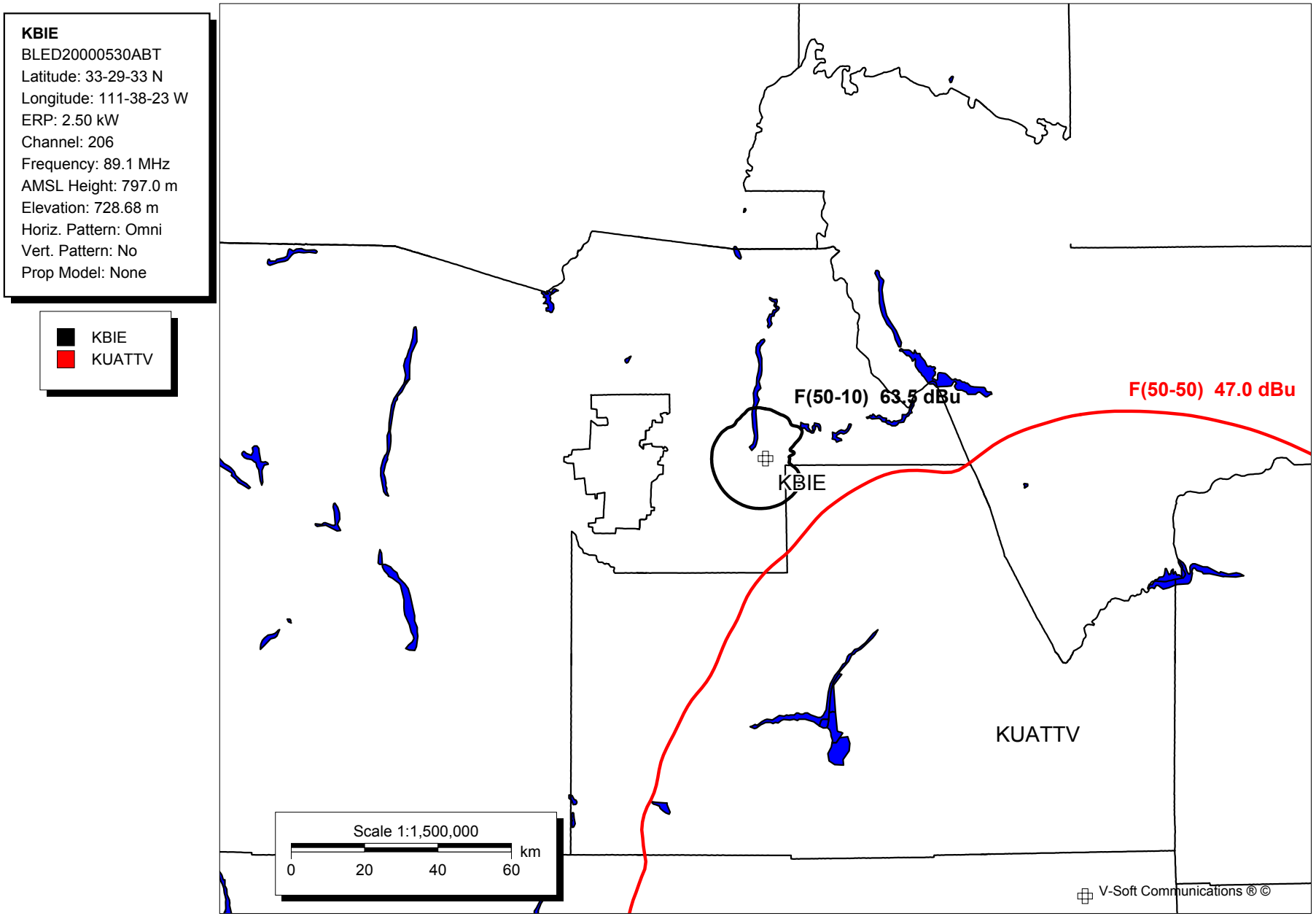
# TV CHANNEL 6 INTERFERENCE STUDY

A study of the Commission's database reveals that the nearest channel 6 television facility located within the minimum distance specified by the Commission is KUAT, Tucson, AZ and therefore must be considered. KUAT operates with 35.5kW at 2652m COR AMSL. Coordinates for KUAT are: **32-24-55 110-42-54 .**

The KRIS contours were plotted on a map and the affected contour was found to be the 47 dBu. The proposed interfering contour was determined by using the table in 47 CFR 73.599 (figure 1).

The population within an area of interference using a maximum of 2.5kW would exceed the Commission's population limits of 3000 persons, therefore the applicant chooses vertical only polarized transmissions. CFR 47 section 73.525(4)(i), states the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(1)(iii) of this section, multiplied by either : 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not. A horizontal ERP of .0625kW (2500/40 = 62.5watts) is used to calculate the area of interference. **No overlap of relevant contours occurs.**

**Pursuant to Section 73.525, applicant proposes an E.R.P. of 2.5kw, the above tabulations indicate that a population of less than 3000 persons are affected by the proposed channel and as such the proposed is in compliance with 47 CFR 73.525 of the Commission's Rules.**


KBIE
BLED20000530ABT
Latitude: 33-29-33 N
Longitude: 111-38-23 W
ERP: 2.50 kW
Channel: 206
Frequency: 89.1 MHz
AMSL Height: 797.0 m
Elevation: 728.68 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None
KBIE
KUATTV
F(50-10) 63.5 dBu
F(50-50) 47.0 dBu
KBIE
KUATTV
Scale 1:1,500,000
km
0
20
40
60
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