

RADIO FREQUENCY FIELD EVALUATION

An evaluation of the Radio Frequency Field (RFF) existing around the base of the tower has been performed with all authorized stations within the vicinity of the W27AJ tower. Currently, two broadcast television facilities exist within 500 meters, W14CM and W27AJ. The search did not return any FM stations within 500 meters nor did it return any AM stations existing within 5 kilometers of the tower based upon the March 12, 2002 release of the Commission's Consolidated Database System (CDBS).

The existing W27AJ authorization is predicted to produce $2.95\mu\text{W}/\text{cm}^2$ around the base of the tower while the K14CM authorization on Channel 14 is predicted to produce approximately $0.29\mu\text{W}/\text{cm}^2$. This results in a total of approximately $3.24\mu\text{W}/\text{cm}^2$ around the base of the tower that is 0.178% of the maximum limit for controlled exposure and 0.891% of the maximum limit for uncontrolled exposure of the general public. The applicant proposes to replace the existing W27AJ facility with a Channel 8 facility and a Scala CL-713 antenna operating with a maximum ERP of 3 kilowatts. This proposal will create a maximum power density around the base of the tower of $0.108\mu\text{W}/\text{cm}^2$. The replacement of the current authorized W27AJ facility with the proposal will create Radio Frequency Fields around the base of the tower that are 0.029% of the maximum limit for controlled exposure and 0.145% of the maximum limit for uncontrolled exposure of the general public. Coincidentally, this is a reduction in the overall RFF around the base of the tower.

FCC RULE, SECTION 1.1307

The proposed operation based upon the current OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field guidelines, and thus, complies with Section 1.1307 of the FCC Rules.

An environmental assessment (EA) is categorically excluded under Section 1.1307 of the FCC Rules and Regulations since the applicant indicates:

- (a)(1) The existing site is not located in an officially designated wilderness area.
- (a)(2) The existing site is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities will not affect any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering or culture.
- (a)(5) The existing site is not located near any known Indian religious sites.
- (a)(6) The existing site is not located in a flood plain.
- (a)(7) The installation of the new antenna on the tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to change the current lighting on the tower.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines. Authorized personnel will be alerted to areas of the antennas where potential radiation is in excess of the FCC guidelines. A security fence with a locked gate deters unauthorized access to the tower site.