

Exhibit B-14
KXRK-FM 242C Provo, UT
Principal Community Coverage

The 70 dBu contour from the proposed facility, as calculated using the F(50,50) curves of §73.333, does not encompass the City of Provo. Provo is located 66 kilometers from the proposed transmitter site. The 70 dBu contour, based on the FCC's standard prediction method, extends approximately 63 kilometers towards Provo. However, it is believed that a supplemental showing using alternative contour prediction methodology is justified in this instance in accordance with §73.313(e).

Indeed, KXRK is already authorized in construction permit BPH-199907221A for Class C operation at this same transmitter site, based on the use of alternative contour prediction methodology. The instant application proposes only a minor height and power adjustment to the facility specified in BPH-199907221A. **Therefore, there will be essentially no difference between the coverage of Provo from KXRK construction permit BPH-199907221A when compared with the coverage from the KXRK facility specified in this application, and a comprehensive 70 dBu service analysis is not believed necessary.** Nevertheless, justification for and application of alternative contour prediction methodology is included below for the sake of completeness.

The transmitter site is located on Farnsworth Peak, a greatly elevated site overlooking the entire Salt Lake City metropolitan area. While the height above average terrain for the 3 to 16 kilometer portion of the radial in the direction of Provo (136E True) is 927 meters, the

height above average terrain for the 16 to 66 kilometer portion of the radial is 1389 meters, a difference of 462 meters or 50%. The terrain lying 16 to 66 kilometers from the proposed site is much lower than the terrain lying within the 3 to 16 kilometer portion of the radial, and an alternative prediction method to locate the 70 dBu contour is therefore justified.

The City of Provo will receive 70 dBu service from the proposed facility. Calculations were made using the 3-arc second terrain database, in conjunction with the height and ERP specified herein.

Free Space Propagation

The proposed KXRK facility is line-of-sight to Provo. The attached terrain profile plot depicts these line-of-sight conditions. A sample calculation has been made on this radial to verify the presence of 70 dBu service, using the free space signal formula:

$$106.9 + \text{power in dBk} - 20\log(\text{distance in km to point of interest})$$

For 13.98 dBk over a 66 km path, the result of this calculation is:

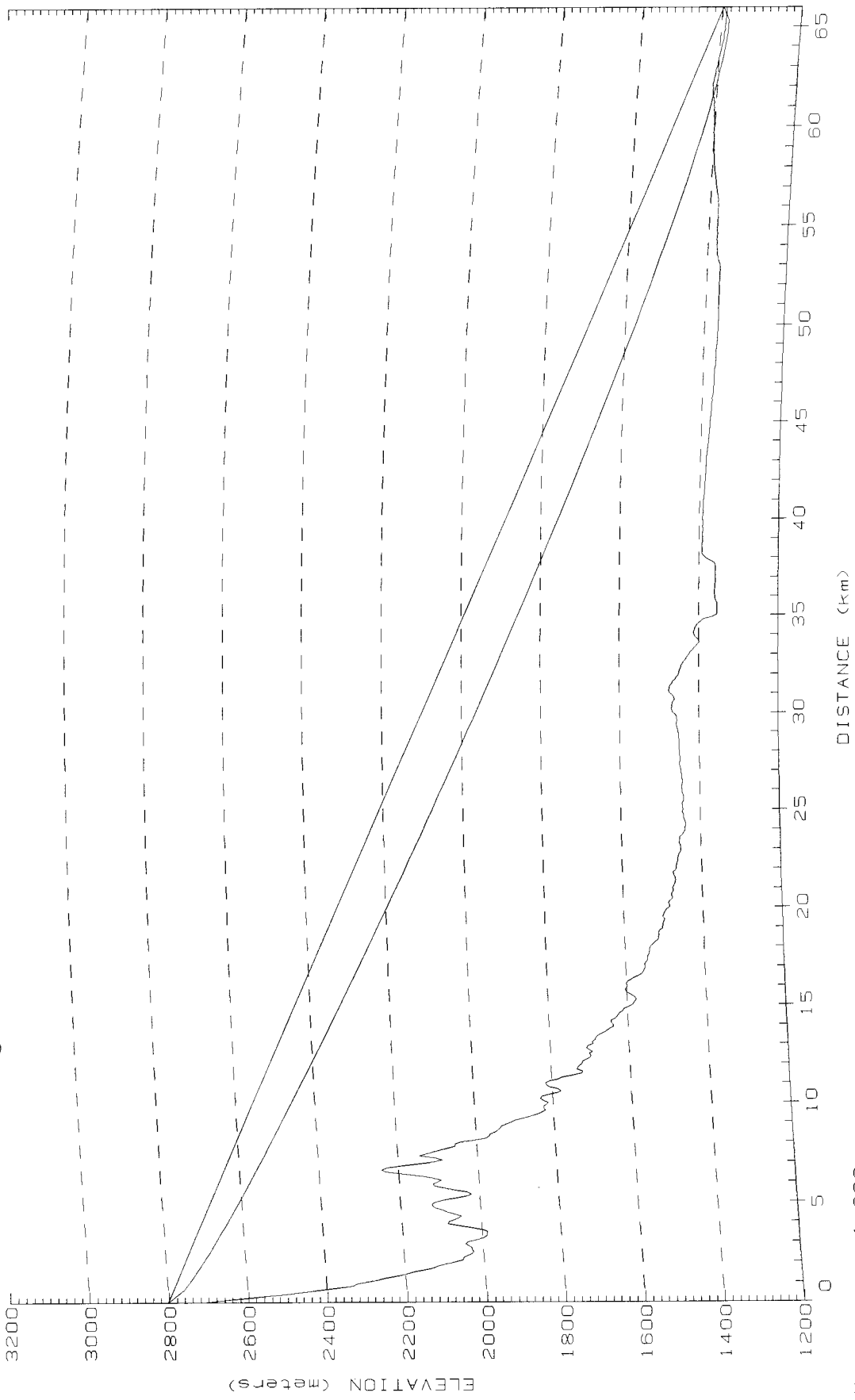
Radial	Free Space Field	Minus Diffraction Loss	Yields
136E	84.5 dBu	1.1 dB	83.4 dBu

Allowing for a local clutter loss of 5 dB, the resulting free space field is in excess of 70 dBu at Provo.

Site: KXRK AT FARNSWORTH
 N 40 39 34 W 112 12 5
 Ant. Elev. (AMSL): 2803.0 m
 Path azimuth: 135.63 degs.

Frequency: 96.3 MHz
 Path Length: 66.0 km
 Total Path Loss: 109.7 dB
 Excess Path Loss: 1.1 dB

Site: PROVO
 N 40 14 2 W 111 39 28
 Ant. Elev. (AMSL): 1397.8 m
 Path azimuth: 315.99 degs.



K factor: 1.333
 Fresnel Zone: .60
 3 Second Database - NAD 27
 Rain loss: .0 dB
 Urban loss: .0 dB
 Foliage loss: .0 dB

Hatfield & Dawson
 Consulting Engineers

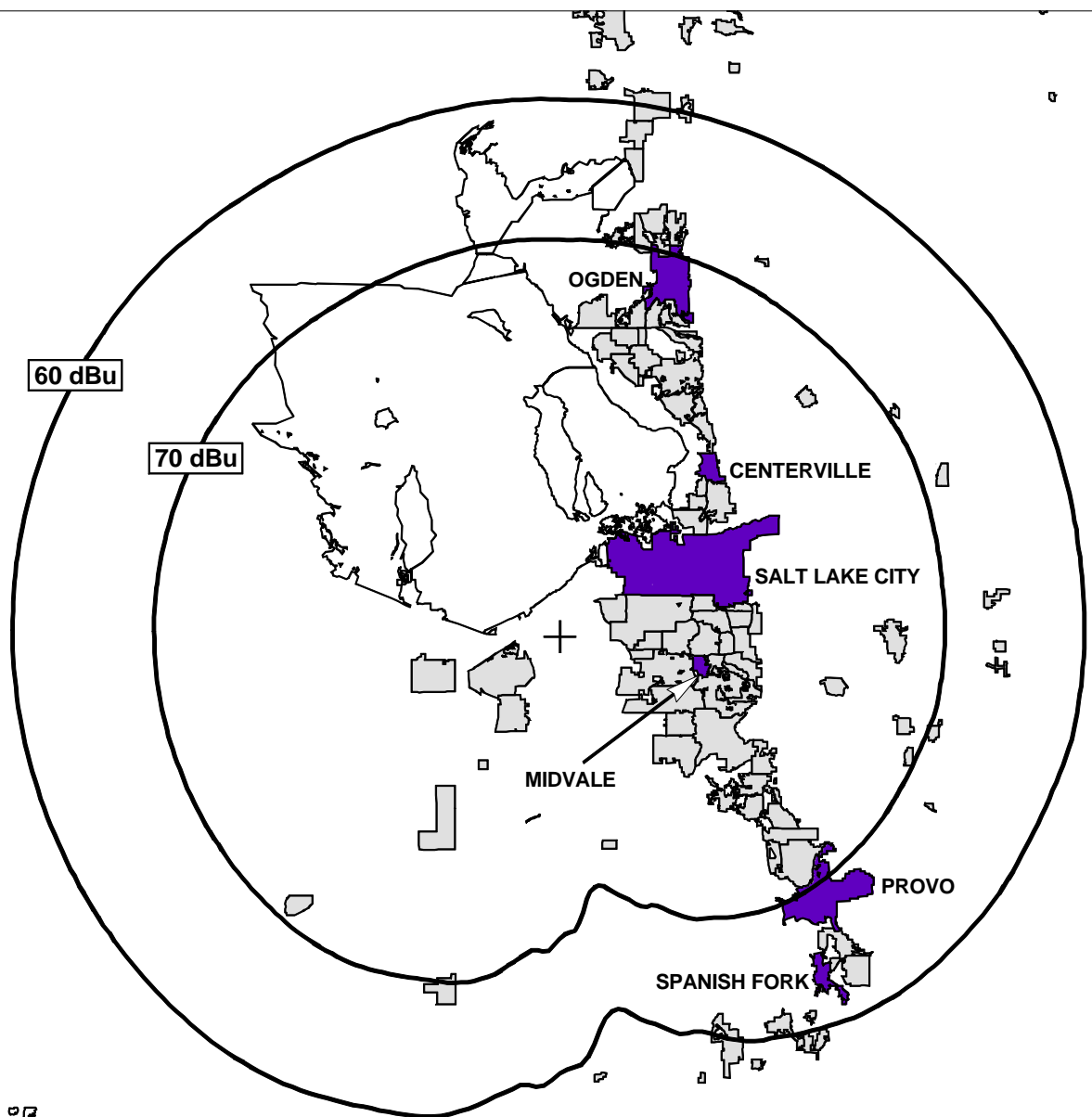


Exhibit B-14
0 10 20 30
Kilometers
Farnsworth Peak FM Master 1/2002