

Engineering Statement in support of  
FCC FORM 340  
APPLICATION FOR CONSTRUCTION PERMIT FOR RESERVED CHANNEL  
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION  
(For a Minor Change to a Licensed Facility)  
WWJJ, Facility ID 173855

This is a minor change to a licensed facility by Florida Educational Radio, Inc. (the Applicant) for WWJJ, an FM Radio Station, serving the community of Jasper, Florida.

The move is to an existing antenna tower, ASRN 1212268.

This application was prepared using FCC 30-arc-second terrain data.

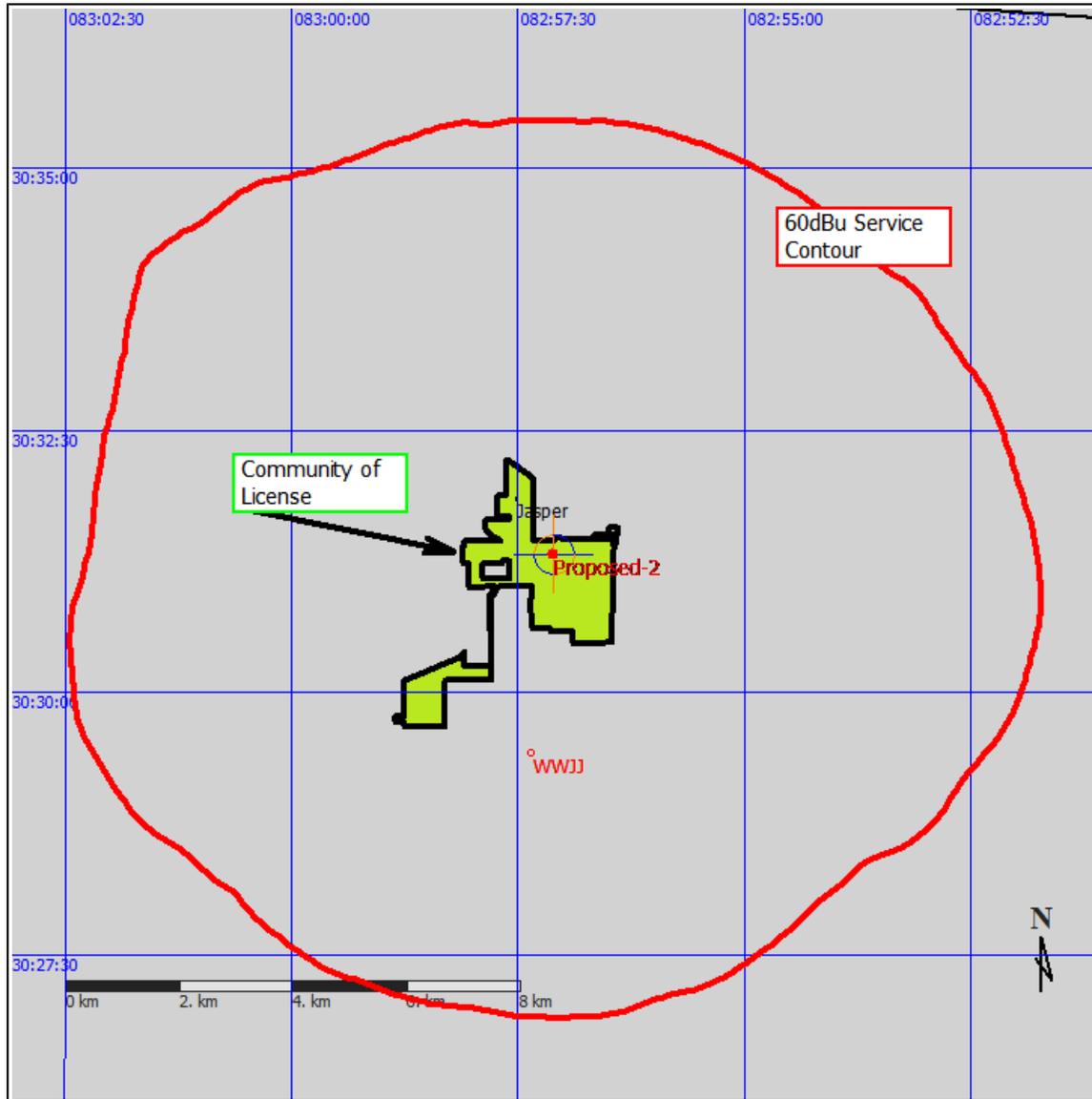
## Section VII Engineering Data:

### Tech Box Data:

- 1) Channel 219
- 2) Class A
- 3) Antenna Location Coordinates
  - 30° 31' 19" N
  - 82° 57' 06" W
- 4) Proposed Assignment Coordinates, Not Applicable
- 5) Antenna Structure Registration. 1212268
- 6) Overall Tower Height, 90.8 meters AGL
- 7) Radiation Center Height, 107 meters (H) 107 meters (V) AMSL
- 8) Radiation Center Height, 60 meters (H) 60 meters (V) AGL
- 9) Radiation Center Height, 74 meters (H) 74 meters (V) HAAT
- 10) ERP 0.07 kW (H) 0.07 kW (V)
- 11) Maximum ERP if beamtilt used, Not Applicable
- 12) Directional Antenna, No
- 13) Main Studio Location, Yes, Inside city limits of community of license.
- 14) Community Coverage, Yes, See Exhibit.
- 15) Interference, No
  - a) Section 73.509, Checked. See Exhibit.
  - b) Section 73.207, Checked. Clear of all stations and authorizations.
  - c) Section 73.213, Not Checked. Not Applicable.
  - d) Section 73.215, Not Checked.
  - e) Section 73.525, Checked.
- 16) Reserved Channel above 220, Not Applicable
- 17) International Border, Yes.
- 18) NEPA, Yes. Operation of this facility will not have a significant environmental impact. To the best knowledge of the Applicant:
  - The proposed modification to the existing structure is not located in an officially designated wilderness area or wildlife preserve.
  - The proposed modification to the existing structure does not threaten the existence or habitat of endangered species.
  - The proposed modification to the existing structure will not involve high intensity white lighting in a residential neighborhood.
  - The proposed modification to the existing structure will not affect districts, sites, buildings, structures or objects significant in American history, architecture, engineering or culture that are listed in the National Register of Historic Places, or are eligible for listing.
  - The structure does not affect Indian religious sites.
  - The site is not located in a flood plain.
  - Nothing is proposed that would require significant changes in surface features such as wetland fill, deforestation or water diversion.
  - This proposal complies with the FCC established guidelines regarding exposure to RF electromagnetic fields, See Exhibit.
- 19) Community of License Change, Not Applicable.

# Exhibit

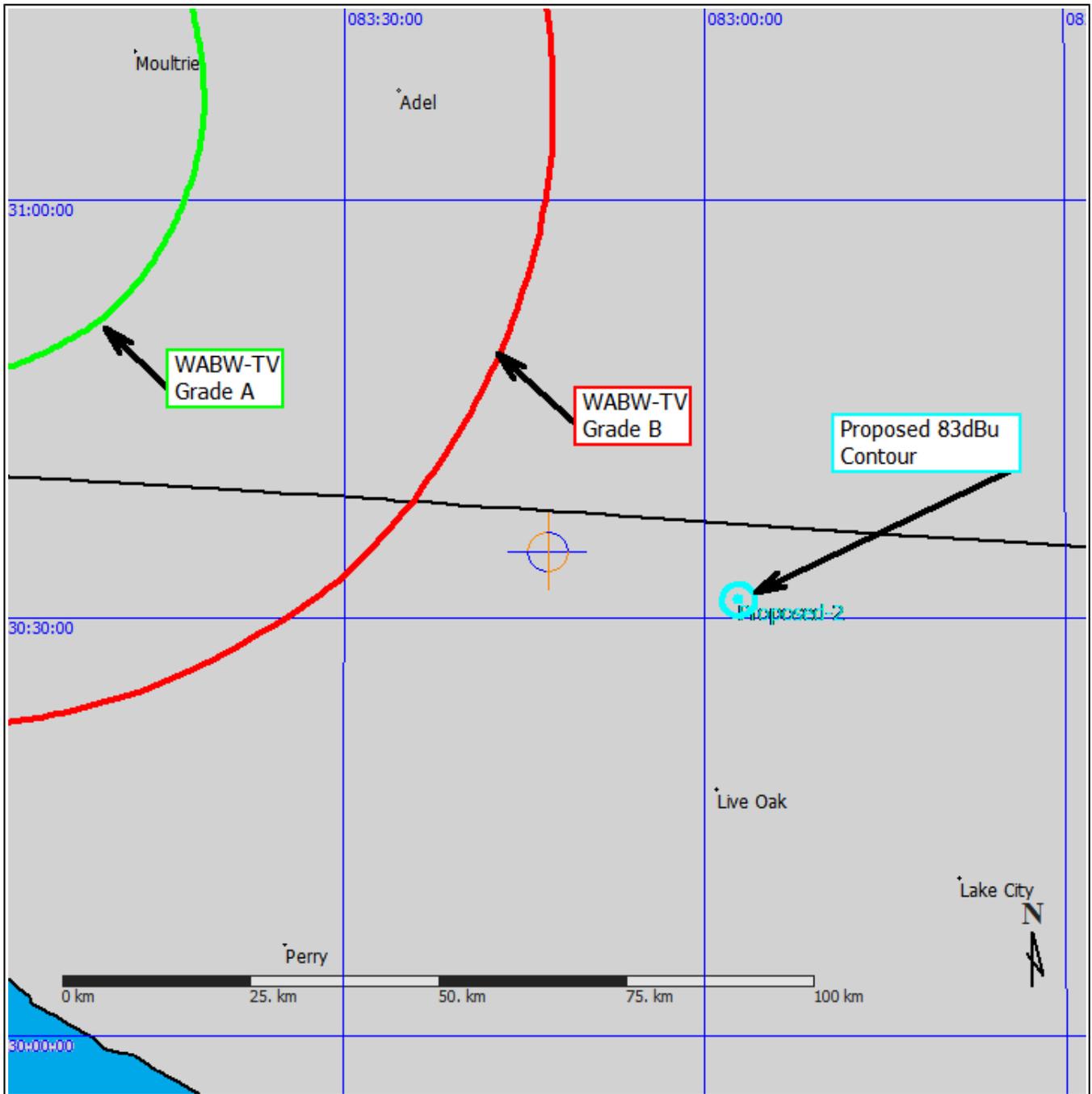
## 60dBu Contour Area and Population. Community of License Coverage.



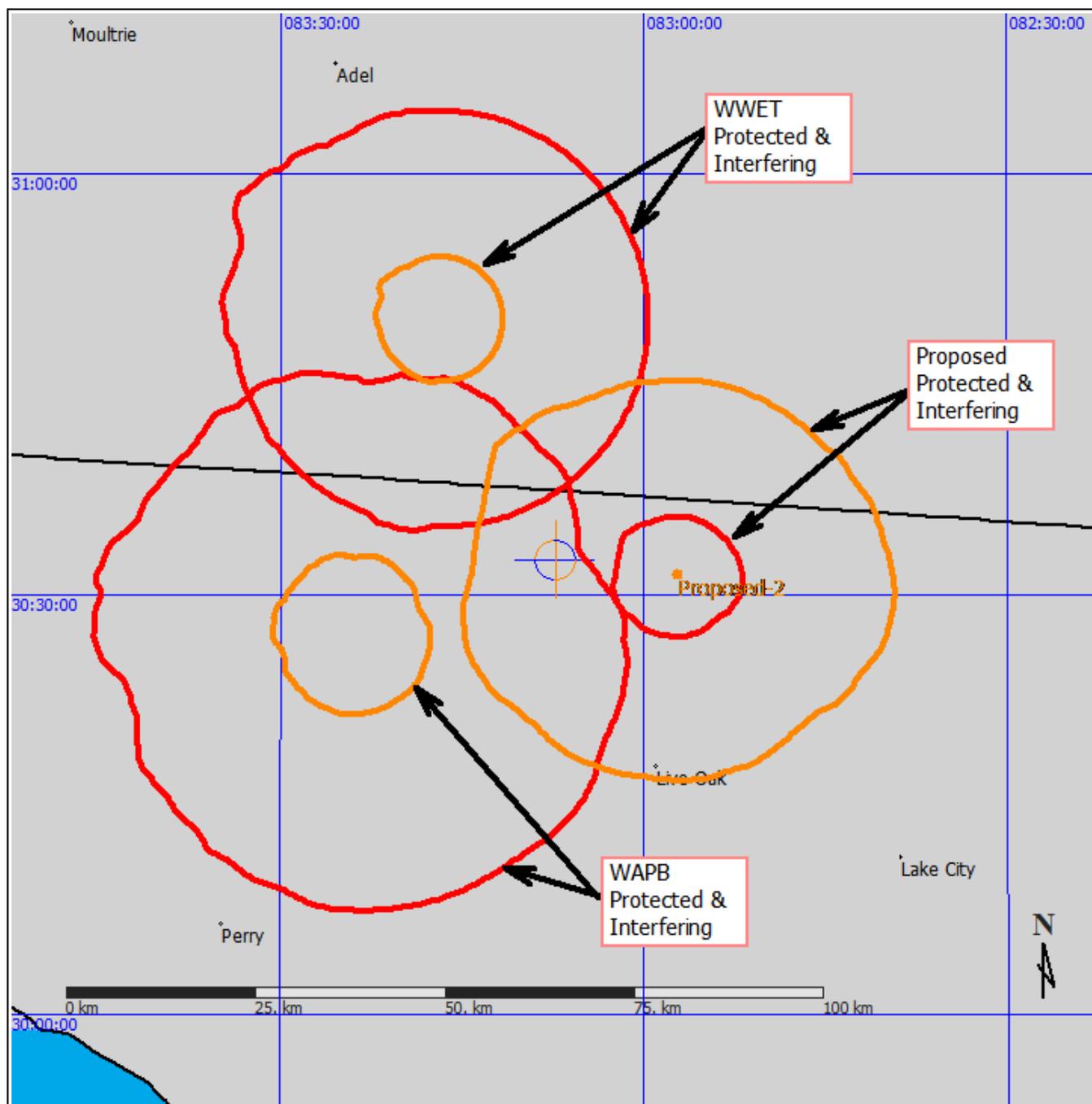
# Exhibit

## TV-6 Protection

The proposed facility is short spaced to WABW-TV. The following exhibit shows that the proposal's interfering contour does not approach the TV station's protected contour.



## Exhibit Contour Protection

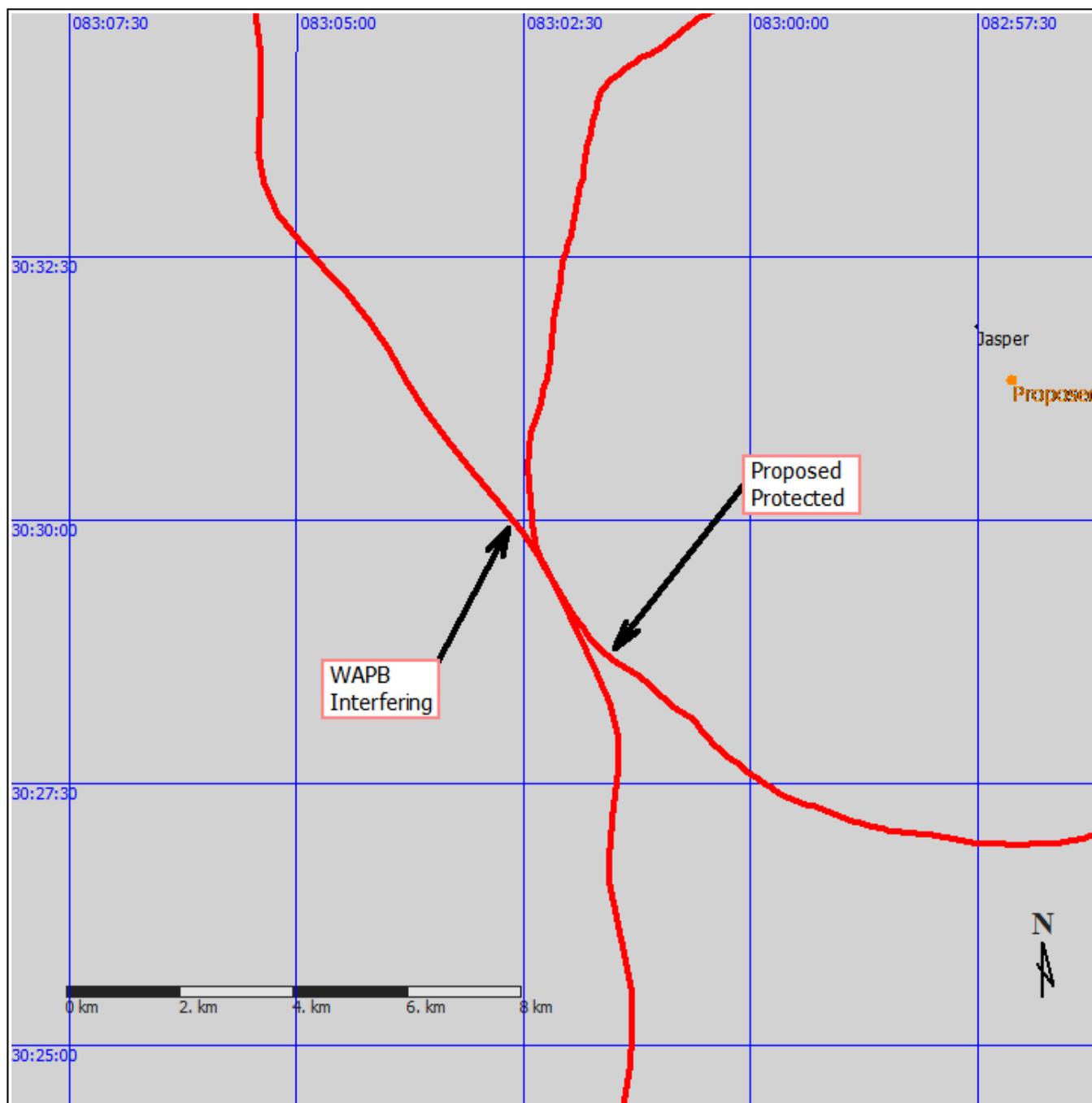


*Co-Channel Protected and Interfering Contours.*

Contours are color-coded so that prohibited overlap is indicated by LIKE color contours overlapping.

# Exhibit

## Contour Protection



*Co-Channel Protected and Interfering Contours, closeup.*

## **Exhibit 22a**

### **RF Exposure**

The Applicant will cooperate with all site users, managers and owners with regard to the cessation of operation or the reduction of operating power, whenever it is necessary to comply with the FCC Regulations and Guidelines on Human Exposure to Non-Ionizing RF Radiation.

The modeled contribution to the RF environment, 2-meters above the ground, by the proposed facility is less than  $0.39 \text{ uW/cm}^2$ . This result was obtained using the FCC's "FMModel" computer program.

The following parameters were used to calculate the exposure level:

Horizontal ERP 70 W

Vertical ERP 70 W

Antenna Radiation Center Height AGL 60meters

Antenna Type: EPA Type 2.