73.525 Compliance

There are several considerations outlined in 47 C.F.R. 73.525 for TV Channel 6 protection. Outlined below are the various factors as they apply to the proposed operation and KVIQ-TV.

1)   Distance between proposed operation and KVIQ-TV

47 C.F.R. 73.525(a)(1) requires a minimum separation of 154 kM for a channel 220 operation. The distance between the proposed station and KVIQ-TV is 119.46 kM.

2)   Population Limitation

When a proposed non-commercial station is not co-located with the channel 6 station question, the applicant is required to show that the interference area (as predicted by the procedures outlined in 47 C.F.R. 73.525(e)(1)) contains no more than 3,000 persons.

Per 47 C.F.R. 73.525(e)(4), if an applicant chooses to use mixed polarity, the permissible ERP is determined by the formula: [H + (V/A)] is not greater than P

> Where: H = the horizontally polarized ERP in kilowatts for mixed polarity
> V = the vertically polarized ERP in kilowatts for mixed polarity
> A = 40 (if the predicted interference area lies entirely outside the limits of
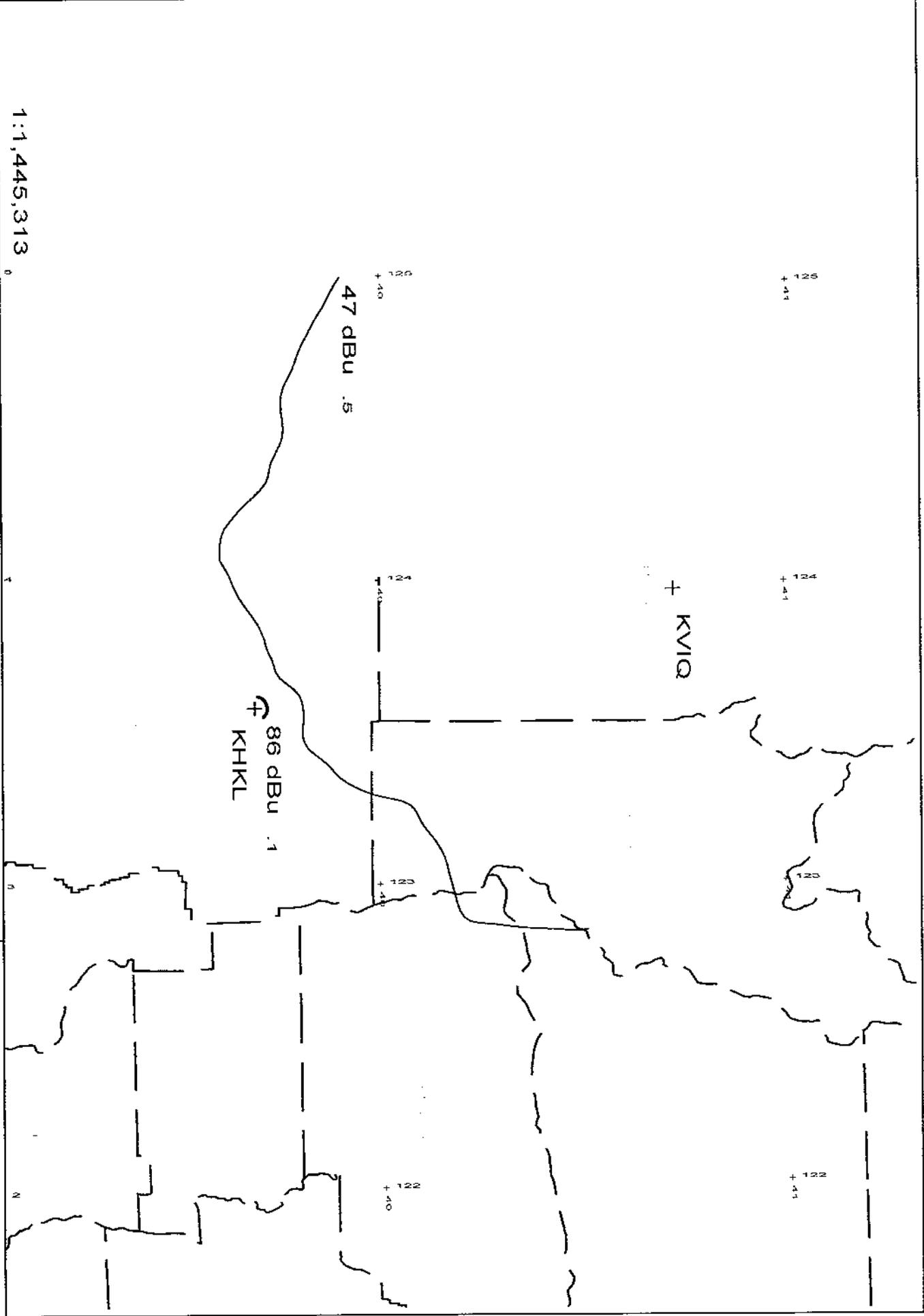>   a city of 50,000 persons or more), or 10 (if it does not)
> P = the maximum permitted horizontally polarized-only power in kilowatts.

Since the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more, the value of 40 was used for A, giving the result:

> [0.11 + (0.11/40)] = 0.11275 kilowatts

All population limits were calculated using the maximum permitted horizontally polarized-only power of 0.11275 kilowatts. The interfering contour of the proposed operation does not cross the Grade B contour of KVIQ-TV (see Exhibit 18-B), therefore there is no interference area.

For the reasons outlined above, the proposed operation fully complies with the provisions of 47 C.F.R. 73.525.

Scale in km

1:1,445,313

0 10 20 30 40 50 60 70 80 90

KVIQ	06-2C	100kW 920M AMSL	Exhibit 18-C
KHKL	230B1	.11275kW 1275M AMSL	EMF - 12/03

47 dBu .5

86 dBu .1
+ KHKL

+ KVIQ

+ 125
+ 41

+ 124
+ 41

+ 123

+ 122
+ 41