

New Port Richie, Florida
Application for New Auxiliary Facility for
FM Station WCIE
On Channel 218
by
Radio Training Network

Auxiliary Facility Compliance Exhibit

June 2020

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Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Auxiliary Facility Compliance Exhibit, for Radio Training Network, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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Narrative

This Exhibit supports a new auxiliary application for FM station WCIE, on Channel 218 in New Port Richie, Florida. This proposal complies fully with the requirements of 47 C.F.R. §73.1675.

Figure 1 shows the proposed 60 dBu F(50,50) auxiliary coverage area and the authorized coverage area. Figure 1 shows that the proposed facility F(50,50) 60 dBu does not extend beyond the F(50,50) 60 dBu of the authorized facility. The site is the former licensed main site for WCIE. The proposed antenna is a Jampro Model JMPC-4 antenna, with 4 elements at 1.0 wavelength spacing.

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's LMS or CDBS, converted to NAD83. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments.

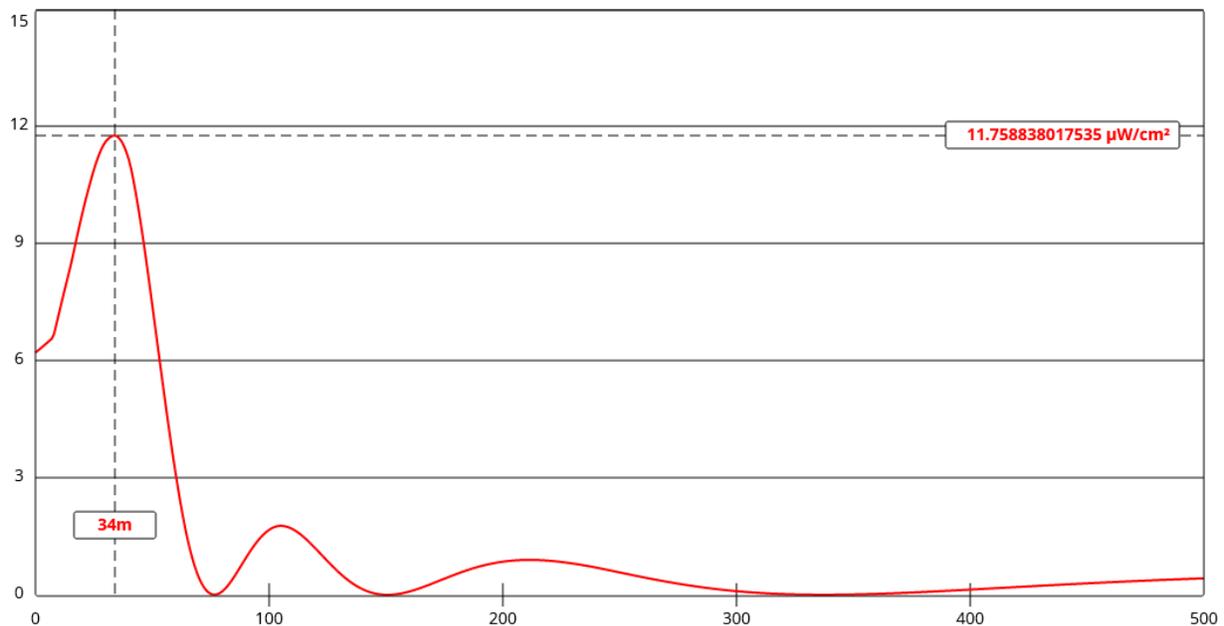
The Height Above Average Terrain (HAAT) is calculated based using the HAAT calculator on the FCC web site, using the GLOBE 30 second terrain data and 360 radials.

The contours were evaluated using terrain extracted from the GLOBE 30 arcsecond terrain database, formatted by V-Soft Communications to work with its allocation and mapping programs.

Nonionizing Electromagnetic Radiofrequency Radiation Compliance

The proposed facilities, when evaluated under worst case methods in OET-65¹, will create 0.084 mW/cm² two meters above ground level. That power density is in compliance with the public/uncontrolled limits at 42% of the limit. A four level antenna is proposed, which will significantly reduce the downward radiation.

The site was evaluated using the FM Model utility on the FCC web site. As the graph below shows, the exposure at 2 meters above ground is 5.85% of the limit.



¹Cleveland, Robert F., Jr., Sylvar, David M., and Ulcek, Jerry L., *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*, OET Bulletin 65, Edition 97-01.

WCIE aux

Proposed
Latitude: 28-16-59 N
Longitude: 082-42-42 W
ERP: 10.00 kW
Channel: 218 91.5 MHz
AMSL Height: 93.98 m
Elevation: 2.98 m
Horiz. Pattern: Omni

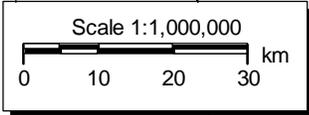
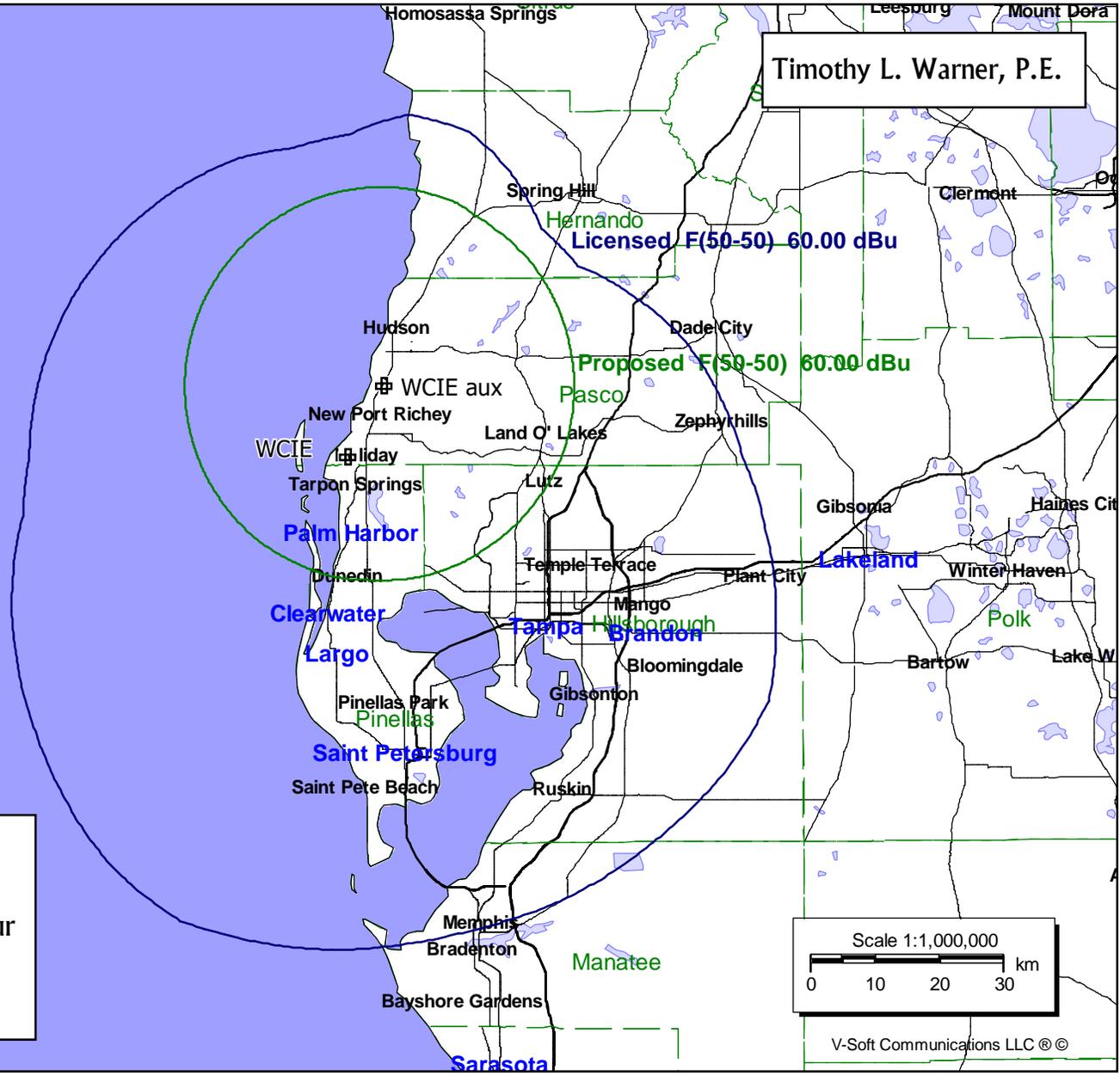
WCIE

BLED20131121AVZ
Latitude: 28-10-57 N
Longitude: 082-46-05.30 W
ERP: 75.00 kW
Channel: 218 91.5 MHz
AMSL Height: 391.1 m
Elevation: 2.5 m
Horiz. Pattern: Directional

WCIE

Licensed Contour
Proposed Auxiliary Contour
June 2020
Figure 1

Timothy L. Warner, P.E.



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