

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of CBS RADIO EAST INC., licensee of FM Station WCBS-FM, Channel 266B in New York, New York, in support of its application to license the auxiliary facility authorized in BXPB-20060725ACF. This statement provides data on the environmental levels of RF energy in the vicinity of the transmitter site.

The WCBS-FM auxiliary facility is authorized to operate with a main-lobe ERP of 7.2 kw (H, V) and an antenna center of radiation 395 meters above ground. The auxiliary station broadcasts from a multiplexed FM antenna on the Empire State Building, and the antenna is located on the tower mounted above the 104<sup>th</sup> floor of the building. For the past five years, and on behalf of the building's management, I have conducted power density measurements of the controlled and uncontrolled areas of the Empire State Building. The closest uncontrolled (public) area of the building that has line-of-sight to the auxiliary FM antenna is the 86<sup>th</sup> Floor Observatory.

On March 3, 2007, I conducted an RF survey of the Observatory Deck while the WCBS-FM auxiliary antenna was illuminated. Using a Narda 8715 power density meter and a Narda SRM-3000 Selective RF meter, I determined that under these conditions, there are no areas on the Observation Deck that exceed the FCC's maximum permissible exposure guideline (MPE) for public environments and that the contribution of the auxiliary WCBS-FM signal to the total RF at any particular point on the 86<sup>th</sup> Floor Observatory is less than five percent of the applicable MPE.

The only other uncontrolled environment in the upper level of the building is the 102<sup>nd</sup> Floor Observatory, which is enclosed. During the same measurement study, I found no areas on this floor where the MPE for uncontrolled environments is exceeded while the WCBS-FM auxiliary antenna is operating.

At the same time, I conducted measurements of the interior and exterior portions of the B-B, C-C and D-D levels, the entire interior portion of the Mooring Mast (Levels E-1 to E-4), and Floors 101 to 104. All of these areas (except for the 102<sup>nd</sup> Floor Observatory) are considered controlled environments. While there are certain areas within these levels where the total RF value exceeds the Commission's MPE for controlled environments, the measurement study reveals that WCBS-FM is not a significant contributor to the power density levels in these areas. Results of these studies are available to the Commission upon request.

Further, the operation of the WCBS-FM auxiliary facility is modified so that if personnel must access the tower for repair or maintenance, appropriate steps are taken, such as reducing power or temporarily leaving the air, to assure an absence of excessive RF exposure in these areas. On this basis, and considering that the station produces less than five percent of the current FCC reference in uncontrolled areas, a grant of the subject application would clearly constitute a minor environmental action with regard to public and occupational exposure to nonionizing electromagnetic radiation.

I declare, under penalty of perjury, that the foregoing statements are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

April 9, 2007