

Engineering Statement in support of
FCC FORM 349
APPLICATION FOR AUTHORITY TO
CONSTRUCT OR MAKE CHANGES
IN AN FM TRANSLATOR
A Minor Modification of a Construction Permit
BMPFT-20140522AFZ, W237EJ, Facility ID 143046

Introduction:

This is an application by RFEngineers, Inc (the Applicant) for a minor change to Construction Permit BMPFT-20140522AFZ, Facility ID 143046.

The applicant proposes to move the facility 11.4km northwest of the authorized location, increase the height and increase the ERP. The proposed change is minor since there is no change in frequency and the proposed service contour overlaps the original service contour. See the Minor Change Exhibit. The move is to registered tower # 1029807.

The Primary Station will be changed from a non-commercial/educational (LPFM) to a commercial AM station. The Primary Station will be WRUF, Facility ID 69151. The applicant has the written permission of the Primary Station licensee to rebroadcast their signal.

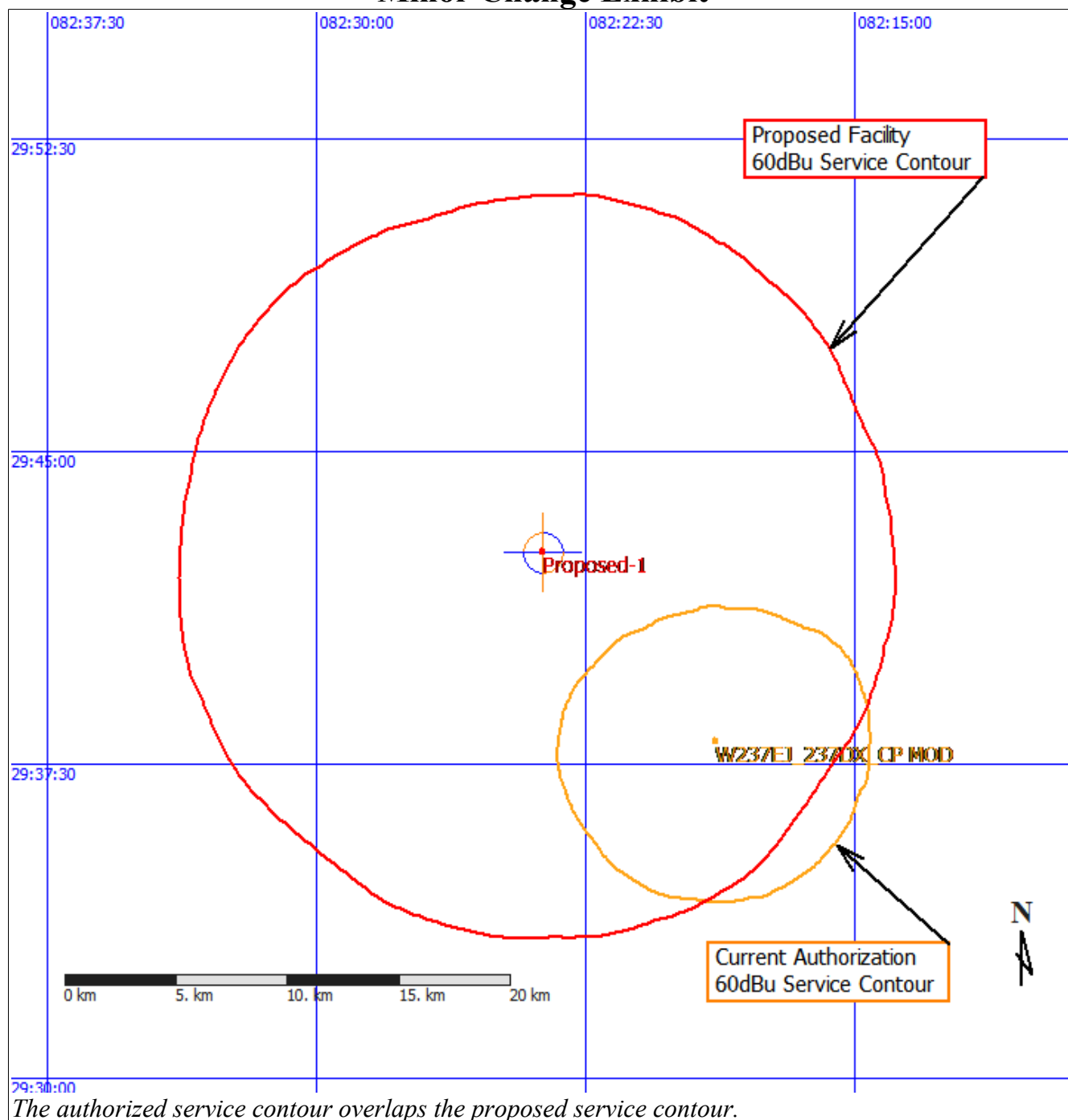
This application was prepared using FCC 30-arc-second terrain data.

Section III-A Engineering Data:

Tech Box Data:

1. Channel: 237
2. Primary Station: Facility ID 69151, Callsign WRUF, Gainesville, FL
3. Delivery Method: Other
4. Antenna Location Coordinates: 29° 42' 34" N (NAD-27)
82° 23' 40" W
5. Antenna Structure Registration Number: 1029807
6. Antenna Location Site Elevation: 54.9 meters AMSL
7. Overall Tower Height: 257.2 meters AGL
8. Height of Radiation Center: 137 meters (H) - 137 (V) AGL
9. Effective Radiated Power: 0.25 kW (H) - 0.25 kW (V)
10. Transmitting Antenna: Non Directional
11. Booster or Fill-in within protected contour: Yes.
12. Interference: Yes, No prohibited overlap.
 - a) Contour Overlap Requirements: Checked.
 - b) TV Channel 6 Protection: Not Checked.
13. Unattended Operation: Yes
14. Multiple Translators: Yes
15. NEPA, Yes.
 - a) Operation of this facility will not have a significant environmental impact. This proposal is a collocation on an existing tower. The height of the tower is unchanged by this proposal.
 - b) 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.
 - c) The proposed site is in compliance with permissible exposure requirements based on calculations using RF Worksheet #1. Based on this information the proposed facility is in compliance with 47 C.R.R. Section 1.1306 with regards to radio-frequency electromagnetic exposure.

Minor Change Exhibit



Fill-in Exhibit

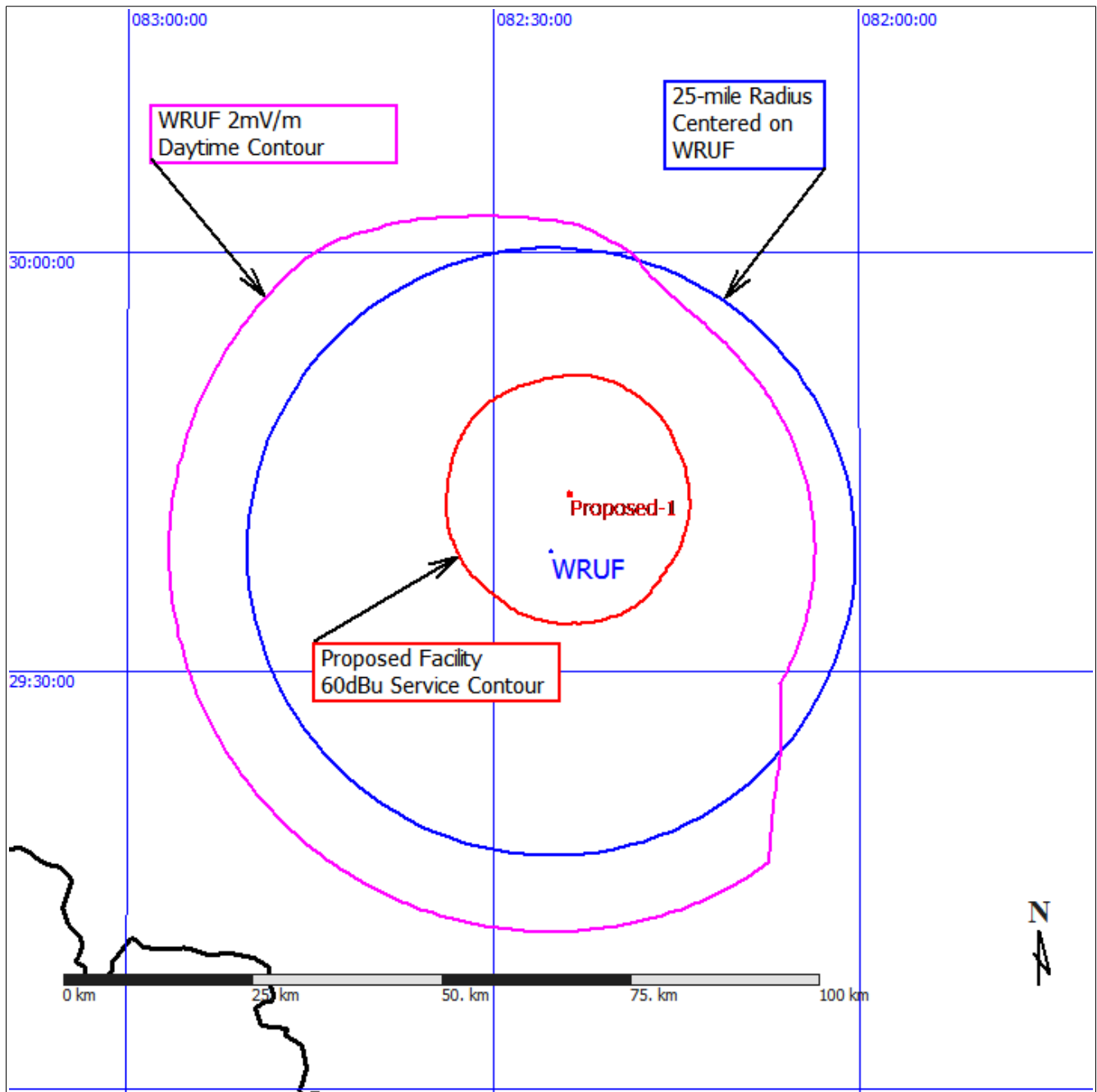


Illustration 1: Proposed Translator's service contour is contained within the Primary Stations 2mV/m Daytime Contour and is within 25-miles of the AM tower site.

Contour Protection Exhibit

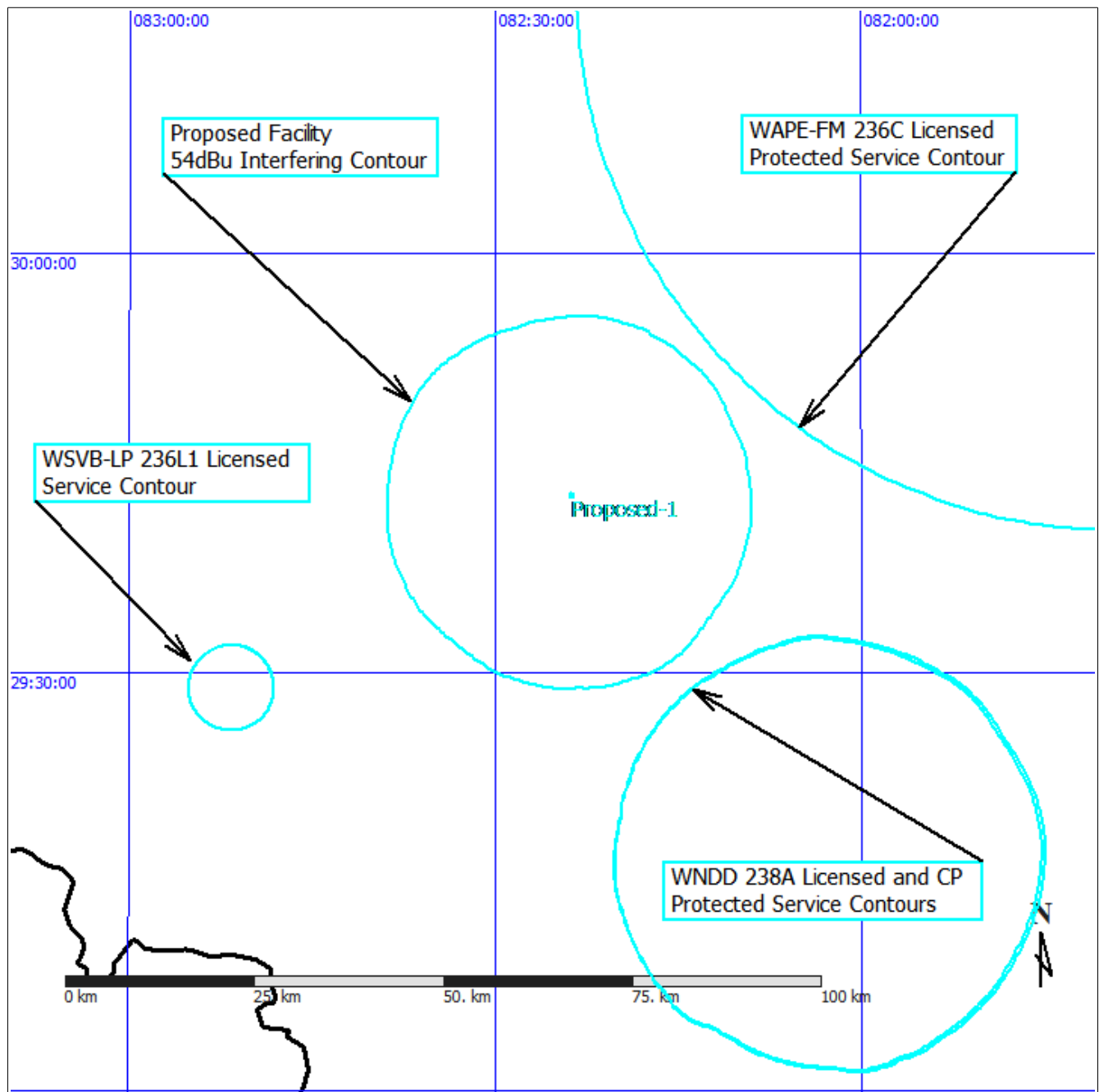


Illustration 2: No 1st Adjacent prohibited overlap. There are no nearby cochannel, 2nd Adjacent or 3rd Adjacent Facilities.

RFR Exhibit

Ref Line #			
(1)	Rad Center Height	137.000	Meters AGL
(3)	Building Height	0.000	Meters AGL
(4)	Clearance Height	137.000	Meters AGL
(5)	Head Height	135.000	Meters AGL
(6)	Horizontal ERP	0.250	kW
(7)	Vertical ERP	0.250	kW
(8)	Total Power	0.500	kW
(9)	Power x 33.41	16.705	
(10)	line 5 squared	18225.000	
(11)	Line-9 / Line-10	0.001	
(12)	Percent Exposure	0.092	%