

K258CZ Appl.

Exeter, CA
Latitude: 36-17-10 N
Longitude: 119-05-15 W
ERP: 0.25 kW
HAAT: 294.44 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 490.0 m
Elevation: 473.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KDFO

Delano, CA
Latitude: 35-30-53 N
Longitude: 119-03-41 W
ERP: 8.00 kW
HAAT: 177.0 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 384.0 m
Elevation: 256.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 13-B Section 74.1204 Contour Protection

KDFO Channel 253B1 Delano, California

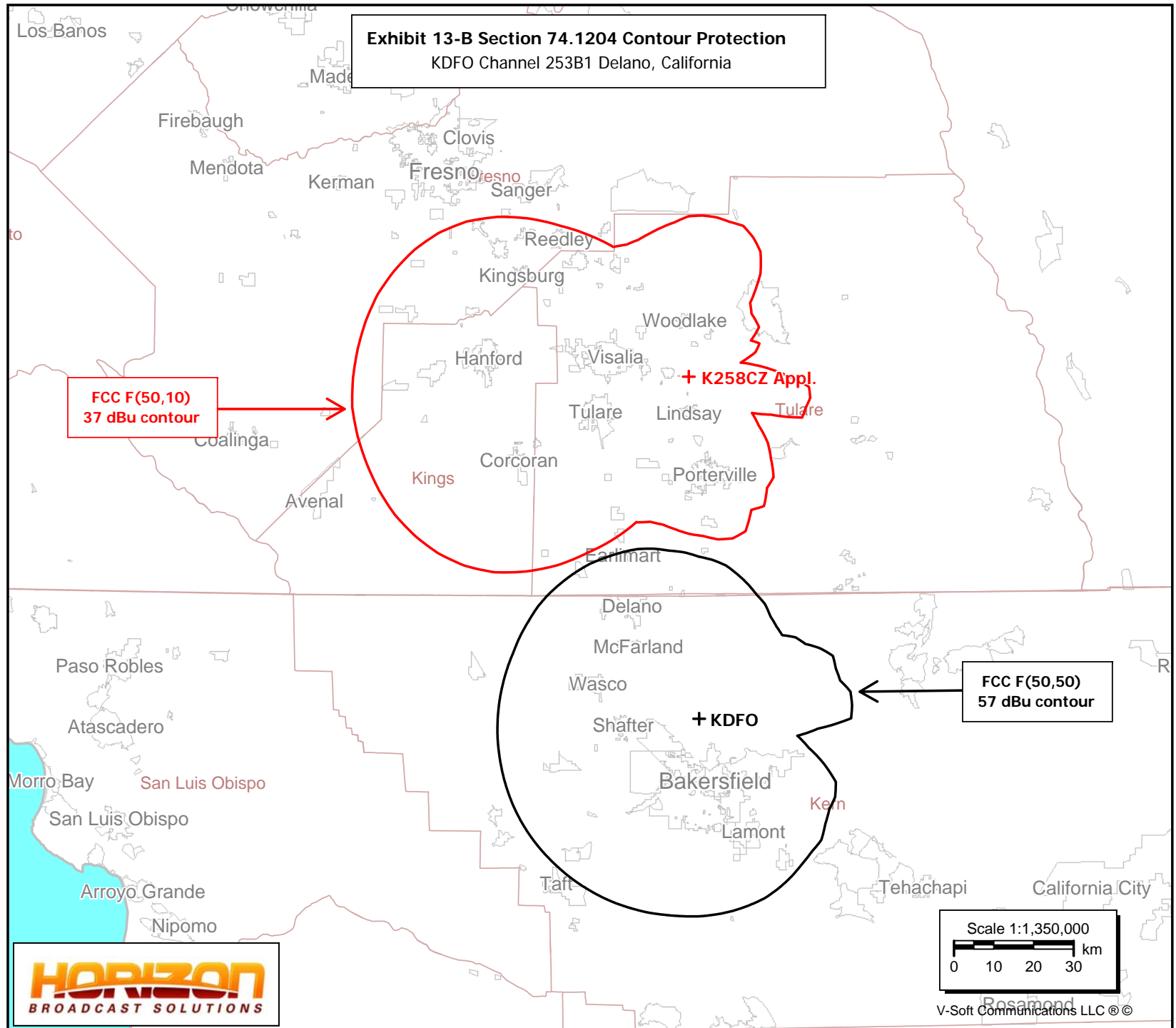


Exhibit 13-C
Section 74.1204 Contour Protection
KSOF Channel 255B Dinuba, CA

The proposed K258CZ modification would be located 41.0 km from second adjacent station KSOF Channel 246B, Visalia, CA. The KSOF FCC F(50,50) protected contour at the proposed K258CZ application site is 76.4 dBu contour. Therefore the K258CZ interfering contour with respect to KSOF is the FCC F(50,10) 116.4 dBu contour. Using the FCC's FM and TV Propagation Curves Calculations program, the contour K258CZ 116.4 dBu contour will extend 168 meters from the antenna. Therefore, the interfering contour will reach the ground near the base of the tower. The site is at the top of a narrow mountain top in a remote ranch location. The nearest occupied building is a residence just under one kilometer (0.96 km) southeast of the tower. The location of the tower site and a 168 meter radius from the tower are shown on the Google Earth screenshot photo included with this exhibit. Therefore the K258CZ interfering contour will not cause any prohibited interference to KSOF as the interfering contour does not reach the ground where there are occupied buildings or population.

Therefore it is believed this K258CZ minor modification application is in compliance with FCC Section 74.1204 contour compliance to KSOF.

K258CZ Appl.

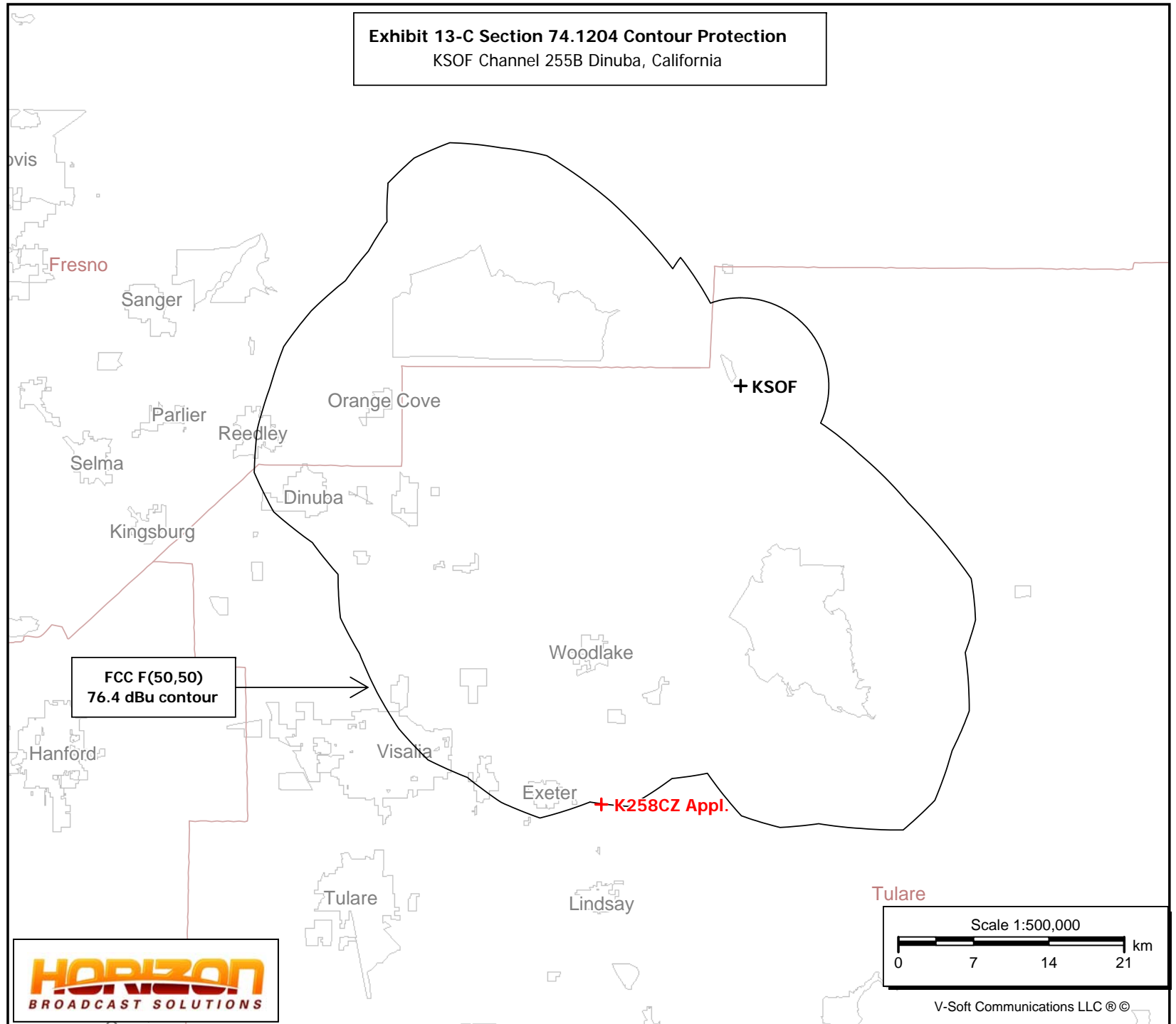
Exeter, CA
Latitude: 36-17-10 N
Longitude: 119-05-15 W
ERP: 0.25 kW
HAAT: 294.44 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 490.0 m
Elevation: 473.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KSOF

Dinuba, CA
Latitude: 36-38-11.80 N
Longitude: 118-56-33.60 W
ERP: 19.00 kW
HAAT: 250.0 m
Channel: 255
Frequency: 98.9 MHz
AMSL Height: 1591.0 m
Elevation: 1561.6 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

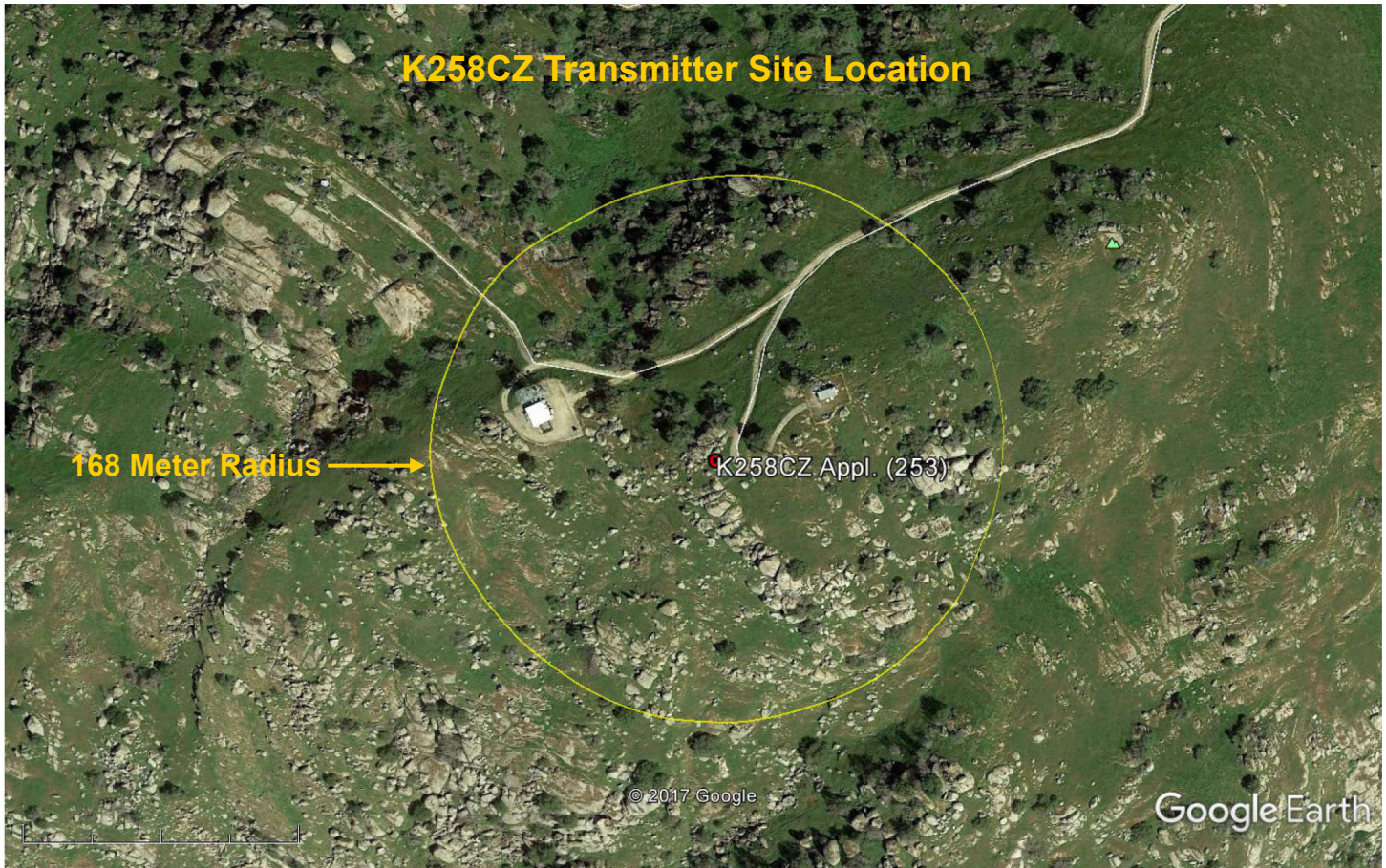
Exhibit 13-C Section 74.1204 Contour Protection

KSOF Channel 255B Dinuba, California



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 ERP (kW)</div>	<div>Distance (km)</div>
<div>297 HAAT (meters)</div>	<div>116.4 Field (dBu)</div>
<div>Find Result</div> <div>Clear Form</div>	
Results:	
<div>Calculated Distance = 0.168 km Free Space equation used to compute distance.</div>	

This function uses the FCC's CURVES program to make calculations of the F(50,50) FM and NTSC (analog) TV service curves, the F(50,10) interfering signal curves, and the F(50,90) digital TV service curves. Printable copies of these propagation curves are available at [FM and TV Propagation Curves Graphs \(/media/radio/fm-and-tv-propagation-curves-graphs\)](https://www.fcc.gov/media/radio/fm-and-tv-propagation-curves-graphs).



Google Earth



K258CZ Appl.

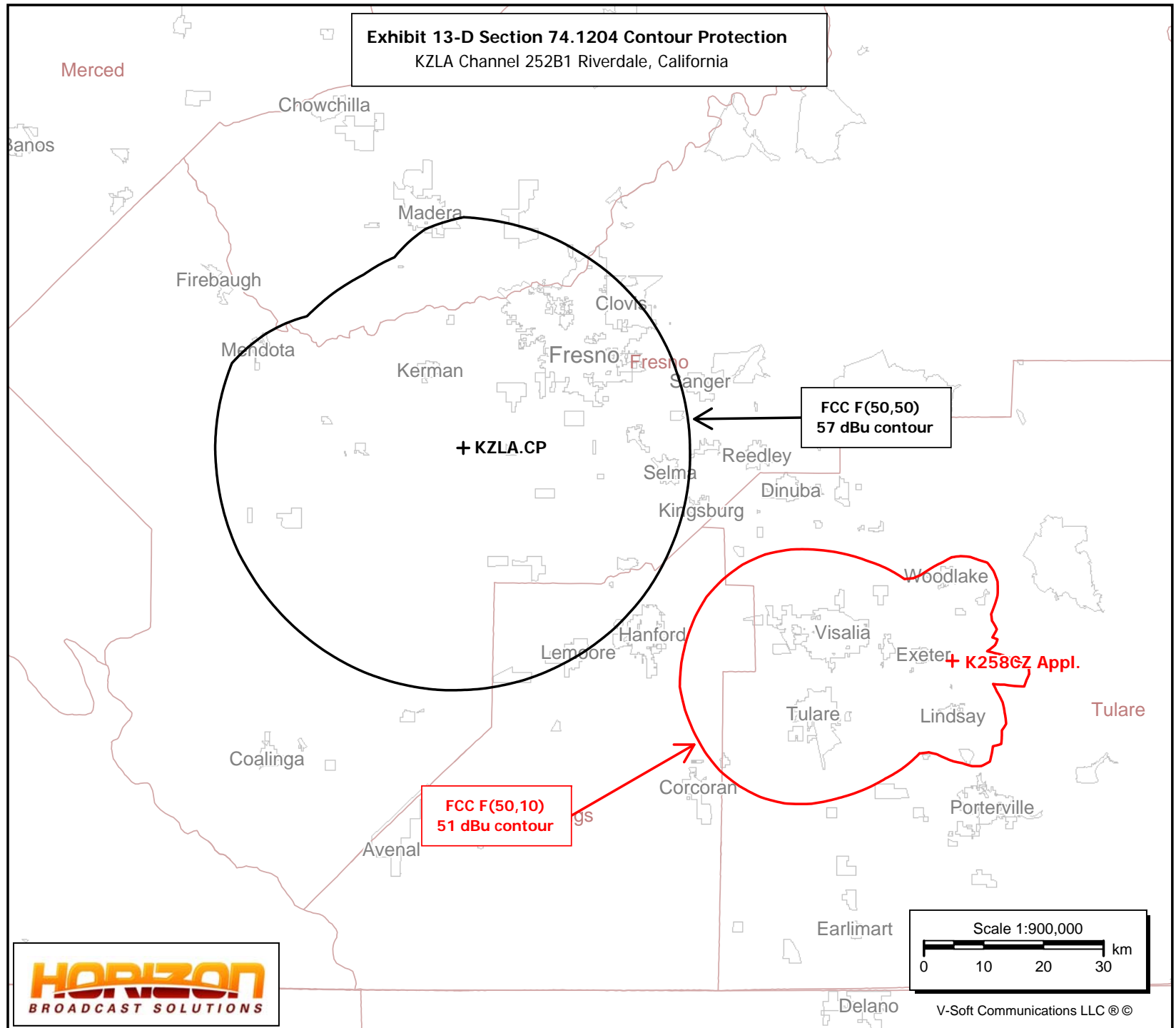
Exeter, CA
Latitude: 36-17-10 N
Longitude: 119-05-15 W
ERP: 0.25 kW
HAAT: 294.44 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 490.0 m
Elevation: 473.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KZLA.CP

Riverdale, CA
Latitude: 36-36-28 N
Longitude: 119-59-49 W
ERP: 25.00 kW
HAAT: 79.0 m
Channel: 252
Frequency: 98.3 MHz
AMSL Height: 139.0 m
Elevation: 64.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Exhibit 13-D Section 74.1204 Contour Protection

KZLA Channel 252B1 Riverdale, California



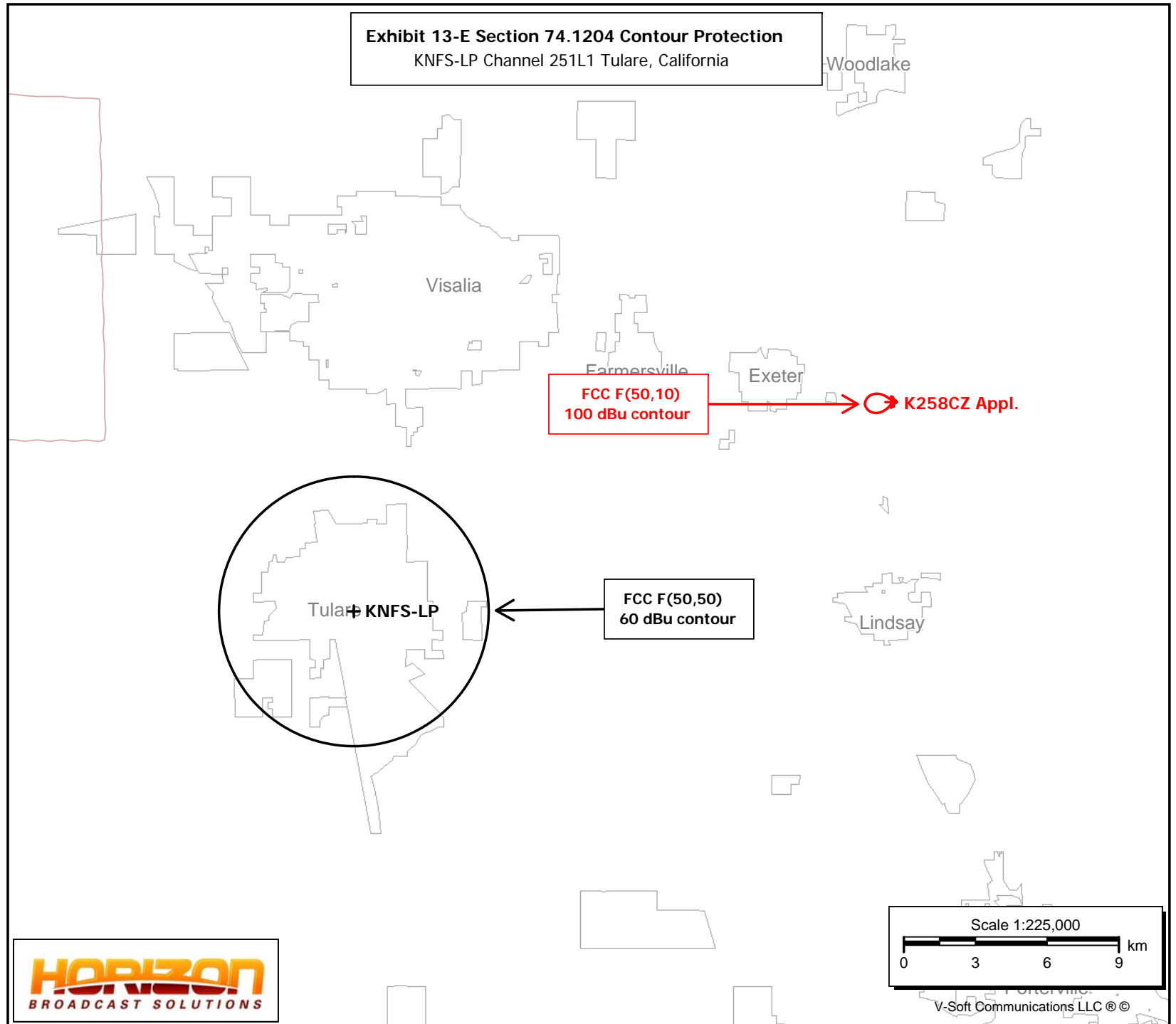
K258CZ Appl.

Exeter, CA
Latitude: 36-17-10 N
Longitude: 119-05-15 W
ERP: 0.25 kW
HAAT: 294.44 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 490.0 m
Elevation: 473.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KNFS-LP

Tulare, CA
Latitude: 36-12-26 N
Longitude: 119-20-15 W
ERP: 0.10 kW
HAAT: 29.22 m
Channel: 251
Frequency: 98.1 MHz
AMSL Height: 106.0 m
Elevation: 88.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 13-E Section 74.1204 Contour Protection
KNFS-LP Channel 251L1 Tulare, California



HORIZON
BROADCAST SOLUTIONS

Scale 1:225,000
0 3 6 9 km

V-Soft Communications LLC ©

K258CZ Appl.

Exeter, CA
Latitude: 36-17-10 N
Longitude: 119-05-15 W
ERP: 0.25 kW
HAAT: 294.44 m
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 490.0 m
Elevation: 473.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KMGV

Fresno, CA
Latitude: 37-04-29 N
Longitude: 119-25-52 W
ERP: 2.10 kW
HAAT: 611.0 m
Channel: 250
Frequency: 97.9 MHz
AMSL Height: 1439.0 m
Elevation: 1381.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 13-F Section 74.1204 Contour Protection

KMGV Channel 250B Fresno, California

