

ENGINEERING EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
AUXILIARY TRANSMITTING FACILITY  
RADIO ONE LICENSES, LLC  
STATION KBXX  
HOUSTON, TEXAS  
FACILITY ID 11969  
CH 250 100 KW 585 M

Engineering Statement

This Engineering Statement and the attached Figures 1 and 2 were prepared on behalf of Radio One Licenses, LLC; licensee of FM broadcast station KBXX Houston, Texas. The applicant proposes to establish an auxiliary facility for KBXX to be located approximately 310 meters south of the KBXX licensed site. The proposed 60 dBu coverage of the auxiliary station will be entirely within the existing KBXX licensed 60 dBu coverage area, as shown on Figure 2.

The auxiliary antenna will be side-mounted on a tower bearing registration number 1059622, with center of radiation at 506 meters above ground level. See Figure 1. The proposed eight bay FM antenna with approximate one wavelength spacing between bays will employ circular polarization. The antenna will also be used by the auxiliary operation of co-owned station KMJQ Houston, TX. Station KMJQ will employ effective radiated power of 85 kilowatts. Several other FM and TV stations have antennas mounted on the tower.

With respect to human exposure to radiofrequency radiation, it has been determined based on the FCC's OET Bulletin 65, *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, that the power density for the

proposed auxiliary operations of both WBXX and KMJQ (185 kilowatts), calculated two meters above ground level is 0.0047 milliwatts per centimeter squared, or 2.3 percent of the guideline value for an uncontrolled environment. As the predicted power density is less than 5 percent of the guideline value at this multi-user site, the proposal meets FCC requirements. A fence limits access to the tower, and warning signs are posted. If it becomes necessary for workers to ascend the tower, in conjunction with other users, the power of the proposed station will be reduced or the station operation terminated so as to protect workers from exposure to radiofrequency radiation in excess of the guideline value.

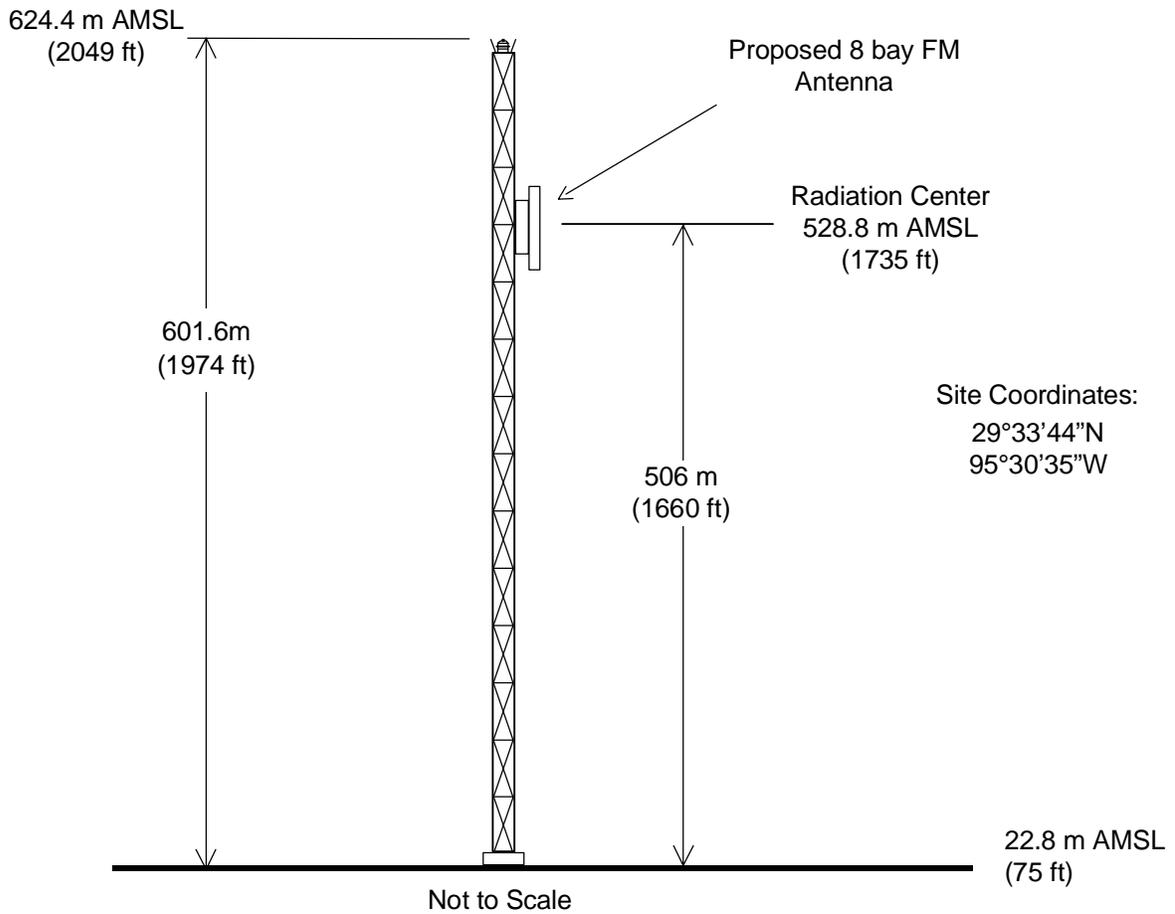
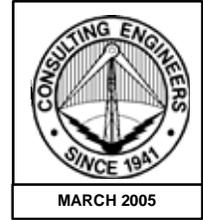


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201 Fletcher Avenue  
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941 329 6000

March 17, 2005

Figure 1

Tower Registration number: 1059622



## PROPOSED AUXILIARY TOWER AND ANTENNA

FM STATION KBXX  
HOUSTON, TEXAS  
CH 250C 100 KW 510 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



**PREDICTED 60 dBu COVERAGE CONTOURS**

FM STATION KBXX  
(AUXILIARY LOCATION)  
HOUSTON, TEXAS  
CH 250C 100 KW 510 M