

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 Sarasota, FL. The Applicant previously filed a short form, BNPFT-20030317MWN, facility ID 158420.

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 270-degrees. The HAAT in this direction is 45 meters. The maximum ERP for this height is 0.120kW.

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

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16 June 2008

RFEngineers, Inc.  
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352-367-1725

## Section VII Engineering Data:

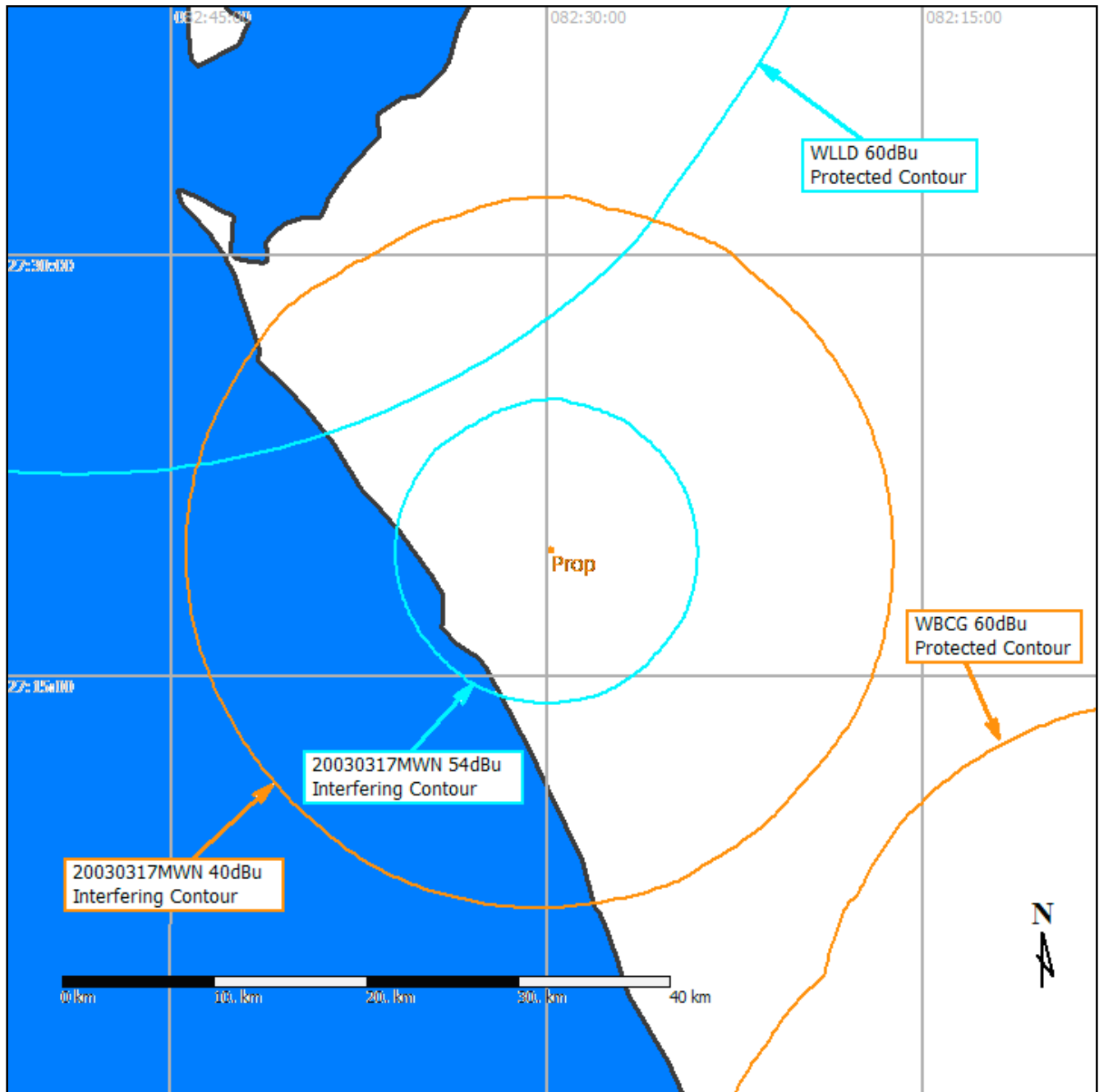
### Tech Box Data:

1. Channel: **255**
2. Primary Station: **FID: 29569**  
**WXXL**  
**Tavares, FL**  
**Channel 294**
3. Delivery Method: **Off-air**
4. Antenna Location Coordinates: (NAD27):  
**27° 19' 27" N**  
**82° 29' 47" W**
5. Antenna Structure Registration: **N/A**
6. Antenna Location Site Elevation Above Mean Sea Level: **5 meters**
7. Overall Tower Height Above Ground Level: **44 meters**
8. Height of Radiation Center Above Ground Level: **40 meters (H) AGL**  
**40 meters (V) AGL**
9. ERP:  
**0.120 kW (H)**  
**0.120 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 1.1% of the maximum public exposure level.

## Exhibit 12

ID	City	St	Chan	CL	Stat	Prefix	ARN	Dist
WLLD	HOLMES BEACH	FL	254	C2	LIC	BLH	19990720KG	65.43
WBCG	MURDOCK	FL	255	A	LIC	BLH	20070803ABP	47.36

Stations and Authorizations Requiring Investigation



Protected and Interfering Contours

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