

R.F. Emissions Safety Exhibit

Exhibit 22, March 26, 2006

The proposed WITF-FM auxiliary antenna will be mounted on an existing 150 foot; self-standing tower located approximately 46 meters from the main WITF-FM tower. The antenna site is located on Blue Mountain, some 6.4 kilometers north of the city of Harrisburg at the top of a small mountain 400 meter above mean sea level. The ground drops off sharply on all sides of this site except where the gravel road entrance is located. The entrance to the site is posted with "Private, No trespassing signs" and high-field R.F. hazard warning signs are also posted.

The following broadcast antennas are located at the site:

ID Stations Study at 40 20 44 N, 76 52 07 W, Search Distance = 1 km

<u>Call</u>	<u>Service</u>	<u>City</u>	<u>State</u>	<u>CH</u>	<u>ERP</u>	<u>Coordinates</u>	<u>Dist-km</u>	<u>Azi</u>
<u>File Number</u>								
AM ----- None Found -----								
FM -----								
WITFFM M		Harrisburg	PA	208B	5.9 kW	402045N 765206W	000.0	037.4
BLED19821006AP	FM							
WRVV M		Harrisburg	PA	247B	15 kW	402043N 765209W	000.1	236.8
BLH20040916ACU	FM							
TV -----								
WITFTV V		Harrisburg	PA	33+1E	1100 kW	402044N 765207W	000.0	000.0
BMLET19820217KH	TV							
WITF-D T		Harrisburg	PA	36 1E	50 kW	402044N 765207W	000.0	000.0
BLEDT20000922AHE	TV							
WHP-DT T		Harrisburg	PA	04 C	0.575 kW	402043N 765209W	000.1	236.8
BDSTA20020418ABK	TV							
WHPTV V		Harrisburg	PA	21+1C	1200kW	402043N 765209W	000.1	236.8
BLCT2171	TV							
WHP-DT T		Harrisburg	PA	04 1C	2.3 kW	402043N 765209W	000.1	236.8
BLCDT20020508AAD	TV							
WHP-DT T		Harrisburg	PA	21 1C	500 kW	402043N 765209W	000.1	236.8
BFRCT20050812AD	TV							

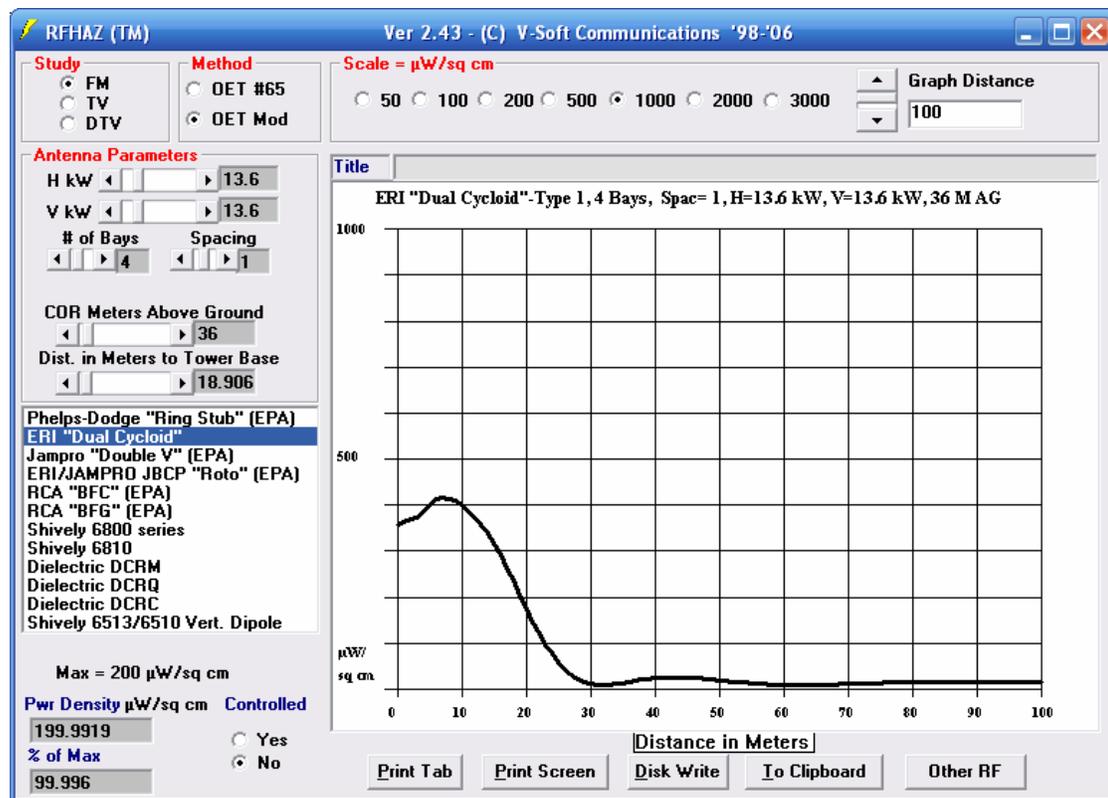
Numerous other low-power services such as cellular and two-way are located at the site on other towers.

While there is a fence at the base of the main transmitter tower there is no fence around the proposed auxiliary tower. Therefore, this site does not qualify as a "controlled-site" and the 200 microwatt per square centimeter MPE must be applied.

RF Measurements at the WITF, Inc antenna farm site were taken in February 2006, by R.F. Safety Solutions, LLC of Setauket, NY, and have since been provided to the Commission. The measurements show that the RF field levels throughout the WITF, Inc antenna site grounds are below the MPE limit for

General Population/Uncontrolled exposure.¹ With the proposed WITF-FM auxiliary antenna in operation, it is predicted that RF levels on the ground can exceed the general population uncontrolled MPE limits. For this reason, during WITF-FM auxiliary transmitter operation only personnel who are fully aware and able to exercise control will be allowed into the area around the tower on which the proposed antenna will be mounted.

The WITF-FM auxiliary station application proposes the use of a 4-bay ERI, Dual Cycloid antenna (formerly a Collins 37-P) mounted at 38.1 meters above the ground. The vertical field pattern for this antenna is attached as Appendix A of this Exhibit. This antenna also appears in the OET FMMModel program data as a type 1, EPA studied, antenna. The following graph shows the ground-level exposure this antenna presents at head height:



Since the MPE exceeds 200 microwatts per square centimeter, from the tower base to a distance of 18.9 Meters, before WITF commences transmitting with the auxiliary antenna it will install warning signs that can be read from a least this distance around the perimeter of the proposed antenna tower.

Further, WITF, Inc will participate with the other operator's at its site in an R.F. safety program and provide educational information to all workers at the site regarding safety procedures and the MPE levels and their locations. WITF, Inc

¹ Richard Strickland, Owner and principal engineer

has an agreement with the other tower users at the site to lower power or to terminate transmission in order to keep exposure to workers at the site under the Commission's maximums.

When it is in use, WITF, Inc will lower the power or terminate the operation of the auxiliary antenna in the event workers must climb the tower or other towers in the vicinity. During operation, personal high-field R.F. warning monitors will be required of all workers on the tower.

Finally, WITF, Inc will place in its public file post-installation measurements that provide evidence that the site will be in compliance with the Commission's rules and Regulations with regard to protection of workers and the general public from excessive R.F. emissions.

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FIGURE 100

-----THEORETICAL-----
VERTICAL PLANE RELATIVE FIELD

4 DUAL CYCLOID ELEMENTS WITH 0 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL

8/1/88
ELEMENT SPACING:
1 WAVELENGTH

