

WPZE - Mableton, GA - BLH20010906AAH  
Latitude: 33-41-20 N / Longitude: 084-30-38 W  
ERP: 3.00 kW - Ch: 273 - 102.5 MHz  
AMSL Height: 416.0 m  
Horiz. Pattern: Omni

**EXHIBIT C**  
**LONG FORM MINOR CHANGE APPLICATION**  
**AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.**  
**NEW FM TRANSLATOR STATION**  
**BNPFT-20030310ACX**  
**CH 273D - 102.5 MHZ - 0.25 KW - DA**  
**GRIFFIN, GEORGIA**  
**April 2013**

Scale 1:500,000

0 7 14 21 km

V-Sat Communications LLC ©

**LONG FORM MINOR CHANGE APPLICATION**  
**AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.**  
**NEW FM TRANSLATOR STATION**  
**BNPFT-20030310ACX**  
**CH 273D - 102.5 MHZ - 0.25 KW - DA**  
**GRIFFIN, GEORGIA**  
**April 2013**

**EXHIBIT C1**

**Interference Study for New Translator on Channel 273. Griffin, Georgia**  
**Using Proposed Site as Reference**

REFERENCE		CH# 273D - 102.5 MHz, Pwr= 0.25 kW DA, HAAT= 109.0 M, COR= 354.7 MDISPLAY DATES									
33 14 24.0 N.		Average Protected F(50-50)= 13.4 km								DATA 03-21-13	
84 14 55.0 W.		Standard Directional								SEARCH 03-21-13	
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*
273A Mableton	WPZE	LIC NC GA		334.1 154.0	55.50 BLH20010906AAH	33 41 20.0 84 30 38.0	3.000 143	81.0 416	27.1 New Mableton Broadcasting	-33.8*<	0.7
272D Griffin	628632	APP C GA		334.6 154.6	8.92 BNPFT20030310ACX	33 18 45.0 84 17 23.0	0.038 47	7.1 300	5.0 Augusta Radio Fellowship I	-6.4*<	-7.8*<
271D Griffin	642946	APP C GA		294.7 114.7	4.06 BNPFT20030317BNP	33 15 19.0 84 17 18.0	0.010 93	0.2 345	5.9 Radio Training Network, In	-6.4*<	-5.0*<
273A Warner Robins	WZCH	LIC NCX GA		143.8 324.1	91.79 BMLED20111024ABE	32 34 20.0 83 40 13.0	4.000 100	75.7 206	22.7 Educational Media Foundati	2.5	22.7
219C3 Peachtree City	WMVW	LIC DCX GA		271.6 91.5	16.89 BLED20100510AKQ	33 14 39.0 84 25 49.0	13.000 75	138.8 323	55.1 Life Radio Ministries Inc	12.0R	4.9M
272D Stockbridge	630833	APP DC GA		7.2 187.3	33.42 BNPFT20030313BNF	33 32 17.5 84 12 11.2	0.055 39	6.9 283	4.8 Best Media, Inc.	15.8	13.3
275C Columbus	WVRK	LIC C GA		206.1 25.8	113.30 BLH20110630AAF	32 19 25.5 84 46 46.0	100.000 478	12.4 600	85.3 Cc Licenses, Llc	88.6	24.2
274C3 Buckhead	WPMA	LIC CX GA		72.1 252.6	96.30 BMLED20090121AEQ	33 30 10.0 83 15 37.0	7.500 181	57.3 335	38.8 Augusta Radio Fellowship In	28.2	42.2
271A Bolingbroke	WWWD	LIC ZCX GA		129.9 310.1	57.36 BLH20050523AHU	32 54 30.0 83 46 37.0	4.500 115	2.3 247	23.6 George S. Flinn, Jr.	41.1	29.4
272C3 Roanoke	WELR-FM	LIC NCN AL		258.2 77.6	103.67 BLH19921118KC	33 02 39.0 85 20 15.0	8.900 166	59.3 390	40.2 Eagle's Nest, Inc.	32.4	46.0
275D Decatur	W275BK	LIC C GA		349.6 169.5	57.05 BLFT20100401AGD	33 44 41.0 84 21 36.0	0.160 304	0.9 580	20.6 Roa Licenses, Llc	47.2	33.8
275D Decatur	W275BK	CP C GA		349.6 169.5	57.05 BPFT20130208AAQ	33 44 41.0 84 21 36.0	0.147	0.9 589	20.4 Roa Licenses, Llc	47.2	33.9

**LONG FORM MINOR CHANGE APPLICATION**  
**AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.**  
**NEW FM TRANSLATOR STATION**  
**BNPFT-20030310ACX**  
**CH 273D - 102.5 MHZ - 0.25 KW - DA**  
**GRIFFIN, GEORGIA**  
**April 2013**

**EXHIBIT C1 (continued)**

**Interference Study for New Translator on Channel 273. Griffin, Georgia**  
**Using Proposed Site as Reference**

REFERENCE CH# 273D - 102.5 MHz, Pwr= 0.25 kW DA, HAAT= 109.0 M, COR= 354.7 MDISPLAY DATES  
 33 14 24.0 N. Average Protected F(50-50)= 13.4 km DATA 03-21-13  
 84 14 55.0 W. Standard Directional SEARCH 03-21-13

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*
272A Buford	WLKQ-FM	LIC	ZCX GA	14.3 194.5	101.14 BLH20030416AAA	34 07 16.0 83 58 35.0	4.200 119	45.1 452	29.6 Davis Broadcasting Of Atla	45.3	56.4
272A Milledgeville	WKZR	LIC	CN GA	100.4 280.9	94.54 BMLH19891227KE	33 04 58.0 83 15 01.0	3.300 91	34.5 213	23.0 Wmvg, Inc.	48.3	54.3
220A Atlanta	WCLK	LIC	ZC GA	345.5 165.4	58.45 BLED20010712ACT	33 44 56.0 84 24 26.0	6.000 94	138.8 372	55.1 Clark Atlanta University	10.0R	48.3M

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adjacent.

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 protected contour.

< = Station meets FCC minimum distance spacing for its class.

< = Contour Overlap

Reference station has protected zone issue:

**LONG FORM MINOR CHANGE APPLICATION**  
**AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.**  
**NEW FM TRANSLATOR STATION**  
**BNPFT-20030310ACX**  
**CH 273D - 102.5 MHZ - 0.25 KW - DA**  
**GRIFFIN, GEORGIA**  
**April 2013**

**EXHIBIT C2**

WPZE - BLH-20010906AAH  
Channel = 273A  
Max ERP = 3 kW  
RCAMSL = 416 M  
N. Lat. 33 41 20.0  
W. Lng. 84 30 38.0

New Translator - As Proposed  
Channel = 273D  
Max ERP = 0.25 kW  
RCAMSL = 354.7 M  
N. Lat. 33 14 24.0  
W. Lng. 84 14 55.0

Protected  
60 dBu

Interfering  
40 dBu

FCC NGDC 30 Second Terrain Database

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
125.0	003.0000	0125.0	026.7	355.9	000.0770	0103.6	034.6	39.31
126.0	003.0000	0125.8	026.8	355.5	000.0757	0103.1	034.2	39.38
127.0	003.0000	0126.8	026.9	355.1	000.0745	0102.7	033.8	39.47
128.0	003.0000	0128.2	027.0	354.7	000.0733	0102.3	033.4	39.57
129.0	003.0000	0129.7	027.1	354.3	000.0721	0101.9	033.0	39.67
130.0	003.0000	0131.2	027.2	353.8	000.0708	0101.5	032.5	39.75
131.0	003.0000	0132.4	027.3	353.3	000.0694	0101.0	032.1	39.81
132.0	003.0000	0133.2	027.4	352.8	000.0678	0100.6	031.8	39.86
133.0	003.0000	0133.5	027.4	352.2	000.0660	0100.2	031.4	39.88
134.0	003.0000	0133.1	027.4	351.4	000.0640	0099.6	031.2	39.82
135.0	003.0000	0132.4	027.3	350.7	000.0618	0099.0	030.9	39.74
136.0	003.0000	0131.5	027.3	349.9	000.0599	0098.2	030.7	39.65
137.0	003.0000	0130.5	027.2	349.0	000.0595	0096.9	030.5	39.59
138.0	003.0000	0129.5	027.1	348.2	000.0591	0095.7	030.4	39.53
139.0	003.0000	0128.8	027.0	347.3	000.0587	0094.4	030.2	39.47
140.0	003.0000	0128.2	027.0	346.5	000.0582	0092.7	030.0	39.37
141.0	003.0000	0127.6	026.9	345.6	000.0578	0091.0	029.9	39.25
142.0	003.0000	0126.8	026.9	344.8	000.0574	0089.5	029.7	39.13
143.0	003.0000	0125.8	026.8	343.9	000.0569	0088.4	029.6	39.04
144.0	003.0000	0124.8	026.7	343.0	000.0565	0087.6	029.6	38.96
145.0	003.0000	0124.1	026.6	342.1	000.0560	0087.1	029.5	38.93
146.0	003.0000	0124.1	026.6	341.2	000.0556	0086.9	029.3	38.94
147.0	003.0000	0125.0	026.7	340.4	000.0552	0086.8	029.2	39.01
148.0	003.0000	0126.6	026.8	339.5	000.0550	0086.8	028.9	39.13
149.0	003.0000	0128.3	027.0	338.7	000.0550	0087.1	028.7	39.30
150.0	003.0000	0130.0	027.1	337.8	000.0550	0087.5	028.5	39.47
151.0	003.0000	0130.9	027.2	336.8	000.0550	0087.7	028.3	39.58
152.0	003.0000	0131.0	027.2	335.9	000.0550	0087.6	028.3	39.60
153.0	003.0000	0130.4	027.2	334.9	000.0550	0087.6	028.3	39.59
154.0	003.0000	0130.1	027.1	334.0	000.0550	0088.0	028.3	39.61
155.0	003.0000	0130.4	027.2	333.0	000.0550	0088.5	028.3	39.67
156.0	003.0000	0131.0	027.2	332.0	000.0550	0088.7	028.3	39.71
157.0	003.0000	0131.0	027.2	331.1	000.0550	0088.6	028.3	39.68
158.0	003.0000	0130.4	027.2	330.1	000.0550	0088.2	028.4	39.57
159.0	003.0000	0129.3	027.1	329.2	000.0554	0087.9	028.6	39.47



**LONG FORM MINOR CHANGE APPLICATION**  
**AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.**  
**NEW FM TRANSLATOR STATION**  
**BNPFT-20030310ACX**  
**CH 273D - 102.5 MHZ - 0.25 KW - DA**  
**GRIFFIN, GEORGIA**  
**April 2013**

**EXHIBIT C3**

Predicted contour:

N. Lat. = 33 14 24 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 84 14 55 - New Translator FM Translator - Griffin, Georgia

HAAT and Distance to Contour - FCC 30 Second Terrain Database									
Azi.	AV EL	HAAT	ERP kW	dBk	Field	100-F1	60-F5	54-F1	40-F1
000	244.6	110.1	0.0900	-10.46	0.600	0.67	10.52	14.79	35.75
010	240.4	114.3	0.0900	-10.46	0.600	0.67	10.71	15.27	36.42
020	239.4	115.3	0.0900	-10.46	0.600	0.67	10.76	15.36	36.58
030	232.5	122.2	0.0900	-10.46	0.600	0.67	11.05	15.93	37.55
040	227.2	127.5	0.0900	-10.46	0.600	0.67	11.27	16.35	38.25
050	228.0	126.7	0.0841	-10.75	0.580	0.64	11.05	15.93	37.50
060	221.8	132.9	0.0751	-11.24	0.548	0.61	11.01	15.84	37.24
070	227.6	127.1	0.0751	-11.24	0.548	0.61	10.77	15.38	36.49
080	230.6	124.1	0.0751	-11.24	0.548	0.61	10.65	15.14	36.10
090	225.8	128.9	0.0870	-10.60	0.590	0.65	11.23	16.29	38.10
100	227.3	127.4	0.1056	-9.76	0.650	0.72	11.71	17.19	39.76
110	221.9	132.8	0.1332	-8.75	0.730	0.81	12.64	18.86	42.74
120	227.3	127.4	0.2025	-6.94	0.900	1.00	13.73	20.69	46.40
130	236.8	117.9	0.2500	-6.02	1.000	1.11	13.95	21.04	47.39
140	241.0	113.7	0.2500	-6.02	1.000	1.11	13.70	20.64	46.73
150	249.4	105.3	0.2500	-6.02	1.000	1.11	13.19	19.77	45.26
160	249.7	105.0	0.2500	-6.02	1.000	1.11	13.18	19.75	45.21
170	239.6	115.1	0.2500	-6.02	1.000	1.11	13.79	20.78	46.96
180	240.1	114.6	0.2500	-6.02	1.000	1.11	13.76	20.73	46.88
190	246.1	108.6	0.2500	-6.02	1.000	1.11	13.39	20.13	45.86
200	259.6	95.1	0.2500	-6.02	1.000	1.11	12.56	18.64	43.21
210	261.4	93.3	0.2500	-6.02	1.000	1.11	12.44	18.42	42.82
220	260.3	94.4	0.2500	-6.02	1.000	1.11	12.51	18.55	43.06
230	267.7	87.0	0.2500	-6.02	1.000	1.11	12.03	17.66	41.37
240	278.3	76.4	0.2500	-6.02	1.000	1.11	11.33	16.32	38.73
250	281.5	73.2	0.2500	-6.02	1.000	1.11	11.11	15.90	37.86
260	265.5	89.2	0.2500	-6.02	1.000	1.11	12.18	17.93	41.89
270	258.5	96.2	0.1600	-7.96	0.800	0.89	11.34	16.43	38.76
280	251.0	103.7	0.1225	-9.12	0.700	0.78	11.02	15.85	37.59
290	255.7	99.0	0.1056	-9.76	0.650	0.72	10.41	14.58	35.26
300	254.5	100.2	0.0900	-10.46	0.600	0.67	10.07	14.08	33.98
310	260.4	94.3	0.0751	-11.24	0.548	0.61	9.34	13.06	31.21
320	268.5	86.2	0.0600	-12.22	0.490	0.54	8.41	11.85	28.00
330	266.5	88.2	0.0550	-12.60	0.469	0.52	8.32	11.73	27.74
340	268.0	86.7	0.0550	-12.60	0.469	0.52	8.25	11.64	27.49
350	256.3	98.4	0.0600	-12.22	0.490	0.54	9.02	12.62	30.12

AMSL= 354.7 M