

RF HAZARD STATEMENT

RADIO STATION WBQN
BARCELONETA-MANATI, PUERTO RICO
1160 KHZ, 2.4 kW-N, 5 kW-D, U, DA-D

This statement was prepared for AM broadcast station WBQN, Barceloneta-Manati, Puerto Rico (1160 kHz). This statement concerns an evaluation of compliance with Section 1.1307(b) of the FCC Rules* regarding human exposure to radio frequency (RF) energy.†

The WBQN proposed facility will operate with a directional antenna during daytime hours with a nominal power level of 5 kW; and with a non-directional antenna during nighttime hours with a nominal power level of 2.4 kW. Both antenna tower elements will have an electrical height of 72.2° (0.20 wavelength).

Both towers shall be enclosed by fences that are located no less than 4 meters from the bases of the respective towers. Supplement A of the FCC OET Bulletin No. 65 was employed to determine the minimum distance for compliance with the RF exposure requirements.‡ Pursuant to Table 1 of Supplement A, for a frequency of between 1150 and 1340 kHz and for antenna with a height of 0.1 wavelength, with a transmitter power of 5 kW, the minimum distance for compliance with the FCC RF exposure standard is 5 meters. Pursuant to Table 2 of Supplement A, for a frequency of between 1150 and 1340 kHz and for antenna with a height of 0.25 wavelength, with a transmitter power of 5 kW, the minimum distance for compliance with the FCC RF exposure standard is 2 meters. Using linear interpolation, the minimum distance for compliance with the FCC limits is 3.5 meters. Therefore, the WBQN antenna will be compliant with the FCC RF exposure requirements. In the event that personnel need to enter the fenced area, the power level shall be reduced or terminated as necessary to prevent human exposure to RF energy in excess of FCC specified levels.

* See Rules of the United States Federal Communications Commission (FCC), generally at Title 47 of the Code of Federal Regulations (Telecommunication).

† See FCC Office of Engineering and Technology Bulletin No. 56 for background information on non-ionizing RF energy of the type discussed here. Internet web reference:

http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf

‡ See FCC Office of Engineering and Technology Bulletin No. 65, *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, Edition 97-01, released August, 1997, and *Supplement A: Additional Information for Radio and Television Broadcast Stations*