

RF HAZARD STATEMENT  
SECOND FILING WINDOW  
APPLICATION FOR CONSTRUCTION PERMIT  
TV STATION WCSC-TV  
CHARLESTON, SOUTH CAROLINA  
CHANNEL 19 625 KW (DA) 521 m

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground<sup>1</sup> based on the following conservative assumptions, with the following results:

| Call Sign | Channel | Total ERP<br>(kW) | Distance<br>(m) | Relative<br>Field<br>Factor <sup>2</sup> | FCC Limit <sup>3</sup><br>(uW/cm <sup>2</sup> ) | Percentage<br>of Limit |
|-----------|---------|-------------------|-----------------|--|---|------------------------|
| WCSC-TV   | 19      | 625               | 518             | 0.1                                      | 335.3   | 0.23%                  |

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 0.23% of the FCC limit for general population / uncontrolled exposure.

Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures are taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing “accepted” RFR protective clothing and/or RFR exposure.

<sup>1</sup> The radiation center is 520 m above ground level.

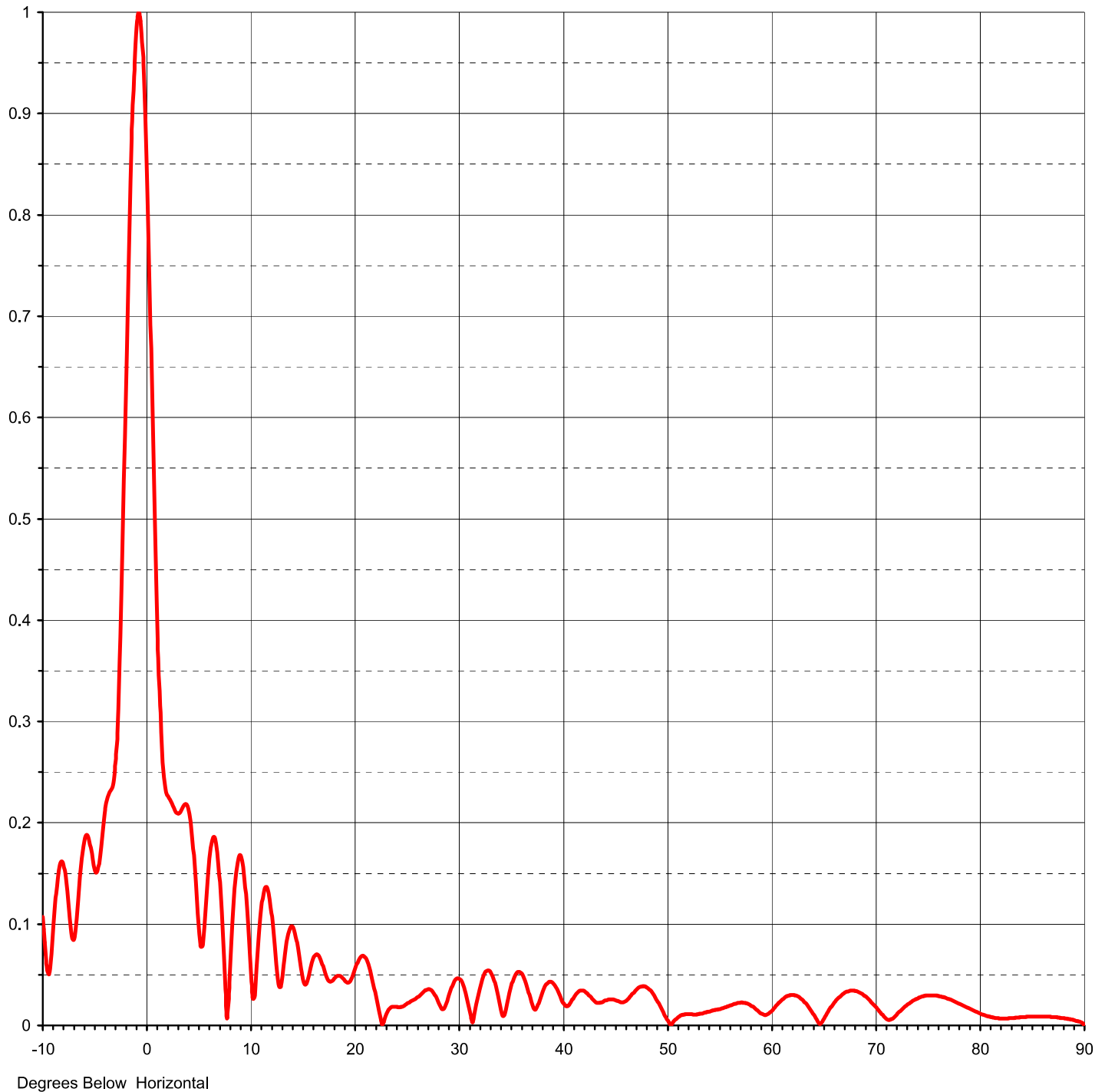
<sup>2</sup> This is a conservative assumption for the maximum relative field at steep downward angles. See attached vertical plane relative field pattern.

<sup>3</sup> For general population/uncontrolled environments.

|              |                |            |
|--------------|----------------|------------|
| Date         | 6-Dec-02       |            |
| Call Letters | WCSC           | Channel 47 |
| Location     | Charleston, SC |            |
| Customer     | WCSC, Inc.     |            |
| Antenna Type | TUP-C3-10-1    |            |

## ELEVATION PATTERN

|                        |                           |           |                     |
|------------------------|---------------------------|-----------|---------------------|
| RMS Gain at Main Lobe  | <b>22.00 ( 13.42 dB )</b> | Beam Tilt | <b>0.75 deg</b>     |
| RMS Gain at Horizontal | <b>15.60 ( 11.93 dB )</b> | Frequency | <b>671.00 MHz</b>   |
| Calculated / Measured  | <b>Calculated</b>         | Drawing # | <b>10U220075-90</b> |



Degrees Below Horizontal

Remarks: Denny & Associates, PC