

ENGINEERING STATEMENT  
CONCERNING HUMAN EXPOSURE  
TO RF ELECTROMAGNETIC FIELDS  
WBAB-FM AUXILIARY ANTENNA  
BABYLON, NEW YORK  
CHANNEL 272A 3.2 KW 62 M HAAT

This Engineering Statement was prepared on behalf of CXR Holdings, Inc. concerning the potential for human exposure to radio frequency (RF) energy in the vicinity of the WBAB-FM, Babylon, New York, auxiliary transmitting facility. The WBAB-FM auxiliary facility will operate with the following specifications:

Frequency (MHz)	Effective Radiated Power (kW)	Radiation Center Height Above Ground (m)	Transmitting Antenna
102.3	3.2 kW(H) & 3.2 kW(V)	38	ERI, model 1-bay "rototiller" (EPA Type 3)

There are no other known broadcast sources of RF energy in the vicinity of the WBAB-FM auxiliary antenna site.

The Rules of the Federal Communications Commission outline the maximum permissible exposure (MPE) limits applicable to the above facility. Specifically, according to Section 73.1310 of the FCC Rules, the MPE limit for 102.3 MHz is as follows:

Frequency (MHz)	MPE for Occupational/Controlled (O/C) Exposure (mW/cm <sup>2</sup> )	MPE for General Population/Uncontrolled (GP/U) Exposure (mW/cm <sup>2</sup> )
102.3	1.000	0.200

The subject facility was evaluated for RF exposure at 2-m above ground level using the procedures outlined in the FCC OET Bulletin No. 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields <sup>\*</sup>, with the following results:

Call Sign	Total Aural ERP (kW)	Relative Field Factor <sup>†</sup>	FCC Limit for GP/U Exposure (mW/cm <sup>2</sup> )	Calculated RF Field at 2-m Above Ground Level (mW/cm <sup>2</sup> )	Percentage of Limit
WBAB-FM Auxiliary	6.4	1.00	0.200	0.165	82.5%

As indicated, based on a worst-case analysis, the total RF exposure a 2-m above ground level will not exceed 82.5% of the FCC limit for uncontrolled environments. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant shall reduce power or cease operation as necessary to protect persons having access to the tower from RF energy in excess of the FCC guidelines.

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<sup>\*</sup> OET Bulletin No. 65, Edition 97-01, August, 1997.

<sup>†</sup> This is a conservative estimate of the relative field factor in the downward direction.