

Engineering Statement in support of
FCC FORM 349
APPLICATION FOR AUTHORITY TO
CONSTRUCT OR MAKE CHANGES
IN AN FM TRANSLATOR
(For Minor Amendment to a Pending Application)
BPFT-20160129AVI
250-mile window application
Facility ID 155722

Introduction:

This is a 250-mile window application by Rocket Radio Corporation (the Applicant) for a minor amendment to BPFT-20160129AVI, K246CH, Facility ID 155722.

The proposed change is permitted under the 250-mile filing window.

The translator will serve as a fill-in for AM station KIKO, Facility ID 72477.

The proposed facility is within the service contour of second-adjacent station KNIX-FM 273C and third-adjacent station KLNZ 278C.

The proposal's 100dBu interfering contour is contained within the 62dBu contour of KLNZ, so an interfering contour of 102dBu will provide 40dB or more of interference protection. The 102dBu contour is in a remote mountainous region with no roads or buildings other than the communications facility's. See the 102-dBu Interference Exhibit.

KNIX-FM's signal is stronger than KLNZ's at all points within the interference contour. If there is no interference to KLNZ then there will be no interference to KNIX-FM

The proposal will use a SCA CL-FM horizontally polarized antenna (FCC ID# 16150) oriented at 208-degrees.

Changes in the amendment:

Section III-A Engineering Data:

Tech Box Data:

1. Channel:
2. Primary Station
8. Height of Radiation Center:
9. Effective Radiated Power:
10. Transmitting Antenna:

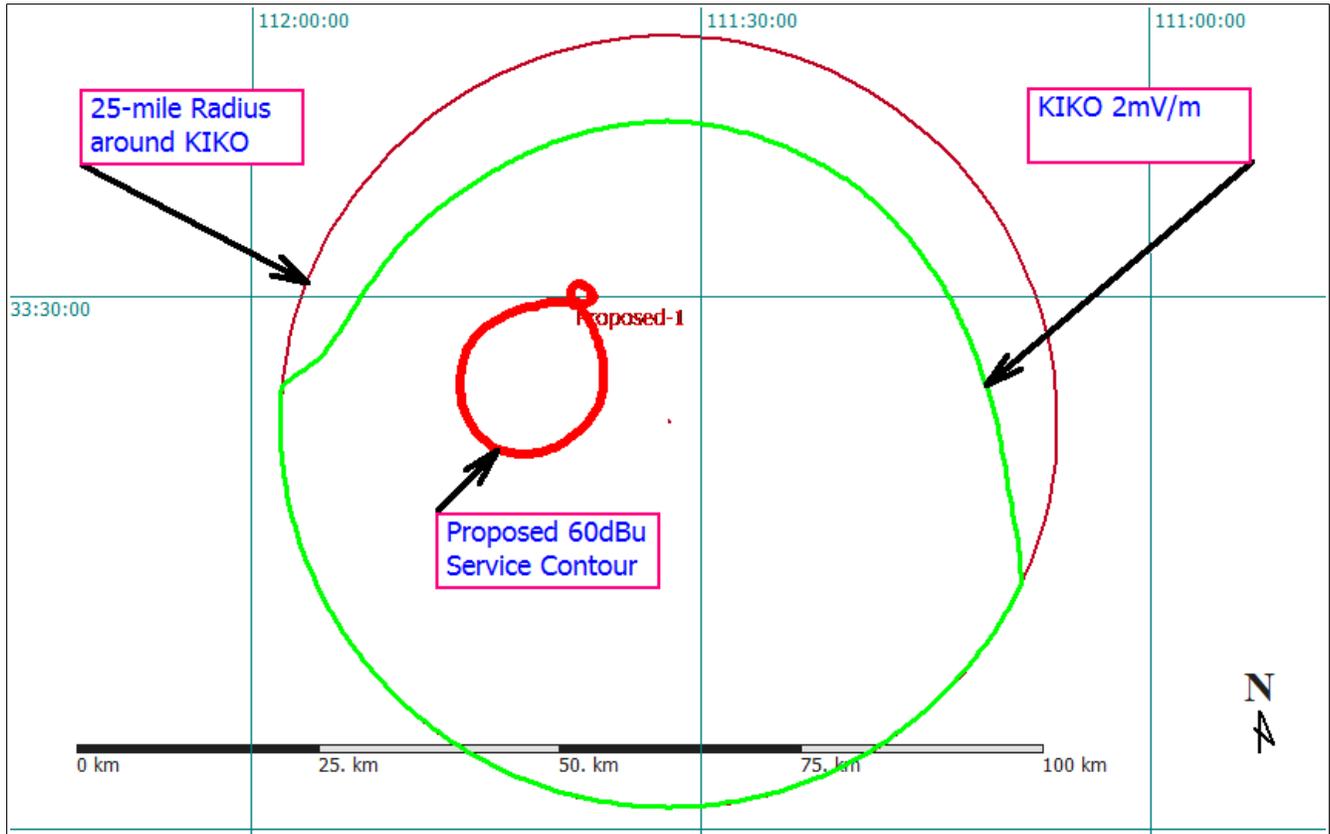
This application was prepared using FCC 30-arc-second terrain data.

Section III-A Engineering Data:

Tech Box Data:

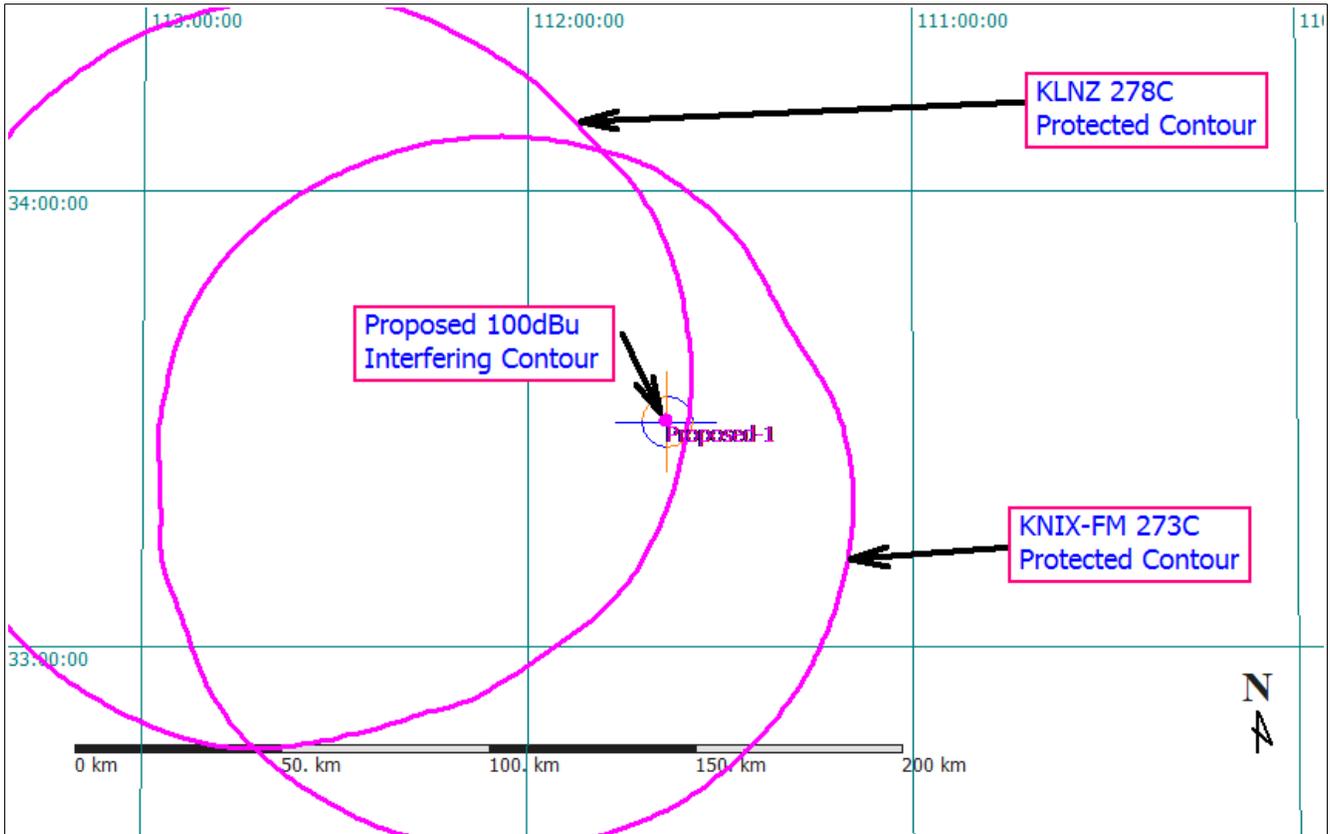
1. Channel: 275
2. Primary Station: Facility ID 72477, Callsign KIKO, Apache Junction, Arizona, 1340kHz
3. Delivery Method: Other
4. Antenna Location Coordinates: 33° 29' 33" N (NAD-27)
111° 38' 23" W
5. Antenna Structure Registration Number: N/A
6. Antenna Location Site Elevation: 762 meters AMSL
7. Overall Tower Height: 46 meters AGL
8. Height of Radiation Center: - 10 meters AGL (H) AGL(V)
9. Effective Radiated Power: - 0.080 kW(H) kW (V)
10. Transmitting Antenna: SCA CL-FM, Antenna ID:16150, FCC Standard Pattern @208-degrees.
11. Booster or Fill-in within protected contour: Yes.
12. Interference: No. Overlap with KNIX-FM 273C and KLNZ 278C.
 - 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. The existing site is located on a remote mountain top. To the best knowledge of the Applicant:
 1. The structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species.
 2. The proposed changes 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 eligible for listing.
 3. 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.
 4. The existing structure does not require markings or lights in accordance with FAA requirements.
 - 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 in that its contribution to the RF environment is less than 5% of the maximum permitted level. 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. See RFR Exhibit.

Fill-In Exhibit



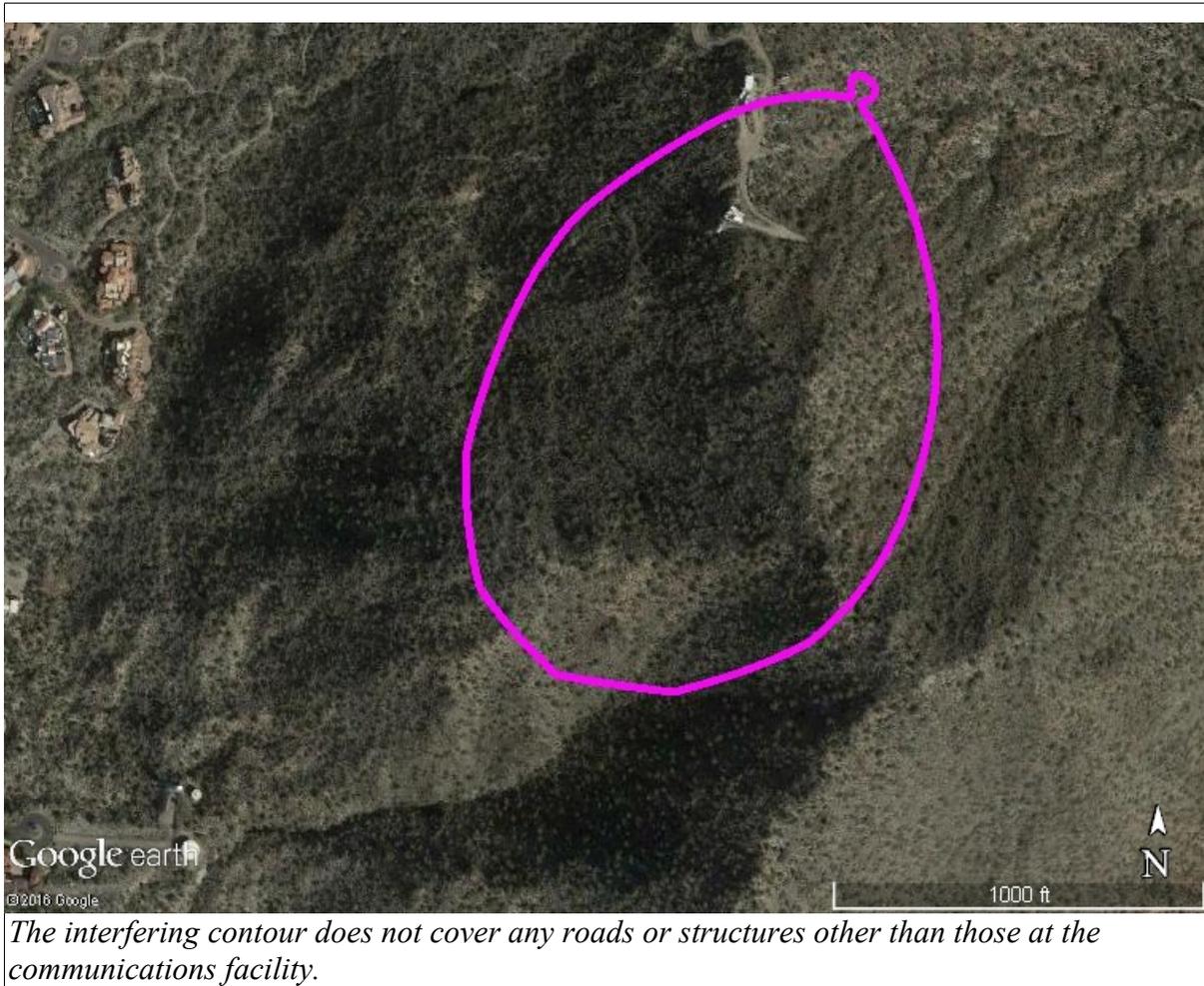
The proposed service contour is contained within the Primary 2mV/m and 25-miles from the AM site.

102 dBu Interference Exhibit

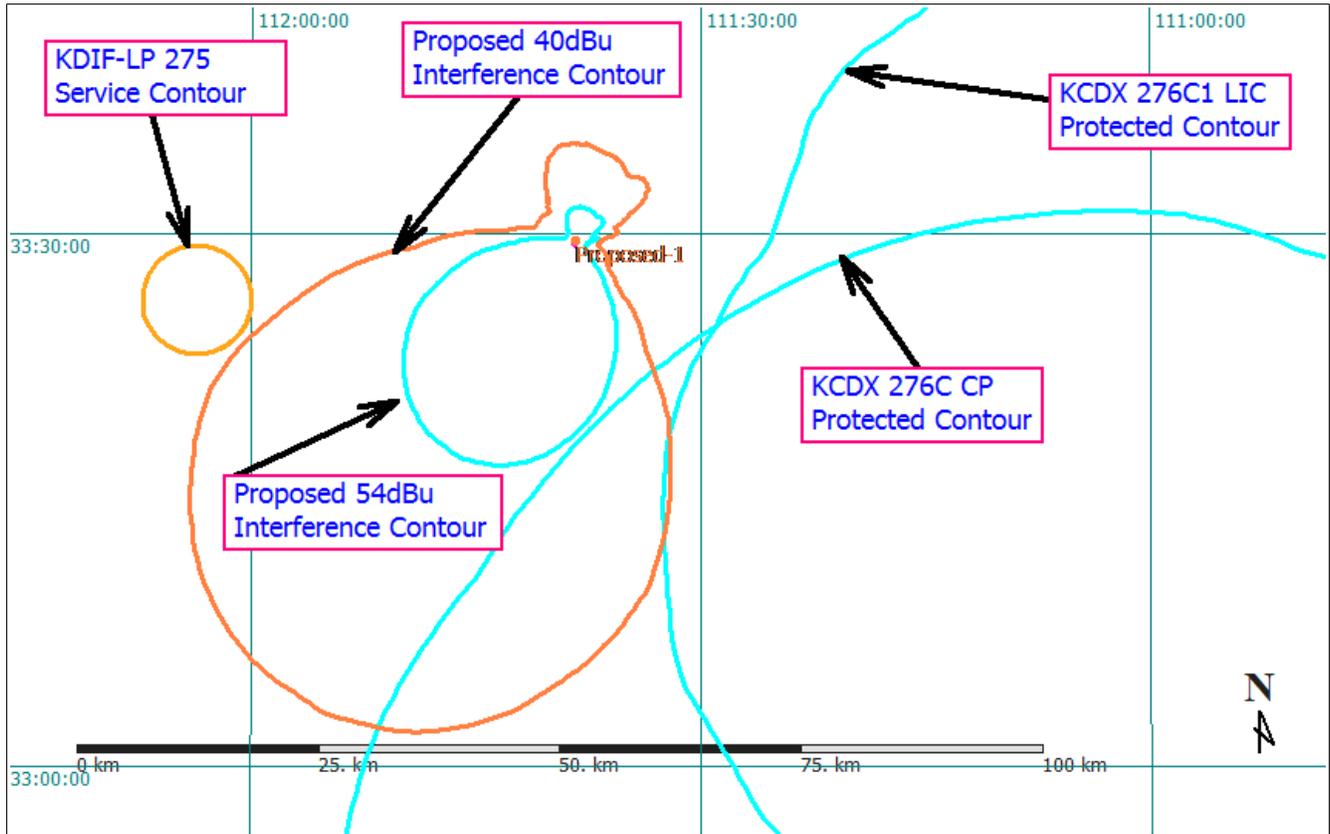


The proposal is inside the protected contours of KLNZ and KNIX-FM.

102 dBu Interference Exhibit



Contours



No prohibited overlap of contours.

RFR Exhibit

Ref Line #			
(1)	Rad Center Height	10.000	Meters AGL
(3)	Building Height	0.000	Meters AGL
(4)	Clearance Height	10.000	Meters AGL
(5)	Head Height	8.000	Meters AGL
(6)	Horizontal ERP	0.080	kW
(7)	Vertical ERP	0.000	kW
(8)	Total Power	0.080	kW
(9)	Power x 33.41	2.673	
(10)	line 5 squared	64.000	
(11)	Line-9 / Line-10	0.042	
(12)	Percent Exposure	4.176	%