

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 33804

Introduction:

This is an application by Rocket Radio Corporation (the Applicant) for a minor change to Facility ID 33804.

The proposed change is minor since the new service contour overlaps the authorized service contour and there is no change in frequency.

The proposed facility is within the service contour of third-adjacent station KYOT-FM 238C, Facility ID 18648.

The proposal's 100dBu interfering contour is contained within the 131dBu contour of KYOT-FM, so an interfering contour of 171dBu will provide 40dB or more of interference protection. Since the distance to the 171dBu contour for the proposed facility is less than one meter no actual interference is possible.

The proposal will use a Scala CL-FMVR vertically polarized antenna (FCC ID# 16157). The elevation radiation pattern of the antenna was used to calculate RF exposure levels.

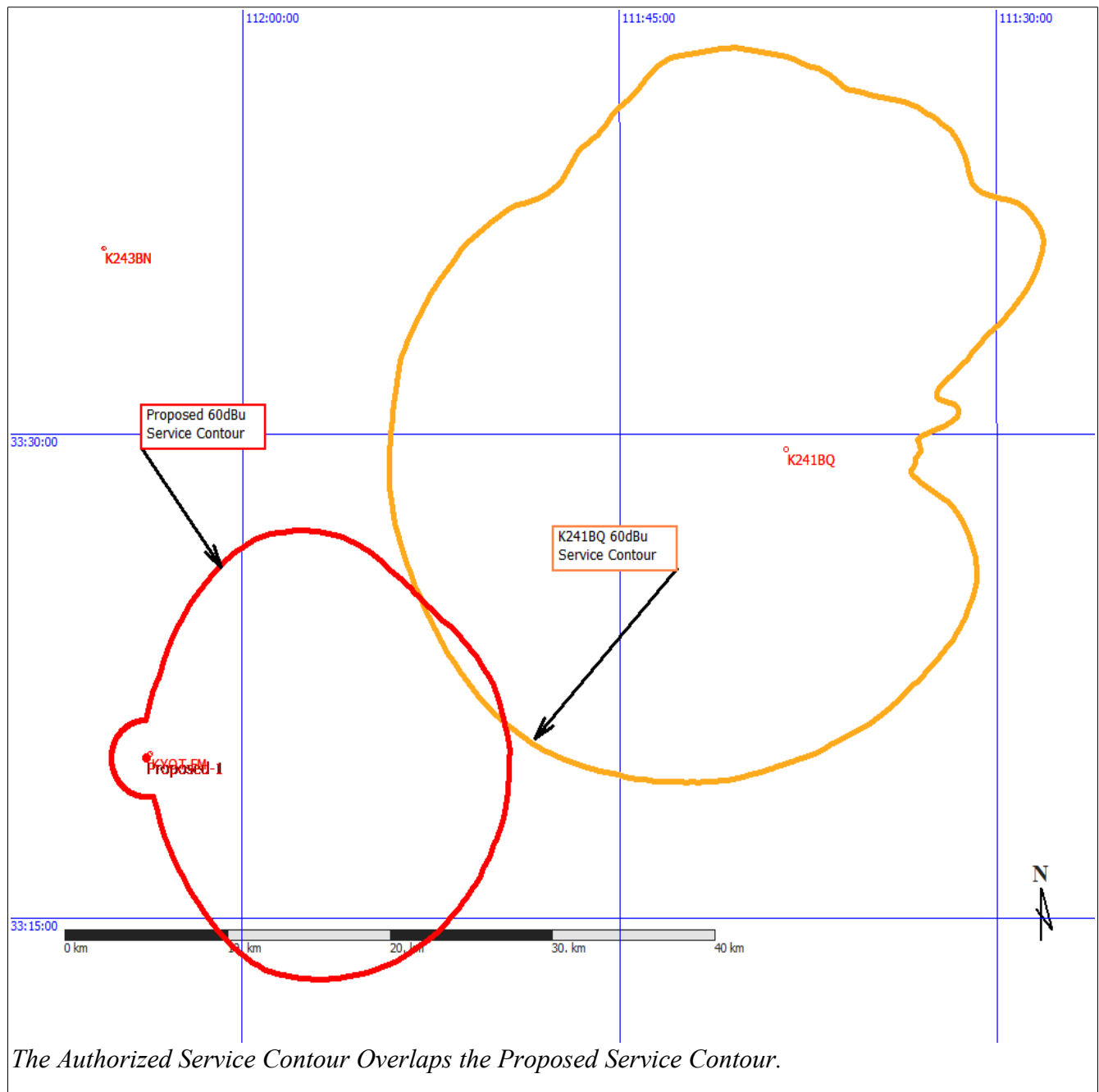
This application was prepared using FCC 30-arc-second terrain data.

Section III-A Engineering Data:

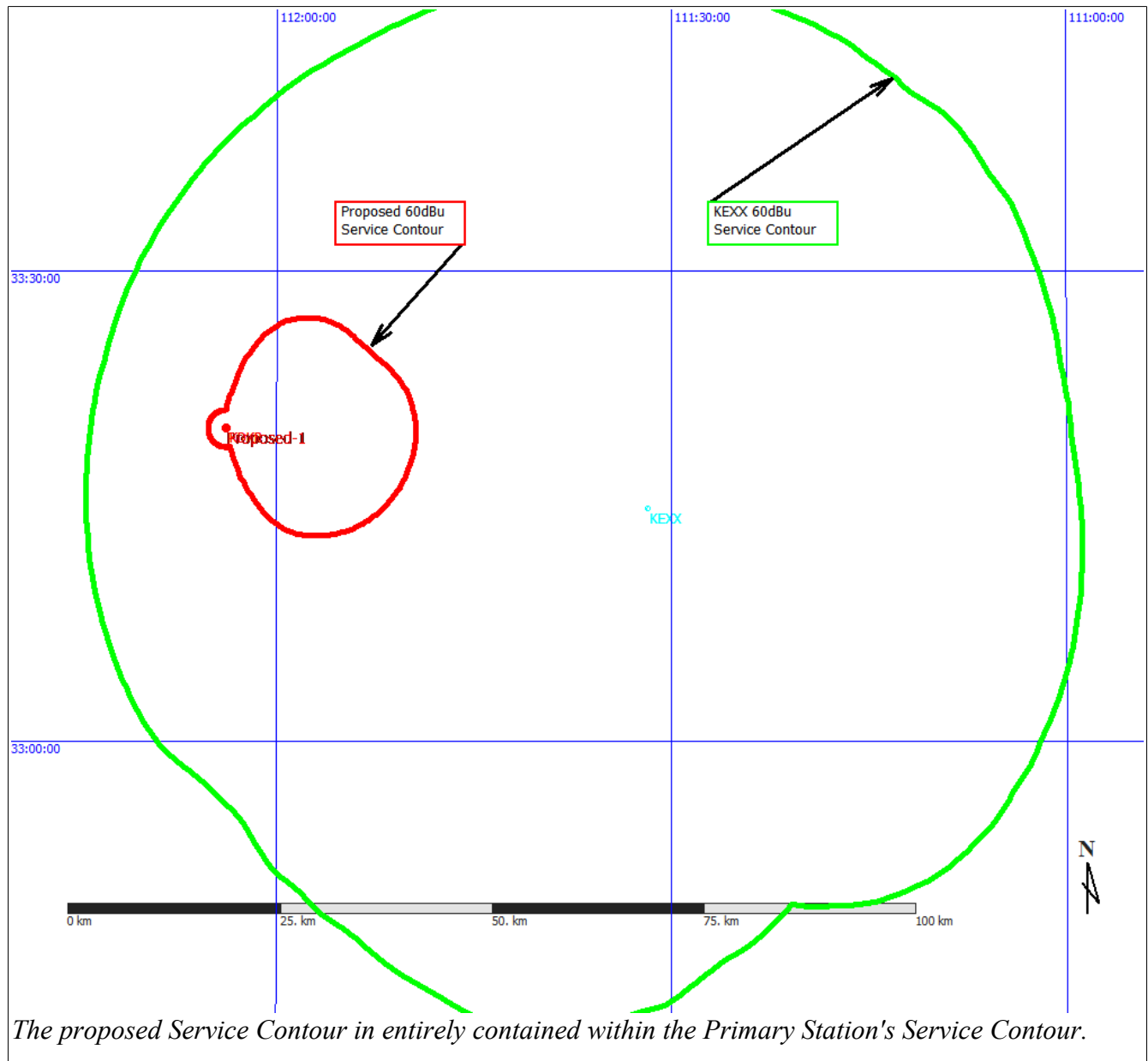
Tech Box Data:

1. Channel: 241
2. Primary Station: Facility ID 54944, Callsign KEXX, Gilbert, Arizona, 280C1
3. Delivery Method: Other
4. Antenna Location Coordinates: 33° 19' 57" N (NAD-27)
112° 03' 48" W
5. Antenna Structure Registration Number: N/A
6. Antenna Location Site Elevation: 797 meters AMSL
7. Overall Tower Height: 42.6 meters AGL
8. Height of Radiation Center: - (H) 22 meters (V) AGL
9. Effective Radiated Power: - (H) 0.12 kW (V)
10. Transmitting Antenna: SCA CL-FMVR, Antenna ID:16157, FCC Standard Pattern @89-degrees.
11. Booster or Fill-in within protected contour: Yes.
12. Interference: No. Overlap with KYOT-FM 238C
 - 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 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.

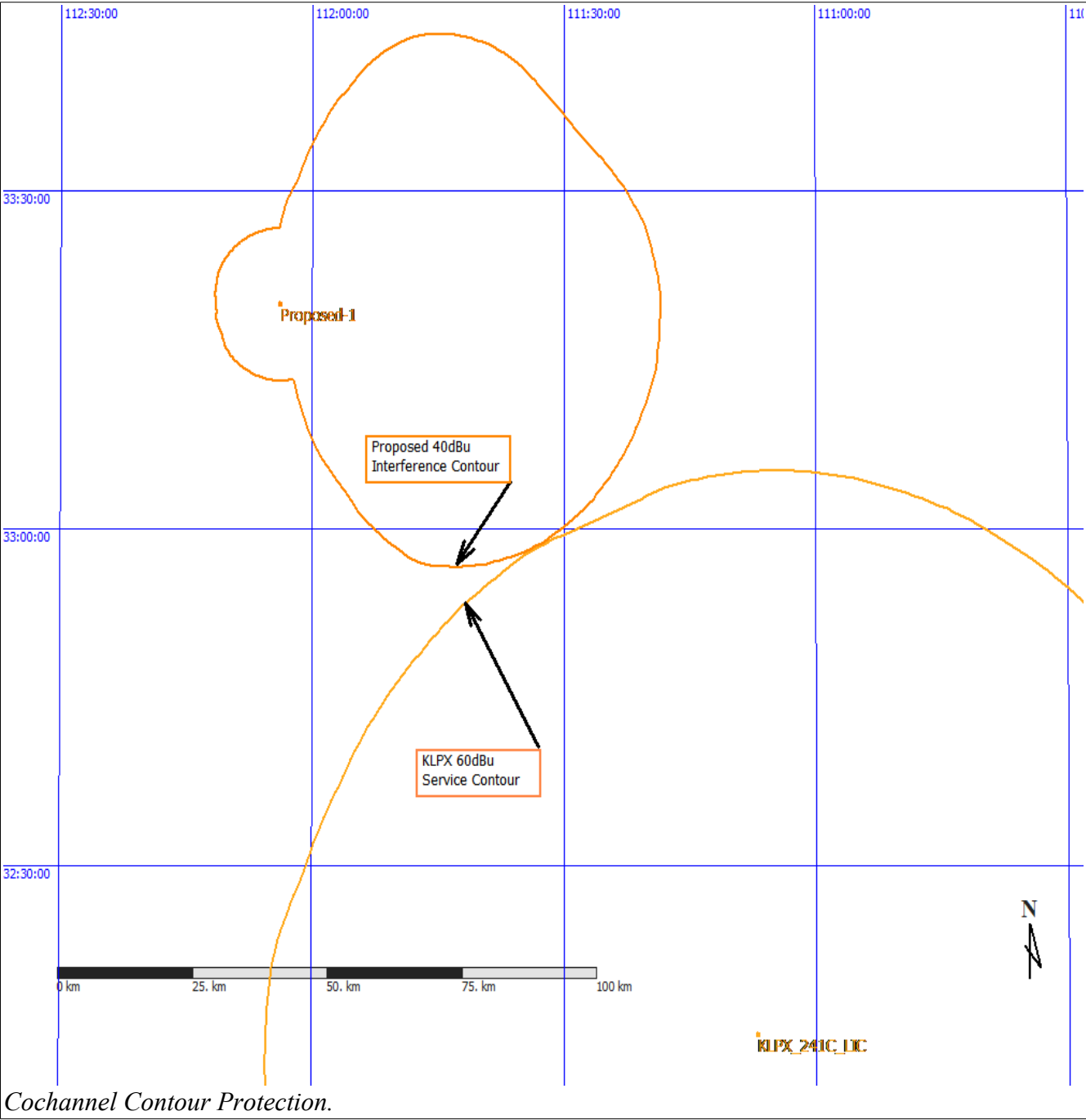
Required Contour Overlap



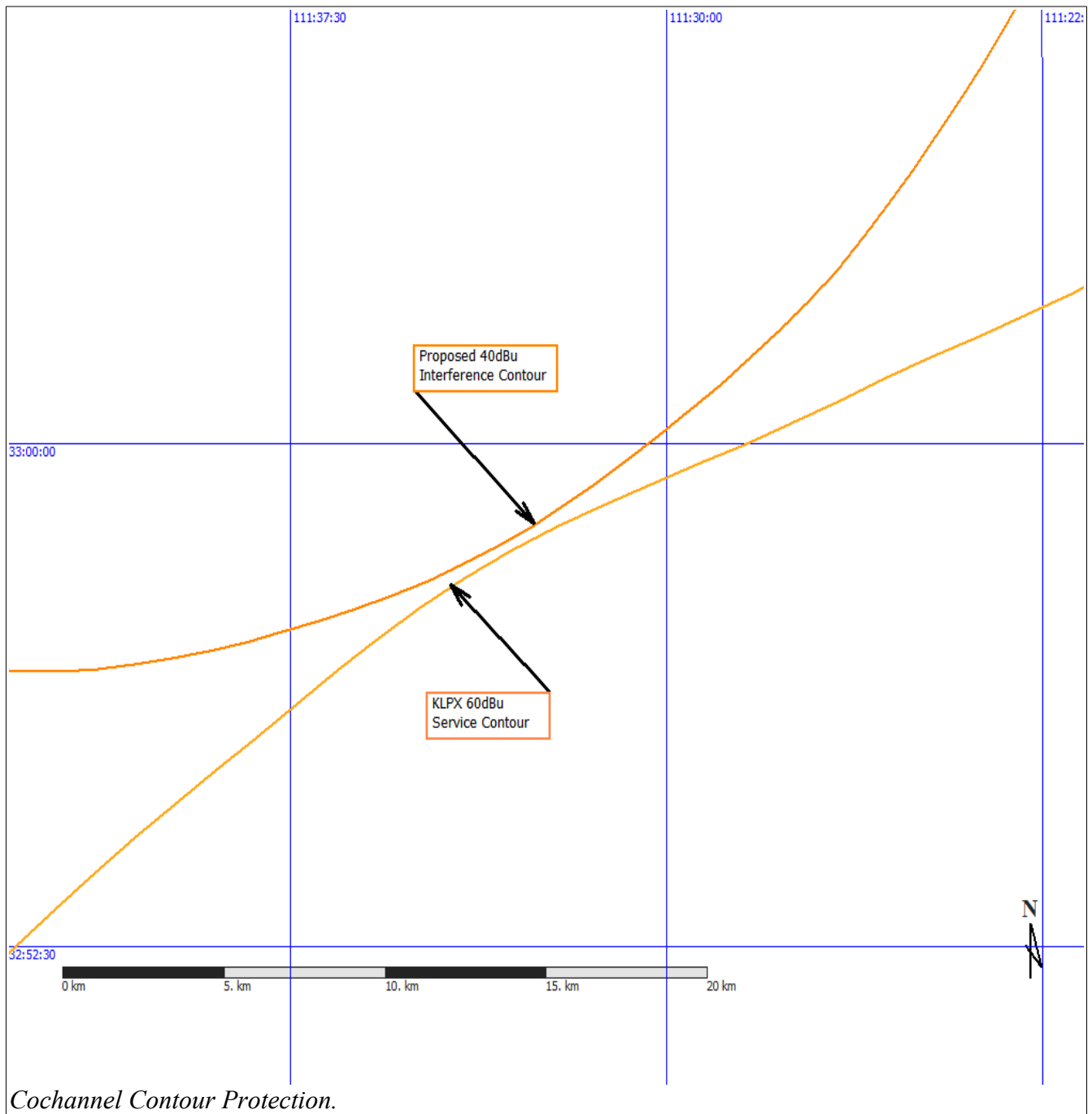
Fill In Contour



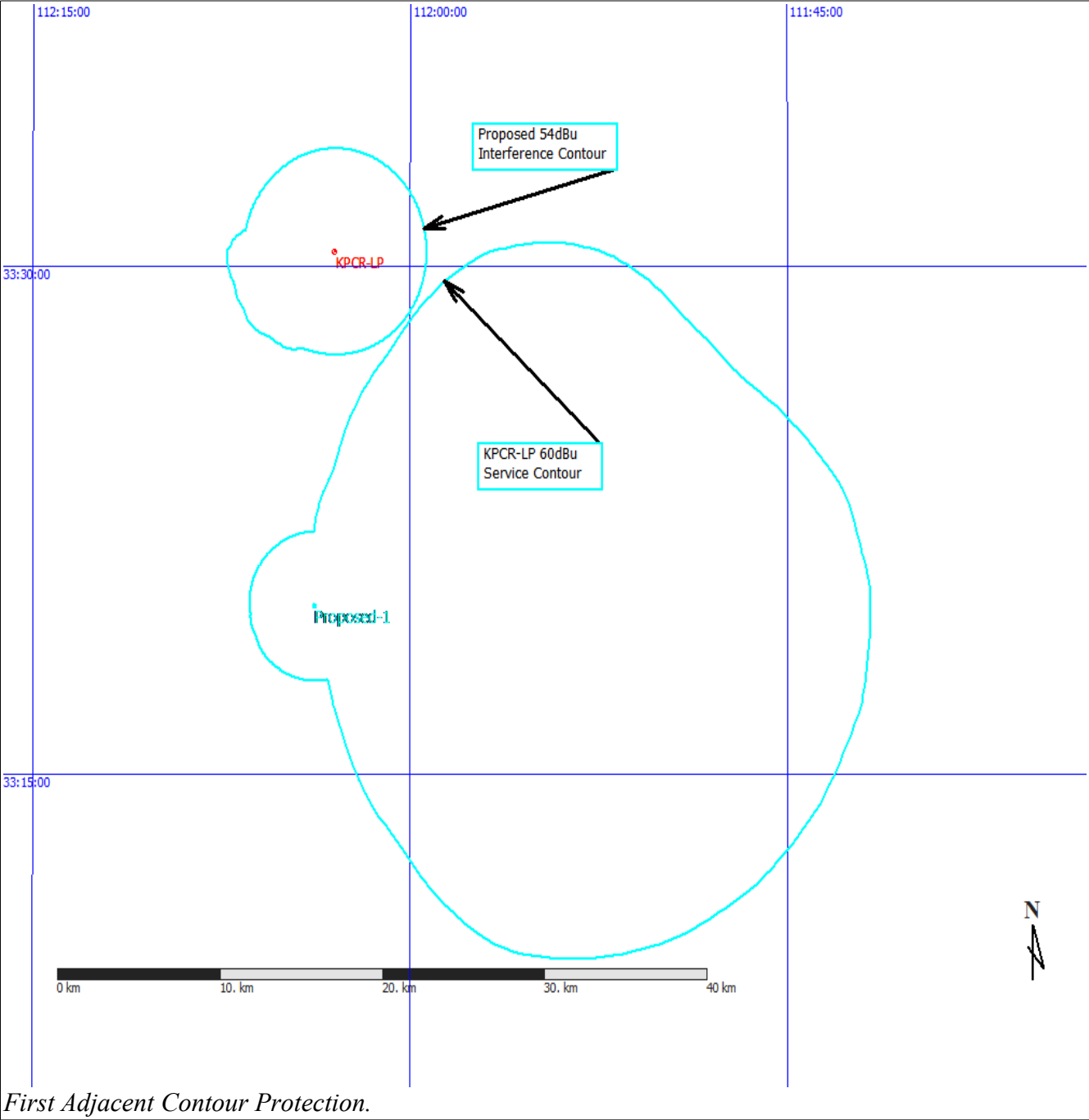
Protected/Interfering Contours



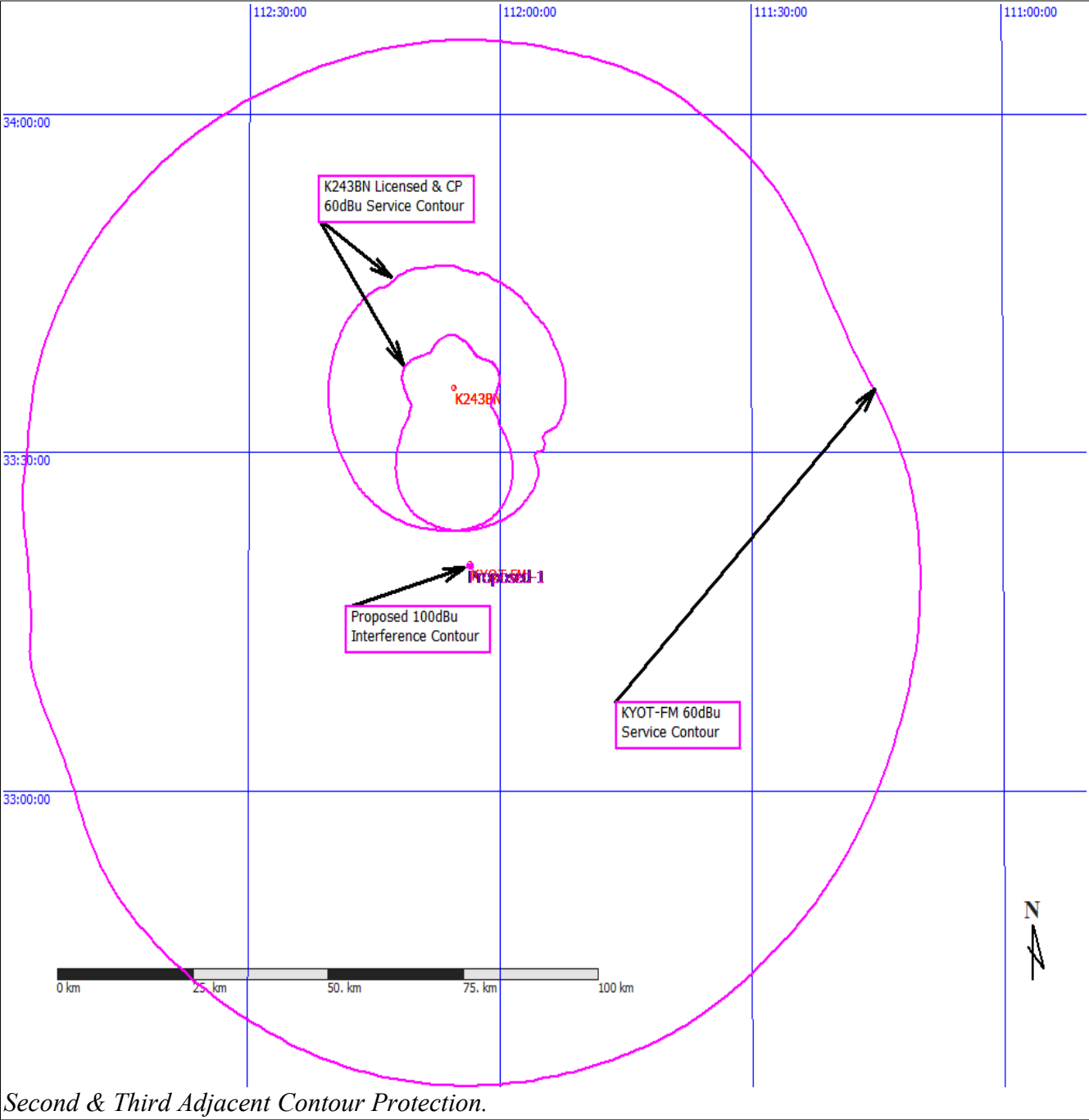
Protected/Interfering Contours Closeup



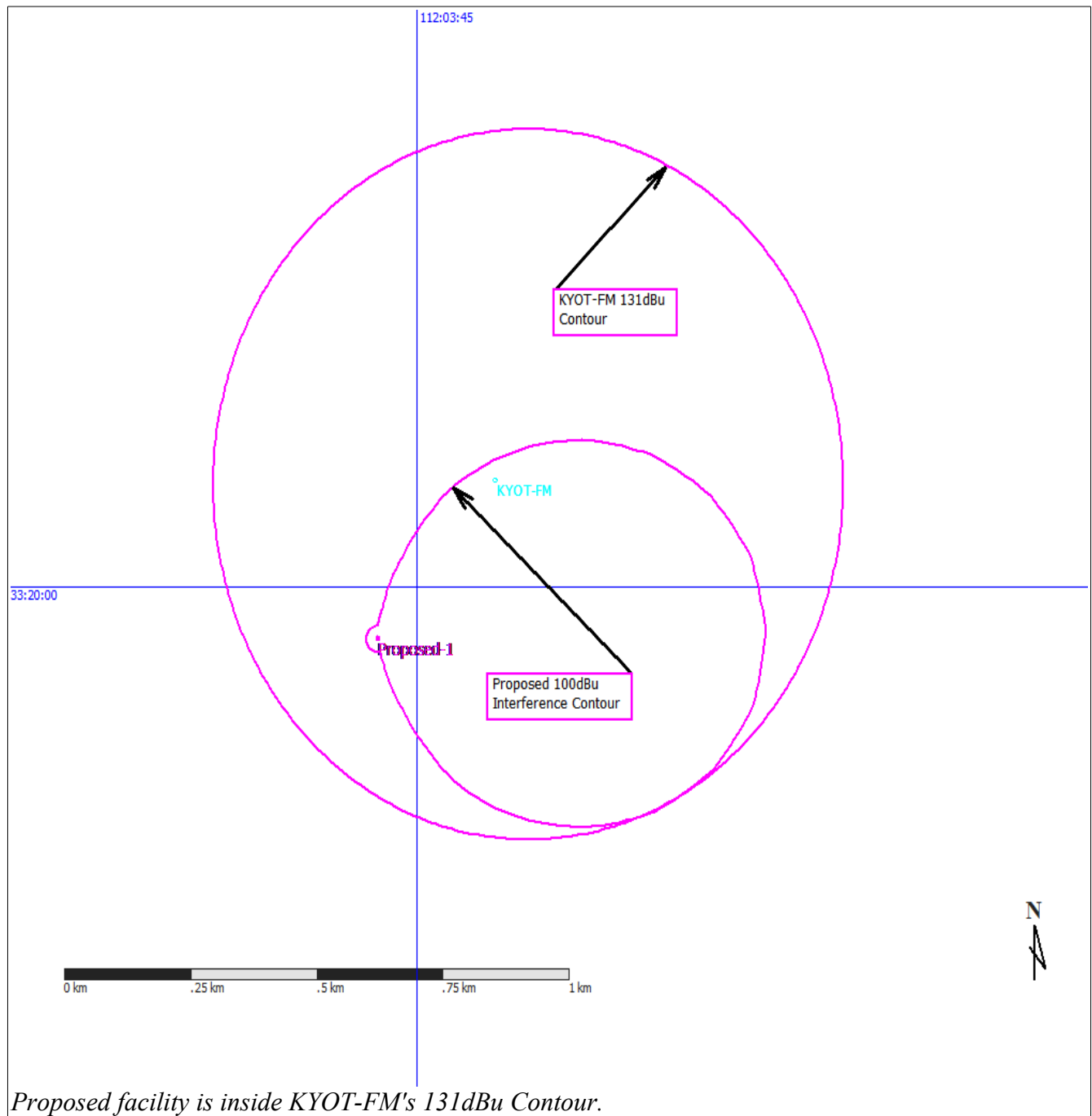
Protected/Interfering Contours



Protected/Interfering Contours



Interference Closeup

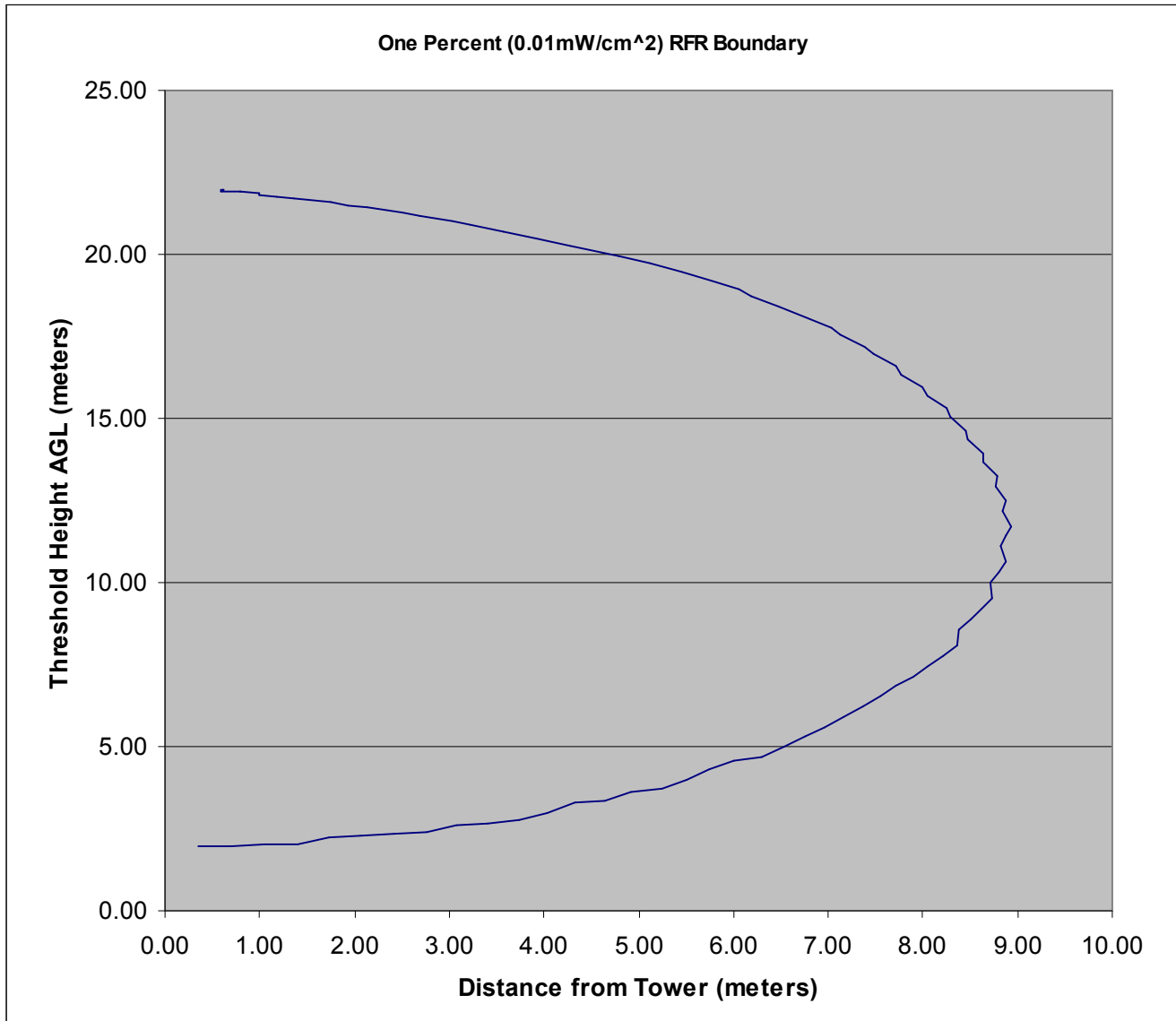


RFR Exhibit

Antenna pattern, Scala CL-FMVR (FCC ID#16157)

Maximum ERP 120 Watts

Antenna height AGL 22-meters.



Maximum RF Exposure level two meters above ground is one percent of the maximum level.