

**MINOR LICENSE MODIFICATION APPLICATION  
W244BQ, Chicago, IL**

Re-Application for pattern Modification

**TECHNICAL STATEMENT**

This technical statement and attached exhibits have been prepared on behalf of Edgewater Broadcasting, Inc (“Edgewater”), License of translator station W244BQ, Facility ID number 145323. The applicant proposes to modify the W244BQ antenna pattern. No other changes are anticipated. This application seeks to re-apply for the expired CP file number 00120733. Although all the equipment to build this was received, delays in obtaining a final lease at the tower site forced a delay extending past the CP's expiration. This application seeks to apply for nearly identical facilities as the expired CP. The difference is the antenna pattern which reflects the as-built antenna. W244BQ will rebroadcast Facility ID 71282, WLEY-FM, Aurora, IL as a fill-in translator in compliance with 47 CFR 74.1203.

**Facilities Proposed**

Location (NAD83)	41° 53' 06.1" N Latitude, 87° 37' 17.7" W Longitude
Channel	244D (96.7MHz)
Tower Overall AGL Height-	370m
Tower ASR	1232992
Proposed Antenna	3-element Jampro JAVA
Antenna AGL Height-	349m
Site AMSL Height-	180.4m
COR AMSL Height	529.4m
ERP	99w DIRECTIONAL (SEE EXHIBIT A)

## Interference Study

ComStudy 2.2 search of channel 244 (96.7 MHz Class D) at 41-53-06.1 N, 87-37-18.2 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
WDRV	CHICAGO	IL 246 B	0.00	0.00	90.0	-76.00 dB
WBBM-FM	CHICAGO	IL 242 B	1.34	0.00	239.4	-67.14 dB
WGCI-FM	CHICAGO	IL 298 B	1.34	15.00	258.0	-13.7
WCOE	LA PORTE	IN 244 A	76.99	0.00	111.1	-3.72 dB
WSSR	JOLIET	IL 244 A	43.39	0.00	223.2	0.13 dB
WWDV	ZION	IL 245 B	72.76	0.00	342.7	0.16 dB
WKLH	MILWAUKEE	WI 243 B	136.60	0.00	350.3	11.93 dB
WKGL-FM	LOVES PARK	IL 244 A	135.96	0.00	293.6	13.62 dB
WKLH	MILWAUKEE	WI 243 B	132.41	0.00	347.3	18.77 dB
W244EO	DOWAGIAC	MI 244 D	133.43	0.00	86.2	18.37 dB
WAZY-FM	LAFAYETTE	IN 243 B	171.70	0.00	166.0	23.01 dB
WSJB-LP	ST. JOSEPH	MI 245 LP100	101.21	13.00	76.0	25.15 dB
WBHC-LP	BENTON HARBOR	MI 243 LP100	100.10	13.00	74.8	25.14 dB
WRNW	MILWAUKEE	WI 247 B	138.52	0.00	349.7	25.90 dB
W245CE	MORRIS	IL 245 D	88.63	0.00	222.2	27.95 dB
W244DF	LOGANSPOUT	IN 244 D	168.70	0.00	137.5	27.39 dB
W244DR	MADISON	WI 244 D	187.82	0.00	310.3	29.16 dB

\*- Because the proposed translator will be transmitting from the same site there is no location where the translator will be more than 40dB above WDRV (246B)..

#- WBBM-FM places a signal of 109.6dB at the W244BQ tower. The interfering 149.6dBu interfering contour from W244BQ is within 1 meter vertically from the antenna COR. Therefore, W244BQ is compliant with respect to 2<sup>nd</sup> adjacent WBBM-FM (242B).

### COMPLIANCE, 74.1201(g), 74.1203(d), 74.1233(a)(1), and 74.1204(d)

Exhibit B demonstrates compliance with 74.1201(g) governing the use of a translator as a fill-in for an FM station. The 60dBu contour of the proposed W244BQ will be completely contained within the 1mV/m contour of WLEY-FM.

Because the proposed W244BQ will be co-located with WDRV (246B) there will be no location where the signal of W244BQ will be more than 40dBu above the WDRV 2<sup>nd</sup> adjacent signals.

WBBM-FM places a signal of 109.6dB at the W244BQ tower. The 149.6dBu interfering contour from W244BQ is within 1 meter vertically from the antenna COR. Therefore, W244BQ is compliant with respect to 2<sup>nd</sup> adjacent WBBM-FM (242B).

Because there is no change in antenna location from that which is licensed, this requested change will be compliant with FCC rule 74.1233(a)(1) requiring any minor change of a translator's facilities to continue to provide 1mV/m service to some portion of its previously authorized service area.

Exhibit C demonstrates compliance with 74.1204(a). There are no impermissible contour overlaps to any other facilities.

### **Environmental Exhibit**

The proposed W244BQ facility as proposed will utilize a directional antenna located on an existing ASR-registered building, (ASR 1232992). The top of the building is home to several full-power class B FM stations and full-power television stations. Roof access is strictly controlled and the RFR from a 99-watt translator cannot be detected in such an RF field.

Because the facility will continue to operate with a maximum power of 99 watts ERP, it is believed the impact of the proposed change should not be considered to be a factor at the rooftop level as defined under §1.1307(b)(3), therefore the proposed W244BQ operation should be excluded from further environmental review under §1.1306 of the FCC rules and regulations.

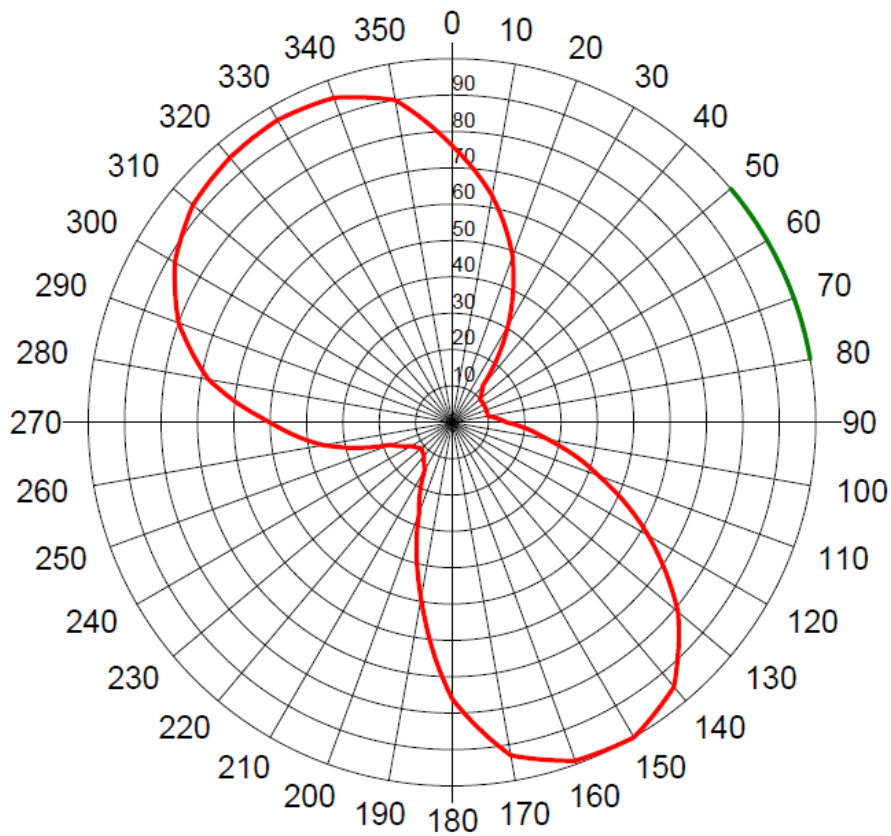
Respectfully Submitted



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# EXHIBIT A- Antenna Pattern

## W244BQ PROP pattern



Azi	Rel	dBk	kW	dB
0	0.761	-12.42	0.057	-2.37
10	0.633	-14.02	0.040	-3.97
20	0.486	-16.31	0.023	-6.27
30	0.308	-20.27	0.009	-10.23
40	0.131	-27.70	0.002	-17.65
50	0.100	-30.04	0.001	-20.00
60	0.100	-30.04	0.001	-20.00
70	0.100	-30.04	0.001	-20.00
80	0.100	-30.04	0.001	-20.00
90	0.150	-26.52	0.002	-16.48
100	0.265	-21.58	0.007	-11.54
110	0.429	-17.39	0.018	-7.35
120	0.623	-14.15	0.038	-4.11
130	0.811	-11.86	0.065	-1.82
140	0.949	-10.50	0.089	-0.45
150	1.000	-10.04	0.099	0.00
160	0.990	-10.13	0.097	-0.09
170	0.930	-10.67	0.086	-0.63

Azi	Rel	dBk	kW	dB
180	0.760	-12.43	0.057	-2.38
190	0.490	-16.24	0.024	-6.20
200	0.265	-21.58	0.007	-11.54
210	0.150	-26.52	0.002	-16.48
220	0.120	-28.46	0.001	-18.42
230	0.110	-29.22	0.001	-19.17
240	0.130	-27.76	0.002	-17.72
250	0.180	-24.94	0.003	-14.89
260	0.360	-18.92	0.013	-8.87
270	0.500	-16.06	0.025	-6.02
280	0.680	-13.39	0.046	-3.35
290	0.800	-11.98	0.063	-1.94
300	0.880	-11.15	0.077	-1.11
310	0.930	-10.67	0.086	-0.63
320	0.950	-10.49	0.089	-0.45
330	0.960	-10.40	0.091	-0.35
340	0.950	-10.49	0.089	-0.45
350	0.900	-10.96	0.080	-0.92

Rotation Angle = 0

# EXHIBIT B- 74.1201(g) Compliance

W244BQ 96.7MHz. 99 watts, 74.1201(g), 74.1233(a)(1) Compliance

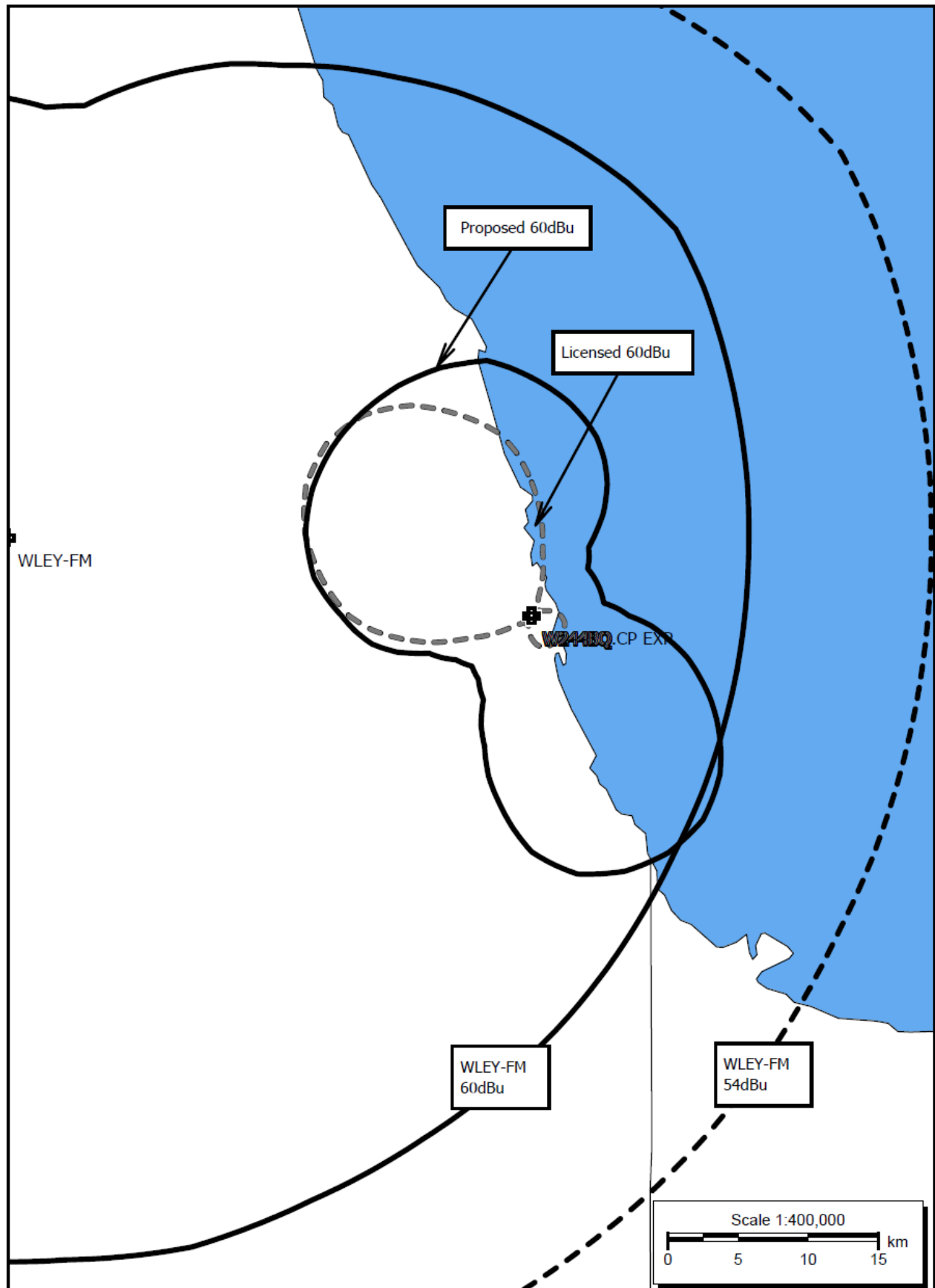


EXHIBIT C- 74.1204(a) Compliance

W244BQ 96.7MHz. 99 watts using Composite 3 element Log-Periodic Antenna

