

Engineering Statement in support of  
FCC FORM 349  
APPLICATION FOR AUTHORITY TO  
CONSTRUCT OR MAKE CHANGES  
IN AN FM TRANSLATOR  
(For Minor Change to a Licensed Facility)  
Facility ID 144136

**Introduction:**

This is an application by Rocket Radio Corporation (the Applicant) for a minor change to Facility ID 144136.

The applicant proposes the following changes:

- Decrease antenna height from 34-meters AGL to 8-meters AGL.
- Change the primary station.

The proposed change is minor since only the antenna height is to be changed.

The justification for the existing 2nd & 3rd adjacent overlap waiver remains since the reduced antenna height will only increase interference in the immediate vicinity of the tower. Since the site is a remote, mountain-top facility there continues to be no roads, buildings or population to be interfered with.

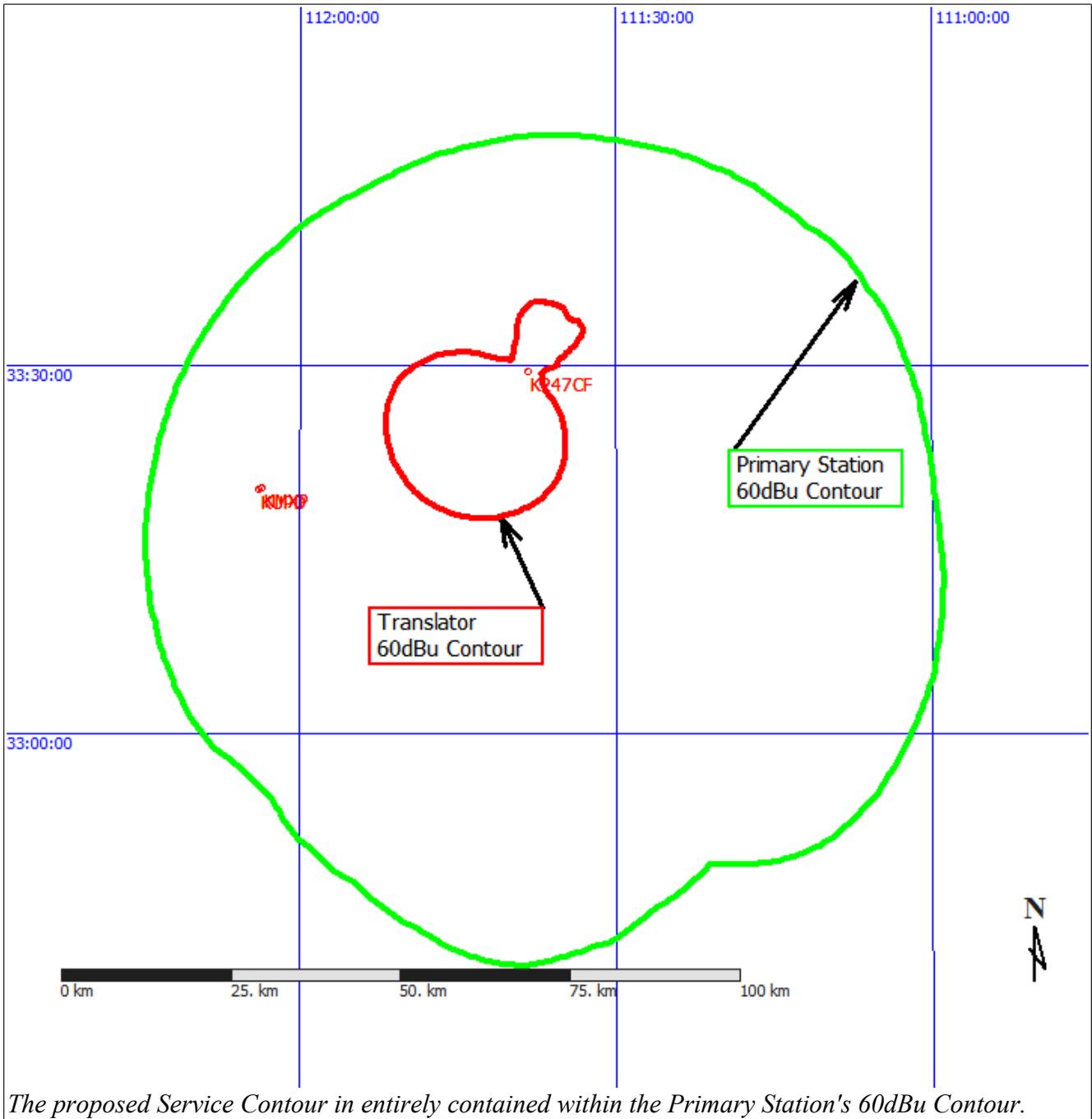
This application was prepared using FCC 30-arc-second terrain data.

### Section III-A Engineering Data:

#### Tech Box Data:

1. Channel: 247
2. Primary Station: Facility ID 54944, Callsign KZON, Gilbert, AZ.
3. Delivery Method: Other
4. Antenna Location Coordinates: 33° 29' 33" N (NAD-27)  
111° 38' 24" W
5. Antenna Structure Registration Number: N/A
6. Antenna Location Site Elevation: 760 meters AMSL
7. Overall Tower Height: 46 meters AGL
8. Height of Radiation Center: 8 meters (H) 8 meters (V) AGL
9. Effective Radiated Power: 0.250 kW (H) 0.250 kW (V)
10. Transmitting Antenna: SCA CA2-CP, Antenna ID:16125, FCC Standard Pattern @215-degrees.
11. Booster or Fill-in within protected contour: Yes.
12. Interference: No. Overlap with KUPD 250C and KMPX 245C.
  - 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 based on calculations using RF Worksheet #1.

# Fill In Contour



## RFR Exhibit

### RF Worksheet #1 - FM

#### Contribution by Proposal

Ref Line #			
(1)	Rad Center Height	8.000	Meters AGL
(3)	Building Height	0.000	Meters AGL
(4)	Clearance Height	8.000	Meters AGL
(5)	Head Height	6.000	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	36.000	
(11)	Line-9 / Line-10	0.464	
(12)	Percent Exposure	46.403	%