

**MINOR CHANGE APPLICATION**  
**CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.**  
**W273CA FM TRANSLATOR STATION**  
**CH 273D - 102.5 MHZ - 0.250 KW**  
**ORLANDO, FLORIDA**  
**July 2011**

**EXHIBIT C**

As indicated on Exhibit C1, the proposed operation of W273CA with an effective radiated power of 0.250 kilowatt at 132.6 meters (435.0 feet) above ground level will not cause interference to any existing, applied for, or proposed facility. As noted on Exhibit C1, the proposed W273CA is inside the predicted 60 dBu contour of third adjacent stations WLOQ, Channel 276C2, Windermere, Florida and WJHM, Channel 270C, Daytona Beach, Florida. Due to the relationship between W273CA and WLOQ and WJHM, a 40 db ratio of the protected and interfering contours applies.

We have, therefore, calculated the level of signal of WLOQ and WJHM at the proposed W273CA site. A map showing the WLOQ and WJHM contours at the W273CA site is attached as Exhibit C2. The WJHM contour at the W273CA site is 81.4 dBu (50/50), and the corresponding interfering contour for W273CA is 121.4 dBu (50/10). At its greatest distance, the interfering contour (121.4 dBu) of W273CA extends 0.09 kilometer (296.0 feet) from the proposed W273CA site. The proposed W273CA antenna will be installed at 132.6 meters (435.0 feet) up on the tower. As such, the interfering contour of the proposed W273CA, as it relates to WJHM, will not reach the ground.

The WLOQ contour at the W273CA site is 80.8 dBu (50/50), and the corresponding interfering contour for W273CA is 120.8 dBu (50/10). At its greatest distance, the interfering contour (120.8 dBu) of W273CA extends 0.10 kilometer (328.0 feet) from the proposed W273CA site. The proposed W273CA antenna will be installed at 132.6 meters (435.0 feet) up on the tower. As such, the interfering contour of the proposed W273CA, as it relates to WLOQ, will not reach the ground.

Based on the foregoing, it is believed that the proposed W273CA is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address WLOQ and WJHM, one is respectfully requested, based on the absence of any population affected in the interference area.

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**EXHIBIT C1**

Interference Review for W273CA Orlando, Florida  
Using Proposed Site as Reference

REFERENCE CH# 273D - 102.5 MHZ, Pwr= 0.25 kW, HAAT= 106.1 M, COR= 132.6 M DISPLAY DATES  
28 36 20.2 N. Average Protected F(50-50)= 13.2 km DATA 07-27-11  
81 25 05.0 W. Omni-directional SEARCH 07-27-11

CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
273D Orlando	W273CA	LIC DV FL		253.3 73.2	18.0 BLFT20110705ACM	28 33 32.5 81 35 38.9	0.250	60.2 273	19.4 Central Florida Educational	-54.8*<	-44.7*<
270C Daytona Beach	WJHM	LIC NC FL		15.5 195.5	36.1 BMLH20081010ATQ	28 55 10.0 81 19 08.0	92.000 483	12.2 493	84.8 Cbs Radio Stations Inc.	10.3	-49.8*<
276C2 Windermere	WLOQ	LIC ZCX FL		253.2 73.1	18.0 BLH20090317ACS	28 33 32.0 81 35 39.0	22.000 227	5.7 259	51.9 Gross Communications Corp.	-0.3<	-35.0*<
273C Sarasota	WHPT	LIC CX FL		211.7 31.3	155.9 BMLH20100212AAW	27 24 30.0 82 15 00.0	100.000 503	190.6 520	86.6 Cox Radio, Inc.	-47.4*<	25.6
274C2 Rockledge	WHKR	LIC ZCN FL		114.2 294.5	69.1 BLH20021015ACD	28 20 59.0 80 46 29.0	50.000 132	60.3 134	40.1 Cumulus Licensing Llc	-4.4<	9.3
274D Deltona	W274AY	LIC C FL		22.0 202.1	34.2 BLFT20050729BDE	28 53 29.0 81 17 09.0	0.250 23	10.1 33	7.1 Cornerstone Broadcasting C	10.5	6.7
272D Kissimmee	635722	APP C FL		184.8 4.8	38.2 BNPFT20030313BLO	28 15 44.0 81 27 03.0	0.250 26	10.1 45	7.1 Hispanic Broadcast System,	14.6	11.0
274L1 Umatilla	WUFR-LP	LIC FL		325.5 145.4	43.3 BLL20080612AAR	28 55 36.0 81 40 12.0	0.080 33	7.5 58	5.3 Communication Arts Center,	22.7	18.4
272D St. Cloud	635728	APP C FL		164.5 344.6	49.5 BNPFT20030313BLQ	28 10 30.0 81 16 58.0	0.250 31	10.1 44	7.1 Hispanic Broadcast System,	26.2	22.7
272C2 Dunnellon	WTRS	LIC C FL		304.5 124.0	115.0 BMLH20011214AJZ	29 11 15.0 82 23 40.0	50.000 149	77.1 171	51.3 Asterisk Communications, I	25.0	44.3
274D Haines City	W274BB	LIC C FL		200.2 20.1	58.1 BLFT20090730AEI	28 06 49.0 81 37 23.0	0.010 85	7.6 120	5.5 Central Florida Educational	37.3	32.9
274L1 Lady Lake	1081450	APP FL		305.8 125.5	60.2 BNPL20010615ADM	28 55 16.0 81 55 12.0	0.023 61	6.4 61	4.6 Best Of Life Educational S	40.8	36.3
273D Palm Coast	W273BR	LIC C FL		5.5 185.5	101.7 BLFT20070622ABY	29 31 07.0 81 19 02.0	0.010 373	38.3 381	11.3 Reach Communications, Inc.	49.3	42.7
275D New Smyrna Beach	635354	APP C FL		43.9 224.1	62.3 BNPFT20030312BDM	29 00 32.0 80 58 27.0	0.250 25	1.1 30	7.1 Cornerstone Community Radio	47.6	54.1

Terrain database is 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= East Zone, 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.

< = Contour Overlap

Reference station has protected zone issue: AM tower

**Graham Brock, Inc. - Broadcast Technical Consultants**

**W273CA - Proposed**  
Latitude: 28-36-20.20 N  
Longitude: 081-25-05 W  
ERP: 0.25 kW  
Channel: 273D  
Frequency: 102.5 MHz  
AMSL Height: 161.5 m  
Elevation: 23.0 m  
Horiz. Pattern: Omni  
Prop Model: FCC

**WJHM**  
BMLH-20081010ATQ  
Latitude: 28-55-10 N  
Longitude: 081-19-08 W  
ERP: 92.00 kW  
Channel: 270C  
Frequency: 101.9 MHz  
AMSL Height: 493.0 m  
Elevation: 18.0 m  
Horiz. Pattern: Omni  
Prop Model: FCC

**WLOQ**  
BLH-20090317ACS  
Latitude: 28-33-32 N  
Longitude: 081-35-39 W  
ERP: 22.00 kW  
Channel: 276C2  
Frequency: 103.1 MHz  
AMSL Height: 259.0 m  
Elevation: 38.0 m  
Horiz. Pattern: Directional  
Prop Model: FCC

**Proposed W273CA Site**

**W273CA**

**WJHM 81.4 dBu (50/50)**

**WLOQ 80.8 dBu (50/50)**

**EXHIBIT C2**  
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Scale 1:350,000



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**EXHIBIT C3**

Predicted Contour:

N. Lat. = 28 36 20.2 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 81 25 05.0 - W273CA FM Translator - Orlando, Florida

HAAT and Distance to Contour - NGDC 30 Second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1	120.8-F1	121.4-F1
000	12.8	148.7	0.2500	-6.02	1.000	15.81	51.62	23.74	1.11	0.10	0.09
010	11.9	149.6	0.2500	-6.02	1.000	15.87	51.74	23.82	1.11	0.10	0.09
020	20.6	140.9	0.2500	-6.02	1.000	15.31	50.57	23.06	1.11	0.10	0.09
030	20.6	140.9	0.2500	-6.02	1.000	15.31	50.56	23.06	1.11	0.10	0.09
040	20.5	141.0	0.2500	-6.02	1.000	15.32	50.58	23.07	1.11	0.10	0.09
050	19.4	142.1	0.2500	-6.02	1.000	15.39	50.73	23.17	1.11	0.10	0.09
060	20.6	140.9	0.2500	-6.02	1.000	15.31	50.57	23.06	1.11	0.10	0.09
070	19.5	142.0	0.2500	-6.02	1.000	15.38	50.72	23.16	1.11	0.10	0.09
080	18.6	142.9	0.2500	-6.02	1.000	15.44	50.84	23.24	1.11	0.10	0.09
090	20.2	141.3	0.2500	-6.02	1.000	15.34	50.63	23.10	1.11	0.10	0.09
100	23.2	138.3	0.2500	-6.02	1.000	15.15	50.22	22.84	1.11	0.10	0.09
110	25.7	135.8	0.2500	-6.02	1.000	14.99	49.88	22.61	1.11	0.10	0.09
120	29.9	131.6	0.2500	-6.02	1.000	14.74	49.30	22.24	1.11	0.10	0.09
130	30.7	130.8	0.2500	-6.02	1.000	14.69	49.20	22.18	1.11	0.10	0.09
140	31.1	130.4	0.2500	-6.02	1.000	14.67	49.13	22.13	1.11	0.10	0.09
150	28.7	132.8	0.2500	-6.02	1.000	14.81	49.46	22.35	1.11	0.10	0.09
160	28.4	133.1	0.2500	-6.02	1.000	14.83	49.51	22.38	1.11	0.10	0.09
170	26.1	135.4	0.2500	-6.02	1.000	14.97	49.82	22.58	1.11	0.10	0.09
180	24.0	137.5	0.2500	-6.02	1.000	15.10	50.10	22.76	1.11	0.10	0.09
190	24.2	137.3	0.2500	-6.02	1.000	15.09	50.09	22.75	1.11	0.10	0.09
200	28.1	133.4	0.2500	-6.02	1.000	14.85	49.55	22.40	1.11	0.10	0.09
210	35.4	126.1	0.2500	-6.02	1.000	14.42	48.55	21.77	1.11	0.10	0.09
220	37.7	123.8	0.2500	-6.02	1.000	14.29	48.23	21.56	1.11	0.10	0.09
230	38.2	123.3	0.2500	-6.02	1.000	14.25	48.16	21.52	1.11	0.10	0.09
240	38.4	123.1	0.2500	-6.02	1.000	14.25	48.14	21.51	1.11	0.10	0.09
250	38.1	123.4	0.2500	-6.02	1.000	14.26	48.18	21.53	1.11	0.10	0.09
260	33.7	127.8	0.2500	-6.02	1.000	14.51	48.77	21.91	1.11	0.10	0.09
270	30.0	131.5	0.2500	-6.02	1.000	14.74	49.30	22.24	1.11	0.10	0.09
280	27.5	134.0	0.2500	-6.02	1.000	14.88	49.62	22.45	1.11	0.10	0.09
290	28.4	133.1	0.2500	-6.02	1.000	14.83	49.51	22.38	1.11	0.10	0.09
300	29.1	132.4	0.2500	-6.02	1.000	14.79	49.41	22.31	1.11	0.10	0.09
310	32.9	128.6	0.2500	-6.02	1.000	14.56	48.89	21.98	1.11	0.10	0.09
320	30.2	131.3	0.2500	-6.02	1.000	14.72	49.26	22.21	1.11	0.10	0.09
330	27.7	133.8	0.2500	-6.02	1.000	14.87	49.61	22.44	1.11	0.10	0.09
340	23.0	138.5	0.2500	-6.02	1.000	15.16	50.24	22.85	1.11	0.10	0.09
350	14.8	146.7	0.2500	-6.02	1.000	15.68	51.35	23.57	1.11	0.10	0.09

AMSL= 161.5 M