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**VIRGINIA BEACH EDUCATIONAL BROADCASTING FOUNDATION**

**LICENSEE AND PERMITTEE OF**

**W280CX, NORFOLK VA**

**FACILITY ID 18861**

**FCC FILE BLFT-20000831AKS**

**EXHIBIT 10 FCC FORM 350**

Pursuant to Condition Number 1 of BPFT-20000831AKS, W280CX is commencing Automatic Program Test Authority with the filing of this covering License application.

Pursuant to Condition Number 2 of BPFT-20000831AKS, we will comply with the RFR requirements as stated in the application for the underlying Construction Permit as stated below.

**ENVIRONMENTAL RFR CONSIDERATIONS**

The instant application is excluded under 1.1306. Using the procedures outlined in OST Bulletin 65, Edition 97-01 and specifically Equation 10, Page 21, I have evaluated the RFR energy from the antenna system of W280CX as follows:

W280CX is the only broadcast antenna at the station location required to be considered by 47 CFR 1.1307(b).

W280CX, CH 280 will operate with an ERP of 0.17 kilowatts vertical only. The proposed single element transmitting antenna is side mounted with the antenna approximately 30 meters up the tower. Utilizing Equation 10 without considering any elevation pattern attenuation, the required separation for the controlled environment is 2.4 meters. Again, utilizing Equation 10 without considering any elevation pattern attenuation, the required separation for the general public/uncontrolled environment is 5.3 meters. Since the antenna is 30 meters above the ground, the height of the structure limits the possible excessive radiation values to at least 24.7 meters above the ground.

Again using Equation 10, at a location 2 meters above ground, the predicted RFR energy is  $7.2 \mu\text{W}/\text{cm}^2$  or 3.6 % of the OET 65 allowable of  $200 \mu\text{W}/\text{cm}^2$  for the general public/uncontrolled environment at 103.9 MHz.

Therefore the total levels of all RFR energy sources at all points on the ground are below that required for protection of both the employees and the general public as required by ANSI 95.1-1992. The radiofrequency levels do not exceed  $7.2 \mu\text{W}/\text{cm}^2$  anywhere on the ground in the area of the tower.

As a precaution to employees, a suitable sign will be posted at the base of the tower alerting maintenance personnel to the presence of RFR energy so that appropriate action can be taken when access on the tower above 26 meters above the ground is required.

The applicant further states that during periods of maintenance where workers on the tower could be exposed to excessive levels of RFR energy, any transmitting system that could pose a hazard will be either turned off or reduced in power to insure that workers are not subject to excessive values of RFR energy. With these procedures in place, we believe the proposed

W280CX operation is in compliance with the RFR energy protection requirements of 47 CFR 1.1307(b).