

Engineer's Statement in support of
FCC FORM 349
APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM
TRANSLATOR OR FM BOOSTER STATION
(For a New FM Translator)

This is a long form application by Circuitwerkes, Inc. (the Applicant) for a new FM Translator serving the community of Lake City, FL. The Applicant previously filed a short form, BNPFT-20030317MWM, facility ID 158533.

The proposed facility is in compliance with 47 C.F.R. Section 1.1306 with regards to radio-frequency electromagnetic exposure in that the contribution to the rf environment is less than 5% of the maximum public exposure.

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

The maximum ERP is limited by the height-above-average-terrain bearing 210-degrees. The HAAT in this direction is 70 meters. The maximum ERP for this height is 0.038 kW.

The proposal is sufficiently distant from all facilities mentioned in 73.1030(a), (b) & (c) so that notification under 73.1030 is not required.

The proposal is collocated with WJTK, a 3rd adjacent authorization. WJTK's signal strength is predicted to exceed the proposal's signal by more than 21dB in all locations. Therefore this proposal should be acceptable under 73.1204(d).

Joseph M. DiPietro, P.E.
16 June 2008

RFEngineers, Inc.
1213 NW 16th Av
Gainesville, FL 32601
352-367-1725

Section VII Engineering Data:

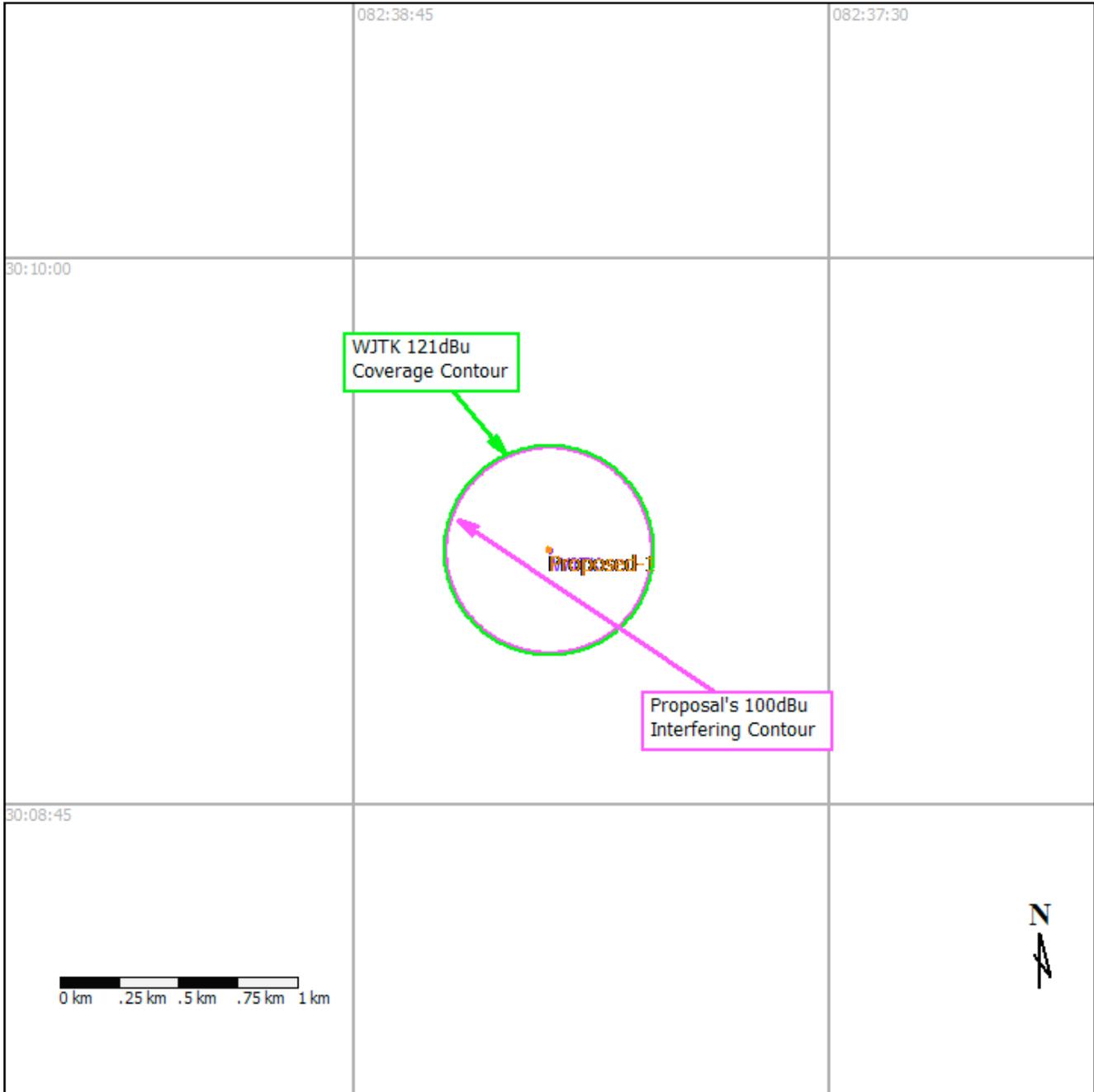
Tech Box Data:

1. Channel: **246**
2. Primary Station: **FID: 24208**
WYKS
Gainesville, FL
Channel 287
3. Delivery Method: **Off-air**
4. Antenna Location Coordinates: (NAD27):
30° 09' 20" N
82° 38' 14" W
5. Antenna Structure Registration: **1031340**
6. Antenna Location Site Elevation Above Mean Sea Level: **30 meters**
7. Overall Tower Height Above Ground Level: **122 meters**
8. Height of Radiation Center Above Ground Level: **61 meters (H) AGL**
61 meters (V) AGL
9. ERP:
0.038 kW (H)
0.038 kW (V)
10. Transmitting Antenna: **Nondirectional**
11. Fill-in Translator: **Not Applicable**
12. Interference: **Yes**
 - a) Section 74.1204, **Checked**. See Exhibit 12, Stations and Authorizations requiring investigation.
 - b) Section 74.1205, **Not Checked**.
13. Unattended operation: **Yes**
14. Multiple Translators: **Yes**
15. NEPA: **Yes**. This proposal is excluded from environmental processing: The modeled rf at the base of the tower is 0.25% of the maximum public exposure level.

Exhibit 12

ID	City	St	Chan	CL	Stat	Prefix	ARN	Dist
WJTK	COLUMBIA CITY	FL	243A	LIC	BLH	20061010AOI		0

Stations and Authorizations Requiring Investigation



Protected and Interfering Contours

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