

Engineering Exhibit
W288AB Facility ID: 31140
Construction Permit Application
Braddock Heights, MD
September 20, 2010

The applicant seeks to modify the License of W288AB Braddock Heights, MD, a translator for station WFRE (FM) Frederick, MD. This application seeks a change in transmitter location of approximately 10 kilometers, a change in antenna height, a change in power and a change of Community of License to Hawbottom MD. This is a minor change application, as overlap of the proposed service contour and the authorized service contour in the construction permit occurs.

It is proposed to locate W288AB upon a 67.1 meter tower, ASR# 1036904 with its center of radiation at a height of 4.5 meters above ground level.

Figure 1 of this exhibit is a map showing the 60 dBu contour of the presently authorized facility as well as the proposed facility. The map at Figure 2 of this exhibit is depicting the proposed 54 dBu F50:50 service contour of primary (parent) station WFRE (FM) and this proposed facility.

This application is in compliance with Section 74.1204. An overlap study is presented in tabular form in Figure 3 of this exhibit that demonstrates no prohibited overlap is predicted to occur from this proposal.

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET bulletin No. 65, "Evaluating Compliance With FCC Specified Guidelines for Human Exposure to Radio Frequency Radiation".

The proposed antenna system has been considered as an EPA Type 1, 1-bay "Ring and Stub worse case" antenna, mounted with its center of radiation 4.5 meters above ground level, and operating with an effective radiated power of 0.006 Kilowatts in the horizontal plane. At 2 meters above ground level, at 1.4 meters from the base of the tower, this proposal will contribute worst case, 4.45% of the allowable limit for uncontrolled exposure. As this is less than 5% of the allowable limit for uncontrolled exposure, Section 1.1307(b) does not require that nearby broadcast station power contribution be considered. It is therefore believed that this proposal is in compliance with OET Bulletin No. 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.