.5
WKGR	WELLINGTON	FL	254C1	1245	USE	146.59	144	2.6
WKGR	FORT PIERCE	FL	254C1	1245	LIC	146.59	144	2.6
WMMO	ORLANDO	FL	255C2	23444	USE	78.08	56	22.1
WMMO	ORLANDO	FL	255C2	23444	LIC	82.55	56	26.6



ALLOTMENT REFERENCE SITE COMMUNITY OF LICENSE SERVICE EXHIBIT

WSBH FM, LLC
STATION WSBH(FM) SATELLITE BEACH, FLORIDA
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FEBRUARY 2022

As shown in *Table 2*, the use of channel 253C3 at the proposed site meets the minimum distance separation requirements set forth in Section 73.207 with respect to all domestic assignments except for first adjacent Class C1 WKGR(FM) Wellington, Florida, and the current WSBH(FM) site. Thus, WSBH(FM) may be authorized to operate with normally authorized Class C3 facilities in all directions except those where such operation would cause prohibited interference to WKGR(FM). WSBH proposes to utilize a directional antenna at 25 kW ERP with appropriate radiation reduction in the arc toward WKGR(FM) to prevent prohibited contour overlap.

Table 2

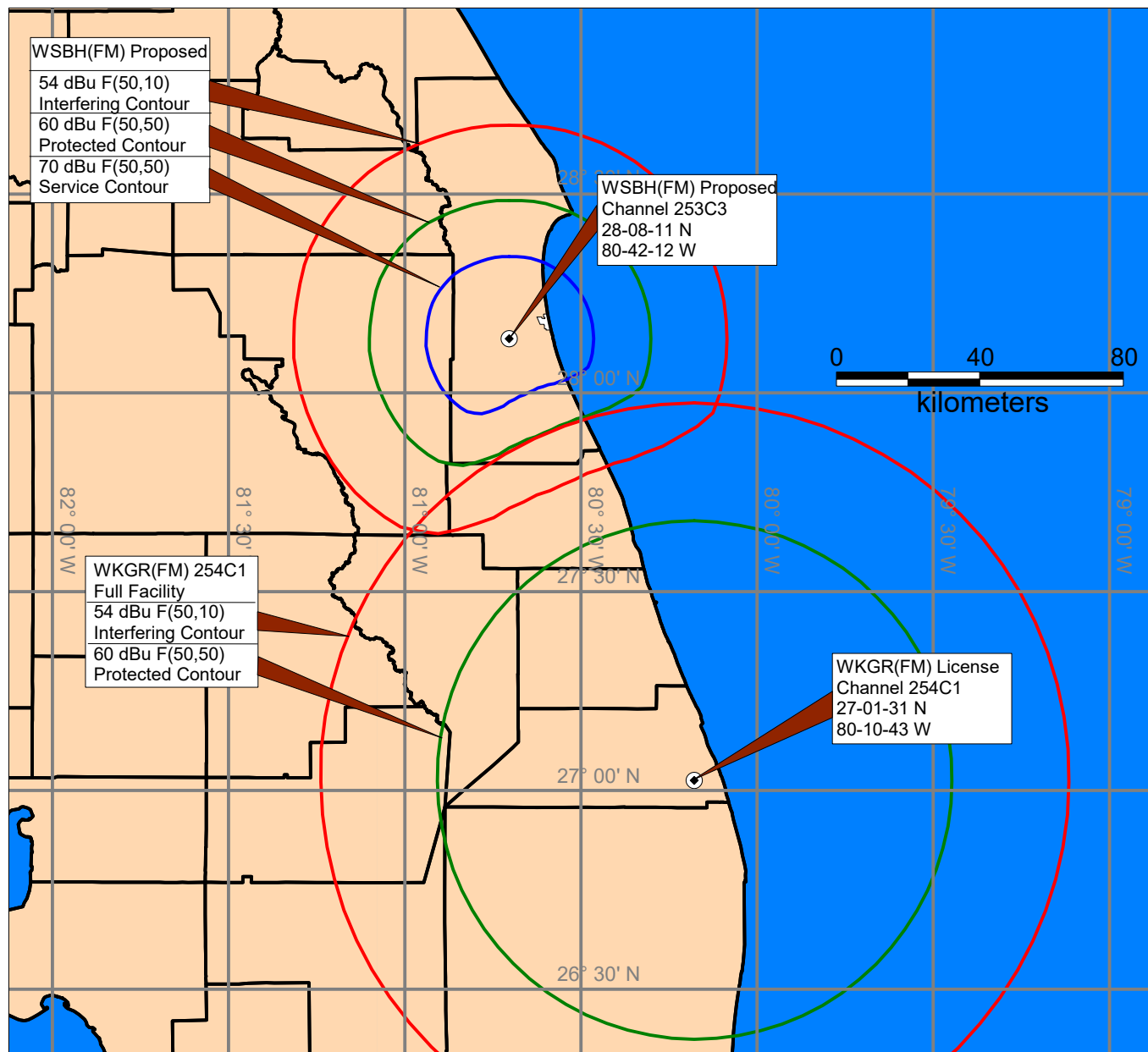
Channel 253C3 Spacing Study at Proposed Site

Callsign	City	ST	Channel	Facility Id #	Status	Distance (km)	Required (km)	Clear (km)
W250BH	MELBOURNE	FL	250D	142447	LIC	10.27	0	10.3
WNUE-FM	DELTONA	FL	251C2	46969	USE	81.02	56	25
WNUE-FM	DELTONA	FL	251C2	46969	LIC	87	56	31
WNUE-FM	DELTONA	FL	251C2	46969	LIC	87	56	31
WWRZ	FORT MEADE	FL	252C2	72687	LIC	118.73	117	1.7
WWRZ	FORT MEADE	FL	252C2	72687	USE	119.7	117	2.7
WSBH*	SATELLITE BEACH	FL	253A	96177	USE	10.64	142	-131.4
WKTK	CRYSTAL RIVER	FL	253C1	18520	USE	220.6	211	9.6
WKTK	CRYSTAL RIVER	FL	253C1	18520	LIC	220.68	211	9.7
WKTK	CRYSTAL RIVER	FL	253C1	18520	LIC	229.98	211	19
WFFY	SAN CARLOS PARK	FL	253C2	58276	LIC	213.56	177	36.6
WHPB-LP	ORLANDO	FL	253LP100	195882	LIC	88.86	78	10.9
W253AG	COCOA	FL	253D	79318	LIC	17.42	0	17.4
WKGR	WELLINGTON	FL	254C1	1245	LIC	133.58	144	-10.4
WKGR	WELLINGTON	FL	254C1	1245	USE	133.58	144	-10.4
WMMO	ORLANDO	FL	255C2	23444	USE	84.31	56	28.3
WMMO	ORLANDO	FL	255C2	23444	LIC	88.87	56	32.9

The proposed WSBH(FM) Class C3 site is over 133 kilometers from the first adjacent WKGR(FM) Class C1 site, thus the 133 kilometer Class C3-C1 first adjacent minimum separation set forth in part 73.215(e) is satisfied.

Figure 2 and Figure 3 demonstrate that the calculated full Class C1 facility WKGR(FM) 54 dB μ F(50,10) interfering contour does not overlap the calculated WSBH(FM) 60 dB μ F(50,50) protected contour nor does the calculated WSBH(FM) 54 dB μ F(50,10) overlap the calculated Class C1 full facility WKGR(FM) 60 dB μ F(50,50) protected contour

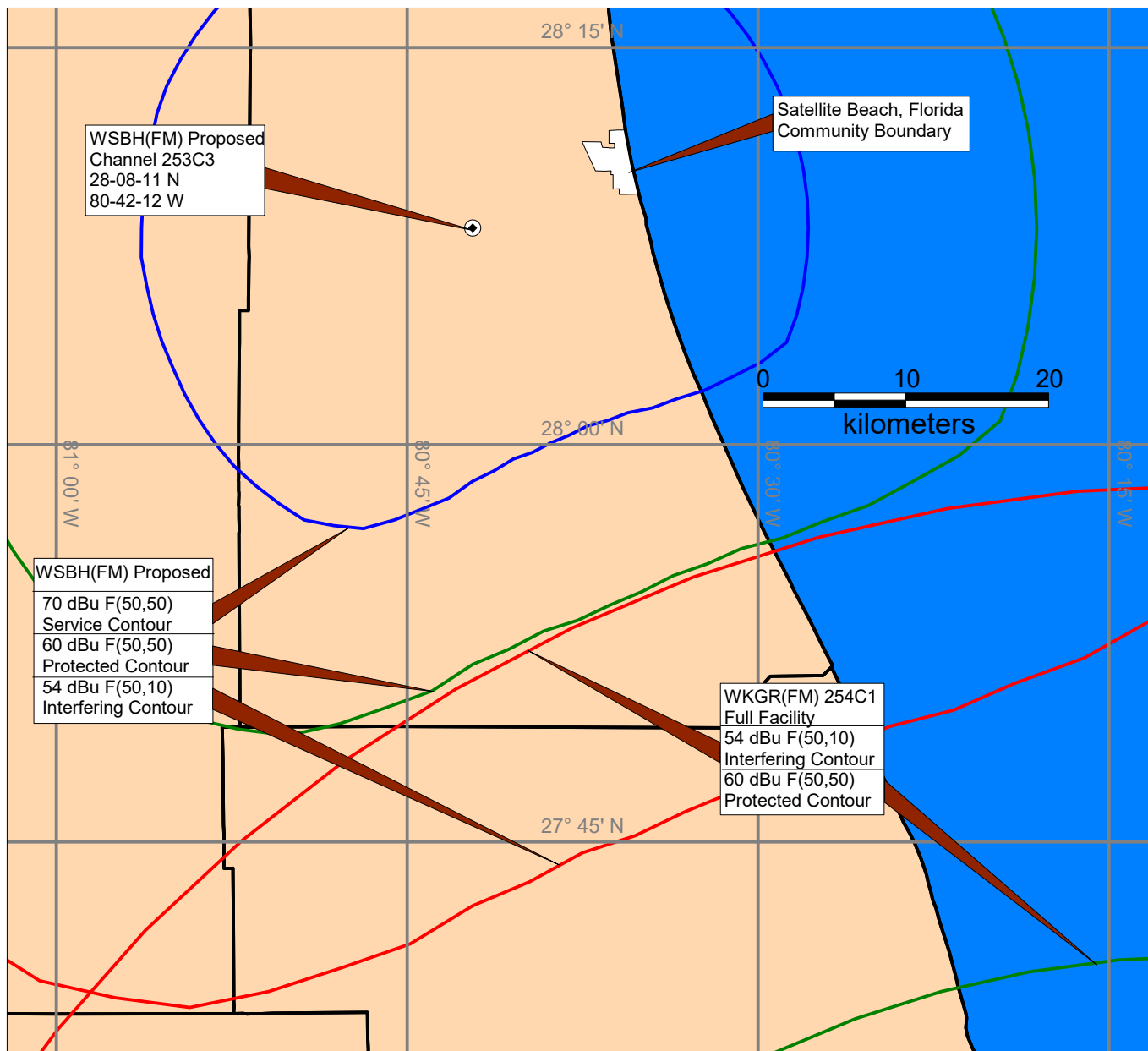
Figure 2
WSBH(FM) Interference Protection Exhibit



INTERFERENCE PROTECTION EXHIBIT

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INTERFERENCE PROTECTION EXHIBIT DETAIL

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