

EXHIBIT 12 – COMPREHENSIVE TECHNICAL EXHIBIT

Applicant proposes a new FM Translator on Channel 250 as a “fill-in” translator for Class B AM station WWQT, TRYON, NC, FCC ID # 154614.

Contour Overlap Requirements

A study of all relevant co-channel, 1st, 2nd, and 3rd adjacent channels and I.F. relationships reveals the absence of any conflict (see **Figure 1** below). The close relationship with FM Translator W251AO Asheville, NC is explored in **Figures 2 & 3**, showing the absence of any contour overlap.

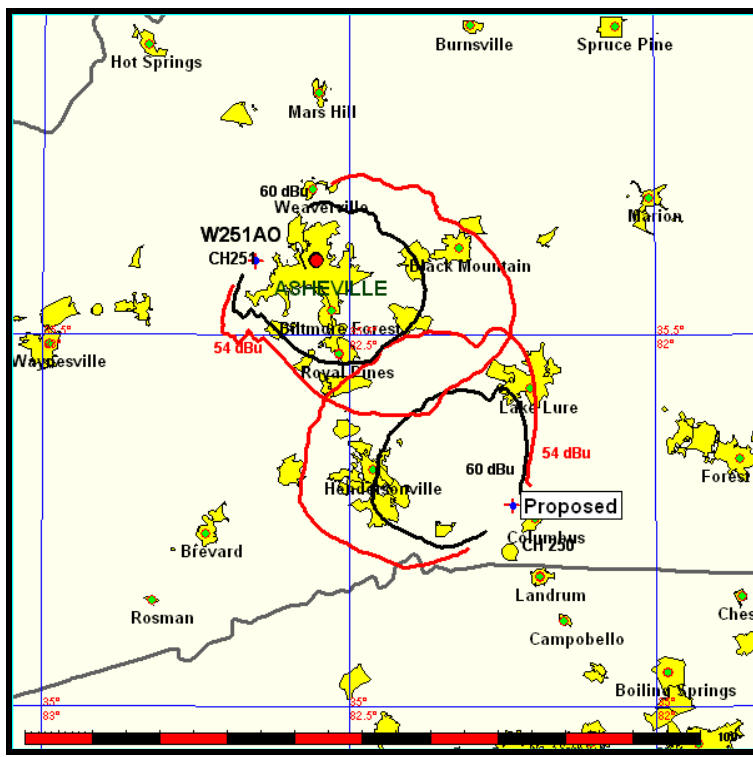
(NOTE: Terrain Database is NED 03)

NEW WWQT FM TRANSLATOR The Power Foundation CH# 250D - 97.9 MHz, Pwr= 0.103 kW DA, HAAT= 575.0 M, COR= 1008 M Average Protected F(50-50)= 25.4 km Standard Directional											
REFERENCE 35 16 18.6 N. 82 13 59.6 W.		DISPLAY DATES DATA 01-22-18 SEARCH 01-23-18									
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*	
250C Concord	WPEG	LIC DEX NC	83.8 264.4	98.30 BMLH20121024AAF	35 21 44.0 81 09 19.0	95.000 491	177.7 727	76.8 Wpow License Limited Partn	-81.3*	6.4	
251C0 Williamston	WHZT	LIC CX SC	226.8 46.4	94.52 BLH20120905ACG	34 41 15.0 82 59 13.0	100.000 304	106.4 554	73.5 Sm-whzt, Llc	-26.4*	0.6	
251D Asheville	W251AO	LIC DC NC	314.1 133.9	52.71 BLFT20080404ADP	35 36 04.0 82 39 07.0	0.250 326	34.5 1034	22.0 Saga Communications Of Nor	-1.7	0.1	
249D Asheville	W249AR	LIC C NC	311.6 131.4	53.31 BLFT20000811AAU	35 35 23.0 82 40 26.0	0.100 358	33.1 1089	21.5 Entercom License, Llc	-0.2	0.8	
249D Greenville	W249DL	LIC DC SC	202.6 22.5	40.58 BLFT20170123AAC	34 56 05.0 82 24 16.0	0.250	30.0 627	21.4 Ted A Mccall	2.0	14.9	
253D Ariat	W253BG	LIC C SC	202.6 22.5	40.58 BLFT20130116AEJ	34 56 05.0 82 24 16.0	0.250 320	1.1 619	22.9 Ted A Mccall	30.4	17.6	
247D Asheville	W247BV	CP DV NC	314.1 133.9	52.71 BPFT20170821AAQ	35 36 05.0 82 39 06.0	0.250	1.1 1023	25.3 Saga Communications Of Nor	31.3	26.6	
247D Asheville	W247BV	LIC DV NC	314.1 133.9	52.71 BLFT20150922ADC	35 36 05.0 82 39 06.0	0.099	0.1 1023	5.5 Saga Communications Of Nor	32.3	33.5	
252D Spartanburg	W252DQ	LIC DC SC	139.9 320.0	43.27 BLFT20170216ADM	34 58 26.0 81 55 37.0	0.250	1.1 293	7.1 Fmx Llc	40.1	35.7	
252D Spartanburg	W252DQ	CP DC SC	138.7 318.9	56.95 BPFT20170718AAA	34 53 10.6 81 49 15.9	0.250	1.1 479	21.0 Fmx Llc	53.8	35.8	
253C Kingsport	WTFM	LIC ZCY TN	3.8 183.9	129.23 BLH19950213KA	36 25 54.0 82 08 15.0	74.000 683	13.2 1305	91.8 Holston Valley Broadcastin	98.7	37.0	
247D Greenville	W247AB	LIC CN SC	198.1 18.0	49.08 BLFT19930907TD	34 51 07.0 82 24 00.0	0.019 78	0.3 367	4.5 Isothermal Community Colle	40.3	43.9	
249D Lake Toxaway	W249CY	LIC DH NC	257.4 76.9	69.89 BLFT20160802ACE	35 07 55.0 82 59 00.0	0.009 539	4.4 1465	3.1 Charisma Radio Corp.	45.8	40.5	
249C1 Lexington	WMGZ	RSV-A GA	205.0 24.6	159.87	33 58 00.0 82 58 00.0	100.000 299	105.5 469	73.0 Southern Stone Broadcastin	44.2	83.1	
250L1 Greeneville	WOFB-LP	LIC TN	332.5 152.2	112.39 BLL20160616ABU	36 10 03.0 82 48 38.0	0.029 55	493	79.7 Our Father's Business, Inc		45.2	
250D Newport	W250BR	LIC C TN	311.6 131.1	118.01 BMLFT20160301ABQ	35 58 23.0 83 12 49.0	0.250	23.8 391	7.1 Edgewater Broadcasting, In	73.6	46.4	

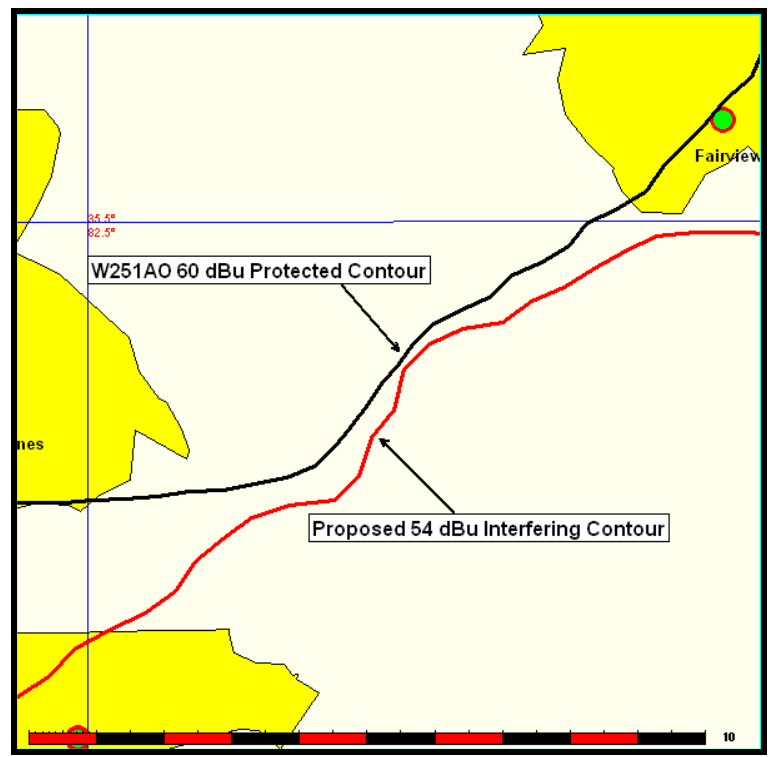
248D W248CM Waynesville	LIC DV NC	289.7 72.62 109.2 BLFT20160303ABP	35 29 22.0 0.250 82 59 19.0	1.1 7.1 50.4 64.8 849 Saga Communications Of Nor
247C WKBC-FM North Wilkesboro	LIC DE NC	47.8 133.97 228.5 BLH19970711KA	36 04 34.0 100.000 81 07 43.0 403	10.4 76.2 113.2 57.2 803 Wilkes Broadcasting Compan
252D W252DN Balsam	LIC DC NC	285.2 82.00 104.7 BLFT20161123ACX	35 27 43.0 0.010 83 06 26.0	0.2 13.2 60.8 66.6 1850 Western North Carolina Pub
249C1 WMGZ Lexington	CPX ZCX GA	197.6 165.77 17.2 BPH20160413AAI	33 50 56.5 100.000 82 46 28.5 157	89.9 59.4 66.8 101.9 313 Southern Stone Broadcastin
251C WBRF Galax	LIC DEN VA	41.1 191.31 222.0 BLH19910423KA	36 33 34.0 100.000 80 49 25.0 535	110.0 74.8 69.3 112.6 1149 Blue Ridge Radio, Inc.
251D W251CJ Bristol	CP DC TN	3.8 129.20 183.8 BPFT20170717AAG	36 25 53.0 0.250 82 08 16.0	31.8 20.6 80.1 83.4 1321 Holston Valley Broadcastin
247D W247BR Anderson	LIC DC SC	204.2 93.04 24.0 BLFT20150910ABT	34 30 29.0 0.080 82 39 01.0	0.6 6.2 82.5 86.0 289 Bible Broadcasting Network
252D W252BU Dallas	LIC C NC	88.1 101.47 268.7 BLFT20100125AAE	35 17 50.0 0.250 81 06 56.0 194	1.1 17.5 98.3 83.8 413 Radio Training Network, In
250L1 WLHR-LP Maryville	LIC TN	290.4 163.63 109.4 BLL20130711AAU	35 46 19.2 0.100 83 56 02.2 17	123.9 90.3 334 East Maryville Baptist Chu Page # 2
248C WJXB-FM Knoxville	LIC CY TN	298.6 174.09 117.6 BLH19890928KC	36 00 36.0 100.000 83 55 57.0 395	12.0 82.2 141.0 91.2 706 Midwest Communications, In
248C1 WCOS-FM Columbia	LIC CN SC	139.1 165.58 319.8 BLH19900927KC	34 08 23.0 100.000 81 03 22.0 299	10.0 71.7 153.5 93.5 392 Capstar Tx, LLC

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

Figure 1



W251AO vs Proposed
Figure 2



W251AO vs Proposed expanded
Figure 3

“Fill-in” Qualification – see Figure 4

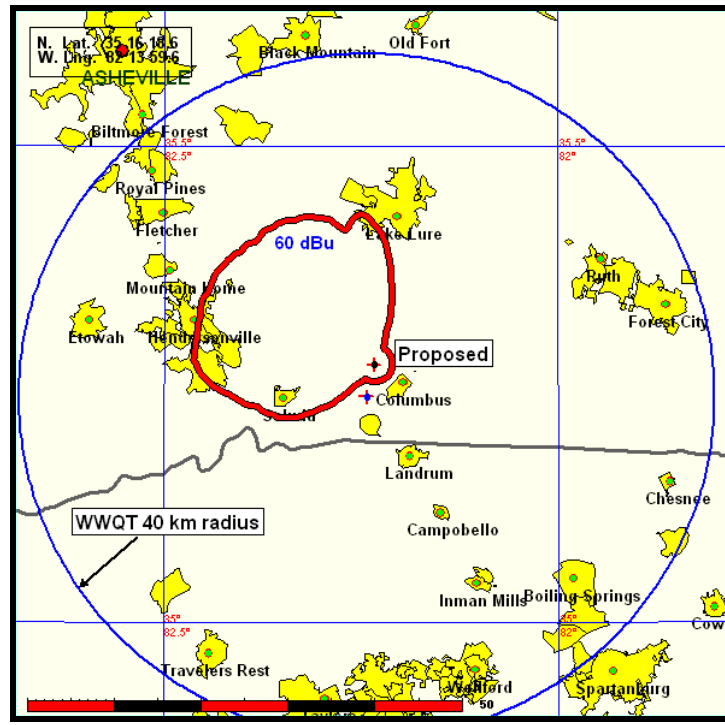


Figure 4

Environmental Compliance

There will be no new construction. The proposed antenna will be mounted on an existing registered tower with the Center of Radiation at 107 meters AGL. Downward radiation from the proposed Scala/Kathrein CLFM Yagi antenna with vertical only polarization is minimal. In the worst case, using the FCC FM Model software, projecting radiation from a vertical dipole would yield 0.0614 uW/cm^2 125 meters from the tower base. This is well below the 5% contribution level required for consideration.

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.