

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)
250-mile window application
Facility ID 155722

Introduction:

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

The proposed change is permitted under the 250-mile filing window. The translator will be moved a distance of 53-miles.

The translator will serve as a fill-in for AM station KBSZ, Facility ID 11217.

The proposed facility is within the service contour of third-adjacent station KOOL-FM 233C.

The proposal's 100dBu interfering contour is contained within the 76dBu contour of KOOL-FM, so an interfering contour of 116dBu will provide 40dB or more of interference protection. The distance to the 116dBu contour in the main lobe of the directional antenna is 75-meters. Since the site is at a remote, mountain-top, communications facility there is nothing to be interfered with within the contour. See the 116-dBu Interference Exhibit.

The proposal will use a Scala CA-2V vertically polarized antenna (FCC ID# 16130) oriented at 222-degrees.

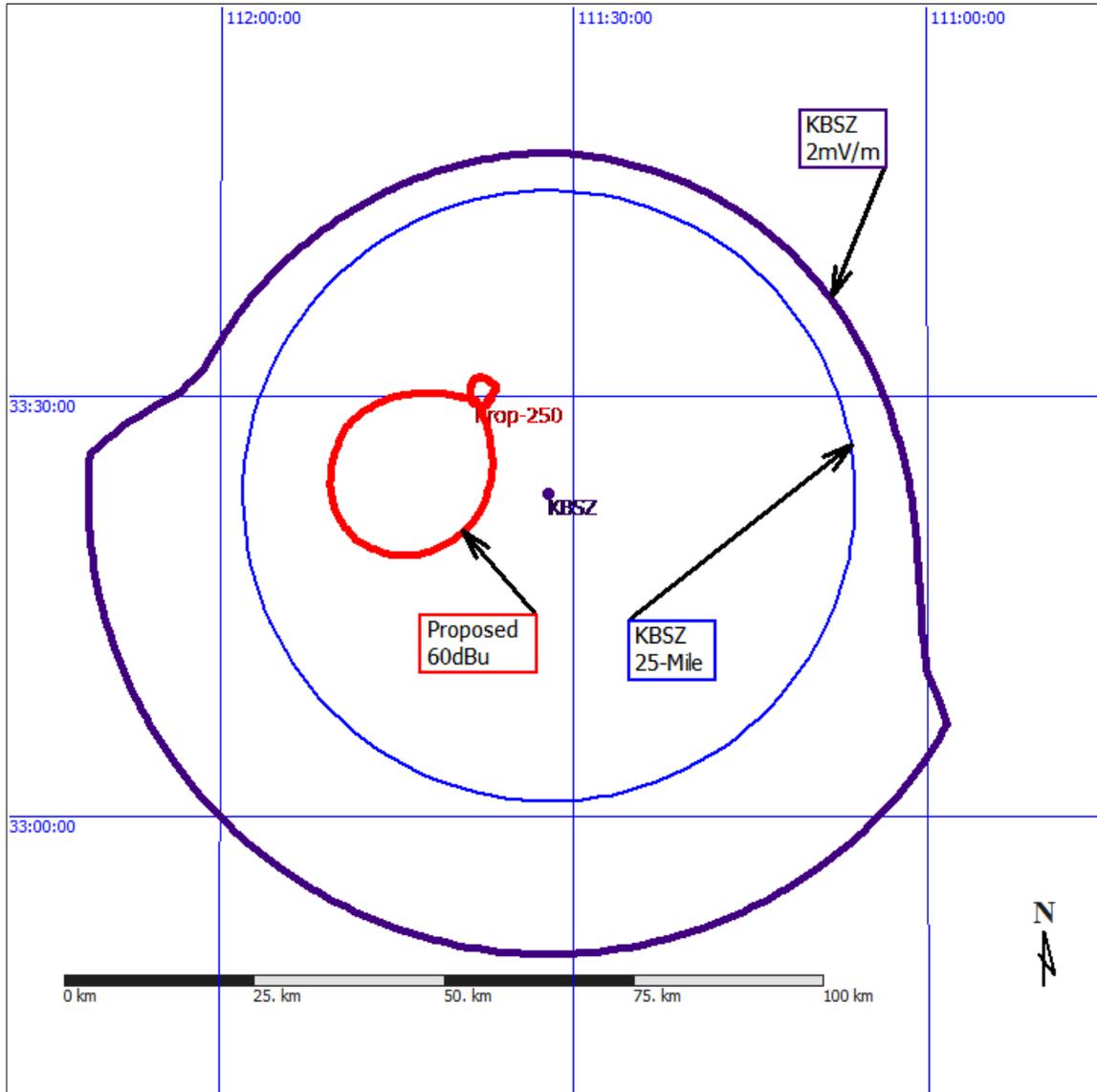
This application was prepared using FCC 30-arc-second terrain data.

Section III-A Engineering Data:

Tech Box Data:

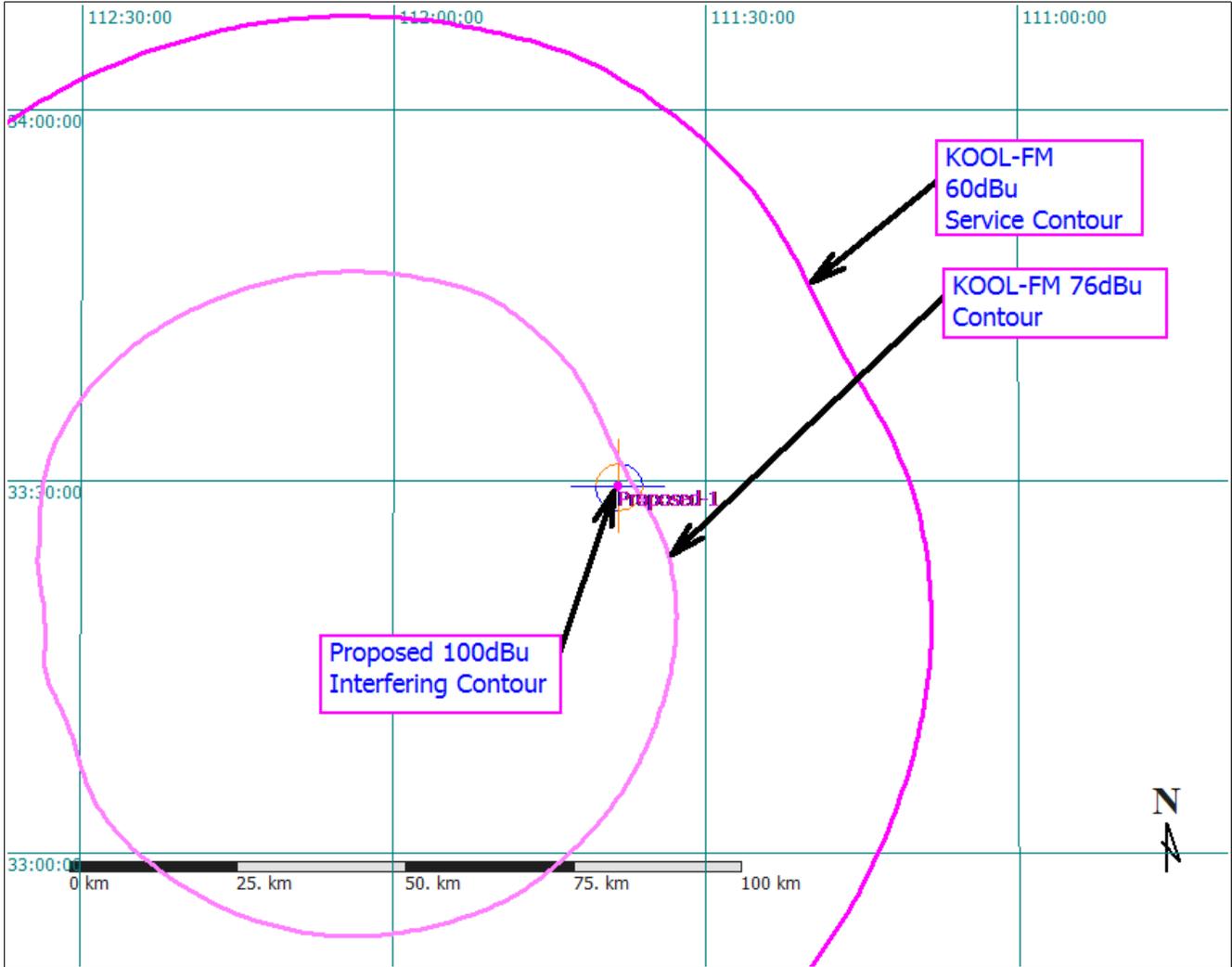
1. Channel: 230
2. Primary Station: Facility ID 11217, Callsign KBSZ, Apache Junction, Arizona, 1260kHz
3. Delivery Method: Other
4. Antenna Location Coordinates: 33° 29' 33" N (NAD-27)
111° 38' 23" W
5. Antenna Structure Registration Number: N/A
6. Antenna Location Site Elevation: 762 meters AMSL
7. Overall Tower Height: 46 meters AGL
8. Height of Radiation Center: - (H) 15 meters (V) AGL
9. Effective Radiated Power: - (H) 0.045 kW (V)
10. Transmitting Antenna: SCA CA-2V, Antenna ID:16130, FCC Standard Pattern @222-degrees.
11. Booster or Fill-in within protected contour: Yes.
12. Interference: No. Overlap with KOOL-FM 233C
 - 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 1% 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.

116 dBu Interference Exhibit

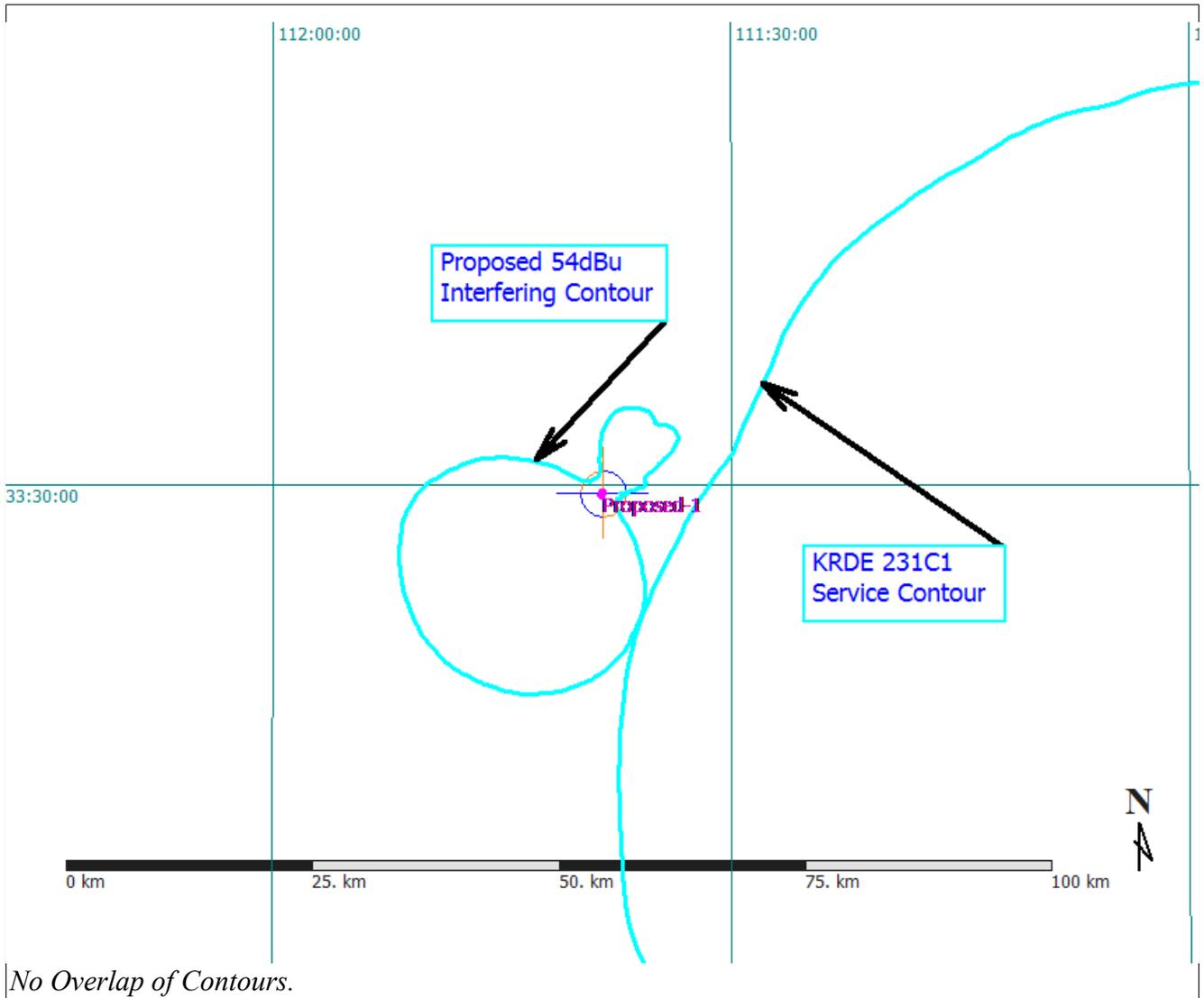


The interfering contour is contained within KOOL-FM's 76dBu contour.

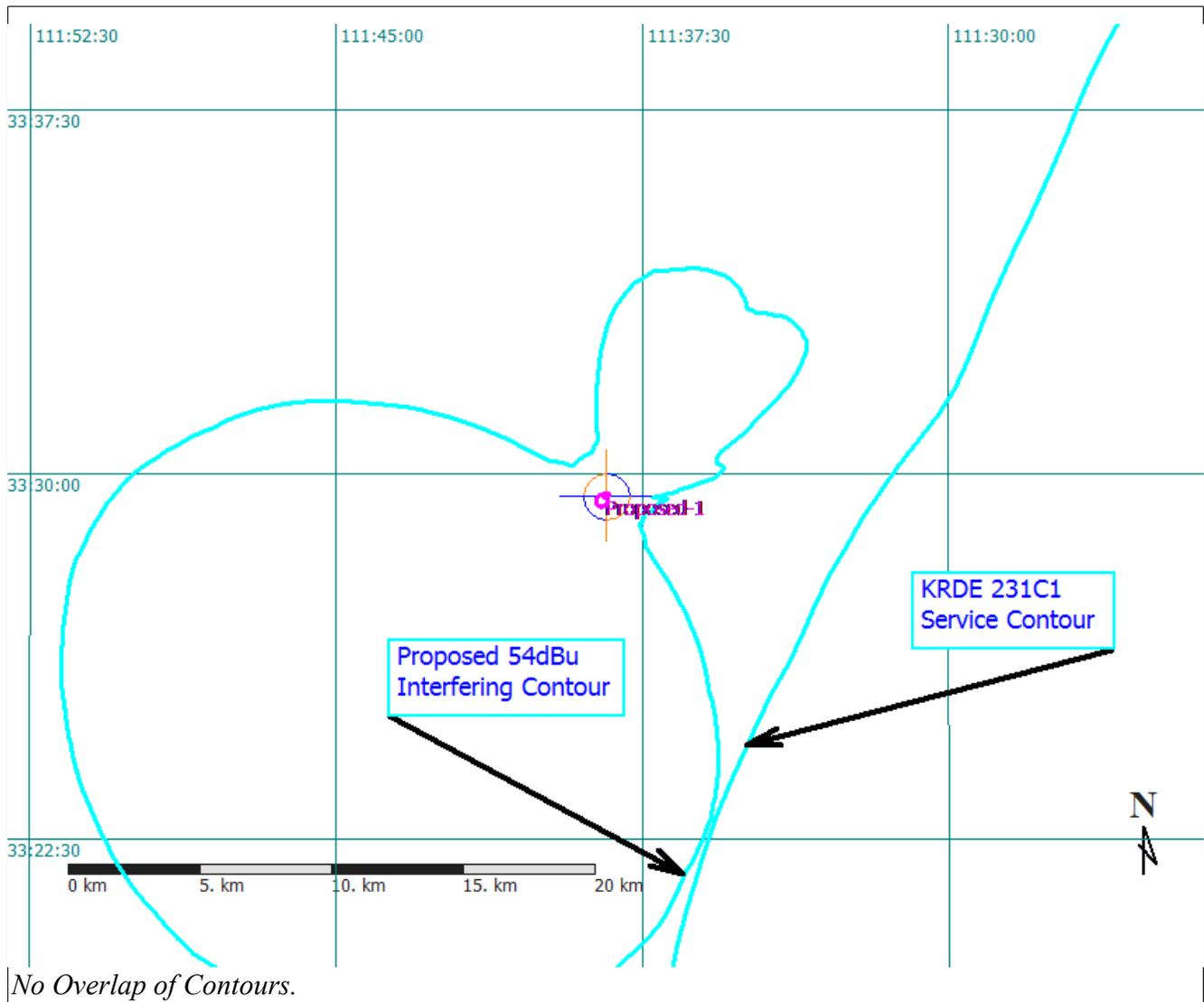
116 dBu Interference Exhibit



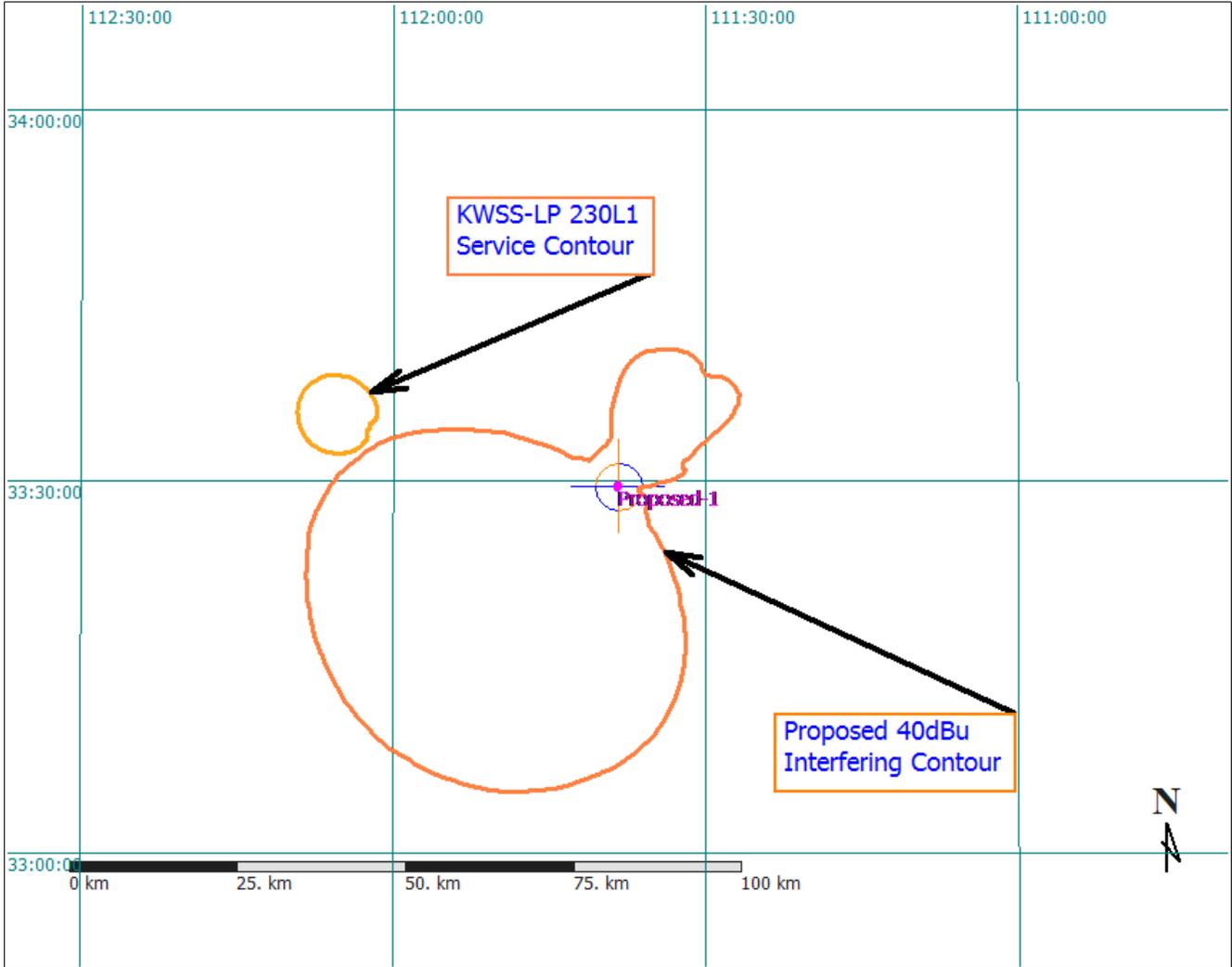
First Adjacent Contours



First Adjacent Contours Closeup



Co Channel Contours



No Overlap of Contours.

RFR Exhibit

Ref Line #			
(1)	Rad Center Height	15.000	Meters AGL
(3)	Building Height	0.000	Meters AGL
(4)	Clearance Height	15.000	Meters AGL
(5)	Head Height	13.000	Meters AGL
(6)	Horizontal ERP	0.000	kW
(7)	Vertical ERP	0.045	kW
(8)	Total Power	0.045	kW
(9)	Power x 33.41	1.503	
(10)	line 5 squared	169.000	
(11)	Line-9 / Line-10	0.009	
(12)	Percent Exposure	0.890	%