

Exhibit 2  
**ENVIRONMENTAL CONSIDERATIONS**  
prepared for  
**Community TV Federation of S. Florida, Inc.**  
WPBT(TV) Miami, Florida  
Facility ID 13456  
Ch. 18 78.5 kW 271.3 m

**Introduction**

The instant proposal is not believed to have a significant environmental impact as defined under §1.1306 of the Commission's Rules. Consequently, preparation of an Environmental Assessment is not required.

*Community TV Federation of S. Florida, Inc.* ("Community") licensee of digital television station WPBT, Miami, FL, seeks authority to install a temporary antenna while tower work takes place on the station antenna support structure. No change in site, tower, or overall structure height is proposed.

The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

**Public Exposure to Radiofrequency Electromagnetic Field**

The proposed operation was evaluated for human exposure to radiofrequency (RF) energy using the procedures outlined in the Commission's OET Bulletin No. 65 ("OET-65"). The Channel 18 antenna will be situated such that its center of radiation is 271.5 meters above ground. An effective radiated power of 78.5 kW, horizontally polarized, will be employed. According to elevation pattern data provided by the antenna manufacturer, the antenna has a relative field of less than 30 percent from 20 to 90 degrees above and below the horizontal plane. Thus, a value of 30 percent relative field is used for this calculation. The "uncontrolled/general population" limit specified in §1.1310 for Channel 18 (center frequency 497 MHz) is 331.3  $\mu\text{W}/\text{cm}^2$ .

OET-65's formula for television transmitting antennas is based on the NTSC transmission standards, where the average power is normally much less than the peak power. For DTV facilities,

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the peak-to-average ratio is different than the NTSC ratio. The DTV ERP figure herein refers to the *average* power level. The formula used for calculating DTV signal density in this analysis is essentially the same as equation (10) in OET-65.

$$S = [(33.4098) (F)^2 (ERP)] / D^2$$

Where:

<i>S</i>	=	power density in microwatts/cm <sup>2</sup>
<i>ERP</i>	=	total (average) ERP in Watts
<i>F</i>	=	relative field factor
<i>D</i>	=	distance in meters

Using this formula and the above assumptions, the proposed facility would contribute a power density of 3.2 µW/cm<sup>2</sup> or one percent of the general population/uncontrolled limit at two meters above ground level near the antenna support structure. At ground level locations away from the base of the tower, the calculated RF power density is even lower, due to the increasing distance from the transmitting antenna. Consequently, it is believed that members of the general public will not be exposed to RF levels in excess of FCC limits.

§1.1307(b)(3) states that facilities contributing less than five percent of the exposure limit at locations with multiple transmitters are categorically excluded from responsibility for taking any corrective action in the areas where their contribution is less than five percent. Since the instant situation meets the five percent exclusion test at all ground level areas, the impact of any other facilities at this site may be considered independently from this proposal. Accordingly, it is believed that the impact of the proposed operation should not be considered to be a factor at or near ground level as defined under §1.1307(b).

### **Occupational Exposure to Radiofrequency Electromagnetic Field**

Access to the tower compound is restricted to trained service and station personnel. A site exposure policy will continue to be employed protecting maintenance workers from excessive exposure when work must be performed on the tower or in areas where high RF levels may be present. Such protective measures may include, but will not be limited to, placement of RF exposure warning signs on the antenna support structure, restriction of access to areas where levels in excess

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of the guidelines may be expected, power reduction, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines would otherwise be exceeded. On-site RF exposure measurements may also be undertaken to establish the bounds of working areas that do not exceed exposure guidelines. The applicant will continue to coordinate exposure procedures with other users of this site.

**Conclusion**

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under §1.1306 of the Rules; hence preparation of an Environmental Assessment is not required.

As demonstrated herein, excessive levels of RF energy attributable to the proposal will not be caused at accessible areas at ground level near the antenna supporting structure. Consequently, members of the general public will not be exposed to RF levels in excess of the Commission's guidelines. Nevertheless, site access will continue to be restricted and appropriate RF exposure warning signs will continue to be posted.

A site exposure policy is employed protecting maintenance workers from excessive exposure when work must be performed on the tower where high RF levels may be present. Such protective measures may include, but will not be limited to, restriction of access to areas where levels in excess of the guidelines may be expected, power reduction, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines will be exceeded. On-site RF exposure measurements may also be undertaken to establish the bounds of working areas that do not exceed the guidelines. The applicant will coordinate exposure procedures with all pertinent stations.

**Conclusion**

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under §1.1306 of the Rules; hence preparation of an Environmental Assessment is not required.