

Exhibit 13-C
Section 74.1204 Contour Protection
KALV-FM Channel 268C Phoenix, AZ
KNIX-FM Channel 273C Phoenix, AZ

This comprehensive exhibit has been prepared to demonstrate that the proposed modification to FM translator K271CR will not cause prohibited interference to second adjacent full power FM station KALV-FM, Channel 268C, Phoenix, AZ and third adjacent full power FM station KNIX-FM, Channel 273C, Phoenix, AZ. This statement demonstrates that a lack of population and/or other factors allow this proposal to be compliant with Section 74.1204. The process commonly called "Living Way," allows for the use of U/D Analysis, also known as "signal strength ratio methodology." In this instant case the facilities to be protected are second adjacent and are to be afforded protection from signals 40 dB stronger than they present in the location of the proposed antenna location.

The KALV-FM (50,50) protected contour at the proposed K271CR application site is 75.4 dBu. Therefore, the proposed K271CR F(50,10) interfering contour with respect to KALV-FM is the 115.4 dBu contour. The KNIX-FM F(50,50) protected contour at the proposed K271CR application site is 74.5 dBu. Therefore, the proposed K271CR FCC F(50,10) interfering contour with respect to KNIX-FM is the 114.5 dBu contour. Therefore the proposed K271CR facility will cause greater interference to KNIX-FM. Using the FCC's FM propagation curves program (see attached), the 114.5 dBu contour was calculated to extend 209 meters from the antenna.

The attached Google Earth screenshot shows a 209 meter radius from the tower base in red. There is no population in the area where the interfering contour reaches the ground. A lack of population has been demonstrated within the area of predicted interference and this application is therefore in compliance with 47 C.F.R. § 74.1204 with respect to KNIX-FM and KALV-FM.

K271CR CP Mod

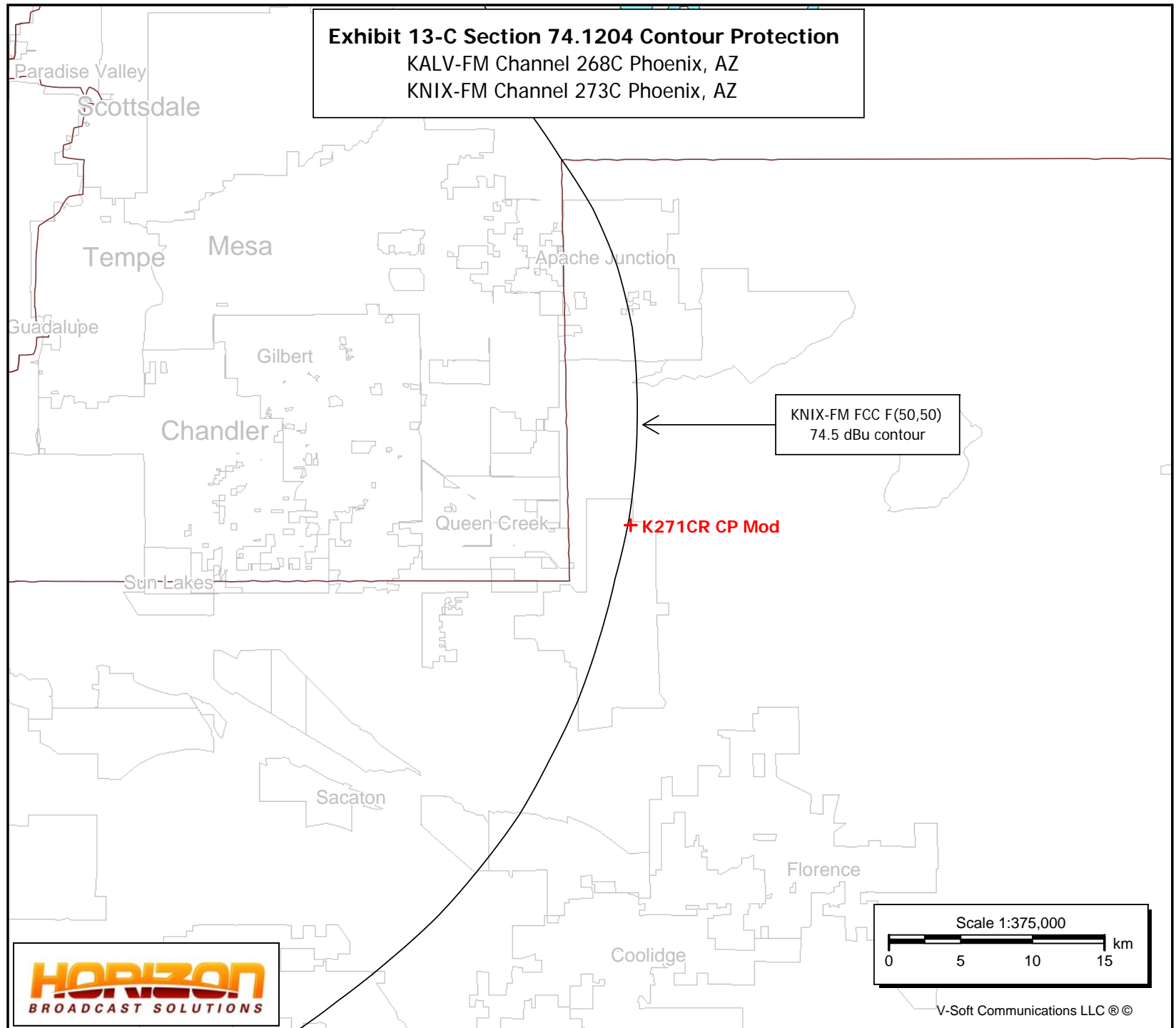
Santan, AZ
Latitude: 33-14-50 N
Longitude: 111-31-49 W
ERP: 0.25 kW
HAAT: 167.22 m
Channel: 271
Frequency: 102.1 MHz
AMSL Height: 646.0 m
Elevation: 466.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

KNIX-FM

Phoenix, AZ
BMLH19870814KA
Latitude: 33-19-58 N
Longitude: 112-03-53 W
ERP: 100.00 kW
HAAT: 494.0 m
Channel: 273
Frequency: 102.5 MHz
AMSL Height: 853.0 m
Elevation: 797.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

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KALV-FM Channel 268C Phoenix, AZ
KNIX-FM Channel 273C Phoenix, AZ



Select Contour Type:	<div>F(50,50) Service Contour -- FM and NTSC (analog) TV F(50,10) Interfering Contour F(50,90) Digital TV Service Contour</div>
Select Channel Range: (not TV Virtual Channel)	<div>FM Radio or TV Transmit Channels 2-6 TV Transmit Channels 7-13 TV Transmit Channels 14-69</div>
Find This:	<div>Field Strength, given a Distance (in km) Distance, Given a Field Strength (in dBu) FM ERP, given Distance and Field Strength [F(50,50) Service Contour]</div>
<div>.25</div> ERP (kW)	<div></div> Distance (km)
<div>167</div> HAAT (meters)	<div>114.5</div> Field (dBu)
<div>Find Result</div> <div>Clear Form</div>	

Results:

Calculated Distance = **0.209 km**

Free Space equation used to compute distance.



Google Earth

feet 2000
meters 600

