

MINOR CHANGE APPLICATION
SUMTER BAPTIST TEMPLE, INC.
NEW FM TRANSLATOR STATION
CH 224D - 92.7 MHz - 0.25 KW
SUMTER, SOUTH CAROLINA
December 2017

EXHIBIT B

Interference Study for New FM Translator
Using Proposed Site as Reference

The proposed new FM translator on Channel 228D, operating with an effective radiated power of 0.25 kilowatt, will not cause interference to any existing, applied for, or proposed facility. As noted on Exhibit B1, the proposed new translator is within the predicted 60 dBu contour of second adjacent channel station W222BH, Channel 222D, Sumter, South Carolina and third adjacent channel station W227BI, Channel 227D, Sumter, South Carolina. Due to the relationship between the proposed new translator and W222BH and W227BI, a 40 db ratio of the protected and interfering contours applies. The proposed new translator will utilize a Shively 6832-4-HW antenna.

The W222BH contour at the new translator's antenna site is in excess of 70.1 dBu (50/50). The corresponding interfering contour for the new translator is 110.1 dBu (50/10) (Exhibit B2). As shown in the tabulation of desired to undesired contours (Exhibit B3), the new translator's interfering contour (110.1 dBu, FCC 50/10) will not reach ground level. Since the new translator's antenna will be mounted 57.9 meters (190 feet) above ground and there are no structures of comparable height in the vicinity of the proposed new translator antenna, this contour never reaches any potentially occupied space. As such, W222BH will not receive interference from the proposed translator.

The WVBW contour at the new translator's antenna site is in excess of 57.3 dBu (50/50). The corresponding interfering contour for the new translator is 114.7 dBu (50/10) (Exhibit B4). As shown in the tabulation of desired to undesired contours (Exhibit B5), the new translator's interfering contour (114.7 dBu, FCC 50/10) will not reach ground level. Since the new translator's antenna will be mounted 57.9 meters (190 feet) above ground and there are no structures of comparable height in the vicinity of the proposed new translator antenna, this contour never reaches any potentially occupied space. As such, WVBW will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed new FM translator is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address WVSP and/or WVBW, one is respectfully requested.

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EXHIBIT B1

Clearance Study for New Translator
Using Proposed Site as Reference

REFERENCE CH# 224D - 92.7 MHz, Pwr= 0.25 kW, HAAT= 58.3 M, COR= 103 M DISPLAY DATES
 33 55 39.4 N. Average Protected F(50-50)= 10.0 km DATA 12-01-17
 80 19 27.6 W. Omni-directional SEARCH 12-01-17

CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
224D Sumter	1763206!	APP SC	C	348.3 168.3	0.17 BNPFT20170728AFE	33 55 45.0 80 19 29.0	0.250	35.8 103	10.6 Sumter Baptist Temple	-45.3	-42.7
225C Dillon	WEGX	LIC SC	CX	61.8 242.3	104.36 BMLH20140905AAY	34 22 04.0 79 19 21.0	100.000 493	129.4 521	86.7 Amfm Radio Licenses, L.L.c	-35.5*	3.2
222D Sumter	W222BH	LIC SC	C	117.7 297.8	3.14 BLFT20091214AGT	33 54 52.0 80 17 39.0	0.250 170	1.1 212	16.7 Community Broadcasters, Ll	-8.4*	-14.6*
227D Sumter	W227BI	LIC SC	C	290.6 110.5	6.74 BLFT20091002ACJ	33 56 56.0 80 23 34.0	0.085 137	0.6 190	12.0 Community Broadcasters, Ll	-2.7*	-6.4*
223C1 Moncks Corner	WCKN	LIC SC	CX	159.7 339.9	131.47 BMLH20081014AAU	32 49 04.0 79 50 08.0	100.000 237	98.7 239	67.1 Saga Quad States Communica	22.2	49.8
223D Lugoff	W223BG	LIC SC	C	307.4 127.2	44.44 BLFT20050321AQI	34 10 12.0 80 42 29.0	0.027 67	10.3 136	7.3 Bible Broadcasting Network	25.3	24.8
224L1 Columbia	WROP-LP	LIC SC		277.7 97.3	66.37 BLL20161012AAJ	34 00 20.0 81 02 17.0	0.100 30	105	St. Peter's Catholic Schoo	38.3	28.9
223L1 Florence	WYRF-LP	LIC SC		56.8 237.1	57.24 BLL20140514ACW	34 12 30.0 79 48 12.0	0.037 48	85	Radio Free Communications,	39.0	37.2
221C3 Irmo	WCFJ	LIC SC	ZCX	283.3 102.8	75.91 BMLED20160419ABA	34 04 55.0 81 07 36.0	15.000 130	3.1 218	32.4 Radio Training Network, In	63.6	42.3
225D Orangeburg	1763433	APP SC	C	225.3 45.0	67.62 BNPFT20170802AAB	33 29 54.9 80 50 33.4	0.250	13.4 114	9.6 South Carolina State Unive	44.1	43.6

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference Zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtlt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 Reference station has protected zone issue: AM tower

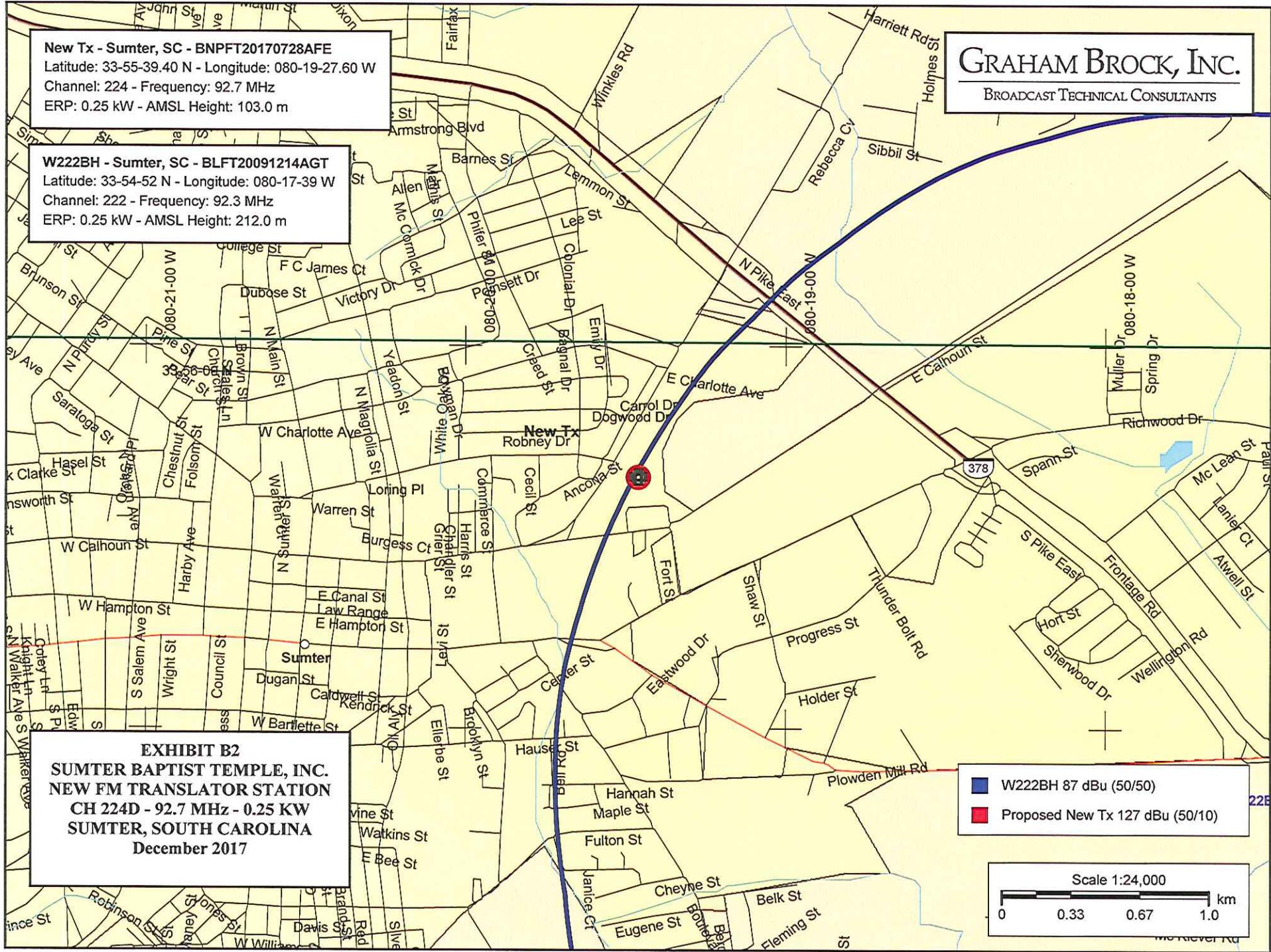
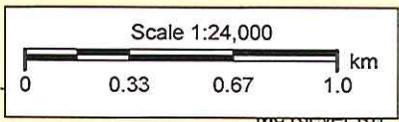
GRAHAM BROCK, INC.
 BROADCAST TECHNICAL CONSULTANTS

New Tx - Sumter, SC - BNPFT20170728AFE
 Latitude: 33-55-39.40 N - Longitude: 080-19-27.60 W
 Channel: 224 - Frequency: 92.7 MHz
 ERP: 0.25 kW - AMSL Height: 103.0 m

W222BH - Sumter, SC - BLFT20091214AGT
 Latitude: 33-54-52 N - Longitude: 080-17-39 W
 Channel: 222 - Frequency: 92.3 MHz
 ERP: 0.25 kW - AMSL Height: 212.0 m

EXHIBIT B2
SUMTER BAPTIST TEMPLE, INC.
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■ W222BH 87 dBu (50/50)
 ■ Proposed New Tx 127 dBu (50/10)



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EXHIBIT B3

1763206 Sumter , SC, Showing Protection to W222BH
74.1204(d) Study - Using FCC 30 SEC Terrain Database
Translator or LPFM Maximum Licensed ERP = 0.25
Translator or LPFM Antenna Height AG = 59 Meters
1763206 Antenna Model = SHIVELY 6832-4-HW

Protected Station's Contour = 87.0 dBu
Translator's or LPFM's full Interference contour 127

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
Distance between stations = 3.1 km
Protected Station= W222BH, .25 kW, 212 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	049.5416	049.5416	059.000
05.00	0.921	1.0	0.2121	045.6278	045.4542	055.023
10.00	0.709	1.0	0.1257	035.1250	034.5914	052.901
15.00	0.424	1.0	0.0449	021.0056	020.2899	053.563
20.00	0.141	1.0	0.0050	006.9854	006.5641	056.611
25.00	0.077	1.0	0.0015	003.8147	003.4573	057.388
30.00	0.199	1.0	0.0099	009.8588	008.5380	054.071
35.00	0.225	1.0	0.0127	011.1469	009.1310	052.606
40.00	0.181	1.0	0.0082	008.9670	006.8691	053.236
45.00	0.102	1.0	0.0026	005.0532	003.5732	055.427
50.00	0.02	1.0	0.0001	000.9908	000.6369	058.241
55.00	0.044	1.0	0.0005	002.1798	001.2503	057.214
60.00	0.082	1.0	0.0017	004.0624	002.0312	055.482
65.00	0.095	1.0	0.0023	004.7065	001.9890	054.735
70.00	0.09	1.0	0.0020	004.4587	001.5250	054.810
75.00	0.073	1.0	0.0013	003.6165	000.9360	055.507
80.00	0.051	1.0	0.0007	002.5266	000.4387	056.512
85.00	0.026	1.0	0.0002	001.2881	000.1123	057.717
90.00	0.0	1.0	0.0000	000.0050	000.0000	058.995

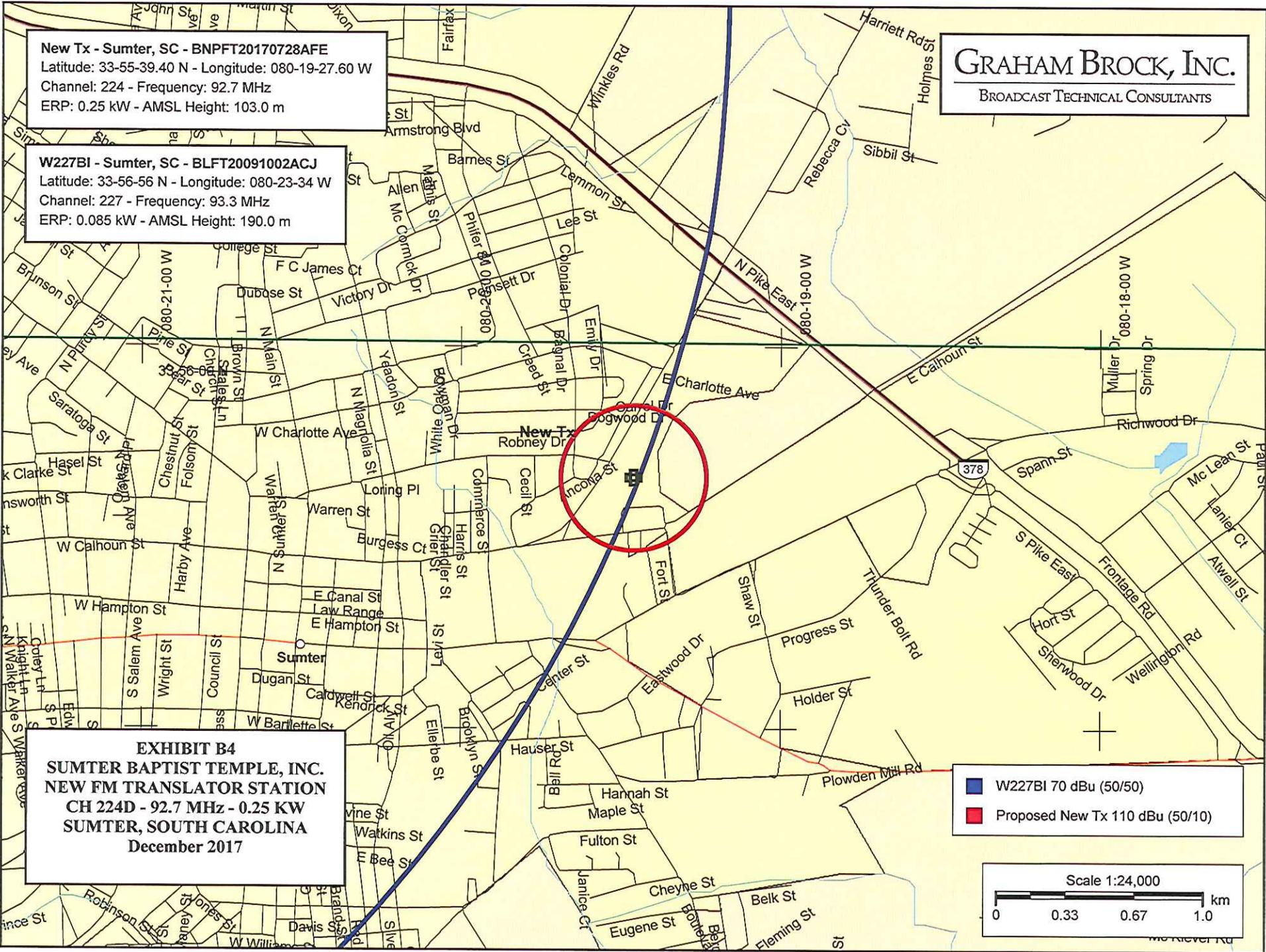
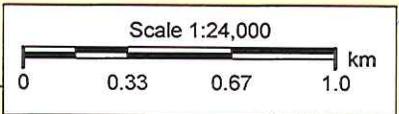
New Tx - Sumter, SC - BNPFT20170728AFE
 Latitude: 33-55-39.40 N - Longitude: 080-19-27.60 W
 Channel: 224 - Frequency: 92.7 MHz
 ERP: 0.25 kW - AMSL Height: 103.0 m

W227BI - Sumter, SC - BLFT20091002ACJ
 Latitude: 33-56-56 N - Longitude: 080-23-34 W
 Channel: 227 - Frequency: 93.3 MHz
 ERP: 0.085 kW - AMSL Height: 190.0 m

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EXHIBIT B4
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■ W227BI 70 dBu (50/50)
 ■ Proposed New Tx 110 dBu (50/10)



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EXHIBIT B5

1763206 Sumter , SC, Showing Protection to W227BI
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 59 Meters
 1763206 Antenna Model = SHIVELY 6832-4-HW

Protected Station's Contour = 70.0 dBu
 Translator's or LPFM's full Interference contour 110

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
 Distance between stations = 6.7 km
 Protected Station= W227BI, .085 kW, 190 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	350.7276	350.7276	059.000
05.00	0.921	1.0	0.2121	323.0202	321.7910	030.847
10.00	0.709	1.0	0.1257	248.6659	244.8881	015.820
15.00	0.424	1.0	0.0449	148.7085	143.6414	020.511
20.00	0.141	1.0	0.0050	049.4526	046.4702	042.086
25.00	0.077	1.0	0.0015	027.0060	024.4758	047.587
30.00	0.199	1.0	0.0099	069.7948	060.4441	024.103
35.00	0.225	1.0	0.0127	078.9137	064.6423	013.737
40.00	0.181	1.0	0.0082	063.4817	048.6298	018.195
45.00	0.102	1.0	0.0026	035.7742	025.2962	033.704
50.00	0.02	1.0	0.0001	007.0146	004.5089	053.627
55.00	0.044	1.0	0.0005	015.4320	008.8514	046.359
60.00	0.082	1.0	0.0017	028.7597	014.3798	034.093
65.00	0.095	1.0	0.0023	033.3191	014.0813	028.803
70.00	0.09	1.0	0.0020	031.5655	010.7960	029.338
75.00	0.073	1.0	0.0013	025.6031	006.6266	034.269
80.00	0.051	1.0	0.0007	017.8871	003.1061	041.385
85.00	0.026	1.0	0.0002	009.1189	000.7948	049.916
90.00	0.0	1.0	0.0000	000.0351	000.0000	058.965

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EXHIBIT B6

N. Lat. = 33° 55' 39.4" - Protected and Interfering Contour Data
W. Lng. = 80° 19' 27.6" - New FM Translator, Sumter, South Carolina

Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field 127-F1	110-F1	100-F1	60-F5	54-F1	40-F1	
000	44.4	58.6	0.2500	-6.02	1.000	0.05	0.35	1.11	10.06	13.99	33.73
010	42.8	60.2	0.2500	-6.02	1.000	0.05	0.35	1.11	10.19	14.17	34.23
020	41.6	61.4	0.2500	-6.02	1.000	0.05	0.35	1.11	10.28	14.30	34.60
030	41.6	61.4	0.2500	-6.02	1.000	0.05	0.35	1.11	10.28	14.29	34.57
040	40.8	62.2	0.2500	-6.02	1.000	0.05	0.35	1.11	10.34	14.37	34.80
050	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
060	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
070	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
080	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
090	38.4	64.6	0.2500	-6.02	1.000	0.05	0.35	1.11	10.51	14.62	35.51
100	34.9	68.1	0.2500	-6.02	1.000	0.05	0.35	1.11	10.76	15.24	36.49
110	36.8	66.2	0.2500	-6.02	1.000	0.05	0.35	1.11	10.63	14.79	35.96
120	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.46	35.05
130	38.1	64.9	0.2500	-6.02	1.000	0.05	0.35	1.11	10.53	14.65	35.57
140	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
150	40.0	63.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.40	14.45	35.05
160	39.3	63.7	0.2500	-6.02	1.000	0.05	0.35	1.11	10.44	14.52	35.23
170	37.5	65.5	0.2500	-6.02	1.000	0.05	0.35	1.11	10.57	14.71	35.75
180	38.5	64.5	0.2500	-6.02	1.000	0.05	0.35	1.11	10.50	14.61	35.46
190	43.6	59.4	0.2500	-6.02	1.000	0.05	0.35	1.11	10.13	14.08	33.98
200	45.7	57.3	0.2500	-6.02	1.000	0.05	0.35	1.11	9.96	13.85	33.31
210	43.9	59.1	0.2500	-6.02	1.000	0.05	0.35	1.11	10.11	14.05	33.91
220	44.0	59.0	0.2500	-6.02	1.000	0.05	0.35	1.11	10.10	14.04	33.87
230	45.5	57.5	0.2500	-6.02	1.000	0.05	0.35	1.11	9.98	13.88	33.39
240	47.1	55.9	0.2500	-6.02	1.000	0.05	0.35	1.11	9.83	13.69	32.83
250	48.0	55.0	0.2500	-6.02	1.000	0.05	0.35	1.11	9.75	13.58	32.52
260	48.9	54.1	0.2500	-6.02	1.000	0.05	0.35	1.11	9.67	13.47	32.20
270	50.3	52.7	0.2500	-6.02	1.000	0.05	0.35	1.11	9.54	13.30	31.71
280	53.8	49.2	0.2500	-6.02	1.000	0.05	0.35	1.11	9.18	12.85	30.44
290	57.3	45.7	0.2500	-6.02	1.000	0.05	0.35	1.11	8.81	12.38	29.23
300	55.9	47.1	0.2500	-6.02	1.000	0.05	0.35	1.11	8.96	12.57	29.72
310	57.3	45.7	0.2500	-6.02	1.000	0.05	0.35	1.11	8.81	12.38	29.23
320	56.7	46.3	0.2500	-6.02	1.000	0.05	0.35	1.11	8.87	12.46	29.43
330	56.2	46.8	0.2500	-6.02	1.000	0.05	0.35	1.11	8.93	12.53	29.62
340	51.3	51.7	0.2500	-6.02	1.000	0.05	0.35	1.11	9.44	13.17	31.34
350	47.6	55.4	0.2500	-6.02	1.000	0.05	0.35	1.11	9.80	13.64	32.68

AMSL= 103 M