

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., permittee of WWOR-DT, Channel 38 in Secaucus, New Jersey, in support of its Application for License to cover the facility authorized in BMPCDT-20040130AZR. The purpose of this exhibit is to note a change in omnidirectional antenna make and model. No change in antenna height, site location or effective radiated power is proposed herein.

Instead of utilizing the authorized Harris TAD-16UDAUP-4/32 omnidirectional antenna, the station will employ a Dielectric ESBTUF80 antenna instead. An elevation pattern for the new omnidirectional antenna is provided in Exhibit B. This change can be made in the station's license application, since no other change in authorized operating parameters is being specified.

The following operating parameters describe the existing operation of WWOR-DT:

Transmitter Power Output: 10.86 dBk (12.18 kw)  
Combiner/Line Loss: 0.68 dB  
Antenna Input: 10.18 dBk  
Antenna Gain: 12.12 dB  
Effective Radiated Power: 22.30 dBk (170 kw)  
Antenna Make/Model: Dielectric ESBTUF80

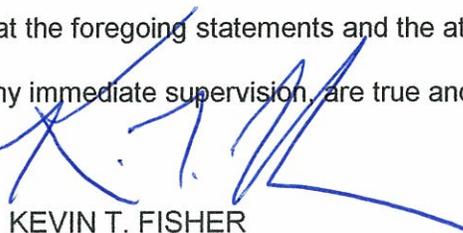
Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Secaucus facility.

Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 170 kw (H) and 2.1 kw (V), an antenna radiation center 395 meters above ground, and assuming a vertical relative field value of 20 percent at the steeper elevation angles for the Dielectric antenna, maximum power density two meters above ground of 0.0015 mw/cm<sup>2</sup> is calculated to occur near the base of the building. Since this is only 0.4 percent of the 0.41 mw/cm<sup>2</sup> reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 38 (614-620 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

In addition, our firm will conduct power density measurements of all upper floors of the Empire State Building, once the new antenna becomes operational. These measurements will be used to confirm that RF levels in all locations remain compliant with the FCC's human exposure guidelines.

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 nonionizing radiation.

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



KEVIN T. FISHER

July 31, 2008

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>16.30 ( 12.12 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>10.70 ( 10.29 dB )</b>	Frequency	<b>617.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>08U163100-90</b>

