

EXHIBIT 30 - Contour Protection

Minor Modification of Construction Permit

BPH-200701163ACF for
WBAR (fm) 94.7 MHz ch. 243
Lake Luzerne, NY
Capital Media Corporation
1 November 2007
C.S. Fitch, P.E.

Contour Protection

Discussion & Exhibits for consideration under 73.215

WBAR (fm) has been granted a Construction Permit (CP), BPH-200701163ACF.

This instant application requests a minor modification of that construction permit to change the height Above Ground Level (AGL) of the antenna on the same tower as specified in the granted CP.

This reduction in elevation will also precipitate changes as noted in the elevation of the Center of Radiation (COR) Above Mean Sea Level (AMSL) and the Height Above Average Terrain (HAAT) on which Effective Radiated Power (ERP) is calculated for equivalent coverage to that already approved.

WBAR-FM is presently a 73.215 station. This modification application requests a continuation of 73.215 status with facilities tantamount to those already permitted in the approved construction permit quoted above.

The discussion of the provisions for Contour Protection as provided by WBAR (fm) were addressed fully in Exhibit 30 of the original application for the amended CP. No changes in that study are indicated as this instant modification of elevation and adjustment of ERP will produce equivalent results.

As a convenience, the text addressing Contour Protection from that exhibit has been added below.

Using the 6 kW, Class A FM spacing values (73.207(b)(1) Table A), WBAR, at the proposed new site, is fully distance spaced to all effecting/affecting stations in all directions with two exceptions. See attached spacing study file, exhibit 26.

These two stations are :

WJEN (fm) Rutland, VT	94.5 MHz	Ch. 233A	BPH-20040621AAV	short by 5.2 km
WMAS-FM Springfield, MA	94.7 MHz	Ch. 234B	BLH-19801010AD	short by 15.7 km

This application will accomplish the goal of meeting the contour protection requirements of 73.215 for the operation of WBAR (fm) in relation to the above listed stations as follows ...

In the case of WJEN (fm), also a 73.215 station, no protection has been afforded as the critical signal contours of the proposed WBAR-FM's full equivalent 6 kW facility will not overlap either the licensed or the construction permit facilities of WJEN (fm). A discussion of the licensed site was addressed in the original application. The construction permit site is discussed below.

In the case of WMAS (fm), through contour protection that will be effected by specifying a directional antenna reducing WBAR-FM's ERP in the critical radial directions towards WMAS. The use of this antenna will reduce the contours of WBAR-FM to prevent overlap with the corresponding contours of WMAS even if WMAS (fm) were running a full class B facility.

In evaluating the allocation picture of WBAR (fm), as many as 100 or more separate 1 degree radials were closely considered in relation to WBAR and other affecting/effected stations. For a uniform and cohesive picture to be made, the HAAT achieved via an averaging of 360 one degree radials is more appropriate and used herein.

The terrain surrounding WBAR is extremely varied, characterized by notable hills and deep river valleys. A more accurate depiction of the HAAT over this service area is achieved from this more precise data.

Since undoubtedly the Commissions evaluation of this application will be made with its own computer programs, to avoid data conflict, the data presented herein was made with the identical tools available on line at the FCC's website.

The case of WJEN (fm)

The proposed new site of WBAR-FM is de minimus overall as it is only 1.8 km from the existing licensed and CP site.

Spacing to the WJEN (fm) licensed site does not change but by just 0.1 km (328 feet) vis a vis the proposed site since the new site is along a tangential line to the radius distance.

Since the filing and grant of the WBAR-FM granted construction permit, WJEN (fm) has filed and been granted a construction permit for a new site. That facility uses a directional antenna (BPH-20040621AAV).

At the end of this exhibit is a graphical map that indicates that there is no overlap of critical contours between the facility of this new proposed WBAR-FM facility and the facilities annotated in the WJEN(fm) construction permit.

Mathematically, considering a single worst case, on a direct line, from the proposed WBAR site to the construction permit site of WJEN (fm), the distance between is 66.9 km distance at an angle of 63.8 degrees from true north. The distance required between 1st adjacent channel class A's for full 6 kW operation of both is normally 72 km. The maximum short spacing then would be 5.1 km. The protected contour of WJEN is 60 dbu 50,50 and the WBAR interfering contour is 54 dbu 50,10 and vice versa.

Worst case (shortest radial 63.8° WBAR to WJEN -- 296.2° WJEN to WBAR)
 WBAR-FM 359 mts HAAT Ant E gain = 1 WJEN (fm) 214.3 mts HAAT Ant E gain = ~ 0.6

Protected Station	Protected 60 dbu (50,50) In kms from trans	+	Interfering 54 dbu (50,10) in kms from trans	-	Spacing Between 66.9 kms	=	Spacing margin in kms
WJEN (fm)	14.68		51.35		66.3		0.87
WBAR-FM	33.91		22.09		56.0		10.9

In the case of WMAS-FM

In the case of WMAS -FM, WBAR-FM and WMAS-FM are co-channel stations spaced 162.4 km apart on a bearing from WBAR-FM of 144.5 degrees. The required full spacing between a class A and a class B is 178 km producing a short spacing of 15.6 km.

WMAS is a rather elderly class B FM station presently operating reduced facilities from that allowed a zone 1 class B FM. The consideration of the contours of WMAS must be made on the basis of that station running full class B facilities from the licensed site.

The existing licensed site of WMAS is 50 kW at 59.4 mt HAAT using a Center of Radiation (COR) height Above Mean Sea Level (AMSL) of 121. 90.6 mt was added to both the HAAT and the AMSL in the calculations concerning WMAS to create the potential maximum facility class B at their licensed location. This new fictitious station then is 50 kW at 150 mt HAAT using a COR of 211.6 mt.

A directional antenna for WBAR-FM has been specified in this application that will preclude overlap on the critical radials towards WMAS-FM based on a maximum power and elevation station at the present WMAS-FM licensed coordinates.

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14 January 2007
1-860-673-7260



