

WITF-DT DTV

Channel 36 Frequency: 602-608 MHz Range
Total ERP = 140,000 watts
Polarization = Horizontal
RCAGL-2 meters = 189.7 meters

WITF-DT proposes to use a Harris, Type TWS-24LP/O with a field factor less than 0.23 at any angle below the horizontal in the vicinity of the WITF-DT tower site. A value of 0.23 will be used in the calculation.

$S = 33.4 (F^2) \text{ Total ERP}$ Total ERP = 140,000 watts (Horizontal Polarization)
 R^2 R = 189.7 meters
 F = 0.23 (field factor)

$S = 6.9 \mu\text{W}/\text{cm}^2$

WITF-DT contributes $6.9 \mu\text{W}/\text{cm}^2$ at two meters above ground level. The limit for an uncontrolled environment is $403.3 \mu\text{W}/\text{cm}^2$ for a station broadcasting in the 602-608 MHz range.

Therefore:

The WITF-DT facility contributes less than 2% RFF for an uncontrolled environment two meters above ground in the vicinity of the WITF-DT tower site.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

An environmental assessment (“EA”) is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower 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 located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing guyed 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 equip the tower with high intensity white lights unless required by the FAA.

- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.