



January 9, 2023

Statement:

Sec 73.1675(a)(1ii)

WBGO proposes to modify its previous licensed facility to be used as an auxiliary station. There are no changes to the height of the antenna radiation center from those previously licensed. There will be a reduction of effective radiated power from 4.5 kW to 1.2 kW to keep the 1 mV/m service contour entirely inside the 1 mV/m service contour of the main transmitter. A coverage map of the auxiliary and main facility is attached to this statement.

The applicant fully complies with Section 73.1675 (a)(1ii).

WBGO Main and Auxiliary

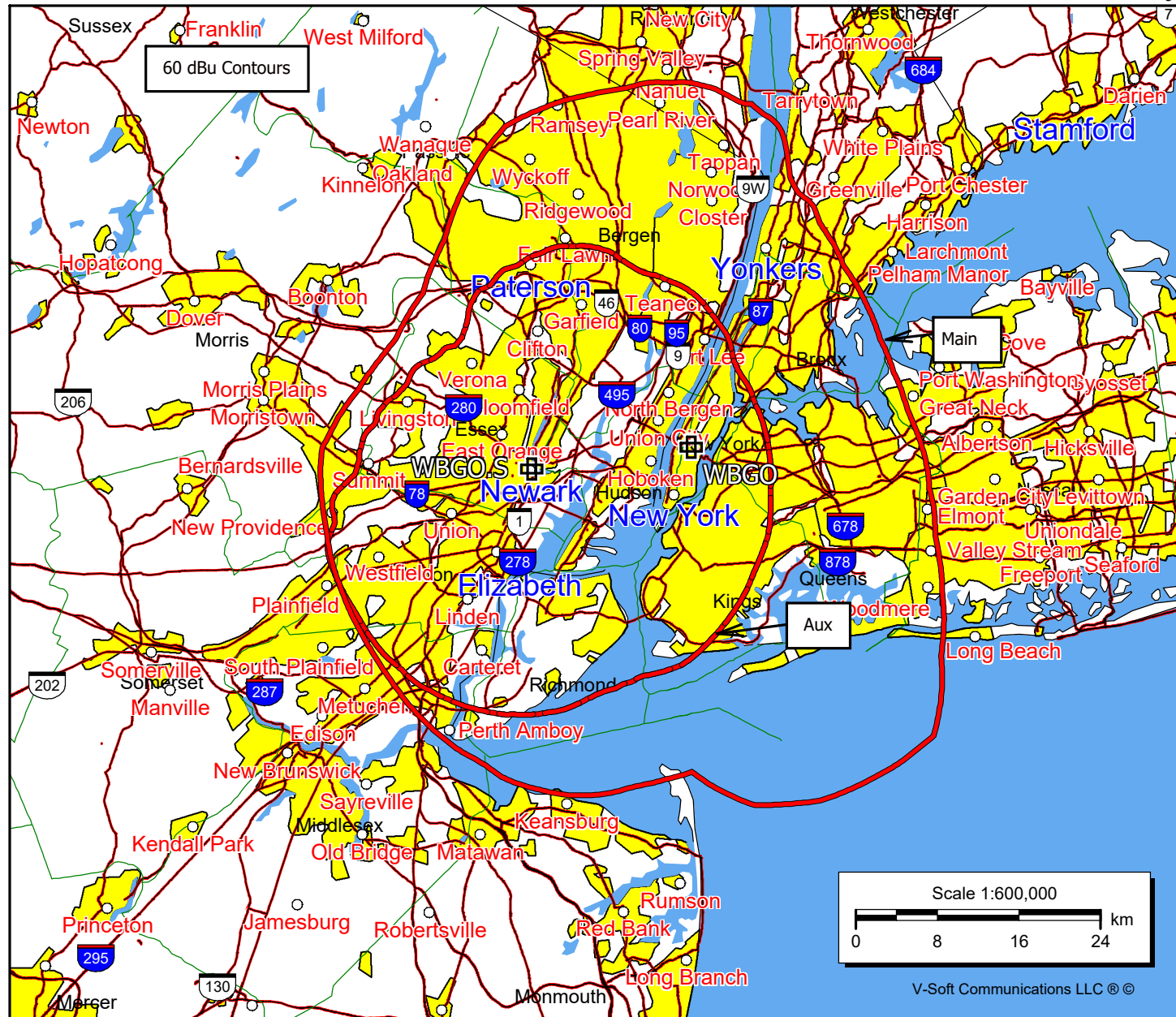
WBGO

BLED20111213ABV
 Latitude: 40-45-22.40 N
 Longitude: 073-59-10.50 W
 ERP: 2.50 kW
 Channel: 202
 Frequency: 88.3 MHz
 AMSL Height: 284.0 m
 Horiz. Pattern: Directional

WBGO.S

0000197763
 Latitude: 40-44-12.20 N
 Longitude: 074-10-15 W
 ERP: 1.20 kW
 Channel: 202
 Frequency: 88.3 MHz
 AMSL Height: 159.0 m
 Horiz. Pattern: Omni

V Doug Vernier
 1600 Picturesque Drive
 Cedar Falls, Iowa 50613
 Telecommunication Consultants



N. Lat. = 40 44 12.2 W. Lng. = 74 10 15
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

WBGO Emergency Aux						
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	46.4	112.6	1.2000	0.79	1.000	20.71
010	27.1	131.9	1.2000	0.79	1.000	22.22
020	16.6	142.4	1.2000	0.79	1.000	23.00
030	28.4	130.6	1.2000	0.79	1.000	22.13
040	5.7	153.3	1.2000	0.79	1.000	23.78
050	0.9	158.1	1.2000	0.79	1.000	24.11
060	10.1	148.9	1.2000	0.79	1.000	23.47
070	13.6	145.4	1.2000	0.79	1.000	23.22
080	9.9	149.1	1.2000	0.79	1.000	23.48
090	8.2	150.8	1.2000	0.79	1.000	23.60
100	6.7	152.3	1.2000	0.79	1.000	23.71
110	5.1	153.9	1.2000	0.79	1.000	23.83
120	2.7	156.3	1.2000	0.79	1.000	23.99
130	2.4	156.6	1.2000	0.79	1.000	24.01
140	1.5	157.5	1.2000	0.79	1.000	24.08
150	14.4	144.6	1.2000	0.79	1.000	23.16
160	19.9	139.1	1.2000	0.79	1.000	22.76
170	12.1	146.9	1.2000	0.79	1.000	23.32
180	5.3	153.7	1.2000	0.79	1.000	23.81
190	1.4	157.6	1.2000	0.79	1.000	24.08
200	6.8	152.2	1.2000	0.79	1.000	23.70
210	15.3	143.7	1.2000	0.79	1.000	23.09
220	21.5	137.5	1.2000	0.79	1.000	22.64
230	26.5	132.5	1.2000	0.79	1.000	22.27
240	31.4	127.6	1.2000	0.79	1.000	21.90
250	40.1	118.9	1.2000	0.79	1.000	21.24
260	56.1	102.9	1.2000	0.79	1.000	19.78
270	83.9	75.1	1.2000	0.79	1.000	16.63
280	84.3	74.7	1.2000	0.79	1.000	16.58
290	90.8	68.2	1.2000	0.79	1.000	15.77
300	98.9	60.1	1.2000	0.79	1.000	14.83
310	98.8	60.2	1.2000	0.79	1.000	14.84
320	101.7	57.3	1.2000	0.79	1.000	14.49
330	100.3	58.7	1.2000	0.79	1.000	14.67
340	77.2	81.8	1.2000	0.79	1.000	17.45
350	61.9	97.1	1.2000	0.79	1.000	19.18

Ave El= 34.28 M HAAT= 124.72 M AMSL= 159 M

N. Lat. = 40 45 22.40 W. Lng. = 73 59 10.50
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

WBG0, Newark Public Radio, Inc., BLED20111213ABV

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	34.2	249.8	2.5000	3.98	1.000	35.39
010	48.6	235.4	2.2992	3.62	0.959	33.81
020	12.5	271.5	0.8208	-0.86	0.573	28.39
030	24.0	260.0	0.5267	-2.78	0.459	25.11
040	17.7	266.3	0.3497	-4.56	0.374	23.08
050	9.2	274.8	0.2723	-5.65	0.330	22.07
060	2.4	281.6	0.2220	-6.54	0.298	21.27
070	2.9	281.1	0.2161	-6.65	0.294	21.11
080	10.1	273.9	0.2403	-6.19	0.310	21.39
090	11.5	272.5	0.2976	-5.26	0.345	22.45
100	15.4	268.6	0.3744	-4.27	0.387	23.54
110	22.5	261.5	0.5382	-2.69	0.464	25.30
120	21.2	262.8	0.8526	-0.69	0.584	28.20
130	14.0	270.0	1.3506	1.31	0.735	31.84
140	10.2	273.8	2.5000	3.98	1.000	36.84
150	9.4	274.6	2.5000	3.98	1.000	36.89
160	10.9	273.1	2.5000	3.98	1.000	36.80
170	11.7	272.3	2.1391	3.30	0.925	35.55
180	14.4	269.6	1.3359	1.26	0.731	31.73
190	9.7	274.3	1.6851	2.27	0.821	33.81
200	0.8	283.2	2.1669	3.36	0.931	36.27
210	2.1	281.9	2.5000	3.98	1.000	37.31
220	0.1	283.9	2.5000	3.98	1.000	37.43
230	7.0	277.0	2.5000	3.98	1.000	37.03
240	9.8	274.2	2.5000	3.98	1.000	36.87
250	9.4	274.6	2.5000	3.98	1.000	36.89
260	10.8	273.2	2.5000	3.98	1.000	36.80
270	13.4	270.6	2.5000	3.98	1.000	36.65
280	17.6	266.4	1.7223	2.36	0.830	33.51
290	17.8	266.2	1.2709	1.04	0.713	31.16
300	13.9	270.1	1.1458	0.59	0.677	30.62
310	13.8	270.2	1.3579	1.33	0.737	31.89
320	16.1	267.9	1.8490	2.67	0.860	34.15
330	15.8	268.2	2.5000	3.98	1.000	36.51
340	14.0	270.0	2.5000	3.98	1.000	36.62
350	27.8	256.2	2.5000	3.98	1.000	35.79

Ave El= 13.97 M HAAT= 270.03 M AMSL= 284 M

**Declaration and
Statement of Qualifications**

I, Douglas L. Vernier, declare that I have received training as an engineer from the University of Michigan School of Engineering. That, I have received degrees from the University in the field of Broadcast Telecommunications. That, I have been active in broadcast consulting for over 40 years;

That, I have held a Federal Communications Commission First Class Radiotelephone License continually since 1964. In 1985, this license was reissued by the Commission as a lifetime General Radiotelephone license no. PG-16-16464;

That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Life-time Certification received in 2010);

That, my qualifications are a matter of record with the Federal Communications Commission;

That, I have been retained by Radio Station WBGO to prepare the engineering showing appended hereto;

That, I have prepared this broadcast engineering showing, the technical information contained in same and the facts stated within are true of my knowledge;

That, under penalty of perjury, I declare that the foregoing is correct.

Douglas L. Vernier

A handwritten signature in blue ink, appearing to read "Doug Vernier", with a large, stylized initial "D" and a horizontal line extending to the right.

Executed on January 9, 2023