

FM Translator W268DL FI 156087

Ted A McCall

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This technical narrative and exhibits were prepared by Ted A McCall, Licensee of W268DL Facility ID 156087, Anderson, SC. Ted A McCall is filing a minor modification application for proposed operation on non-adjacent channel 240 from its current location at an existing tower, ASR 1215172. The current antenna is a broadband Nicom BKG-77-2-3/4 WS and will be used on the new frequency. There will be no changes to the antenna and feed system on the co-located WRIX (AM) Tower.

W268DL will be used as a fill-in translator for WLFJ-FM, Facility ID 54856, Greenville SC and will rebroadcast the HD2 digital channel of WLFJ-FM. Ted A McCall has written permission to rebroadcast WLFJ-FM. The modified W268DL will operate on Channel 240 with its current non-directional antenna 70 meters above ground and 220 watts ERP.

A FM channel study was made with Radio Soft ComStudy 2.2 to determine a usable channel. Section 74.1204 contour protection exhibits are included to demonstrate protection to other nearby broadcast facilities.

This application includes a request for non-adjacent channel change.

Non-Adjacent Channel Change Request

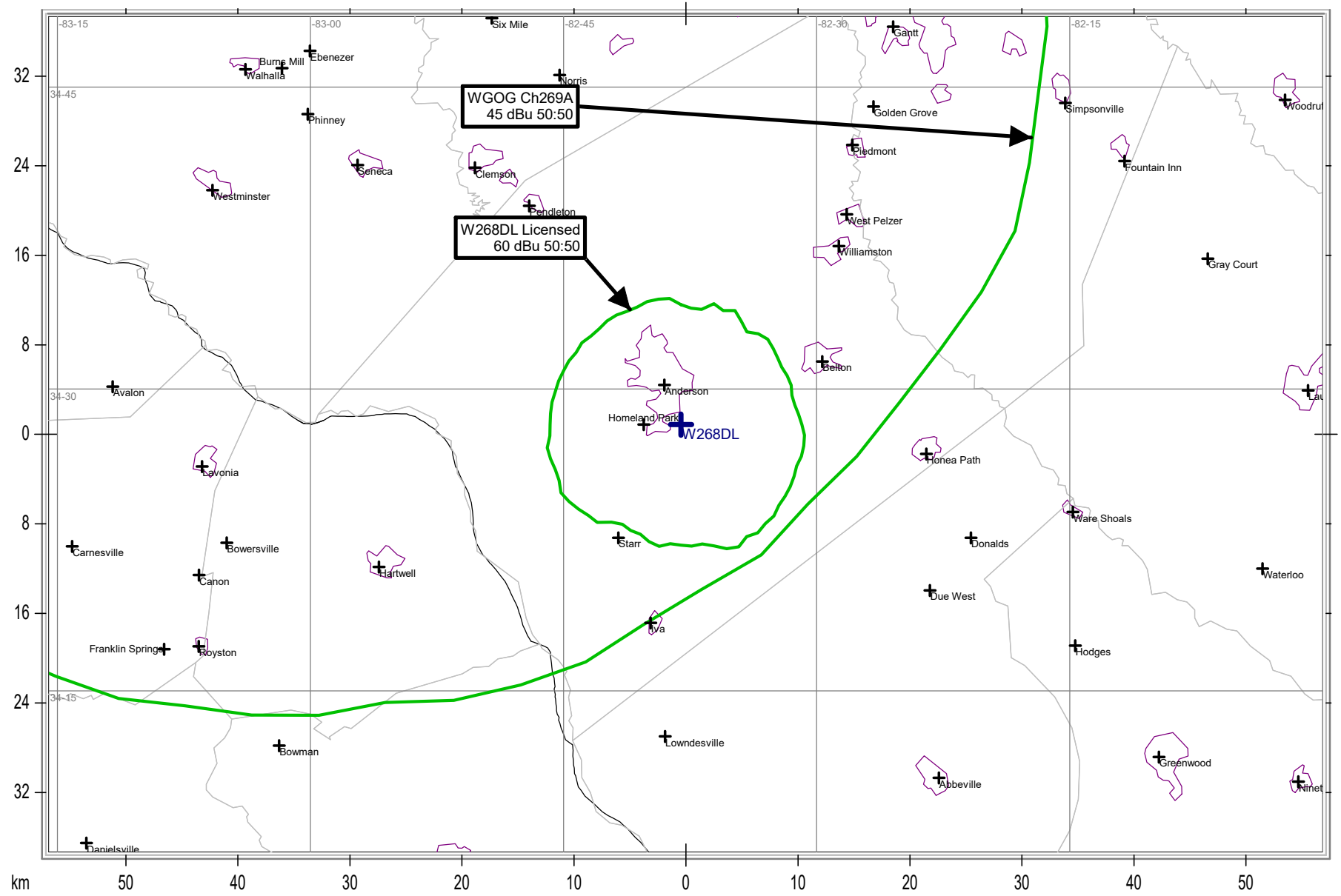
Ted A McCall, is seeking non-adjacent Channel 240D (95.9 MHz).

In FCC 1940 MB Docket No. 18-119 released May 9, 2019, the Commissions adopted changes to Section 74.1233(a)(1) which allows an FM translator to change to any available same-band FM channel as a minor change, upon a showing of actual or predicted interference to or from any other broadcast station. The standard established in this policy requires overlap between the FCC F(50,50) 60 dBu contours and the FCC F(50,50) 45 dBu contours of a co-channel or first adjacent channel FM station.

The map included with this exhibit demonstrates that the 45 dBu contour of 1st adjacent channel full power FM station WGOG (FM), Channel 269A, Walhalla, SC does overlap with the FCC F(50,50) 60 dbu contour of the W268DL licensed facility

Therefore, it is believed that the proposed W238AW non-adjacent channel change meets the requirements established in FCC 1940 MB Docket No. 18-119.

W268DL and WGOG overlap



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Channel Spacing Report for Channel 240
Anderson, SC

ComStudy 2.2 search of channel 240 (95.9 MHz Class D)
220 watts ERP at 34-28-14.4 N, 82-38-02.5 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WLTE	POWDERSVILLE	SC	238	A	31.82	0.00	18.5	1.42 dB
WPLS-LP	GREENVILLE	SC	240	LP100	53.03	24.00	19.7	3.16 dB
WYEJ-LP	ANDERSON	SC	294	LP100	13.79	7.00	5.7	6.8
W240BO	WOODRUFF	SC	240	D	61.85	0.00	58.9	6.60 dB
W240EK	ATHENS	GA	240	D	76.53	0.00	235.9	8.45 dB
WRBN	TOCCOA	GA	239	A	69.36	0.00	283.1	9.59 dB
WEGG	BOWMAN	GA	237	A	51.22	0.00	241.5	12.91 dB
W242BX	GREENVILLE	SC	242	D	56.02	0.00	21.2	16.77 dB
WULC-LP	HENDERSONVILLE	NC	240	LP100	103.56	24.00	7.2	18.31 dB
W239CB	CASHIERS	NC	239	D	85.01	0.00	330.4	20.33 dB
WHQC	SHELBY	NC	241	C	167.48	0.00	53.3	21.88 dB
WCVP-FM	ROBBINSVILLE	NC	240	A	137.49	0.00	309.9	21.13 dB
WOPT-LP	WAYNESVILLE	NC	240	LP100	121.34	24.00	344.6	21.53 dB
WRBN	CLAYTON	GA	242	A	86.41	0.00	304.4	22.58 dB
WEGG	BOWMAN	GA	237	A	43.39	0.00	254.8	22.55 dB
WQZY	DUBLIN	GA	240	C0	198.90	0.00	177.9	23.62 dB
WKSP	AIKEN	SC	242	C2	108.89	0.00	143.1	23.04 dB
W242DI	CLAYTON	GA	242	D	86.41	0.00	304.4	24.28 dB
W240DS	MARSHALL	NC	240	D	147.67	0.00	358.4	26.26 dB
WWPW	ATLANTA	GA	241	C0	173.65	0.00	245.3	27.57 dB
WOXL-FM	BILTMORE FOREST	NC	243	C2	125.43	0.00	359.3	29.37 dB
WXRC	HICKORY	NC	239	C0	180.31	0.00	52.2	29.13 dB

COMPLIANCE, SECTION 74.1204

The channel spacing report shows that the proposed Facility is in compliance with 74.1204(a) regarding protection of all other stations.

Should any actual interference occur, then Licensee will promptly reduce power or suspend operation of this translator in accordance with 47 C.F.R. 74.1203.

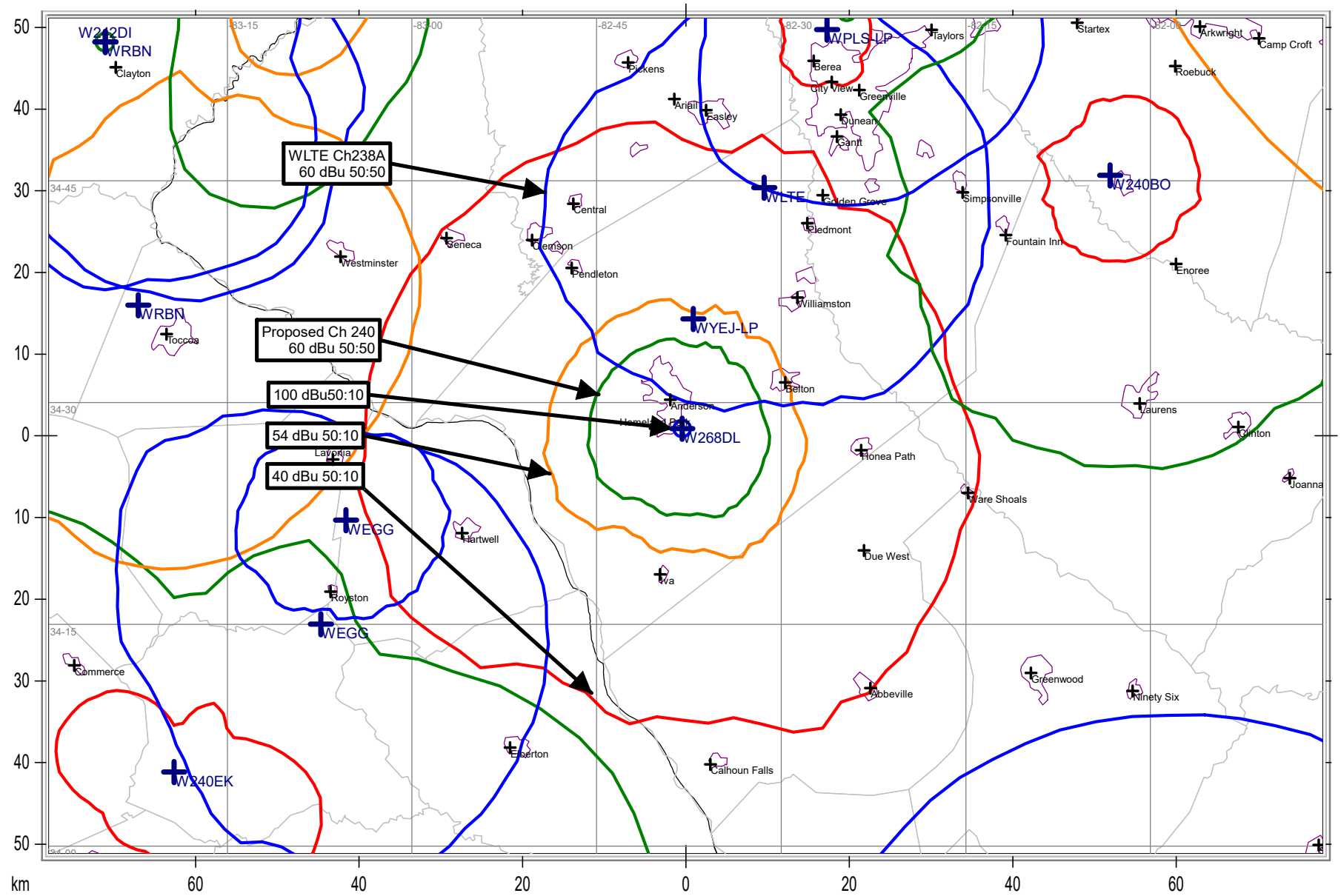
Environmental and RF Exposure Compliance

The proposed translator site is on an existing tower with other communication facilities and will not involve any new construction.

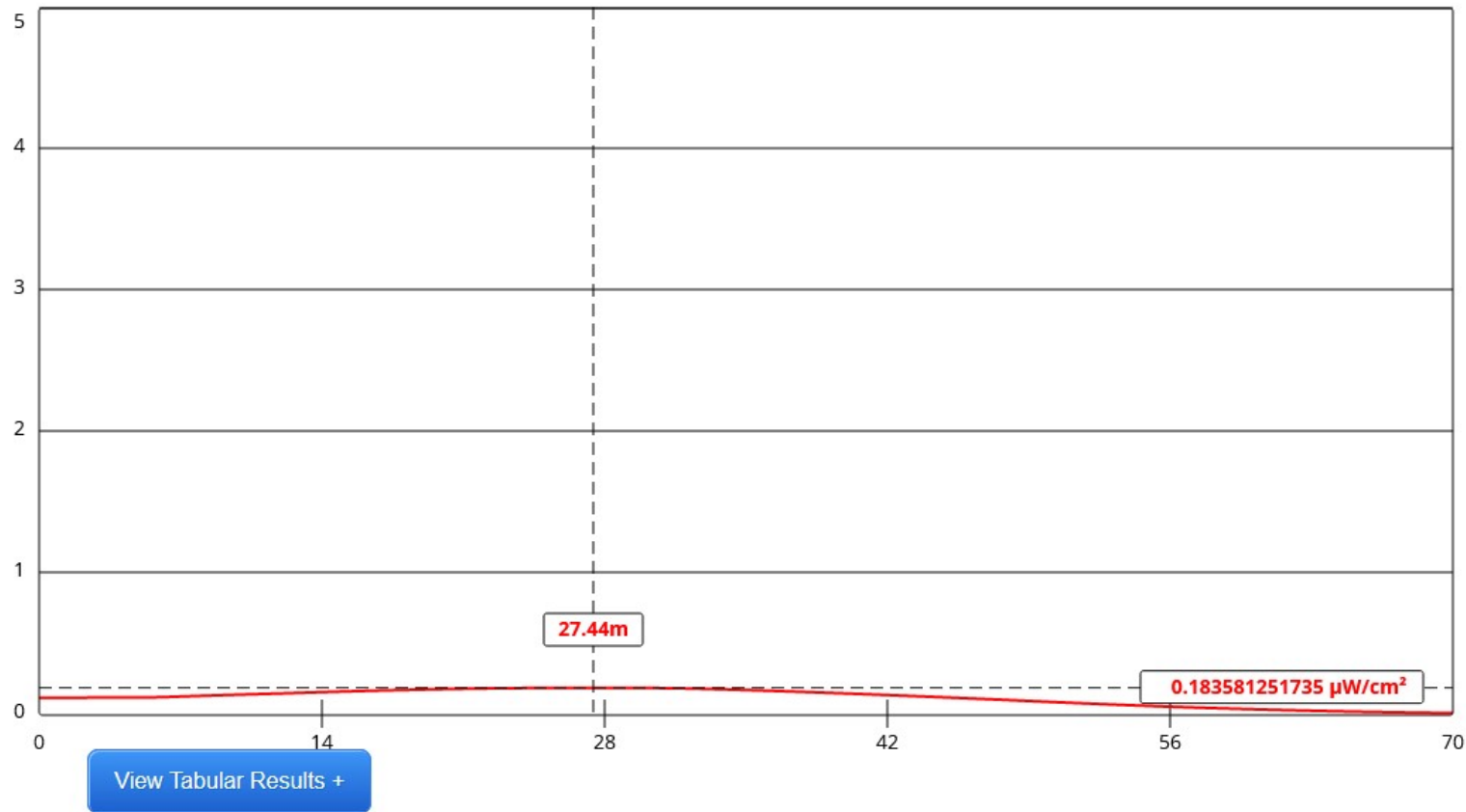
A study was done with the EPA FM Model computer program to determine how much RF radiation this application will contribute to the site. Based on the power, antenna type and height, this facility will generate less than 0.2 uw/cm² at 2 meters above ground. The limit for uncontrolled public exposure is 200 uw/cm², therefore, this facility will contribute less than 0.1% of the MPE limit for general population/uncontrolled exposure. The tower is gated and not accessible by the general population.

Based on this analysis, this application appears to be in compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields.

W238AW Contours on Ch 225D at ASR 1052124



The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data [published in 1985 by the EPA](#). [Show More....](#)



Channel Selection	Channel 240 (95.9 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	<input type="text" value="70"/>	Distance (m)	<input type="text" value="70"/>
ERP-H (W)	<input type="text" value="220"/>	ERP-V (W)	<input type="text" value="220"/>
Num of Elements	<input type="text" value="2"/>	λ	<input type="text" value=".75"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	