

STEPHEN S. LOCKWOOD, PE, PMP

THOMAS M. ECKELS, PE
THOMAS S. GORTON, PE

JAMES B. HATFIELD, PE
BENJAMIN F. DAWSON III, PE
ERIK C. SWANSON, PE, PMP
DAVID J. PINION, PE
STEPHEN PUMPLE, M.Eng, MBA, PMP
CONSULTANTS

HATFIELD & DAWSON
CONSULTING ELECTRICAL ENGINEERS
9500 GREENWOOD AVE. N.
SEATTLE, WASHINGTON 98103

TELEPHONE (206) 783-9151
FACSIMILE (206) 789-9834
E-MAIL hatdaw@hatdaw.com

MAURY L. HATFIELD, PE
(1942-2009)
PAUL W. LEONARD, PE
(1925-2011)

Application to Modify Nighttime Facilities

WLXE(AM)

1600 kHz

Rockville, MD

Fac ID 54506

Multicultural Radio Broadcasting Licensee, LLC

April 2021

This Engineering Report has been prepared on behalf of Multicultural Radio Broadcasting Licensee, LLC in support of and application to modify the nighttime operation of WLXE(AM), Rockville, MD. By this application, Multicultural seeks to replace the current 0.5 kW nighttime directional operation and instead operate at a power of 9 watts using the currently licensed daytime non-directional antenna. No changes to the current daytime operation are proposed.

Site to Site RSS calculations

Protected Station: WWRL, 1600 kHz - NEW YORK, NY, US
 Coordinates: 40-47-44 N, 074-03-18 W
 Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
HCPN1-A	1600	2.696	100.0
WCMA	1600	1.708	63.3
WUNR	1600	1.664	52.1
-----	50%	-----	-----
WPOM	1600	1.295	35.9
*WLXE	1600	1.021	26.6
-----	25%	-----	-----
YVJR-A	1600	0.969	24.4
WEHH	1600	0.911	22.3
1600CORNWA/	1600	0.751	17.9
WHIY	1600	0.723	17.0
1600CHNR/	1600	0.715	16.6
WAAM	1600	0.643	14.7
WKWF	1600	0.626	14.1
CHRN/	1610	0.516	11.5
KGYM	1600	0.508	11.3
XE/A	1600	0.454	10.0

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
HCPN1-A	1600	2.696	100.0
WCMA	1600	1.708	63.3
WUNR	1600	1.664	52.1
-----	50%	-----	-----
WPOM	1600	1.295	35.9
*WLXE-PRO	1600	0.990	25.8
-----	25%	-----	-----
YVJR-A	1600	0.969	24.5
WEHH	1600	0.911	22.3
1600CORNWA/	1600	0.751	18.0
WHIY	1600	0.723	17.0
1600CHNR/	1600	0.715	16.6
WAAM	1600	0.643	14.7
WKWF	1600	0.626	14.2
CHRN/	1610	0.516	11.6
KGYM	1600	0.508	11.3
XE/A	1600	0.454	10.0

Protected Station: WEHH, 1600 kHz - ELMIRA HTS-HORSEHDS, NY, US
 Coordinates: 42-07-11 N, 076-48-37 W
 Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Current:

Call	Freq (kHz)	Limit (mV/m)	(%)
*WLXE	1600	3.447	100.0
HCPN1-A	1600	2.492	72.3
WWRL	1600	2.479	58.2
-----	50%	-----	
1600CHNR/	1600	1.601	32.5
WUNR	1600	1.477	28.5
WFBR	1590	1.454	27.0
-----	25%	-----	
WCMA	1600	1.367	24.5
WAAM	1600	1.336	23.2
1600CORNWA/	1600	0.942	15.9
WAKR	1590	0.937	15.6
YVJR-A	1600	0.845	13.9
WHIY	1600	0.782	12.8
WXVI	1600	0.777	12.6
KGYM	1600	0.754	12.1
WRPN	1600	0.692	11.0

Proposed:

Call	Freq (kHz)	Limit (mV/m)	(%)
HCPN1-A	1600	2.492	100.0
WWRL	1600	2.479	99.4
-----	50%	-----	
1600CHNR/	1600	1.601	45.5
WUNR	1600	1.477	38.2
WFBR	1590	1.454	35.1
WCMA	1600	1.367	31.1
WAAM	1600	1.336	29.0
-----	25%	-----	
*WLXE-PRO	1600	0.950	19.8
1600CORNWA/	1600	0.942	19.3
WAKR	1590	0.937	18.8
YVJR-A	1600	0.845	16.7
WHIY	1600	0.782	15.2
WXVI	1600	0.777	14.9
KGYM	1600	0.754	14.3
WRPN	1600	0.692	13.0
WPOM	1600	0.618	11.5
CHRN/	1610	0.612	11.3
WKWF	1600	0.579	10.7