

TECHNICAL EXHIBIT
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY
PREPARED FOR
STATION WXFT-DT
AURORA, ILLINOIS
CH 50 172 KW (MAX-DA) 509 M

Technical Statement

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The WXFT DTV antenna will be mounted on a mast located atop the Sears Tower. There is no open “uncontrolled” area within the structure of the Sears Tower. All such spaces are within the perimeter of the building walls. Furthermore, based on an agent of the applicant, the upper floors are periodically surveyed for RFR compliance, and there have been no known RFR exposure issues arising from operation of the antennas located above the roof within the perimeter of the building walls.

The antenna will be mounted 71.6 meters from the rooftop and 66.1 meters from the penthouse. Access to the rooftop site and penthouse are both restricted and appropriately marked with RFR warning signs. The maximum DTV ERP is 172 kW (horizontal polarization). A conservative vertical plane relative field value of 0.28 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above the penthouse is 0.110 mW/cm^2 . This is 4.8% of the FCC's recommended limit of 2.3 mW/cm^2 for channel 50 for a “controlled” environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

The Sears Tower is an established FM and TV transmitter site, shared by many broadcast users. Furthermore, as this is a multi-user site, a program is in place for ensuring worker safety as indicated in the attached copy of an RFR Compliance Statement included with the WXFT-TV license renewal (BRCT-20050801CPI).

Finally, it is noted that this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the

environmental processing analysis will be or already has been provided to the FCC by the tower owner as part of the tower registration process.

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