

EXHIBIT 12 – COMPREHENSIVE TECHNICAL EXHIBIT

Discussion

This application is being filed in the first of the 250 mile Translator Modification Application Filing Windows for AM Stations (DA15-1491). The proposed primary station is Class D WRIX (AM), Homeland Park, SC.

The purpose of this application is to change the location, of W264CS from Hillsdale, GA (construction permit BNPFT-20130826AFT) to Anderson, SC, a distance of 217.966 miles. The power is increased from 10 watts nondirectional to 250 watts directional, with a change in frequency to Channel 284. This is a minor change under the terms of FCC DA 15-1491.

This application meets the requirement concerning translator and AM primary station contours in that the Primary station is a class D AM, and the proposed translator 60 dBu contour is contained within the 2 mV/m contour of primary station WRIX and the translator 60 dBu does not extend more than 25 miles from the WRIX transmitter. This is demonstrated on a map in **Figure 4** of this exhibit.

Contour Overlap Requirements

A study of all relevant co-channel, 1st, 2nd, and 3rd adjacent channels and I.F. relationships reveals the absence on any conflict (see **Figure 1** below). The close relationship with WROO, Mauldin, SC is explored in **Figure 2 & 3**, demonstrating the lack of contour overlap.

(NOTE: Terrain Database is NED 03)

w264CS Minor Mod (250) The Power Foundation CH# 284D - 104.7 MHz, Pwr= 0.25 kw DA, HAAT= 77.4 M, COR= 307 M Average Protected F(50-50)= 11.4 km Standard Directional											
REFERENCE 34 31 55.8 N. 82 41 36.2 W.			DISPLAY DATES DATA 07-23-16 SEARCH 07-23-16								
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*
284C1 Athens	WFSH-FM	LIC	CX GA	235.0 54.4	127.93 BMLH20060726APQ	33 52 02.0 83 49 44.0	24.000 505	162.2 772	72.3 South Texas Broadcasting,	-46.1*	14.9
285C3 Mauldin	WROO	LIC	NCX SC	31.6 211.8	50.81 BLH20150828ABF	34 55 16.0 82 24 05.0	2.300 288	56.7 590	37.7 Clear Channel Broadcasting	-14.7*	0.5
283A Highlands	WHLC	CP	CX NC	322.8 142.5	73.96 BPH20150123AHK	35 03 40.0 83 11 05.0	0.540 330	53.9 1338	34.7 Charisma Radio Corp.	9.0	21.7
283A Highlands	WHLC	LIC	C NC	322.8 142.5	73.96 BLH19990302KF	35 03 40.0 83 11 05.0	0.460 353	51.5 1330	33.0 Charisma Radio Corp.	11.4	23.5
281D Hartwell	W281BS	CP	C GA	233.3 53.2	32.41 BMPFT20160129ALQ	34 21 28.0 82 58 36.0	0.250	1.1 308	13.0 Bryan Hicks & Bruce Hicks,	19.4	18.2
284C1 Columbia	WNOK	LIC	DCX SC	104.0 285.0	169.11 BLH20031030AAR	34 09 03.0 80 54 36.0	90.000 315	132.9 419	54.8 Capstar Tx, LLC	25.1	72.7

284C0 WKQC Charlotte	LIC DCY NC	65.8 247.0	199.71 BLH19920416KB	35 15 06.0 80 41 12.0	100.000 369	162.5 570	69.2 wkis License Limited Partn	27.5 95.9
283L1 WYCJ-LP Simpsonville	LIC SC	60.5 240.8	50.52 BLL20030605ACI	34 45 18.0 82 12 43.0	0.089 32	278	31.9 The Church In Simpsonville	30.8
287A WSGC-FM Tignall	LIC NCX GA	186.9 6.9	60.78 BLH20151015AFY	33 59 22.0 82 46 23.0	6.000 100	2.6 242	25.7 Georgia-carolina Radiocast	45.7 33.0
286C3 WNGA Clermont	LIC C GA	272.5 91.9	99.37 BLED20140404AAE	34 33 58.0 83 46 40.0	3.100 282	3.2 728	40.6 Educational Media Foundati	84.4 57.6
285D W285FD Franklin	LIC DC NC	326.7 146.3	106.03 BLFT20160311AAF	35 19 38.0 83 20 09.0	0.113	37.2 1535	24.3 Sutton Radiocasting Corpor	57.6 64.6
287D W287CD Scaly	LIC DH NC	316.7 136.4	76.98 BLFT20160428ACM	35 02 06.0 83 16 23.0	0.051 465	0.1 1378	5.5 Charisma Radio Corp.	65.5 60.7
283D W283CG Inman	LIC DC SC	52.1 232.5	81.62 BLFT20160504ABR	34 58 51.6 81 59 10.6	0.250	9.9 381	7.0 Ted A Mccall	61.9 61.2
284D W284CO Hendersonville	LIC C NC	10.8 190.9	97.86 BLFT20160708AAB	35 23 48.0 82 29 29.0	0.030	13.2 733	4.1 Jbn, Inc.	74.4 61.2
282C0 WBBQ-FM Augusta	LIC NCY GA	147.2 327.7	146.51 BLH20120403ACE	33 25 16.6 81 50 18.6	80.000 436	11.2 517	79.5 Capstar Tx, LLC	123.0 65.6
231A WGFJ Cross Hill	LIC ZCX SC	116.7 297.1	80.68 BMLD20100511ABZ	34 12 16.0 81 54 37.0	3.600 127	0.3 272	6.5 Radio Training Network, In	9.5R 71.2M
281A WNCC Franklin	LIC C NC	326.7 146.3	106.03 BLH20160412AAK	35 19 38.0 83 20 09.0	0.115 681	0.8 1538	25.9 Sutton Radiocasting Corpor	94.1 79.0
282A WQNQ Fletcher	LIC CX NC	9.1 189.2	112.09 BLH20050323AAV	35 31 39.0 82 29 49.0	0.470 349	1.5 1075	29.9 Clear Channel Broadcasting	100.3 81.2
285D W285EP Thomson	LIC C GA	172.1 352.2	118.95 BLFT20121019AAG	33 28 20.0 82 31 02.0	0.250 125	22.9 265	15.2 Camellia City Communicatio	84.3 87.0
287C1 WOSF Gaffney	LIC CX SC	55.6 236.5	165.53 BLH20100429ADK	35 21 51.0 81 11 13.0	51.000 395	9.4 644	71.6 Gaffney Broadcasting, LLC	146.2 92.9
286A WQNS Woodfin	LIC ZCX NC	3.8 183.9	118.69 BLH20150807AAE	35 35 50.4 82 36 20.6	6.000 62	2.2 766	22.5 Clear Channel Broadcasting	106.0 94.0
284A WLNQ White Pine	LIC NCX TN	346.5 166.2	192.69 BLH20120330AOX	36 13 00.0 83 11 38.0	2.800 150	86.7 518	30.3 Bristol Broadcasting Compa	95.5 124.4
282A WZTR Dahlonega	LIC ZCX GA	268.8 88.0	132.77 BLH20040709ACR	34 29 56.0 84 08 32.0	3.700 127	3.0 602	33.1 Grady W. Turner	117.9 98.0

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.
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.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: AM tower

Figure 1

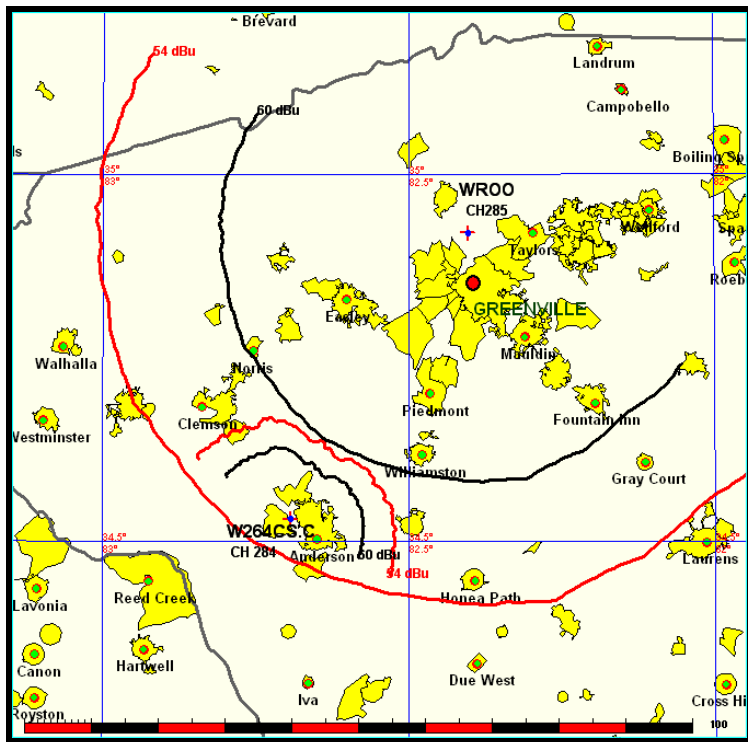


Figure 2

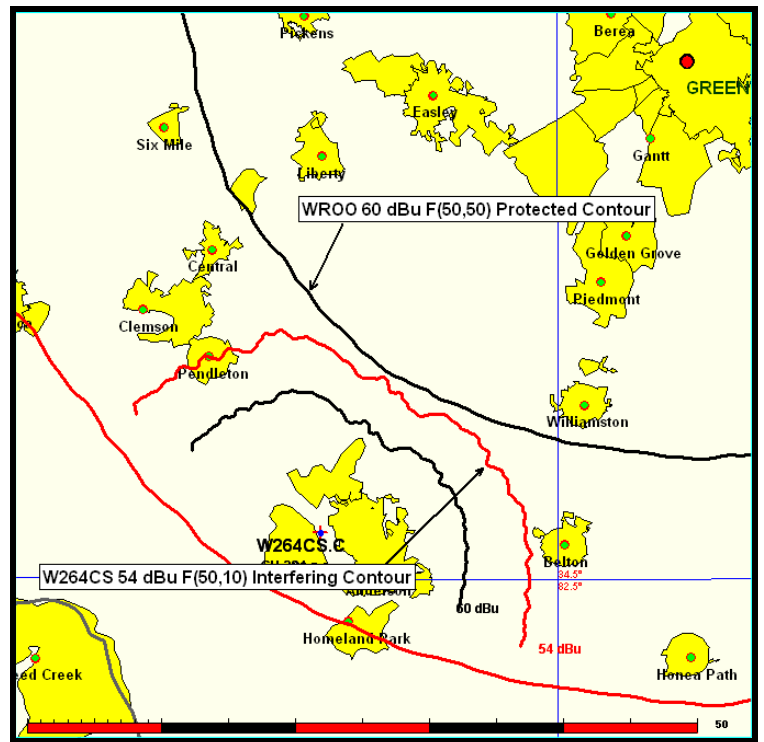


Figure 3

"FILL-IN" QUALIFICATION

W264CS as "fill-in" FM Translator for WRIX(AM)

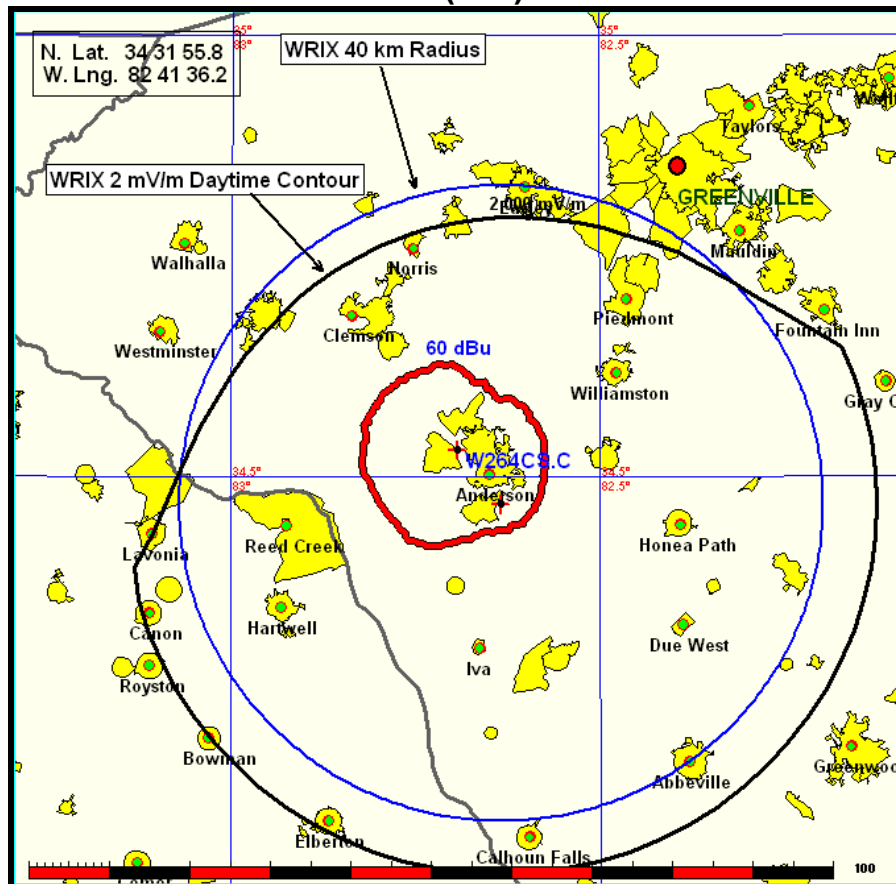


Figure 4

TOWAIR Determination Results

Structure does not require registration. The structure meets the 6.10-meter (20-foot) Rule criteria.	
Your Specifications	
NAD83 Coordinates	
Latitude	34-31-56.1 north
Longitude	082-41-35.7 west
Measurements (Meters)	
Overall Structure Height (AGL)	59
Support Structure Height (AGL)	53
Site Elevation (AMSL)	248
Structure Type	
BPIPE - Building with Pipe	

Environmental Compliance

Applicant proposes to mount the antenna on an 18 foot pipe atop a grain elevator, The Center-of-Radiation will be 59 meters AGL. The facility will radiate a maximum 250 watts H & V using an EPA Type 2 Opposed V Dipole, single bay antenna.

Using the online FCC FMModel software, the maximum worst case RF electromagnetic exposure is calculated to be 1.414 uW/cm² at a distance of 58.4 meters from the base of the supporting structure. This is well below the limitations set for both controlled and uncontrolled access. Access to the grain elevator roof is restricted by a locked hatch.

The permittee/licensee in coordination with other users of the site will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.