

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of CBS RADIO EAST INC., licensee of commercial FM station WFAN-FM, Channel 270B (101.9 MHz) in New York, New York, in support of this Application for Construction Permit to operate with a new auxiliary facility on the broadcast tower atop the Empire State Building.

A 19-station antenna will be mounted at the 384.6-meter level of the building. The antenna will be a three-bay, omnidirectional, circularly polarized model constructed and installed by Electronics Research, Incorporated (ERI). The proposed effective radiated power for the WFAN-FM auxiliary will be 7.1 kW. The predicted 54 dBu service contour that results from this proposed facility is plotted in Exhibit B. In Exhibit C, we compare the 60 dBu service contour of the station's main facility with that of the proposed auxiliary facility. Clearly, the contour of the auxiliary facility does not exceed that of the main facility at any azimuth, a requirement of the Commission's Rules for auxiliary facilities.

Exhibit D is an elevation pattern for the proposed auxiliary antenna and Exhibit E is a power density calculation.

While no interference to any authorized communications facility at the proposed site is expected to be caused by the proposed auxiliary operation, the applicant accepts its responsibility for correcting any such interference that may occur. In addition, the applicant will satisfy any complaint of interference to any FCC-listed device within the auxiliary facility's predicted blanketing contour.

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Because no change in the overall height or location of the existing tower is proposed herein, the FAA has not been advised of this proposal. In addition the FCC has assigned Antenna Structure Registration Number 1007048 to this tower.

I declare, under penalty of perjury, that the foregoing statements and attached engineering exhibits, which were prepared by me, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', is centered on the page.

KEVIN T. FISHER

May 17, 2017







Electronics Research, Inc.
7777 Gardner Road
Chandler, In. 47610

Figure 12

----Theoretical----

11/5/2015 7:55:51 AM

Vertical Plane Relative Field

101.9 MHz

ERI 1184-3CP-2 FM Antenna

Element Spacing:

0.00 Degree(s) Electrical Beam Tilt

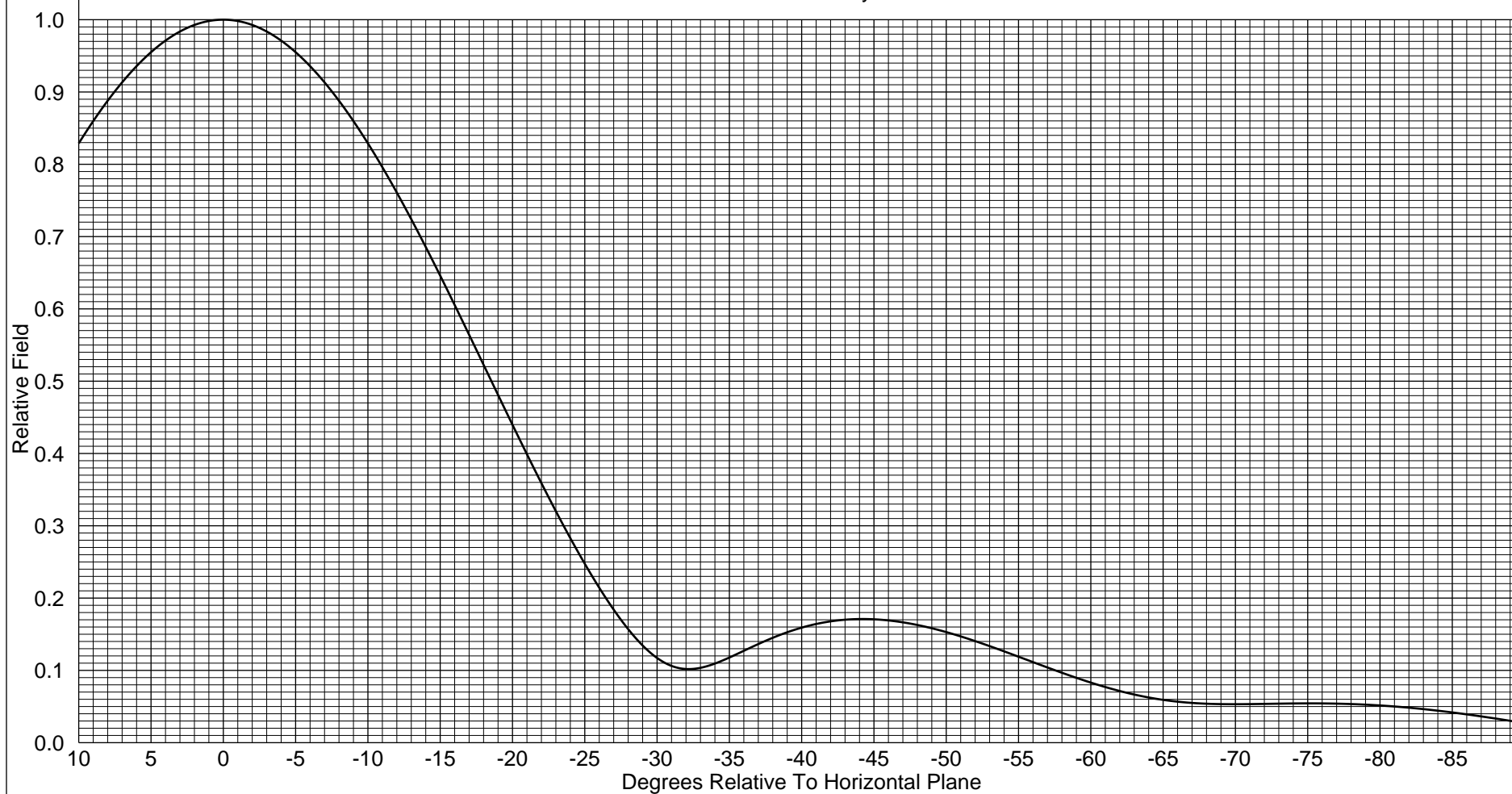
80 Inches

10.0 Percent First Null Fill

0.0 Percent Second Null Fill

Power Gain is 1.188 In The Horizontal Plane(1.188 In The Max.)

95% Efficiency



POWER DENSITY CALCULATION

PROPOSED WFAN-FM AUXILIARY
CHANNEL 270B (101.9 MHZ) – NEW YORK, NEW YORK

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this New York facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 7.1 kW (H, V), an antenna radiation center 384.6 meters above ground, and the vertical pattern of the ERI 3-bay FM antenna, maximum power density two meters above ground of 0.000046 mW/cm^2 is calculated to occur 396 meters from the base of the building. Since this is significantly less than 0.1 percent of the 0.2 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating in the FM Band, a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.

In addition, the firm of Smith and Fisher, LLC will conduct a comprehensive power density survey of the upper floors of the Empire State Building once the new auxiliary antenna is operational. This survey will include the parapets on the 81st Floor (east and west), the 86th Floor Observatory, the 87th Floor HVAC area, the east 88th Floor parapet, the exterior areas around the base of the Mooring Mast (DD-level), the six interior levels of the Mooring Mast

EXHIBIT E

(Levels DD, E-1, E-2, E-3, E-4, and the 101st Floor), the 102nd Floor Observatory, the 103rd Floor interior and parapet, and the 104th Floor. The purpose of this survey will be to document the RF levels in each of these areas and show compliance with the Commission's guidelines for human exposure to RF energy in public (uncontrolled) and occupational (controlled) environments. A statement summarizing the results of the survey will be included in the station's application for license.