

Waiver of Section 74.787(a)(4) and (b)(1)(3) of the Commission's Rules

My Central Valley, LLC ("MCV"), licensee of KNXT-LD, FCC Fac. ID. 16944 by the attached application, seeks a waiver of the Commission's channel sharing distance requirement¹ and Section 74.787 of the Commission's Rules so that it might participate in a Channel Sharing Arrangement ("CSA") with KIFR(DT), FCC Fac. Id. 16950. In the CSA Order, the Commission permitted full power and secondary stations to enter into CSAs outside the auction context.² The Commission stated that a proposed channel sharing station that is relocating its facilities must maintain overlap between the protected contour of its existing and proposed facilities, and may not relocate more than 30 miles from the reference coordinates of the relocation station's antenna location.³ Stations that seek to channel share with a station located more than 30 miles from the station's current antenna must seek a waiver.⁴

Additionally, the Commission permits low power television stations to file applications for displacement relief in the event that it is subject to or receiving interference from another authorized TV broadcast station or other protected service.⁵ Stations seeking to relocate are required to move to a site that is not more than 30 miles from the reference coordinates of the existing station's community of license.⁶

KIFR's facilities are more than 30 miles from both KNXT-LD's current transmitter location and from the reference coordinates of KNXT-LD's community of license, Bakersfield, CA. Accordingly, KNXT-LD seeks a waiver of the 30-mile requirement in both these rules so that it might enter into a CSA with KIFR. In support of this request, KNXT-LD respectfully submits the following:

As described in the attached Engineering Narrative Statement of T Z Sawyer Technical Consultants (the "TE"), KNXT-LD's operation on Channel 6 is subjected to interference from random impulse electrical noise. Indeed, from comments presented by other channel 6 licensees, the Commission is well aware of the reception problems associated with digital television in the Lo-VHF channels (channels 2 to 6). In particular, note the applications of WPIV-TV in Philadelphia seeking increases in power over the maximum allowable limits to "recapture" their previous analog service area, as the digital signal reception loss was not as anticipated.⁷ The TE analysis notes that the noise floor at channel 6 is much higher than the Commission expected and that the proposed change will provide much improved reception of KNXT-LD's over-the-air

¹ *Channel Sharing by Full Power and Class A Stations Outside the Broadcast Television Spectrum Incentive Auction Context, et al.*, MB docket NO. 15-137, *et al.*, Report and Order, 32 FCC Rcd 2637, 2660, para.46 (2017) (The CSA Order).

² *See generally*, CSA Order.

³ CSA Order, para. 45.

⁴ *Id.* para. 46.

⁵ *See* 47 C.F.R. 74.787(a)(4).

⁶ *Id.*

⁷ *See*: WPVI-TV's Statement attachment to its Amendment to Modification Application File Number: 0000035671 "The serious reception problems associated with digital television stations broadcasting on VHF channels are well documented, both before – but especially after, the June 12, 2009 DTV transition date. The most serious of these problems appear to impact digital television stations that are broadcasting on any one of the low-VHF channels 2 to 6"

signal. In an attempt to resolve this interference and to provide mutual benefits to the parties involved, KNXT-LD and KIFR have agreed to enter into a CSA.

However, since the distance between the existing transmitting antenna locations of each station to the CSA is greater than 30 miles, MCV submits this request for waiver of the Commission's rules. The Commission has announced that it will consider a waiver of the 30-mile limit where the station seeking to relocate demonstrates:

- (i) that there is no other channel sharing partner that operates with a location that would comply with the contour overlap and 30-mile restrictions on the station seeking the waiver; and
- (ii) the population in the relocating station's loss area is either:
 - a. *de minimis*, and/or
 - b. well-served, and/or
 - c. would continue to receive the programming aired by the relocating station from another station.⁸

Contour Overlap:

Attachment 1 to the TE demonstrates that there is substantial contour overlap between KNXT and KIFR.

Loss of Service Population Showing:

The proposed move of KNXT-LD will result in a small loss of coverage to certain individuals that live to the south of the Bakersfield MSA; however, it will provide significantly greater coverage to the rural areas in the central valley. The analysis provided in the TE shows a population loss of 73,577 and a predicted gain of service to 2,106,358 people in a more rural area of the state and who would greatly benefit from an additional channel and the local programming that KNXT-LD provides to its community. . That alone is an important public interest benefit. Furthermore, as demonstrated in the TE, while some will lose service from KNXT-LD, a plethora of additional stations provide service to the loss area, demonstrating that the loss area is indeed and will remain "well-served."

The TE exhibit "Other Full Service Stations" provides a graphical presentation of the multitude of overlapping station contours that serve the KNXT-LD loss area. Figure 3 demonstrates that there are 28 full service stations that serve the loss area. Additionally, a Bakersfield market study run on the rabbitears website lists 42 over-the-air channels providing over 75 network programming sources to the market. See. Attachment 2. Another analysis, run from KNXT-LD's coordinates, shows 40 stations that can be received at KNXT-LD's coordinate location, of which 20 are listed with a signal of "GOOD". Each of these stations is carrying more than one stream of programming to its viewers.

Since there are 42 stations, 28 of which are full service, providing programming from over 75 sources, the conclusion is inescapable that the area is well served and the loss area test has been met.

⁸ Id. at ¶45- 46

Channel Sharing Partners: The CSA Order also requires a showing that there is no other channel sharing partner that operates with a location that would comply with the contour overlap and 30-mile restrictions on the station seeking the waiver.⁹

TZ Sawyer undertook an analysis of potential channel sharing partners in the relevant area with KNXT-LD contour overlap, that would comply with the 30-mile limit and could provide the necessary bitstream capacity to support the KNXT-LD digital stream. The TE provides a tabulation at Figure 4 and concludes that when all proper factors are considered, including capacity and population coverage, KIFR-DT is indeed the nearest possible host station that meets the relevant criteria.

Conclusion:

The requirements for a waiver of the 30-mile requirement, having been met, MCV respectfully requests approval of this application and its channel sharing with KIFR-DT.

⁹ Ibid

**Engineering Narrative Statement of
T Z Sawyer Technical Consultants**

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FCC FACILITY ID: 16944

BAKERSFIELD, CALIFORNIA

FEBRUARY 2024

ENGINEERING NARRATIVE STATEMENT IN SUPPORT OF WAIVER REQUEST OF THE MINOR CHANGE DISTANCE LIMITATION

Statement Summary:

KNXT-LD seeks a waiver request of 47 CFR §74.787(a)(4) and (b)(1)(3) to modify its station license to utilize in a Channel Sharing Agreement (“CSA”) the transmission facilities of KIFR-DT, facility ID: 16950.

The Commission expanded Channel Sharing Agreements to include all low power Television stations (including secondary stations such as KNXT-LD) in its report and order FCC 17-29, released March 24, 2017.¹

All figures, exhibits, or tabulations prepared by the undersigned and included herein are provided in support of the waiver request.

Minor Change Modification Compliance Waiver Request of:

47 CFR §74.787(a)(4) – If applicable to a grant of the overall waiver request.

§74.787(a)(4) addresses facilities that are displaced as a result of causing or receiving interference (a displacement application) and limits facility relocation to a distance of 30 miles. To the extent necessary, KNXT-LD seeks a waiver of the 30-mile distance restriction of this section of the Commission’s Rules.

While §74.787(a)(4) concerns spectrum interference displacement stations, KNXT-LD maintains that its operation on digital TV Channel 6 is subjected to interference from random impulse electrical noise from a multitude of sources and consideration of TV channels 2 to 6 should be included as displaced stations for the purposes of 74.787(a)(4). The TV channel six (6) digital noise floor is much higher than the Commission expected² in all but the country’s most remote

¹ *Channel Sharing by Stations Outside the Broadcast Television Spectrum Incentive Auction Context*; DA/FCC-17-29; paragraph 1 “We also adopt rules to allow all secondary stations to share a channel with another secondary station or with a full power or Class A station.” And again in paragraph 6 of the order; “We also permit all secondary stations to be sharee stations outside the auction context.”

² See the various applications of other TV Channel 6 licensees for either a change in channel (VHF to UHF) or a substantial power increase to overcome unanticipated electrical impulse noise on digital Lo-VHF channels, in particular, the application of WPIV, Facility ID 8616 to operate with a

areas. A change in channel assignment via the “CSA” from RF 6 to RF 22 is a much-preferred arrangement for the public’s reception of its digital over-the-air signal.

As no additional RF spectrum will be required, and no harmful interference will occur to other facilities, a grant of this waiver request is in the public interest.

47 CFR §74.787(b)(1)(3)

- A change in the transmitting antenna location via the proposed “CSA” results in service overlap of the authorized KNXT-LD facility with that of the proposed host station KIFR-DT, as illustrated in Figure 1. The proposal is in complies with the signal (contour) overlap requirements of §74.787(b)(1)(3).
- The proposed shared transmission site/antenna location (via a Channel Sharing Agreement with KIFR-DT) exceeds the 30-mile (48.28 km) radius limitation from the reference coordinates of the KNXT-LD licensed antenna location. Thus, a waiver of the pertinent rule sections concerning the 30-mile restriction is required, as noted below:

CALCULATED DISTANCE BETWEEN EXISTING LICENSE AND THE PROPOSED
CHANNEL SHARING AGREEMENT SITE (I.E., THE KIFR-DT SITE).

SITE	LAT (NAD83)	LON (NAD83)	(KM)	(MI)
CURRENT - LICENSED	35-26-15.8 N	118-44-29.3 W	94.668	58.824
PROPOSED CSA WITH KIFR-DT	36-17-14.2 N	118-50-18.6 W		

Support for a waiver of the 30-mile radius requirement is provided.

Figure 1 shows the required service overlap and the predicted service loss area. A computer analysis of the predicted service contours calculated in accordance with the Commission rules was used to determine the population totals, loss area, and population of the existing service area, as noted in the following table.³

substantial increase in power (ERP). It is believed that Commission is well aware of the digital reception difficulties that the public experiences when viewing stations operating on low-VHF channels, as evidence by the granting of increases in ERP to full service stations, and channel allotment changes from VHF to UHF where possible.

³ Tabulation of population results, mapping, exhibits or tables are generated by the V-Soft Probe 4 Pro Version 4.126 RF Communications software unless otherwise noted. The results have been review by the undersigned and are believe to be accurate. V-Soft RF Communications software is well known to the Commission staff and the results widely accepted by the broadcast engineering community.

CALCULATION OF SERVICE AREA GAIN OR LOSS
EXISTING KNXT-LD AND PROPOSED KIFR-DT CSA AREA.
CENSUS 2010 BLOCK LEVEL USING FCC CONTOURS

43.0 DBU FCC F(50,90) SERVICE	EXISTING SERVICE	PROPOSED LOSS POPULATION
KNXT-LD LICENSE	747,470 (PERSONS)	
KNXT-LD LOSS AREA		73,577 (PERSONS)
CHANNEL SHARING AGREEMENT WITH KIFR-DT		
43.0 DBU FCC F(50,90) SERVICE	EXISTING SERVICE	PREDICTED GAIN POPULATION
KNXT-LD LICENSED	747,470 (PERSONS)	
KNXT-LD CSA	2,179,935 (PERSONS)	2,106,358 (PERSONS) *

*GAIN IS CSA/KIFR-DT POPULATION MINUS LOSS POPULATION OF 73,577 PERSONS

Figure 2 shows the multitude (the universe) of other Full Service or Low Power Class A Television stations that serve the existing KNXT-LD service area wholly or in part and the predicted loss of service area.

Several additional low-power (non-class A) television stations provide service and programming to the general KNXT-LD service area. However, as they are unprotected secondary service television stations, they were not included in our studies or in Figure 2.

Figure 3 shows definitively that at least five (5) Full Service Television stations serve the proposed lost area. A total of 28 full-service stations enter some portion of the area and serve all or part of the existing KNXT-LD service area.

Class-A and other LPTV stations were not counted in this figure to reduce the map clutter. The population within the lost area is “well served” by other full-service television stations. The waiver requested herein is justified and in the public interest. A tabulation of the stations considered is included in Figure 3.

Additionally, while not plotted (or tabulated) in Figure 3, Sixteen (16) low-power television stations serve the proposed lost area for a combined total (full service and low power stations) of 44, of which a remarkable 22 stations share Bakersfield as their community of license.

Other possible host station considerations.

As detailed here and elsewhere in the underlying waiver request of which this narrative is just a part, the proposed Channel Sharing Agreement with KIFR-DT is the nearest facility that has the necessary capacity to support the digital stream of KNXT-LD as outlined in the proposed “CSA” agreement.

Possible “Other Host” facilities were considered based on available Mbps transport stream capacity, distance, and the population loss or gain to KNXT-LD. A tabulation of other stations considered within the radius of the proposed host station KIFR-DT is included in Figure 4.

In determining the digital channel loading in megabits-per-second (Mbps) of each of the other stations evaluated, the number of existing video streams and their bitrates was considered to determine if excess capacity was available. The source data concerning each station is available on the internet site: www.rabbitears.info

The table below is a list of commonly used data stream bitrates in Mbps for each of the video resolutions listed and then applied to each of the stations studied.

For example, a station may have six video streams, each supporting the same or different screen resolutions within the digital RF channel. To arrive at a total Mbps value (the transport stream), the individual stream bitrates were then summed based on each stream’s video screen resolution.

COMMONLY USED DATA STREAM BITRATES
BASED ON VIDEO RESOLUTIONS

VIDEO SCREEN RESOLUTION	MBPS
1080i	13.03
720p	8.00
480i	2.83

All stations considered in our study are utilizing the ATSC 1.0 standard. The maximum RF channel bitrate is 19.4 Mbps (the transport stream). Stations whose channel bitrates totals exceeded the 19.4 Mbps maximum are likely using “variable” bitrates, in which the total of all video streams are adjusted (compressed) so that the total of all streams does not exceed 19.4 Mbps (the transport stream/RF channel maximum) at any one moment in time.

Figure 4 also contains a public interest showing the three rule-compliant (within 30 miles) host stations compared to the existing KNXT-LD population. As can be seen from the table, all three possible host candidates fail based on a simple population loss evaluation. Thus, the nearest possible host station that meets the data bitrate of the CSA is indeed KIFR-DT, as proposed.

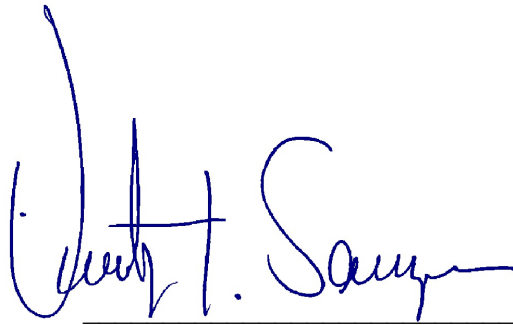
Besides the increase in population, the vacancy of the television channel six (6) spectrum by this proposal makes the spectrum available for other possible uses - a return of spectrum into the national inventory is in the public interest.

Engineering (Engineer's) Certification:

I, Timothy Z. Sawyer, dba T Z Sawyer Technical Consultants, do hereby attest that I have prepared or caused to prepare this engineering statement and its supporting figures, tabulations, or exhibits and that I believe the information provided by me and within this statement of support of a waiver request by KNXT-LD to be true and correct.

Respectfully submitted,

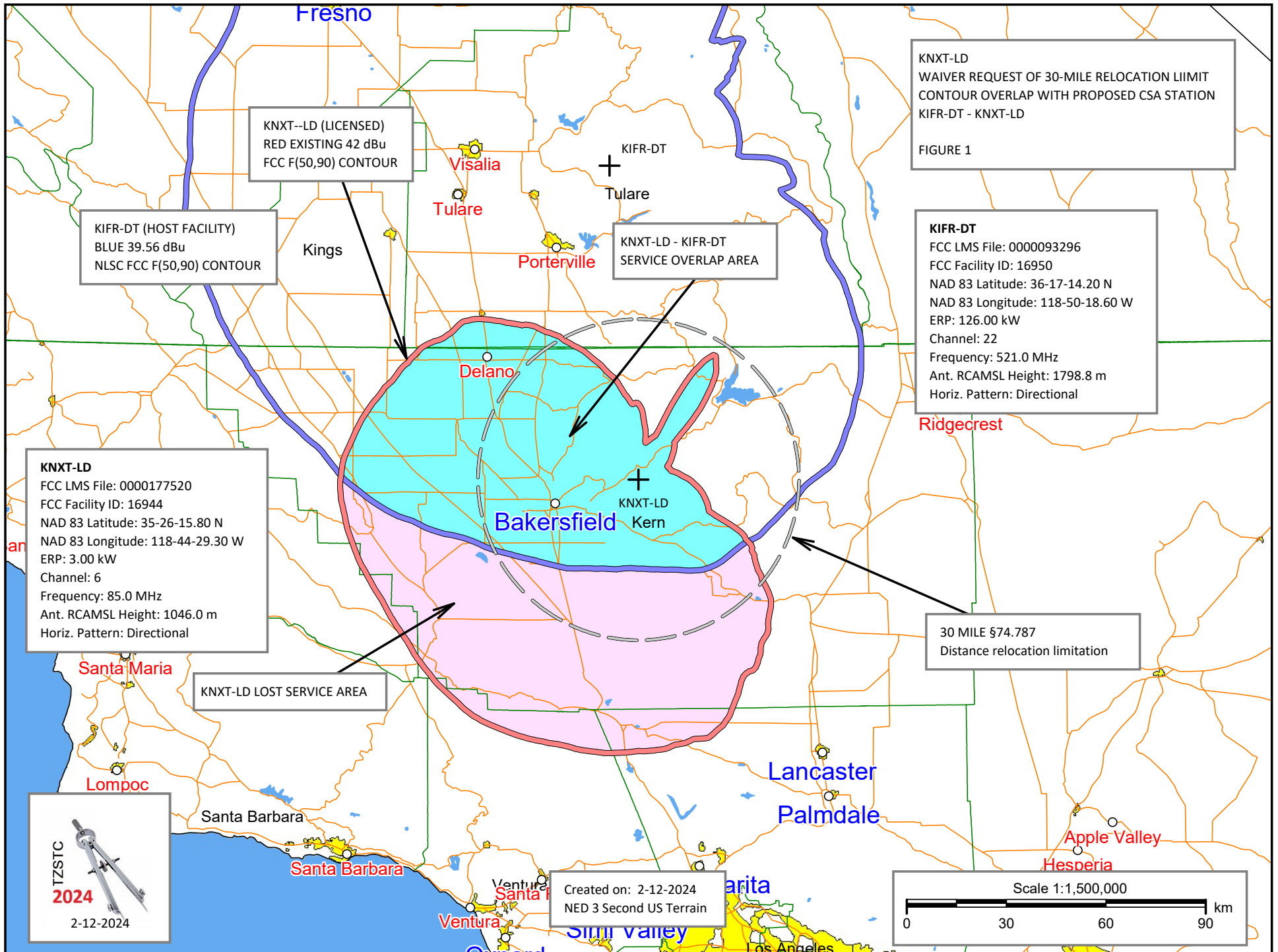
February 12, 2024

A handwritten signature in blue ink, appearing to read "Timothy Z. Sawyer", is written over a horizontal line.

Timothy Z. Sawyer, Consulting Engineer

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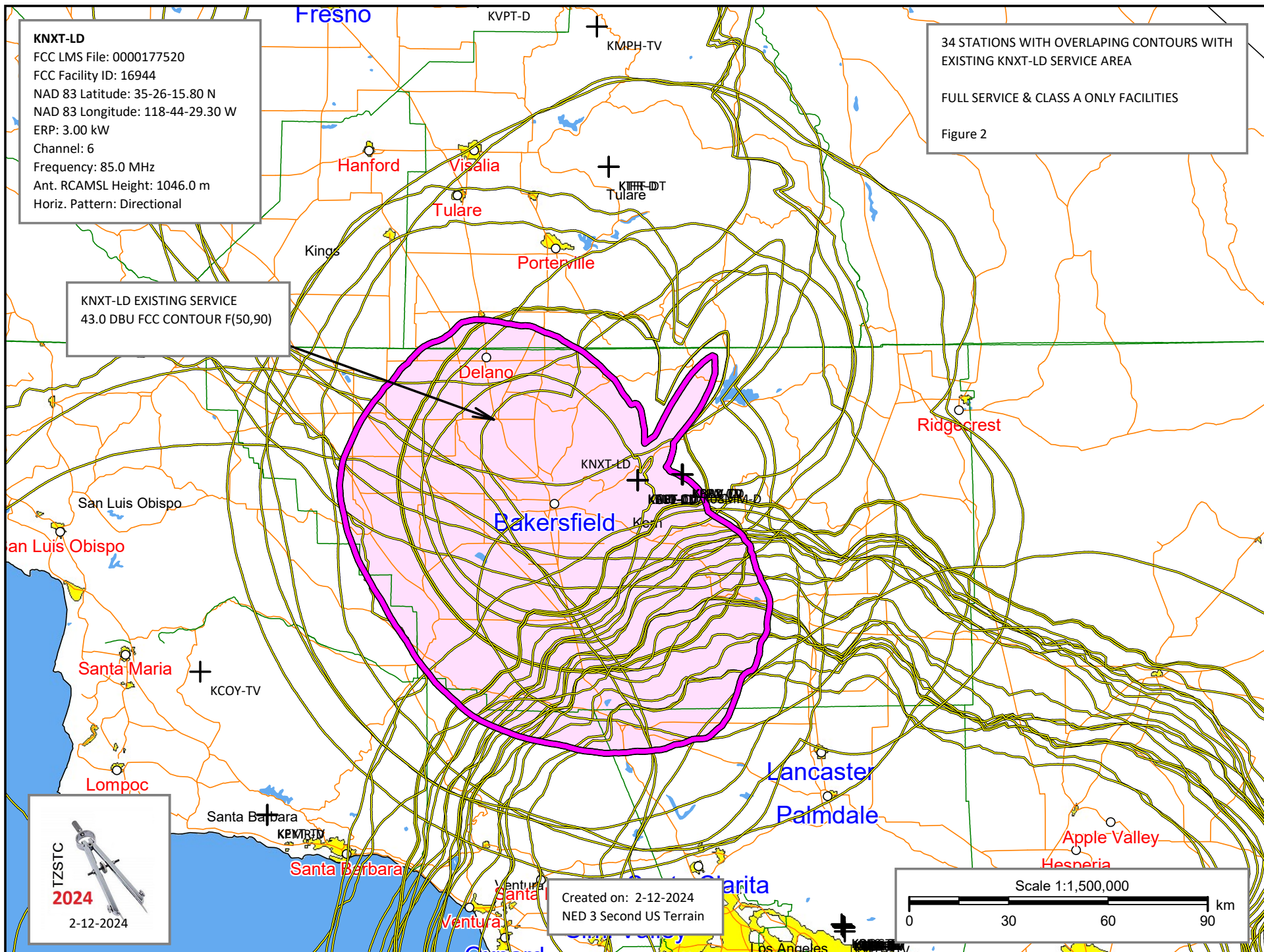


FIGURE 2 TABLE - SUPPORTING TABLE OF OTHER FACILITIES SHOWN ON MAP FIGURE 2

STATION WITH OVERLAPPING SERVICE CONTOURS TO THE EXISTING KNXT-LD SERVICE AREA.

Total number of overlapping contours: 34

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
KNXT-LD	DTV	6	Bakersfield	CA	0000177520	0.0	0.0

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
KWHY-TV	DTV	4	Los Angeles	CA	0000072085	149.5	155.3
KVCR-DT	DTV	5	San Bernardino	CA	0000068769	210.8	140.5
KABC-TV	DTV	7	Los Angeles	CA	0000058534	148.0	155.2
KCAL-TV	DTV	9	Los Angeles	CA	BLCDDT-20090612AIY	147.9	155.2
KERO-TV	DTV	10	Bakersfield	CA	BLCDDT-20100929AEF	13.4	82.3
KTTV-D	DTV	11	Los Angeles	CA	0000196952	148.3	155.2
KDOC-TV	DTV	12	Anaheim	CA	0000068699	147.3	155.3
KCOP-TV	DTV	13	Los Angeles	CA	0000196958	148.3	155.2
KTLD-CD	DTV	15	Bakersfield	CA	0000001629	0.1	62.0
KSCI-D	DTV	18	Long Beach	CA	0000155691	148.4	155.2
KBBV-CD	DTV	19	Bakersfield	CA	BLDDTA-20110930BHC	13.7	82.8
KCOY-TV	DTV	19	Santa Maria	CA	BLCDDT-20030604ACM	143.8	246.4
KPMR-D	DTV	21	Santa Barbara	CA	BLCDDT-20110607ABB	150.4	227.9
KIFR-D	DTV	22	Visalia	CA	0000093296	94.8	354.7
KTFF-DT	DTV	23	Porterville	CA	0000064190	94.8	354.7
KPXN-TV	DTV	24	San Bernardino	CA	0000068510	148.0	155.2
KGET-TV	DTV	25	Bakersfield	CA	0000007394	0.1	62.0
KVEA-D	DTV	25	Corona	CA	0000136469	148.2	155.2
KUVI-DT	DTV	26	Bakersfield	CA	0000081232	0.1	58.6
KEYT-TV	DTV	27	Santa Barbara	CA	BLCDDT-20061102ABJ	150.2	227.9
KCET-D	DTV	28	Los Angeles	CA	0000193023	148.4	155.2
KMPH-TV	DTV	28	Visalia	CA	0000200287	137.2	354.9
KFTR-DT	DTV	29	Ontario	CA	BLCDDT-20100401AFY	148.0	155.2
KBFX-CD	DTV	29N	Bakersfield	CA	BLTTA-20101018ACF	13.7	82.8
KXLA-D	DTV	30	Rancho Palos Verdes	CA	0000081656	148.0	155.2
KBTF-CD	DTV	31	Bakersfield	CA	0000127171	0.1	58.6
KCBS-TV	DTV	31	Los Angeles	CA	0000216847	147.3	155.3
KVPT-D	DTV	32	Fresno	CA	0000063002	153.3	341.7
KBAK-TV	DTV	33	Bakersfield	CA	BLCDDT-20060628ABK	13.7	82.8
KTBN-TV	DTV	33	Santa Ana	CA	0000197815	148.4	155.2
KMEX-DT	DTV	34	Los Angeles	CA	BLCDDT-20121203ASI	148.0	155.2
KABE-CD	DTV	35	Bakersfield	CA	0000081347	0.1	58.6
KTLA-D	DTV	35	Los Angeles	CA	0000197158	148.0	155.2
KNBC-D	DTV	36	Los Angeles	CA	0000216891	148.2	155.2

DTV: FULL SERVICE AND CLASS A LPTV STATIONS

KNXT-LD

FCC LMS File: 0000177520

FCC Facility ID: 16944

NAD 83 Latitude: 35-26-15.80 N

NAD 83 Longitude: 118-44-29.30 W

ERP: 3.00 kW

Channel: 6

Frequency: 85.0 MHz

Ant. RCAMSL Height: 1046.0 m

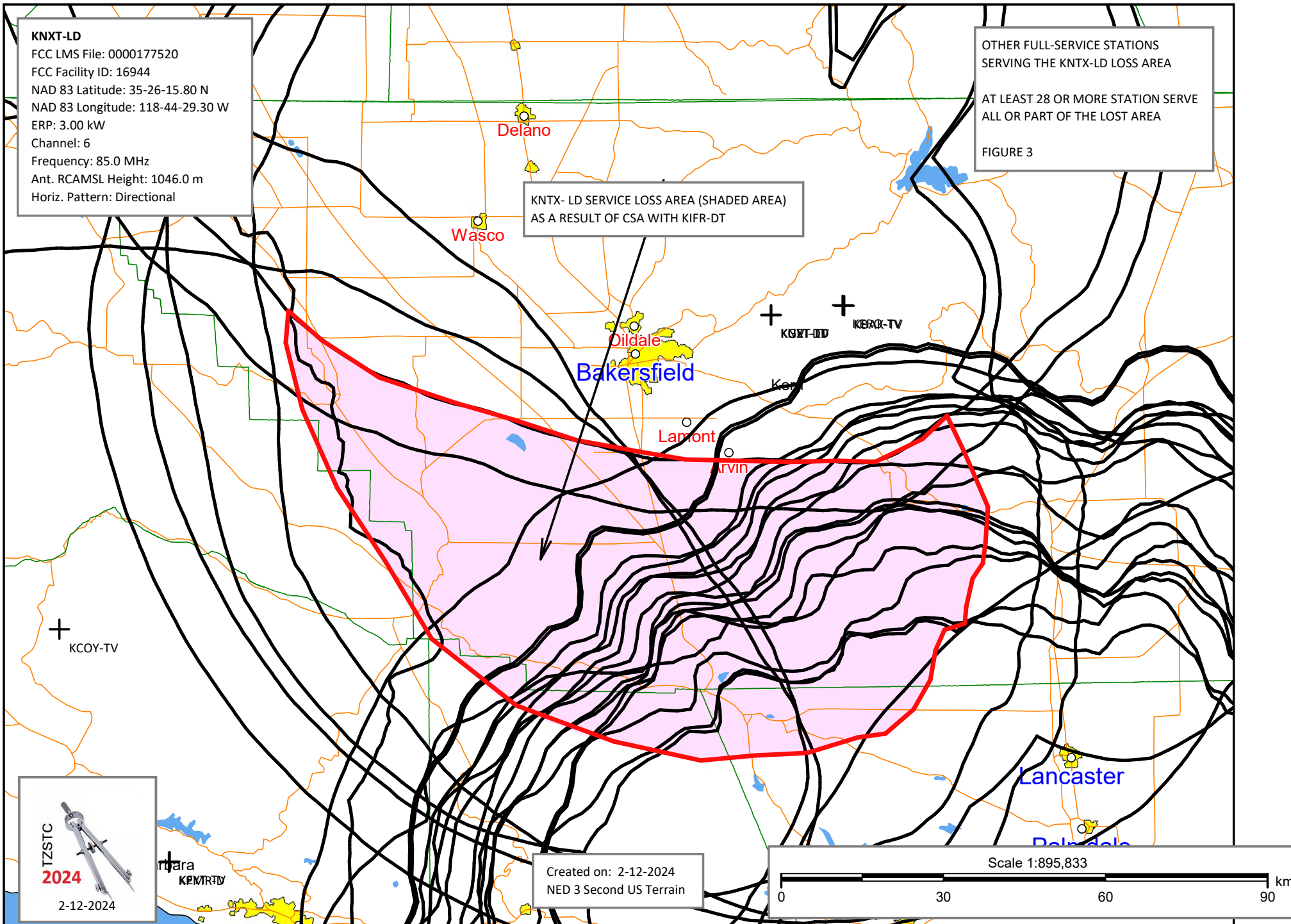
Horiz. Pattern: Directional

OTHER FULL-SERVICE STATIONS
SERVING THE KNTX-LD LOSS AREA

AT LEAST 28 OR MORE STATIONS SERVE
ALL OR PART OF THE LOST AREA

FIGURE 3

KNTX- LD SERVICE LOSS AREA (SHADED AREA)
AS A RESULT OF CSA WITH KIFR-DT



Created on: 2-12-2024
NED 3 Second US Terrain

Scale 1:895,833

TZSTC
2024

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FIGURE 3 - TABULATION - 28 FULL STATIONS SERVE LOSS AREA
IN PART OR IN WHOLE.

ONLY FULL-SERVICE TELEVISION STATIONS SERVING THE LOSS AREA WERE COUNTED
FOR CLARITY OF MAPPING CONTOURS

Call Sign	Lic	Chan.	Svc	Cls	City	ST	Facility ID
-----	---	----	---	---	-----	--	-----
KMPH-TV	LI	28	T	2C	Visalia	CA	51488
KCET-D	LI	28	T	2E	Los Angeles	CA	13058
KFTR-DT	LI	29	T	2C	Ontario	CA	60549
KXLA-D	LI	30	T	2C	Rancho Palos Verdes	CA	55083
KCBS-TV	LI	31	T	2C	Los Angeles	CA	9628
KBAK-TV	LI	33	T	2C	Bakersfield	CA	4148
KTBN-TV	LI	33	T	2C	Santa Ana	CA	67884
KMEX-DT	LI	34	T	2C	Los Angeles	CA	35123
KTLA-D	LI	35	T	2C	Los Angeles	CA	35670
KNBC-D	LI	36	T	2C	Los Angeles	CA	47906
KUVI-DT	LI	26	T	2C	Bakersfield	CA	7700
KEYT-TV	LI	27	T	2C	Santa Barbara	CA	60637
KGET-TV	LI	25	T	2C	Bakersfield	CA	34459
KVEA-D	LI	25	T	2C	Corona	CA	19783
KPXN-TV	LI	24	T	2C	San Bernardino	CA	58978
KTFF-DT	LI	23	T	2C	Porterville	CA	35512
KPMR-D	LI	21	T	2C	Santa Barbara	CA	12144
KCOY-TV	LI	19	T	2C	Santa Maria	CA	63165
KSCI-D	LI	18	T	2C	Long Beach	CA	35608
KSBY-D	LI	15	T	2C	San Luis Obispo	CA	19654
KCOP-TV	LI	13	T	2C	Los Angeles	CA	33742
KDOC-TV	LI	12	T	2C	Anaheim	CA	24518
KTTV-D	LI	11	T	2C	Los Angeles	CA	22208
KERO-TV	LI	10	T	2C	Bakersfield	CA	40878
KCAL-TV	LI	9	T	2C	Los Angeles	CA	21422
KABC-TV	LI	7	T	2C	Los Angeles	CA	282
KVCR-DT	LI	5	T	2E	San Bernardino	CA	58795
KWHY-TV	LI	4	T	2C	Los Angeles	CA	26231

FIGURE 4

EVALUATION OF POSSIBLE OTHER CSA PARTNERS

STATIONS CONSIDERED WITHIN RADIUS OF KIFR-DT										MBPS IN USE STREAMS BY VIDEO RESOLUTION						* EST. IN USE MBPS	ATSC 1.0 CHANNEL MAX MBPS	EST. REMAINING MBPS	CSA REQUIRED MBPS	AVAIL. MPBS	TECHNICALLY AVAILABLE	IS NET SERVICE POP LOST?	LICENSEE STATES AVAIL. FOR CSA?	
V-SOFT		FCC TV STUDY RESULTS		CALL SIGN	RF CH	STATION CLASS	CITY	ST	DISTANCE		1080i		720p		480i									
CONT POP	POP GAIN (LOSS)	IX FREE POP	IX POP GAIN (LOSS)						FROM KNXT-LD KM	MI	STREAM BITRATE	#	STREAM BITRATE	#	STREAM BITRATE									#
747,470	-	747,693	-	KNXT-LD	6	LPTV	Bakersfield	CA	0.00	0.000					2.83	8	22.6	19.4	0.0	PROPOSED SHARER (GUEST)				
682,906	(64,564)	687,336	(60,357)	KJOU-LD	12	LPTV	Bakersfield	CA	0.00	0.000					2.83	1	2.8	19.4	16.6	9.7	6.87	YES	NO	
				KJOI-LD	32	LPTV	Bakersfield	CA	0.00	0.000					2.83	4	11.3	19.4	8.1	9.7	-1.6	NO		
				K08PT-D	8	LPTV	Bakersfield	CA	0.00	0.000					2.83	4	11.3	19.4	8.1	9.7	-1.6	NO		
				KBFK-LP	36	LPTV	Bakersfield	CA	0.10	0.062					2.83	8	22.6	19.4	0.0	9.7	-9.7	NO		
				KCBT-LD	34	LPTV	Bakersfield	CA	0.10	0.062			8	1	2.83	3	16.5	19.4	2.9	9.7	-6.8	NO		
				KBTF-CD	31	CLASS A	Bakersfield	CA	0.10	0.062			8.00	1	2.83	2	13.7	19.4	5.7	9.7	-4.0	NO		
718,493	(28,977)	696,232	(51,461)	KABE-CD	35	CLASS A	Bakersfield	CA	0.10	0.062			8	1	2.83	2	13.7	19.4	5.7	9.7	-4.0	NO		
				KUUI-DT	26	FULL SERVICE	Bakersfield	CA	0.10	0.062			8	2	2.83	2	21.7	19.4	0.0	9.7	-9.7	NO		
				K18HD-D	18	LPTV	Bakersfield	CA	0.10	0.062	13.03	1			2.83	3	21.5	19.4	0.0	9.7	-9.7	NO		
				KTLD-CD	15	CLASS A	Bakersfield	CA	0.10	0.062					2.83	7	19.8	19.4	0.0	9.7	-9.7	NO		
				KKEY-LP	13	LPTV	Bakersfield	CA	0.10	0.062	13.03	1					13.0	19.4	6.4	9.7	-3.3	NO		
				KGET-TV	25	FULL SERVICE	Bakersfield	CA	0.10	0.062	13.03	1	8	1	2.83	2	26.7	19.4	0.0	9.7	-9.7	NO		
				K04SB-D	4	LPTV	Bakersfield	CA	0.10	0.062			8.00	1	2.83	2	13.7	19.4	5.7	9.7	-4.0	NO		
				KDBK-LD	28	LPTV	Bakersfield	CA	13.40	8.326			8.00	1	2.83	3	16.5	19.4	2.9	9.7	-6.8	NO		
				KERO-TV	10	FULL SERVICE	Bakersfield	CA	13.40	8.326			8.00	2	2.83	3	24.5	19.4	0.0	9.7	-9.7	NO		
644,593	(102,877)	645,044	(102,649)	KEBK-LD	27	LPTV	Bakersfield	CA	13.40	8.326					2.83	5	14.2	19.4	5.3	9.7	-4.45	YES	NO	
				KZKC-LD	28	LPTV	Bakersfield	CA	13.40	8.326			8.00	1	2.83	3	16.5	19.4	2.9	9.7	-6.8	NO		
				KBAK-TV	33	FULL SERVICE	Bakersfield	CA	13.70	8.513	13.03	1	8	1	2.83	2	26.7	19.4	0.0	9.7	-9.7	NO		
				KBFX-CD	29	CLASS A	Bakersfield	CA	13.70	8.513			8.00	1	2.83	3	16.5	19.4	2.9	9.7	-6.8	NO		
				KBBV-CD	19	CLASS A	Bakersfield	CA	13.70	8.513			8.00	1	2.83	2	13.7	19.4	5.7	9.7	-4.0	NO		
				KXBF-LD	14	LPTV	Bakersfield	CA	17.00	10.563			8.00	2	2.83	4	27.3	19.4	0.0	9.7	-9.7	NO		
				KTBV-LD	27	LPTV	Los Angeles	CA	77.10	47.908					2.83	5	14.2	19.4	5.3	9.7	-4.5	NO		
				KTFF-DT	23	FULL SERVICE	Porterville	CA	94.80	58.906	8.00	2	8.00	2	2.83	1	34.8	19.4	-15.4	9.7	-25.1	NO		
#####	1,432,465	2,160,460	1,412,767	KIFR-DT	22	FULL SERVICE	Visalia	CA	94.80	58.906					2.83	2	5.7	19.4	13.7	9.7	4.04	YES	NO	YES

MBPS VALUES USED

VIDEO RESOLUTION

1080i

720p

480i

13.03

8.00

2.83

* ESTIMATED MBPS IN USE - If the estimated channel MBPS exceeded the ATSC standard of 19.4 MBPS the ATSC value was used in our calculations (i.e., variable bitrates streams)

Calculation of net population gain or (loss) where done using the appropriate base value of KNXT-LD against each of the possible CSA stations.

CALL SIGN	RF CH	STATION CLASS	LICENSEE	COMMENTS FROM LICENSEES CONCERNING AVAILABILITY FOR POSSIBLE CHANNEL SHARING AGREEMENT WITH KNXT-LD
KNXT-LD	6	LPTV	MY CENTRAL VALLEY LLC	
KJOU-LD	12	LPTV	BRIDGE NEWS LLC	LICENSEE STATES HAS PLANED USE FOR ALL OF TRANS STREAM
KABE-CD	35	CLASS A LPTV	UNIVISION OF BAKERSFIELD LLC	LICENSEE STATES UNAVAILABLE FOR USE
KEBK-LD	27	LPTV	VENTURE TECHNOLOGIES	LICENSEE DOES NOT RESPOND
KIFR-DT	22	FULL SERVICE	VITA BROADCASTING	THE CURRENT CSA AGREEMENT

RabbitEars
Bakersfield Market Study

Stations for Bakersfield, California

Display Channel	Digital Channel	Call Sign	Network	Nickname	Hours	Notes
KTLD-CD BAKERSFIELD, CA						
08-1	15.1	K08MM-D	3ABN			
08-2	15.2	3ABN-PR	Shop LC			
08-3	15.3	3ABN-DD	LX			
08-4	15.4	3ABN-RM	Oxygen			
08-5	15.5	3ABN-RD	The365			
08-6	15.6	3ABN-RL	Outlaw			
08-7	15.7	Radio74	Infomercials			
KJOU-LD BAKERSFIELD, CA						
12-1	12.1	KJOU-LP				
KKEY-LP BAKERSFIELD, CA						
13-1	13.3	KKEY-TV	Telemundo	"Telemundo 17.3"		
KXBF-LD BAKERSFIELD, CA						
14-1	14.1		SonLife			
14-2	14.2		LATV			
14-3	14.3		Infomercials			
14-4	14.4		[Blank]			
14-5	14.5		Defy TV			
14-6	14.6		ION			
KGET-TV BAKERSFIELD, CA						
17-1	25.3	KGET-DT	NBC	"KGET-TV 17"		
17-2	25.4	CW	CW+	"CW 12"		
17-3	25.5	TELM	Telemundo	"Telemundo 17.3"		(KKEY-LP 13-1)
17-4	25.6	Laff	Laff			
K18HD-D BAKERSFIELD, CA						
18-1	18.1	KVPT-HD	PBS	"Valley PBS"		
18-2	18.2	KVPT-D1	PBS Kids 24/7			
18-3	18.3	KVPT-D2	Create			
18-4	18.5	KVPT-D3	World Channel			
KBBV-CD BAKERSFIELD, CA						
19-1	19.1	TELEXTS	TeleXitos			
19-2	19.2	UNIVRSL	Canal de La Fe			
19-3	19.3	DIYA TV	Diya TV			
KERO-TV BAKERSFIELD, CA						
23-1	10.3	KERO-HD	ABC	"23 ABC"		
23-2	10.4	COURT	Court TV			
23-3	10.5	GRIT	Grit			
23-4	10.6	Grit-TV	ION			
23-5	10.7	Bounce	Bounce			
23-6	10.8	Scripps	Scripps News			

Display Channel	Digital Channel	Call Sign	Network	Nickname	Hours	Notes
23-7	10.9	HSN	HSN			
K08PT-D	BAKERSFIELD, CA					
24-1	8.1	K08PT-D	3ABN			
24-2	8.2	3ABN-PR	3ABN Proclaim			
24-3	8.3	3ABN-DD	3ABN Dare to Dream			
24-4	8.4	3ABN-ES	3ABN Latino			
24-5	8.5	3ABN-RD	3ABN Radio			
24-6	8.6	3ABN-RL	3ABN Radio Latino			
24-7	8.7	Radio74	Radio 74			
KDBK-LD	BAKERSFIELD, CA					
28-1	28.3	KZKC-HD	ABC	"23 ABC"		(KERO-TV 23-1)
KZKC-LD	BAKERSFIELD, CA					
28-1	28.3	KZKC-HD	ABC	"23 ABC"		(KERO-TV 23-1)
KDBK-LD	BAKERSFIELD, CA					
28-2	28.4	CourtTV	Court TV			(KERO-TV 23-2)
KZKC-LD	BAKERSFIELD, CA					
28-2	28.4	CourtTV	Court TV			(KERO-TV 23-2)
KBAK-TV	BAKERSFIELD, CA					
29-1	33.3	KBAK	CBS	"29 Eyewitness News"		
KBFX-CD	BAKERSFIELD, CA					
29-2	29.4	TBD	TBD			
KBAK-TV	BAKERSFIELD, CA					
29-3	33.5	Charge!	Charge!			
29-4	33.6	Dabl	Dabl			
KBTF-CD	BAKERSFIELD, CA					
31-1	31.1	KBTF-CD	UniMás			
31-2	31.2	getTV	GET			
31-3	31.3	Escape	ION Mystery			
KJOI-LD	BAKERSFIELD, CA					
32-1	32.1		[Blank]			
32-2	32.2		Daystar Español			
32-3	32.3		Daystar			
32-4	32.4		Spanish Religious	"Mana Vision 3"		
KCBT-LD	BAKERSFIELD, CA					
34-01	34.1	Estrell	Estrella TV			
KBFK-LP	BAKERSFIELD, CA					
34-02	36.2	Movies!	Movies!			
34-03	36.3	DayStar	One America Plus			
34-04	36.4	HSN	[Blank]			
KCBT-LD	BAKERSFIELD, CA					
34-05	34.5	TCN	Spanish Religious	"Victoria TV"		
KBFK-LP	BAKERSFIELD, CA					

Display Channel	Digital Channel	Call Sign	Network	Nickname	Hours	Notes
34-06	36.6	SBN	SonLife			
34-07	36.7	ANT-TV	Antenna TV			
34-08	36.8	Buzzr	BUZZR			
KCBT-LD BAKERSFIELD, CA						
34-09	34.9	QVC	QVC			
34-10	34.10	Ventana	Ventana TV			
KBFK-LP BAKERSFIELD, CA						
34-11	36.11	Cozi	COZI TV			
34-12	36.12	ShopLC	Shop LC			
KABE-CD BAKERSFIELD, CA						
39-1	35.2	KABE-CD	Univision	"Univision 39"		(KABE-CD 39-1)
KDBK-LD BAKERSFIELD, CA						
41-1	28.6	JTV HD	Jewelry TV			
KZKC-LD BAKERSFIELD, CA						
41-1	28.6	JTV HD	Jewelry TV			
KDBK-LD BAKERSFIELD, CA						
41-2	28.5	CSTORE	Corner Store TV			
KZKC-LD BAKERSFIELD, CA						
41-2	28.5	CSTORE	Corner Store TV			
KUVI-DT BAKERSFIELD, CA						
45-1	26.1	KUVI-DT	Quest			
45-2	26.2	UVN HD	Univision	"Univision 39"		(KABE-CD 39-1)
45-3	26.3	UNM HD	UniMás			(KBTF-CD 31-1)
45-4	26.4	Quest	[Blank]			
45-5	26.5	CourtTV	Court TV			
45-6	26.6	ShopLC	Shop LC			
KEBK-LD BAKERSFIELD, CA						
47-1	27.1	VTV	Religious	"Vida y Gozo TV"		
K04SB-D BAKERSFIELD, CA						
47-1	4.1	KCET HD	PBS	"PBS SoCal Plus"		(KCET 28-1)
KEBK-LD BAKERSFIELD, CA						
47-2	27.2	EspTV	Religious			
K04SB-D BAKERSFIELD, CA						
47-2	4.2	KCETLnk	Create			(KCET 28-2)
KEBK-LD BAKERSFIELD, CA						
47-3	27.3	NUTREYA	Infomercials			
K04SB-D BAKERSFIELD, CA						
47-3	4.3	NHKWRLD	NHK World			(KCET 28-3)
KIFR VISALIA, CA						
49-1	22.1	KIFRart	Classic Arts Showcase			
49-2	22.2	KIFRgeb	GEB Network			
49-3	22.3		Classic Arts Showcase			

Display Channel	Digital Channel	Call Sign	Network	Nickname	Hours	Notes
KNXT-LD BAKERSFIELD, CA						
53-1	6.1	MyNet	MyN			
53-2	6.2	MeTV	Me-TV			
53-3	6.3	ThisTV	This TV			
53-4	6.4	TheGrio	The Grio			
53-5	6.5	H&I	Heroes & Icons			
53-6	6.6	StartTV	Start TV			
53-7	6.7	OnTV4U	Infomercials			
53-8	6.8	TCT	TCT			
KBFX-CD BAKERSFIELD, CA						
58-1	29.3	FOX58	FOX	"Fox 58"		
KBAK-TV BAKERSFIELD, CA						
58-2	33.4	FOX58	FOX	"Fox 58"		(KBFX-CD 58-1)
KBFX-CD BAKERSFIELD, CA						
58-3	29.5	Comet	Comet TV			
58-4	29.6	TheNest	The Nest			
KTFF-DT PORTERVILLE, CA						
61-1	23.1	KTFF-DT	UniMás	"TeleFutura 61"		
61-2	23.2	KFTV-DT	Univision	"Univision 21"		(KFTV-DT 21-1)
61-3	23.3	Quest	Quest			

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*"Ignorance and prejudice and **fear** walk hand in hand..." - Rush "Witch Hunt"*

Study from KNXT-LD Coordinates



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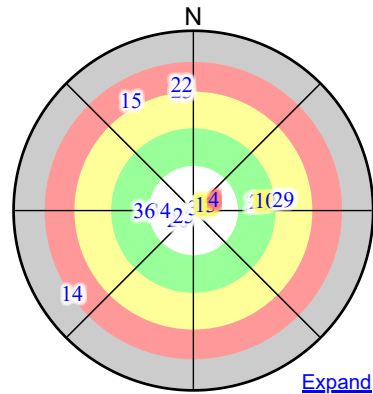
Sitemap

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Result List

Shareable link: <https://www.rabbitears.info/s/1261052>

Instructions	Click here .
Study Location	35.44**, -118.74**
Study Date/Time	2024-02-15 14:56:15ET
Receive Height	30' (AGL); 3509' (AMSL)
Search Distance	60 miles ▼
Sort By	Distance ▼
Units	dBuV/m ▼
Hide Off-Air	No ▼
Current Search List	Future Search List
Current Search Map	Future Search Map



Channel	Callsign	Network (1261052)	Community of License	State	Map	Transmitter Distance (Miles)	Direction (True)	Direction (Magnetic)	Field Strength (dBuV/m)	Signal Margin (dB)	Repack Info
53-1 (6)	KNXT-LD	My	BAKERSFIELD	CA		0	0°	348.1°	* Good	*	
12-1 (12)	KJOU-LD		BAKERSFIELD	CA		0	0°	348.1°	* Good	*	
24-1 (8)	K08PT-D	3ABN	BAKERSFIELD	CA		0	47.2°	35.3°	* Good	*	
32-1 (32)	KJOI-LD	IND	BAKERSFIELD	CA		0	39°	27.1°	* Good	*	
34-1 (34)	KCBT-LD	Estrella	BAKERSFIELD	CA		0	270°	258.1°	118.68 Good	78	
34-1 (36)	KBFK-LP	IND	BAKERSFIELD	CA		0	270°	258.1°	108.22 Good	67.36	
45-1 (26)	KUVI-DT	IND	BAKERSFIELD	CA		0	58.6°	46.7°	152.91 Good	112.96	
31-1 (31)	KBTF-CD	UniMás	BAKERSFIELD	CA		0	58.6°	46.7°	136.86 Good	96.44	
39-1 (35)	KABE-CD	UNI	BAKERSFIELD	CA		0	58.6°	46.7°	136.47 Good	95.7	
46-1 (4)	K04SB-D	// K23OM-D	BAKERSFIELD	CA		0.1	62°	50.1°	125.21 Good	97.21	
13-1 (13)	KKEY-LP	TLM	BAKERSFIELD	CA		0.1	62°	50.1°	131.55 Good	95.55	
8-1 (15)	KTLD-CD	3ABN	BAKERSFIELD	CA		0.1	62°	50.1°	132.90 Good	94.07	
18-1 (18)	K18HD-D	// KVPT	BAKERSFIELD	CA		0.1	62°	50.1°	137.81 Good	98.66	
17-1 (25)	KGET-TV	NBC/CW	BAKERSFIELD	CA		0.1	62°	50.1°	148.21 Good	108.36	
23-1 (10)	KERO-TV	ABC	BAKERSFIELD	CA		8.3	82.3°	70.4°	91.97 Good	55.97	
47-1 (27)	KEBK-LD	REL	BAKERSFIELD	CA		8.3	82.3°	70.4°	95.47 Good	55.42	
41-1 (28)	KDBK-LD	IND	BAKERSFIELD	CA		8.3	82.3°	70.4°	95.47 Good	55.33	
42-1 (28)	KZKC-LD		BAKERSFIELD	CA		8.3	82.3°	70.4°	95.47 Good	55.33	
19-1 (19)	KBBV-CD	IND	BAKERSFIELD	CA		8.5	82.8°	70.9°	93.42 Good	54.17	
58-1 (29)	KBFX-CD	FOX	BAKERSFIELD	CA		8.5	82.8°	70.9°	79.83 Fair	39.6	
29-1 (33)	KBAK-TV	CBS	BAKERSFIELD	CA		8.5	82.8°	70.9°	98.16 Good	57.56	
14-1 (14)	KXBF-LD	IND	BAKERSFIELD	CA		10.6	235.5°	223.6°	42.17 Poor	3.45	
12-1 (27)	KTBV-LD	REL	LOS ANGELES	CA		47.9	177.9°	166°	-0.88 Bad	-40.93	
61-1 (23)	KTFF-DT	UniMás	PORTERVILLE	CA		58.9	354.7°	342.8°	60.07 Poor	20.41	
49-1 (22)	KIFR	IND	VISALIA	CA		58.9	354.7°	342.8°	55.71 Poor	16.15	
2-1 (22)	K22NA-D	// KCBS-TV	INYOKERN, ETC	CA		59.6	86.9°	75°	-41.87 Bad	-81.43	
8-1 (24)	K24ON-D	// KFLA-LD	RIDGECREST	CA		59.6	86.9°	75°	-42.25 Bad	-82.01	
4-1 (25)	K25PL-D	// KNBC	RIDGECREST	CA		59.6	86.9°	75°	-42.43 Bad	-82.28	
5-1 (27)	K27NX-D	// KTLA	RIDGECREST	CA		59.6	86.9°	75°	-42.79 Bad	-82.84	
7-1 (30)	K30QC-D	// KABC-TV	RIDGECREST	CA		59.6	86.9°	75°	-43.33 Bad	-83.65	

Channel	Callsign	Network (1261052)	Community of License	State	Map	Transmitter Distance (Miles)	Direction (True)	Direction (Magnetic)	Field Strength (dBuV/m)	Signal Margin (dB)	Repack Info
28-1 (32)	K32NA-D	// KCET	Ridgecrest	CA		59.6	86.9°	75°	-40.49 Bad	-81	
52-1 (14)	K14AT-D	// KVEA	RIDGECREST	CA		59.6	86.9°	75°	-50.68 Bad	-89.4	
46-1 (15)	K15HJ-D	// KFTR-DT	RIDGECREST, ETC.	CA		59.6	86.9°	75°	-53.92 Bad	-92.75	
41-1 (16)	K16JW-D	// K31MB-D	RIDGECREST	CA		59.6	86.9°	75°	-54.16 Bad	-93.1	
34-1 (17)	K17HY-D	// KMEX-DT	RIDGECREST, ETC.	CA		59.6	86.9°	75°	-54.39 Bad	-93.43	
21-1 (19)	K19IS-D	// KZGN-LD	INYOKERN	CA		59.6	86.9°	75°	-37.17 Bad	-76.42	
18-1 (20)	K20LH-D	// KSCI	RIDGECREST	CA		59.6	86.9°	75°	-55.06 Bad	-94.42	
9-1 (21)	K21IN-D	// KCAL-TV	RIDGECREST, ETC.	CA		59.6	86.9°	75°	-55.28 Bad	-94.74	
56-1 (23)	K23IS-D	// KDOC-TV	RIDGECREST, ETC.	CA		59.6	86.9°	75°	-55.72 Bad	-95.38	
11-1 (33)	K33ID-D	// KTTV	RIDGECREST	CA		59.6	86.9°	75°	-72.29 Bad	-112.89	
15-1 (15)	KFVD-LD		PORTERVILLE	CA		63.4	330.6°	318.7°	55.92 Poor	17.09	

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"Clockwork angels, the people raise their hands... as if to fly..." - Rush "Clockwork Angels"