

EXHIBIT 2

TECHNICAL CERTIFICATIONS & EXHIBITS

BROADCAST FACILITY

WMXP-LP, Greenville, SC
Malcolm X Grassroots Movement
August 30, 2023

OVERVIEW

Malcolm X Grassroots Movement (MXGM) hereby proposes a minor modification to licensed LPFM station WMXP-LP, specifying a new location, frequency, and ERP. The proposed location is 10.93km from the current licensed location.

WMXP-LP has been forced into this change due to a city-of-license and frequency change “move-in” by co-channel station WLTE, Powdersville, SC¹. Due to significant mutual interference between the stations, WMXP-LP has suspended operations and has been granted a Silent STA.²

Exhibit 2A shows compliance with spacing requirements for co- and first-adjacent stations, and contour protection to second-adjacent stations. **Exhibit 2B** shows environmental compliance.

METHODOLOGY

All contour calculations were made using the methods and procedures described in 47 CFR §73.313(c). Contours were plotted using linear interpolation in one-degree increments, using “HAAT method 0 (zero)”, 51 data points per radial, and the FCC 30-second terrain database.

¹FID: 170949

² File: 0000218800, approved 8/15/23

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EXHIBIT 2A TECHNICAL CERTIFICATIONS INTERFERENCE PROTECTION

This proposal is fully spaced to all co- and first-adjacent stations.

CHANNEL STUDY

REFERENCE	WMXP-LP Displacement Malcolm X Grassroots Movement				DISPLAY DATES		
34 54 01.10 N.					CLASS = L1		DATA 07-27-23
82 24 46.20 W.					Current Spacings to 3rd Adj.		SEARCH 08-27-23
----- Channel 283 - 104.5 MHz -----							
Call	Channel	Location	Azi	Dist	FCC	Margin	
WROO	LIC-N 285C3	Mauldin	SC 24.5	2.55	40.0	-37.5	
WYCJ-LP	LIC 283L1	Simpsonville	SC 131.3	24.44	24.0	0.44	
W282CL	LIC-D 282D	Easley	SC 251.9	21.72	21.0	0.7	
WYCJ-LP	CP 283L1	Simpsonville	SC 130.2	24.73	24.0	0.7	
W283CG	LIC-D 283D	Inman	SC 76.9	40.00	39.0	1.0	
WCGF-LP	APP 282L1	Greer	SC 76.9	17.42	14.0	3.4	
WCGF-LP	STA 282L1	Greer	SC 76.9	17.43	14.0	3.4	
WCGF-LP	LIC 282L1	Greer	SC 75.9	17.67	14.0	3.7	
WHLC	LIC 283A	Highlands	NC 284.5	72.69	67.0	5.7	
WQNQ	LIC 282A	Fletcher	NC 353.8	70.01	56.0	14.0	
W284CZ	LIC-D 284D	Anderson	SC 212.1	48.23	21.0	27.2	
WFOX-LP	LIC 282L1	Sandy Springs	SC 222.2	46.09	14.0	32.1	
W286DD	LIC-D 286D	Anderson	SC 212.1	48.24	14.0	34.2	

SECOND-ADJACENT CONTOUR PROTECTION

Contour protection to second-adjacent stations is provided using the ratio method. A waiver of second-adjacent spacing to WROO, Mauldin, SC is hereby requested, using the provisions of §73.807(e)(1). At the proposed LPFM tower site, the 60dBu F(50,50) contour of WROO is 101.2dBu. Using the appropriate U/D ratio of 40dB, the “worst-case” interfering contour of the proposed LPFM is therefore 141.2dBu. Based on the computed maximum ERP of 40 watts, the distance to contour of 141.2dbu is 3.86m. Since the proposed antenna is 30.1m AGL, and there are no buildings taller than two stories in the area, there would be no interference-caused to listeners of WROO.

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PROTECTED ZONES

Facility is okay with respect to AM station towers.

Closest AM Facility is WCSZ, SANS SOUCI, SC, L, DAN at 298.6° at a distance of 4.6 km

Facility is okay with respect to FCC monitoring stations.

EXHIBIT 2B TECHNICAL CERTIFICATIONS ENVIRONMENTAL EFFECTS

This proposal would not have a significant environmental impact, under 47 CFR §1.1307. None of the provisions in this Part apply in this case. The applicant proposes a new one-bay omni-directional antenna, on an existing registered communications tower. The proposed antenna height is 30m AGL, with a computed ERP of 40W.

This proposal is categorically excluded from environmental processing per Table 1 of §1.1307(b), in that the ERP is less than 100 watts.

Public access to the tower is restricted by a perimeter fence and locked gates. The site is posted with appropriate RF exposure warning signs. If tower climbing by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.

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