



Name: BROOKLYN  
 Date: 4/5/2005  
 Scale: 1 inch equals 2000 feet

Location: 040° 44' 54.2" N 073° 59' 09.7" W  
 Caption: Exhibit 12  
 Site at 40-44-54 / 73-59-10



<div> <div>Exhibit 12</div> <div>Weekawken, NJ</div> </div>											
REFERENCE		CH# 220D - 91.9 MHz, Pwr= 0.01 kW, HAAT=305.7 M, COR= 308 M								DISPLAY DATES	
40 44 54 N		Average Protected F(50-50)= 10.22 km								DATA 04-02-05	
73 59 10 W		Ave. F(50-10) 40 dBu= 34.1 54 dBu= 14.3 80 dBu= 2.0 100 dBu= .2								SEARCH 04-05-05	
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)	
220D Union City	AP220	APP V NJ	0.0 180.0	0.00 BNPFT19991130AAO	40 44 54 73 59 10	0.010 379	393 38.5	11.3 Pensacola Christian Colleg	-48.21*	-43.59*	
220D Weehawken	990809	APP DC NJ	210.0 30.0	4.63 BPFT19990809TB	40 42 44 74 00 49	0.010 404	418 40.0	11.6 Living Way Ministries, Inc	-45.07*	-39.38*	
220D Weehawken	990809	APP DC NJ	210.0 30.0	4.63 BPFT19990809TB	40 42 44 74 00 49	0.010 404	418 40.0	11.6 Living Way Ministries, Inc	-45.07*	-39.38*	
222B New York	WXRK	LIC CN NY	0.0 180.0	0.00 BLH19940204KF	40 44 54 73 59 10	6.000 415	429 4.5	65.7 Infinity Broadcasting East	-14.26*	-66.18*	
218B New York	WNYE	LIC C NY	173.3 353.3	6.62 BLED20000827AAB	40 41 21 73 58 37	18.000 123	141 4.1	39.7 New York City Dept. Of Inf	-7.53*	-33.28*	
220D Parlin, Etc.	W220AA	LIC HN NJ	218.8 38.8	41.90 BLFT19900109TF	40 27 16 74 17 48	0.001 53	65 7.5	2.4 Maria Liadis	25.48	9.49	
220B1 Hackettstown	WNTI	LIC HN NJ	279.0 99.0	76.01 BMLED19940422KB	40 51 07 74 52 35	5.600 139	383 91.6	32.3 Centenary College For Wome	-25.50	10.98	
220A Brick	WBGD	LIC HN NJ	189.4 9.4	72.45 BLED19860723KB	40 06 17 74 07 34	0.195 4	34 22.3	6.7 Brick Township Board Of Ed	40.10	32.24	
220A Lake Ronkonkoma	WSHR	LIC NC NY	82.3 262.3	75.44 BLED19990413KC	40 50 10 73 05 59	6.000 47	77 75.4	19.9 Sachem Central Sch Dist Ho	-10.07	22.01	
220D New Canaan	WSLX	LIC HN CT	39.7 219.7	64.27 BLED1366	41 11 32 73 29 46	0.019 81	165 20.3	6.1 St. Luke's Foundation, Inc	33.92	24.66	
220D Fairfield	W220AC	LIC CN CT	54.0 234.0	76.14 BLFT19950814TB	41 08 53 73 15 05	0.019 30	30 11.9	3.7 Monroe Board Of Education	54.07	38.40	
220D Lawrenceville, Etc.	W220AG	LIC CN NJ	229.1 49.1	78.71 BLFT19930308TA	40 16 58 74 41 11	0.009 128	157 21.4	6.4 Bux-mont Educational Radio	47.76	40.39	
220A Barnegat	AP220	APP DVX NJ	194.6 14.6	112.82 BNPED20000502AAI	39 45 54 74 19 12	0.254 65	93 35.7	10.6 Wwn Educational Radio Corp	66.93	68.25	
220D Huntington	W220CF	LIC DVN CT	50.5 230.5	92.87 BLFT19990225TD	41 16 33 73 07 46	0.002 84	144 11.2	3.5 Monroe Board Of Education	71.43	55.39	
220A Barnegat	990629	APP ZCN NJ	192.8 12.8	117.60 BPED19990629MA	39 42 56 74 17 32	0.144 105	128 39.5	11.5 Hope Christian Church Of M	67.96	72.21	
220A Barnegat	AP220	APP DEX NJ	192.8 12.8	117.60 BNPED20000503ABB	39 42 56 74 17 32	0.138 121	144 41.6	12.2 Jc Radio, Inc.	65.84	71.55	
220A Barnegat	990629	APP DCX NJ	192.8 12.8	117.60 BPED19990629MA	39 42 56 74 17 32	0.144 105	128 39.5	11.5 Hope Christian Church Of M	67.96	72.21	
220A Barnegat	AP220	APP DEX NJ	192.8 12.8	117.60 BNPED20000503ABB	39 42 56 74 17 32	0.138 121	144 41.6	12.2 Jc Radio, Inc.	65.84	71.55	
219A Hightstown	AP219	APP VX NJ	219.5 39.5	74.13 BNPED20000301ABH	40 13 59 74 32 31	0.120 44	74 10.2	7.1 Pensacola Christian Colleg	55.03	54.35	
217D Huntington Station	W217AF	LIC DCN NY	85.7 265.7	52.32 BLFT19941028TA	40 46 56 73 22 05	0.010 106	152 0.2	6.0 Sacred Heart University, I	42.01	46.06	
219A Danbury	WXCI	LIC DCN CT	30.0 210.0	83.16 BLED19970702KB	41 23 42 73 29 14	3.000 48	241 24.7	16.7 Western Connecticut State	48.49	52.52	
219B1 Middletown	WOSR	LIC DCN NY	333.5 153.5	106.05 BLED19911231KA	41 36 04 74 33 17	1.511 277	543 49.8	33.1 Wamc	46.24	58.94	
217A Trenton	WTSR	LIC CN NJ	232.0 52.0	85.76 BLED1325	40 16 17 74 46 55	1.500 22	56 1.6	11.2 The College Of Nj Radio Sy	74.39	74.35	
06+T New York	WNYZ-L	CP D N NY	92.0 272.0	3.57 BPTVL20040803ABA	40 44 50 73 56 38	0.000 198	213	0.0 To Grd B= Island Broadcasting Co.		-8.10	

ERP and HAAT are on direct line to and from reference station.  
 \*\*\*Affixed to 'IN' or 'Out' values = site inside protected contour.

Protected zones report for 990809 on channel 220 04-05-2005  
N. Lat. 40 44 54 W. Lng. 73 59 10, ERP= 0.01 kw, HAAT= 305.7M

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Facility okay with respect to Canada.  
Facility okay with respect to Mexico.  
Facility is okay with respect to AM station towers.  
Facility is okay with respect to FCC monitoring stations.  
Facility is okay toward West Virginia Quiet Zone.  
Facility okay toward Table Mountain.

## **Exhibit 12 (Compliance with CFR 74.1204)**

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The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WXRK, channel 222B, New York, NY. The predicted F(50-50) field strength of WXRK at the proposed translator site is greater than 110 dBu. Therefore, the respective predicted interfering contour generated by the proposed FM Translator is greater than 150 dBu. LWM will be installing a 2 meter mast to install the transmit antenna on thus clearing the roof by 1 meter. The interfering contour extends less than 6 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

Two factors have been investigated to determine this absence of population:

1) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.

2) Examination of the USGS topographic map reveals no regularly occupied structures within the area of overlap.

Therefore, LWM respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

Disclaimers:

- 1. Only valid for distant (far field) calculations
- 2. Not to be used for co-located or near-by sites because this spreadsheet is contour based rather than free-space
- 3. See FCC policies for clarification of valid non-pop proof

EMF Translator ERP

Other station F(50,50) contour at EMF translator

10	Watts
132	dBu

Distance to LWM interfering contour

5.6 meters

Tower ID: 1007048

Coordinates (NAD27): 40-44-53.63 N, 073-59-10.50 W  
Coordinates (NAD83): 40-44-54 N, 073-59-09 W

Status: Constructed  
Structure Type: B  
Action Date: 03/26/2005  
Construction Date: 01/01/1931  
Location: 350 FIFTH AVE, NEW YORK CITY, NY  
Height (AG): 443.00 m, Elevation: 15.50 m, Structure Height: 381.00 m  
Circular Number: 70/7460-1H  
FAA Number: 90-AEA-0601-OE    FAA Chapter: 4, 5, 13

Owner: EMPIRE STATE BUILDING COMPANY  
Address:  
    A G SMIRNOFF  
    350 FIFTH AVE STE 3210  
    NEW YORK, NY 10118  
Phone: (212) 736-3100

Remarks:

Examiner ID: FCC    Date: 01/11/1997  
CORRECTED GROUND ELEVATION, SUBMITTED ROUNDED TO THE NEAREST WHOLE NUMBER, TO INCLUDE TH  
STRUCTURE BASED ON CLEARANCE FILE COPY.

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RF EXHIBIT DETERMINATOR  
EXHIBIT C

- \* Building mounted sites
- \* Multiple antennas on the same tower

Site Name	Weehawken, NJ
COR AGL	6.000 meters
Horizontal ERP	0.010 kw
Vertical ERP	0.010 kw
Percent of Limit	4.176 %
Controlled Access:	OK for workers
Uncontrolled Access:	OK for public
Application requires...	NO RF exhibit

## **Exhibit 12 (Compliance with CFR 74.1204)**

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The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WNYE, channel 218B, New York, NY. The predicted F(50-50) field strength of WNYE at the proposed translator site is 92 dBu, see Exhibit 12A. Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 132 dBu. This interfering contour extends less than 6 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 7 meter level on a 7 meter tower).

To confirm the absence of population within the interference aperture, LWM has examined the attached topographic map, which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 6-meter interference aperture.

Therefore, LWM respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.



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- 3. See FCC policies for clarification of valid non-pop proof

EMF Translator ERP

10
132

Watts

Other station F(50,50) contour at LWM translator

dBu

Distance to LWM interfering contour

5.6 meters



60 11,831  
54 8,921  
48 5,800  
40 3,336

