

MINOR CHANGE MODIFICATION
BNPFT-20171204AAM
COFFEE COUNTY BROADCASTERS, INC.
W292FQ FM TRANSLATOR STATION
CH 292D - 106.3 MHZ - 0.25 kW
DOUGLAS, GEORGIA
October 2018

EXHIBIT C

Interference Study for W292FQ FM Translator
Using Proposed Site as Reference

The proposed W292FQ translator on Channel 228, 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 C1, the proposed W292FQ translator on Channel 228 is within the predicted 60 dBu contour of second adjacent station WOKA-FM, Channel 294C1, Douglas, Georgia. Due to the relationship between W292FQ and WOKA-FM, a 40 db ratio of the protected and interfering contours applies.

W292FQ vs WOKA-FM

The WOKA-FM contour at the W292FQ antenna site is in excess of 91.1 dBu (50/50). The corresponding interfering contour for W292FQ is 131.1 dBu (50/10) (Exhibit B2). The proposed translator will utilize a four bay, full wavelength spaced antenna. As shown in the tabulation of desired to undesired contours (Exhibit C3), the W292FQ interfering contour (131.1 dBu, FCC 50/10) will not reach ground level. Since the W292FQ antenna will be mounted 108.4 meters (355 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, WOKA-FM will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed W292FQ FM translator on Channel 292 is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address WOKA-FM, one is respectfully requested.

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EXHIBIT C1

REFERENCE		CH# 292D - 106.3 MHz, Pwr= 0.25 kW, HAAT= 105.1 M, COR= 175.9 M								DISPLAY DATES	
31 31 24.3 N.		Average Protected F(50-50)= 13.2 km								DATA 10-08-18	
82 52 22.5 W.		Omni-directional								SEARCH 10-08-18	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
294C1 Douglas	WOKA-FM	LIC	CX GA	4.9 184.9	16.63 BLH20020314AAN	31 40 21.0 82 51 28.0	100.000 299	10.2 377	72.8 Coffee County Broadcasters	-6.8	-57.3*
292D Douglas	W292FQ!	CP	C GA	0.0 270.0	0.00 BNPFT20171204AAM	31 31 24.3 82 52 22.4	0.250	161	---Reference---		
292C2 Fort Valley	WQBZ	LIC	CY GA	329.3 148.8	160.09 BLH19900921KD	32 45 31.0 83 44 49.0	50.000 150	138.3 268	52.5 Amfm Radio Licenses, L.L.c	9.1	62.6
292A Glennville	WOAH	LIC	ZCX GA	70.7 251.3	113.24 BLH20040326ABL	31 51 18.0 81 44 28.0	4.000 121	83.4 143	27.8 Broadcast Executives Corpo	16.3	39.3
292A Boston	WTUF	LIC	CN GA	227.1 46.6	118.50 BLH19970703KB	30 47 40.0 83 46 54.0	6.000 100	85.0 149	26.9 Boston Radio Company, Inc.	20.1	46.0
290C3 Lakeland	WVGA	LIC	NCX GA	213.3 33.2	62.16 BLH20021115AAB	31 03 21.0 83 13 54.0	10.000 100	3.3 170	32.9 Southern Communications, L	45.3	28.0
290D Hazlehurst	W290BR	LIC	C GA	38.2 218.3	46.81 BLFT20120228ACT	31 51 15.0 82 34 00.0	0.250 107	1.1 167	12.6 Broadcast South, Llc	32.8	33.0

Terrain database is NED 03 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), Beamtilt(Y,N,X)
**"affixed to 'IN' or 'OUT' values = site inside restricted contour.

Reference station has protected zone issue: AM tower

W292FQ - Douglas, GA - Proposed
Latitude: 31-31-24.30 N - Longitude: 082-52-22.50 W
Channel: 292D - Frequency: 106.3 MHz
ERP: 0.25 kW - Height (m) AMSL: 175.9

WOKA-FM - Douglas, GA - BLH20020314AAN
Latitude: 31-40-21 N - Longitude: 082-51-28 W
Channel: 294C1 - Frequency: 106.7 MHz
ERP: 100.00 kW - Height (m) AMSL: 377.0

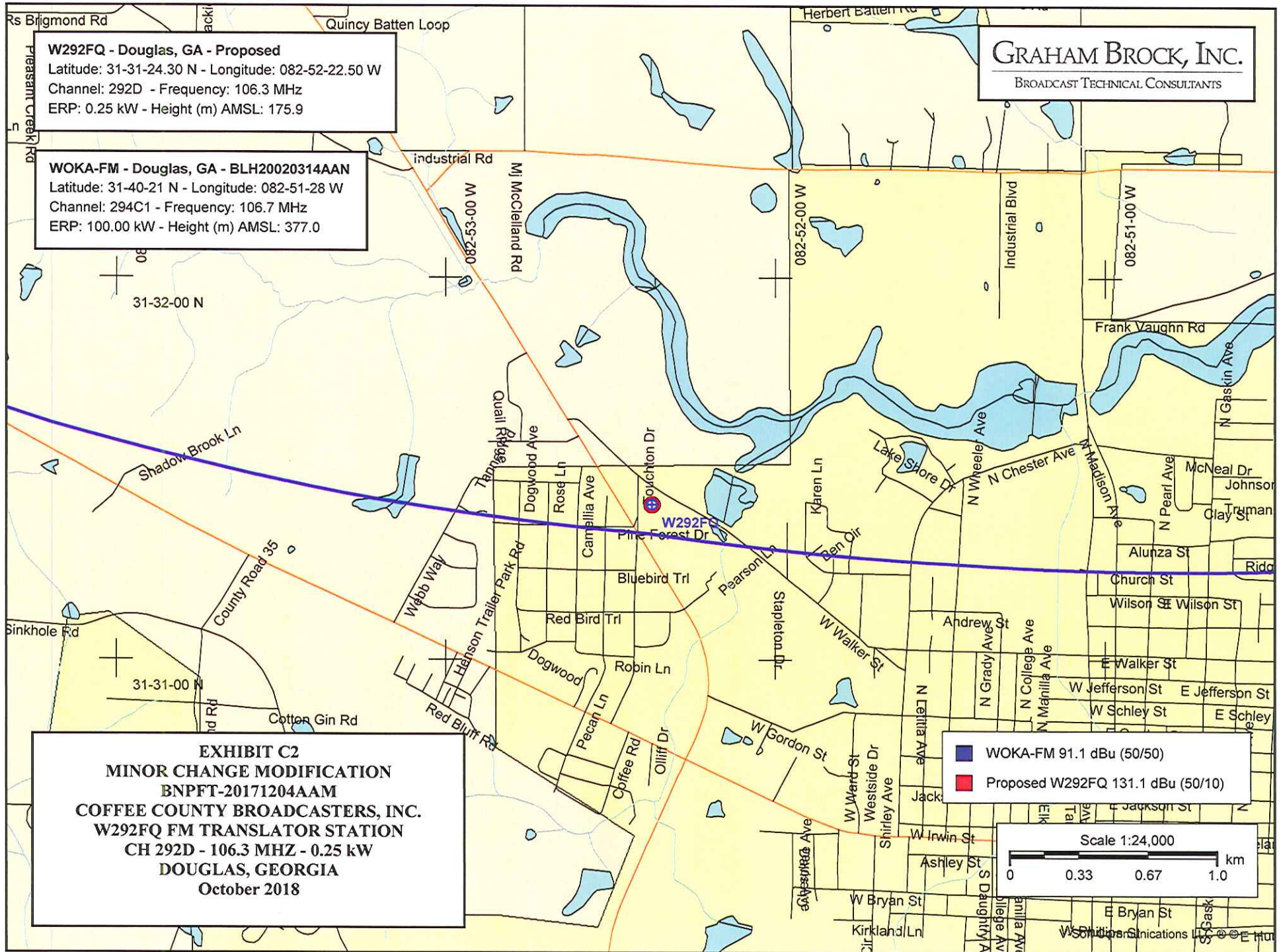


EXHIBIT C2
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EXHIBIT C3

W292FQ Douglas, GA, Showing Protection to WOKA-FM
 Geographic Coordinates: N. 31 31 24.30 W. 82 52 22.5
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 107.25 Meters
 W292FQ Antenna Model = 4 Bay Full Wave

Protected Station's Contour = 91.1 dBu
 Translator's or LPFM's full Interference contour 131.1

Review Azimuth = 0 Degrees True
 Horizontal Relative Field at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizontal at Review Azimuth = 0.25 kW
 Distance between stations = 16.6 km
 Protected Station= WOKA-FM, 100 kW, 377 M Meters COR AMSL

Depression Angle From Degree(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	030.9008	030.9008	107.250
05.00	0.821	1.0	0.1685	025.3696	025.2730	105.039
10.00	0.393	1.0	0.0386	012.1440	011.9595	105.141
15.00	0.033	1.0	0.0003	001.0197	000.9850	106.986
20.00	0.245	1.0	0.0150	007.5707	007.1141	104.661
25.00	0.198	1.0	0.0098	006.1184	005.5451	104.664
30.00	0.006	1.0	0.0000	000.1854	000.1606	107.157
35.00	0.169	1.0	0.0071	005.2222	004.2778	104.255
40.00	0.216	1.0	0.0117	006.6746	005.1130	102.960
45.00	0.126	1.0	0.0040	003.8935	002.7531	104.497
50.00	0.041	1.0	0.0004	001.2669	000.8144	106.279
55.00	0.211	1.0	0.0111	006.5201	003.7398	101.909
60.00	0.332	1.0	0.0276	010.2591	005.1295	098.365
65.00	0.387	1.0	0.0374	011.9586	005.0539	096.412
70.00	0.383	1.0	0.0367	011.8350	004.0478	096.129
75.00	0.34	1.0	0.0289	010.5063	002.7192	097.102
80.00	0.275	1.0	0.0189	008.4977	001.4756	098.881
85.00	0.202	1.0	0.0102	006.2420	000.5440	101.032
90.00	0.126	1.0	0.0040	003.8935	000.0000	103.356

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EXHIBIT C4

North Latitude: 31° 31' 24.3"
West Longitude: 82° 52' 22.5"

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

Azi.	AV EL	HAAT	ERP kW	dBk	Field	131.1-F1	100-F1	60-F5	54-F1	40-F1
000	81.7	94.2	0.2500	-6.02	1.000	0.03	1.11	12.50	18.53	43.02
010	76.0	99.9	0.2500	-6.02	1.000	0.03	1.11	12.85	19.18	44.20
020	80.3	95.6	0.2500	-6.02	1.000	0.03	1.11	12.58	18.69	43.31
030	83.8	92.1	0.2500	-6.02	1.000	0.03	1.11	12.36	18.28	42.55
040	76.4	99.5	0.2500	-6.02	1.000	0.03	1.11	12.83	19.14	44.13
050	70.7	105.2	0.2500	-6.02	1.000	0.03	1.11	13.19	19.77	45.24
060	67.2	108.7	0.2500	-6.02	1.000	0.03	1.11	13.40	20.14	45.88
070	65.6	110.3	0.2500	-6.02	1.000	0.03	1.11	13.50	20.30	46.16
080	63.3	112.6	0.2500	-6.02	1.000	0.03	1.11	13.64	20.54	46.56
090	61.6	114.3	0.2500	-6.02	1.000	0.03	1.11	13.74	20.70	46.83
100	66.0	109.9	0.2500	-6.02	1.000	0.03	1.11	13.47	20.27	46.10
110	67.4	108.5	0.2500	-6.02	1.000	0.03	1.11	13.39	20.12	45.85
120	68.0	107.9	0.2500	-6.02	1.000	0.03	1.11	13.36	20.06	45.75
130	68.6	107.3	0.2500	-6.02	1.000	0.03	1.11	13.32	19.99	45.63
140	80.3	95.6	0.2500	-6.02	1.000	0.03	1.11	12.59	18.69	43.31
150	80.4	95.5	0.2500	-6.02	1.000	0.03	1.11	12.58	18.67	43.28
160	76.7	99.2	0.2500	-6.02	1.000	0.03	1.11	12.81	19.10	44.06
170	76.2	99.7	0.2500	-6.02	1.000	0.03	1.11	12.85	19.16	44.18
180	77.3	98.6	0.2500	-6.02	1.000	0.03	1.11	12.77	19.03	43.94
190	74.8	101.1	0.2500	-6.02	1.000	0.03	1.11	12.93	19.32	44.45
200	76.8	99.1	0.2500	-6.02	1.000	0.03	1.11	12.80	19.09	44.04
210	76.5	99.4	0.2500	-6.02	1.000	0.03	1.11	12.82	19.12	44.10
220	80.1	95.8	0.2500	-6.02	1.000	0.03	1.11	12.60	18.71	43.35
230	81.5	94.4	0.2500	-6.02	1.000	0.03	1.11	12.51	18.55	43.06
240	82.2	93.7	0.2500	-6.02	1.000	0.03	1.11	12.46	18.47	42.91
250	87.2	88.7	0.2500	-6.02	1.000	0.03	1.11	12.14	17.87	41.77
260	88.4	87.5	0.2500	-6.02	1.000	0.03	1.11	12.06	17.72	41.48
270	92.3	83.6	0.2500	-6.02	1.000	0.03	1.11	11.81	17.24	40.55
280	92.1	83.8	0.2500	-6.02	1.000	0.03	1.11	11.82	17.26	40.58
290	94.9	81.0	0.2500	-6.02	1.000	0.03	1.11	11.64	16.91	39.89
300	95.5	80.4	0.2500	-6.02	1.000	0.03	1.11	11.60	16.83	39.75
310	87.9	88.0	0.2500	-6.02	1.000	0.03	1.11	12.10	17.78	41.61
320	85.8	90.1	0.2500	-6.02	1.000	0.03	1.11	12.23	18.03	42.08
330	79.1	96.8	0.2500	-6.02	1.000	0.03	1.11	12.66	18.83	43.57
340	80.7	95.2	0.2500	-6.02	1.000	0.03	1.11	12.56	18.64	43.21
350	85.4	90.5	0.2500	-6.02	1.000	0.03	1.11	12.26	18.09	42.19

AMSL= 175.9