

Comprehensive Engineering Exhibit
W253BV Poughkeepsie, NY
Facility ID No. 138571

This exhibit is in support of a request for special temporary authority to operate W253BV, facility ID 138571, from an immediately adjacent tower to allow for tower removal and replacement of the support tower after discovery of advanced deteriorated conditions. The public interest will be furthered by grant of this request to allow the facility to operate as the tower is replaced. It is expected that 120 days will be required to complete the work.

The transmit antenna is to be located 48.8 meters above ground on the existing "tower 2 of the WKIP antenna array. An existing sample loop isolation device will be use to transition the base of this AM antenna tower. This existing tower does not require registration. W253BV is currently located on "tower 1", of this array, which is the subject tower being replaced. A Scala FMVMP-1, 1 bay vertically polarized directional antenna orientated with pattern maximum of 180° True with an ERP of 0.200 kW. Figure 0 provides the directional pattern of the selected antenna.

Below as Figure 1 is a spacing study from which it can be determined that this proposal is in compliance with 74.1204 with respect to all intermediate, first adjacent, and co-channel facilities. As this is a request for special temporary authority no consideration is provided to second or third adjacent facilities.

Figure 2 is a map of the licensed and proposed 60 dBu F(50,50) signals to demonstrate that this proposed is fully contained within the existing facility.

RF Radiation Compliance

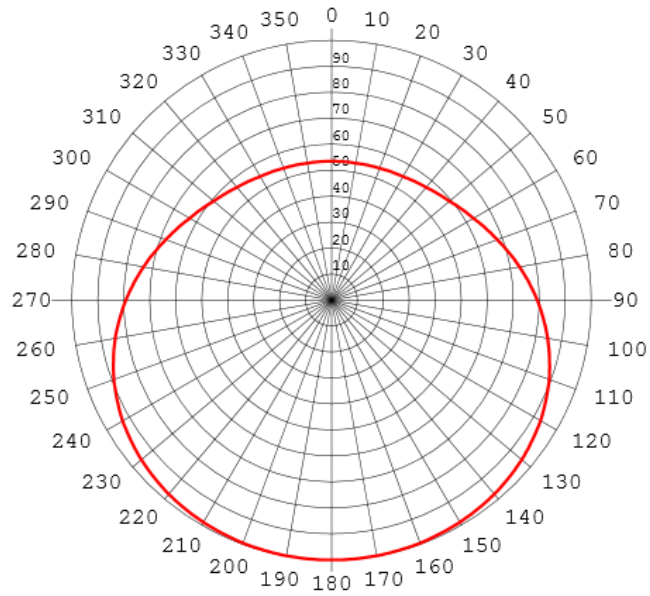
The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation."

The proposed antenna has been evaluated using "FM Model", as a worst case "Ring Stub" single bay being mounted with its center of radiation 48.8 meters above ground level, with an effective radiated power of 0.200 kilowatts in the vertical plane.

At 2 meters above the surface, at 48.8 meters from the closest point of approach, this proposal will contribute worst case, 2.9 microwatts per square centimeter, or 1.3% of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit and thus is categorically excluded from environmental processing for purposes of RF compliance, pursuant to Section 1.1307(b)(3)(ii).

The tower is surrounded by a fence with a locked gate restricting access from the general public with appropriate warning signs posted. The applicant will cooperate with other users of the tower site to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 0. Antenna Pattern



Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.534	-12.44	0.057	-5.45	180	1.000	-6.99	0.200	0.00
10	0.535	-12.42	0.057	-5.43	190	0.999	-7.00	0.200	-0.01
20	0.540	-12.34	0.058	-5.35	200	0.995	-7.03	0.198	-0.04
30	0.549	-12.20	0.060	-5.21	210	0.987	-7.10	0.195	-0.11
40	0.566	-11.93	0.064	-4.94	220	0.975	-7.21	0.190	-0.22
50	0.592	-11.54	0.070	-4.55	230	0.956	-7.38	0.183	-0.39
60	0.630	-11.00	0.079	-4.01	240	0.929	-7.63	0.173	-0.64
70	0.679	-10.35	0.092	-3.36	250	0.892	-7.98	0.159	-0.99
80	0.735	-9.66	0.108	-2.67	260	0.846	-8.44	0.143	-1.45
90	0.792	-9.02	0.125	-2.03	270	0.792	-9.02	0.125	-2.03
100	0.845	-8.45	0.143	-1.46	280	0.735	-9.66	0.108	-2.67
110	0.892	-7.98	0.159	-0.99	290	0.679	-10.35	0.092	-3.36
120	0.929	-7.63	0.173	-0.64	300	0.630	-11.00	0.079	-4.01
130	0.956	-7.38	0.183	-0.39	310	0.592	-11.54	0.070	-4.55
140	0.975	-7.21	0.190	-0.22	320	0.566	-11.93	0.064	-4.94
150	0.987	-7.10	0.195	-0.11	330	0.549	-12.20	0.060	-5.21
160	0.995	-7.03	0.198	-0.04	340	0.540	-12.34	0.058	-5.35
170	0.999	-7.00	0.200	-0.01	350	0.535	-12.42	0.057	-5.43

Rotation Angle = 0

Figure 1. Spacing Study

iHeartMedia Troy Langham											
W253BV To Twr 2 in WKIP Array											
REFERENCE		CH#	253D	-	98.5 MHz, Pwr= 0.2 kw DA, HAAT= -20.8 M, COR= 89.8 M	DISPLAY DATES					
41 42 16.64 N.		Average Protected F(50-50)= 6.71 km				DATA		06-20-23			
73 53 12.99 W.		Standard Directional				SEARCH		06-22-23			
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PMR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
253A	WCTW	LIC _CN		4.4	55.34	42 12 03.30	4.700	89.3	31.1	-38.8*	8.5
	Catskill	NY		184.4	BLH19970616KA	73 50 07.50	114	190	Ihm Licenses, LLC		
253D	W253BV	LIC DVN		331.0	0.04	41 42 18.00	0.200	31.2	9.4	-36.5*	-26.7*
	Poughkeepsie	NY		151.0	BLFT20160620AAW	73 53 14.00		147	Ihm Licenses, LLC		
255A	WGNV-FM	LIC ZCN		330.6	17.38	41 50 26.90	1.350	1.6	24.9	9.9	-8.1*
	Rosendale	NY		150.5	BLH20110203ADB	73 59 23.70	213	305	Sunrise Broadcasting Corp.		
251A	WKZE-FM	LIC ZCN		47.5	35.32	41 55 08.30	1.800	2.3	27.5	27.8	6.4
	Salisbury	CT		227.7	BLH19920911KD	73 34 20.40	184	437	Willpower Radio, LLC		
252A	WDAQ	LIC _CN		134.9	51.92	41 22 27.30	1.300	30.2	20.5	15.1	22.0
	Danbury	CT		315.2	BMLH20060420ACO	73 26 45.40	140	301	The Berkshire Broadcasting		
252A	WSUL	LIC ZCN		266.1	66.59	41 39 38.30	2.200	39.7	26.3	20.9	30.6
	Monticello	NY		85.5	BLH20000314ABK	74 41 12.60	163	579	Bold Gold Media Group, L.P		
254B	WEPN-FM	LIC _CN		184.5	106.62	40 44 54.40	6.000	76.1	64.1	21.5	25.9
	New York	NY		4.4	BMLH20100414AAI	73 59 08.50	415	429	Emmis New York Radio Licen		
256B	WPLR	LIC _CN		111.6	83.90	41 25 22.30	15.000	4.9	58.8	72.6	23.4
	New Haven	CT		292.2	BLH20010628ABF	72 57 04.40	276	375	Connoisseur Media Licenses		
253D	W253BQ	LIC DCN		100.0	88.10	41 33 44.00	0.250	57.7	18.1	24.3	48.9
	Meriden	CT		280.7	0000212216	72 50 38.00		337	Co-Channel Communications		
250D	W250CH	LIC DCN		121.5	44.75	41 29 36.30	0.250	0.2	4.2	38.1	37.9
	New Milford	CT		301.8	BLFT20170217ABF	73 25 43.40		309	The Berkshire Broadcasting		
250B	WSKQ-FM	LIC _CN		184.5	106.63	40 44 54.30	6.000	4.5	64.1	93.2	40.8
	New York	NY		4.4	BLH19940204KA	73 59 08.50	415	429	Wskq Licensing, Inc.		
253B	AL0582	RSV-A		251.4	170.44	41 11 56.30	50.000	115.0	36.1	48.7	96.3
	Freeland	PA		70.1	RM10697	75 49 04.71	150	566	From CDBS		
250A	WRIP	LIC ZCN		334.4	71.66	42 17 06.30	0.580	1.0	21.8	64.7	49.0
	Windham	NY		154.1	BLH20000803AAG	74 15 50.50	322	937	Rip Radio, LLC		
254D	W254AU	LIC _CN		38.2	72.22	42 12 50.30	0.250	10.1	7.1	57.0	54.1
	Great Barrington	MA		218.5	BLFT20070427ADH	73 20 41.30	-54	297	University Of Massachusetts		
250D	WRIP-FM1	LIC DCN		333.0	62.02	42 12 04.30	0.035	0.0	1.4	56.0	54.9
	Hunter	NY		152.8	BLFTB20030728AER	74 13 43.50		956	Rip Radio LLC		
252D	W252DX	LIC DCN		176.2	75.66	41 01 32.00	0.015	11.5	7.9	55.8	56.8
	White Plains	NY		356.2	0000153768	73 49 37.00		257	Hudson-Westchester Radio,		
253B	WKRZ	LIC _CN		251.4	170.44	41 11 56.30	8.700	105.9	53.4	58.3	86.4
	Freeland	PA		70.1	BLH20040326AFN	75 49 04.70	357	770	Audacy License, LLC		
253A	WBON	LIC ZCN		135.0	132.81	40 51 18.40	0.950	67.9	22.3	58.3	88.4
	Westhampton	NY		315.7	BLH20040401AKC	72 46 09.40	160	174	Jvc Media LLC, A Florida		
252D	W252DY	CP DCN		221.3	82.84	41 08 34.00	0.150	9.2	6.7	64.8	66.3
	Sussex	NJ		40.8	0000195181	74 32 23.00		406	Digital Radio Broadcasting		
252D	W252ED	LIC _CN		202.6	87.00	40 58 52.50	0.050	6.7	4.7	70.8	69.1
	Pompton Lakes	NJ		22.3	0000113361	74 17 04.80		99	Borough Of Pompton Lakes		
256B	WANZ	LIC DCN		205.4	134.29	40 36 41.40	28.000	5.4	61.9	119.4	70.8
	Zarephath	NJ		25.0	BLH20030702AAD	74 34 10.60	200	265	Pillar Of Fire		
252D	W252BG	LIC _CN		40.0	85.79	42 17 39.30	0.013	6.1	4.2	74.8	71.9
	Lee	MA		220.4	BLFT20070427AAT	73 13 01.30	9	441	University Of Massachusetts		
252A	WKJY	LIC _CN		168.3	115.63	40 41 08.30	3.000	35.0	22.2	72.9	82.8
	Hempstead	NY		348.5	BLH19860814KA	73 36 35.40	100	117	Connoisseur Media Licenses		
252D	W252AS	LIC _CN		120.5	88.57	41 17 48.30	0.019	5.3	3.7	76.8	74.9
	New Haven	CT		301.1	BLFT20040206ABE	72 58 23.30	68	111	Town Of Monroe, Connecticu		
250A	WUCS	LIC ZCN		85.7	100.64	41 46 00.30	3.400	2.2	24.0	92.4	75.4
	Windsor Locks	CT		266.5	BLH20120123AEO	72 40 36.30	135	183	Ihm Licenses, LLC		

Figure 2. Contour Map

