

Infinity Broadcasting Corporation, (Infinity), the licensee of WBMX(FM), Boston, MA, seeks a Construction Permit for an auxiliary antenna, at a site located at geographic coordinates 42° 18' 10.3" North Latitude, 71° 13' 6.7" West Longitude (NAD27).. The Antenna Structure Registration number is 1004233. The antenna, a ERI model SHPX-8AC-HW-SP (half wave spaced), will be shared with auxiliary facilities also being proposed under separate applications by sister stations WBZ-FM, WZLX, and WODS. The proposed combined ERP from all four stations listed above is 36.3 kW H&V with a center of radiation 262.1 meters above ground level (AGL).

An analysis has been made of the human exposure to RFR using the calculation methodology described in OET Bulletin 65, Edition 97-01, prepared by the FCC Office of Engineering and Technology. This analysis was made using a series of reference points two meters above ground level in the area surrounding the base of the antenna supporting structure.

Calculations based on a worse case scenario of all four stations operating into the antenna simultaneously indicate that the proposed auxiliary antenna will contribute less than 5% of the MPE for General Population at any point on the ground.

If work is done on the tower or in any other area where over exposure could occur, Infinity, in coordination with the other users will take necessary action to prevent the overexposure of workers on the tower including reducing transmitting powers or ceasing operation completely.

The instant proposal is categorically excluded from environmental processing since none of the conditions of Sections 1.1306(b)(1), (2), or (3) of the FCC Rules would be involved for the following reasons:

1. The WBMX auxiliary antenna facility will utilize an existing supporting structure that is not in or near any location referenced in Section 1.1306(b)(1) of the FCC Rules as being of environmental interest.
2. The provision of Section 1.1306(b)(2) of the FCC Rules relating to the use of high-intensity strobe lighting does not apply since no change in the existing lighting is proposed.
3. Finally, with regard to RFR exposure concerns, compliance with applicable FCC MPE limits would be achieved.



Electronics Research, Inc.
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Figure 1

---Theoretical---

Vertical Plane Relative Field
8 Bay Axiom

0.00 Degree(s) Electrical Beam Tilt

6.1 Percent First Null Fill

0.0 Percent Second Null Fill

Power Gain is 2.646 in The Horizontal Plane(2.646 n The Max.)

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104.1 MHz

Element Spacing:
60 Inches

