

DELAWDER COMMUNICATIONS, INC.

2121 Eisenhower Avenue, Suite 200

Alexandria, Virginia 22314

(703) 299-9222

ENGINEERING REPORT

Alma Vision Hispanic Network, Inc.
Altadena, CA (KTAV-LP, Channel 55+ Minor Modification)

EXHIBIT 6

LPTV MINOR MODIFICATION – INTERFERENCE STUDIES

I. Introduction

1. Alma Vision Hispanic Network, Inc. (“AlmaVision”) is the proposed assignee of KTAV-LP, Lancaster, CA, channel 24(+). By this application, AlmaVision is seeking "DTV displacement relief" by proposing to migrate its LPTV operation from Channel 24(+) to Channel 55(+), and by specifying various technical changes necessary to facilitate the use of Channel 55(+).

2. The changes include a move of the transmitter site by 38 kilometers to Mt. Wilson, with service to the community of Altadena, CA. As demonstrated in Section IV, no other channel is available within 20 kilometers of the licensed KTAV-LP transmitter site for use as a displacement channel (satisfying one criterion for allowing the site move). Also, as demonstrated by Figure 1A, contour overlap exists between the herein proposed and licensed 74 dBu (F50,50) service contours for KTAV-LP (thus satisfying a second criterion for allowing the site move and facility change). (Figure 1B, attached, includes the 74 dBu service contour distances for the licensed facility. The proposed 74 dBu service contour distances are included in Table 2A, attached.)

3. The maximum ERP in any horizontal or vertical plane is 9.98 kW. Because the maximum ERP in the horizontal plane will be maintained below 10 kW, Mexican Notification of this proposal is not required.

4. Interference studies are provided below to demonstrate adequate protection to all known LPTV (TV translator and TV booster) stations, analog TV stations and digital TV stations. Pursuant to 47 C.F.R. Section 73.3572(a)(4)(iv)(A), because the authorized KTAV-LP transmitter site is located within 265 kilometers of co-channel DTV stations KBEH-DT (Oxnard, CA) and KGET-DT (Bakersfield, CA), the changes herein proposed qualify as minor changes and this is not considered a major change modification.

5. All terrain studies use USGS/DMA three arc-second data. All population information in this application is taken from year 2000 US Census Data.

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6. Attached as Table 1 is a Dataworld TV Spacing Study for Channel 55(+). The Dataworld Study was conducted from a reference site at the new transmitter location. A discussion and/or a detailed interference study are included for certain stations listed in Table 1 that require protection from the proposed facility. All other stations listed on Table 1 are either too far away to require a detailed study (and are obviously protected), or do not require protection pursuant to the FCC Rules. Tables 2A and 2B, attached, include the proposed service and interference contour distances for the proposed facility.

7. The use of frequency offset is required, and is made in order to add protection to any nearby analog co-channel station. The applicant will maintain the requested offset per 47 C.F.R. Section 74.761 by use of a precision oscillator supplied by the transmitter manufacturer.

II. Interference Studies

Regarding KRPE-LP, Banning, CA, LPTV Channel 55n

8. In accordance with 47 C.F.R. Section 74.707(d)(1), a co-channel UHF LPTV station is protected to a C/I ratio that is no less than 45 dB for non-offset carrier frequency operation. As demonstrated by Figure 2A, attached, the 29 dBu (F50,10) interference contour for the proposed facility will not overlap with the 74 dBu (F50,50) service contour of KRPE-LP (as authorized or as proposed); therefore, adequate protection to KRPE-LP will exist. (Figures 2B and 2C, attached, are tabulations of the KRPE-LP authorized and proposed service contours, respectively. The KRPE-LP site move application, although protected, has recently been dismissed by the FCC.)

Regarding K55CW, Victorville, CA, LPTV Channel 55n

9. In accordance with 47 C.F.R. Section 74.707(d)(1), a co-channel UHF LPTV station is protected to a C/I ratio that is no less than 45 dB for non-offset carrier

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frequency operation. As demonstrated by Figure 3A, attached, the 29 dBu (F50,10) interference contour for the proposed facility will overlap with the 74 dBu (F50,50) service contour of K55CW. (Figure 3B is a tabulation of the K55CW service contour.)

10. Using the service and interference contours, interference is predicted to result; however, the FCC allows for the use of the Longley-Rice point-to-point radio propagation model, version 1.2.2 (hereafter "Longley-Rice") in order to demonstrate that interference will not be caused to a LPTV station. (A description of the allowed use of Longley-Rice {as stated by the FCC}, and a description of the Longley-Rice studies included with this application, are made in Section III, below.) By using Longley-Rice, as demonstrated by Figure 3C, co-channel interference to K55CW is not predicted to result from the proposed facility.

Regarding KUVI-DT, Bakersfield, CA, Channel 55d

11. In accordance with 47 C.F.R. Section 74.706(d)(1), a co-channel DTV UHF station is protected to a C/I ratio of 21 dB. As demonstrated by Figure 4A, attached, the 20 dBu (F50,10) interference contour for the proposed facility will overlap with the 41 dBu (F50,90) noise-limited service contour of KUVI-DT. (Figure 4B is a tabulation of the KUVI-DT service contour.)

12. Using the service and interference contours, interference is predicted to result; however, the FCC allows for the use of Longley-Rice in order to demonstrate that interference will not be caused to a DTV station. Using Longley-Rice, as demonstrated by Figure 4C, co-channel interference to KUVI-DT from the proposed facility is determined as follows:

Total Population within KUVI-DT Noise-Limited Service Contour:	722,780
Total Interference Population within KUVI-DT NL Service Contour:	0
Percent Interference Population within KUVI-DT NL Service Contour:	0.0%

As shown above, using Longley-Rice, no predicted interference is caused to KUVI-DT. (See paragraph 10, above, and Section III, below, for a discussion of Longley-Rice.)

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Regarding KFMB-DT, San Diego, CA, Channel 55d

13. In accordance with 47 C.F.R. Section 74.706(d)(1), a co-channel DTV UHF station is protected to a C/I ratio of 21 dB. As demonstrated by Figure 5A, attached, the 20 dBu (F50,10) interference contour for the proposed facility will overlap with the Grade B Service Contour of KFMB-TV (which is used as the noise-limited service contour of KFMB-DT). (Figure 5B is a tabulation of the KFMB-DT service contour.)

14. Using the service and interference contours, interference is predicted to result; however, the FCC allows for the use of Longley-Rice in order to demonstrate that interference will not be caused to a DTV station. Using Longley-Rice, as demonstrated by Figure 5C, co-channel interference to KFMB-DT from the proposed facility is determined as follows:

Total Population within KFMB-DT Noise-Limited Service Contour:	3,381,810
Total Interference Population within KFMB-DT NL Service Contour:	16,192
Percent Interference Population within KFMB-DT NL Service Contour:	0.48%

As shown above, using Longley-Rice, the predicted amount of interference caused to KFMB-DT is below the *de minimus* interference standard allowed to DTV stations. (See paragraph 10, above, and Section III, below, for a discussion of Longley-Rice.)

Regarding K55AB, Indian Wells, CA, LPTV Channel 55n

15. K55AB has a CP for channel 35, and once displaced to this channel, will no longer require protection from the herein proposed channel 55 facility. Furthermore, at a distance of 143 kilometers away from Mt. Wilson, the K55AB licensed facility is too far away to receive any potential co-channel interference if precision frequency offset were to exist. (In accordance with 47 C.F.R. Section 74.707(d)(1), a co-channel UHF LPTV station is protected to a C/I ratio that is no less than 28 dB for offset carrier frequency operation.) If deemed necessary, EICB-TV will bear will costs to install minus or zero precision frequency offset to the K55AB channel 55 facility in order to avoid co-channel interference to K55AB (while continues operation on channel 55).

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Regarding KTBN-TV (40z), KAZA-TV (54z) and KDOC-TV (56-)

16. In accordance with 47 C.F.R. Section 74.705(d)(4), an adjacent-channel UHF TV station is protected to a C/I ratio that is no less than -15 dB. In accordance with 47 C.F.R. Section 74.705(d)(6), a UHF TV station located 15 channels below the proposed is protected to a C/I ratio that is no less than -6 dB. The proposed facility is nearly collocated with these three TV stations, and (being low power) will transmit with much less ERP than the stations listed above in any given direction. KTBN-TV, KAZA-TV and KDOC-TV will be adequately protected by this proposal.

Regarding KRCA, Riverside, CA, TV Channel 62z

17. The proposed facility will be nearly collocated with the KRCA channel 62z analog TV station. Receive local oscillator radiation interference is practically non-existent from TV models after 1983 and no interference is predicted to result by viewers of this low-powered facility. (Any actual interference resulting to receivers of KRCA channel 62z from any nearby TVs tuned to channel 55+ will be less than the 0.5% *de minimus* interference standard allowed to DTV stations.) If deemed necessary by the FCC, a waiver request regarding protection to KRCA will be requested.

III. DESCRIPTION OF LONGLEY-RICE STUDIES

18. 47 C.F.R. Sections 74.705(e), and 74.707(e) allow for the use of Longley-Rice in order to demonstrate protection to TV broadcast analog stations and LPTV stations, respectively. Furthermore, Paragraph 105 of the FCC's *In the Matter of Amendment of Parts 73 and 74 of the Commission's Rules for Digital Low Power Television, Television Translator, and Television Booster Stations and to Amend Rules for Digital Class A Television Stations - Report and Order (FCC 04-220, released September 30, 2004)* states that the use of Longley-Rice is permitted as an optional showing for processing analog LPTV (and TV translator and TV booster) stations to all

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protected TV stations (primary, secondary, digital or analog) without requiring a waiver. (Previously, a waiver request was necessary in order to demonstrate protection using the Longley-Rice Methodology.)

19. EDX Engineering, Inc.'s computer software program MSITE™ includes the Longley-Rice version 1.2.2 model; and the MSITE™ program is used to conduct the Longley-Rice studies which are included with this application. With the exception of not being able to identify and use population centroids, the procedures and parameters specified by the FCC's OET Bulletin No. 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference* (dated July 2, 1997) are used by the MSITE™ program. (This will have no significant effect on the study results.) The grid size for each study is two kilometer spacing (the spacing used by the FCC) or less. (For protection to LPTV, TV translator and TV booster stations, the grid size used is one kilometer or less.)

20. The software is limited to a study distance of 399 kilometers; therefore, in some instances, the study is truncated at 399 kilometers from the proposed transmitter site. Interference is not predicted to result beyond 399 kilometers from the proposed LPTV transmitter site. Furthermore, any contour overlap area is located completely within 399 kilometers; and, therefore, the contour overlap area is completely studied.

21. For each Longley-Rice study, the dipole factor adjustment specified by OET Bulletin No. 69 is applied to both the point-to-point evaluation and the contour distances. Also, USGS three arc-second terrain data is used. The product of each study is a map which identifies those examined points of the study-grid (within the protected station's applicable service, Grade B or noise-limited contour) which are above or below the C/I protection requirement. (For the included studies, all C/I results are above the required protection standards.)

22. As allowed by OET Bulletin No. 69, only those grid points which are predicted to receive a field strength from the desired station that is above the threshold

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for reception are considered. The MSITE™ output exhibits of this application show the threshold of reception as the corresponding minimum allowed receive power.

23. As with most complicated computer propagation models, much of the underlying data of each study cannot be easily generated or reported in text form. To the extent possible, if requested by the FCC, additional data regarding the Longley-Rice studies will be provided.

IV. CHANNEL PRECLUSION STUDY FOR LANCASTER AREA

24. The ability to displace to another TV channel in the Lancaster area has also been examined; and it's been determined that no TV channel (2 through 68) is available to any transmitter site located within 16 kilometers of the licensed KTAV-LP transmitter site. (While channel 69 may be available, this is not deemed an acceptable choice due to the reallocation of the channel 60 through 69 frequency spectrum to the Public Safety Communications Service.) For each TV channel, Table 3, attached, lists one or more co-channel or first-adjacent-channel station (TV, DTV or LPTV) that precludes the use of the channel in Lancaster. As shown by Table 3, no channels are available. (Note: other existing stations than those listed in Table 3 may also preclude the use of a channel; Table 3 only lists those stations that are deemed most objectionable to any particular channel's use.)

25. Most TV channels have main co-channel TV or DTV stations located within 85 kilometers of the licensed KTAV-LP site. Any such channel is automatically deemed unacceptable. Because of the numerous main TV and DTV stations located at the Mt. Wilson site (located approximately 38 kilometers south-southeast of the licensed KTAV-LP site), an LPTV operating in the Lancaster area will likely cause interference, or, just as importantly, **receive** interference from a high-powered operation that transits from Mt. Wilson. The only preventative means available to operate near these high-powered services without causing interference (above the

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0.5% *de minimus* interference standard) or receiving interference is to collocate at Mt. Wilson on an available channel. This is the solution taken by EICB-TV in making this application for channel 55+ at the Mt. Wilson site.

**Delawder Communications, Inc.
Alexandria, VA**

Table 1, Page 1 of 2
Wednesday, March 23, 2005

Dataworld LPTV/TV Translator Interference Study

Title: Altadena, CA

Channel: 55 Offset: Unspecified (716-722 MHz) Analog
Database: FCC 3/22/2005 8:04:00 PM

Latitude: N 34° 13' 36.0"
Longitude: W 118° 03' 57.0"
Safety Zone: 32.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Zone	HAMSL(m)	(kW)	Longitude	-from	(km)
KTBN-TV	LIC	TRINITY BROADCASTING NETWORK, IN	40 o	881.0	631	N 34° 13' 27.0"	129.9	0.433	
SANTA ANA		CA	BLCT-19830418KH	II	1780.0	W 118° 03' 44.0"	309.9		

DeLawder Note: Nearly collocated; Attached study shows adequate protection; See Engineering Statement

KTBN1	LIC	TRINITY BROADCASTING NETWORK	40 +		0.45	N 34° 13' 55.0"	89.3	76.71	
LAKE ARROWHEAD		CA	BLUB-20000612AAH		1890.0	W 117° 14' 00.0"	269.8		

DA: SCA CL-1483 @ 30.0°; **Calculated HAAT: 762 m**

DeLawder Note: Too far away; No interference study is required

KAZA-TV	CP	PAPPAS SOUTHERN CALIFORNIA LICEN	54 o	934.0	2323	N 34° 13' 37.0"	0.0	0.031	
AVALON		CA	BXPCT-20030527AEH	II	1826.0	W 118° 03' 57.0"	180.0		

DA: PSI PSIUP8-54 @ 225.0°

DeLawder Note: Nearly collocated; Attached study shows adequate protection; See Engineering Statement

KAZA-TV	LIC	PAPPAS SOUTHERN CALIFORNIA LICEN	54 o	997.0	2290	N 34° 13' 35.0"	219.6	0.040	
AVALON		CA	BLCT-20010712AGN	II	1853.0	W 118° 03' 58.0"	39.6		

DA: AND ATW30H8-HTC2-54H @ 0.0°

DeLawder Note: Nearly collocated; Attached study shows adequate protection; See Engineering Statement

KRPE-LP	APP	VENTURE TECHNOLOGIES GOUP, LLC	55		1.57	N 33° 58' 09.0"	111.5	77.46	
BANNING		CA	BMP TTL-20041119ABJ		921.0	W 117° 17' 08.0"	291.9		

DA: ANT RD16UR @ 70.0°; **Calculated HAAT: 483 m**

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

K55CW	LIC	VICTOR VALLEY PUBLIC TRANSL., IN	55		1.28	N 34° 36' 39.0"	58.9	83.35	
VICTORVILLE, ETC.		CA	BLTTL-19810630IP		1390.0	W 117° 17' 12.0"	239.4		

DA: SCA SL-8 @ 195.0°; **Calculated HAAT: 473 m**

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

K46GC	CP	SEATTLE STREAMING RADIO, LLC	55 -		40	N 34° 24' 45.0"	281.7	105.2	
SANTA BARBARA		CA	BPTTL-20040630ABG		873.0	W 119° 11' 11.0"	101.0		

DA: PSI PSILP16BE @ 195.0°; **Calculated HAAT: 390 m**

DeLawder Note: Consent provided; No interference study is required

KRPE-LP	CP	VENTURE TECHNOLOGIES GOUP, LLC	55		8.5	N 34° 03' 46.0"	99.3	109.7	
BANNING		CA	BMP TTL-20040326AKT		2813.0	W 116° 53' 34.0"	279.9		

DA: ANT ACS4CR @ 280.0°; **Calculated HAAT: 1106 m**

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

K55AB	LIC	INDIAN WELLS VALLEY TV BOOSTER,	55		4.57	N 35° 28' 47.0"	14.0	143.4	
RIDGECREST, ETC.		CA	BLTT-19970410JA		1362.0	W 117° 40' 56.0"	194.2		

DA: LIN ODD1ZZR @ 0.0°; **Calculated HAAT: 408 m**

DeLawder Note: Adequate protection discussed in Engineering Statement

KUVI-TV	LIC	KUVI LICENSE PARTNERSHIP, G.P.	55	387.0	250	N 35° 26' 20.0"	335.7	147.9	
BAKERSFIELD		CA	BLCDT-20020906ABI	II	1100.0	W 118° 44' 24.0"	155.3		

Digital channelDA: AND ATW18H3-ESCX-55S @ 0.0°

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

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Latitude: N 34° 13' 36.0"
 Longitude: W 118° 03' 57.0"
 Safety Zone: 32.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Zone	HAMSL(m)	(kW)	Longitude	-from	(km)

K55FI	LIC	PSTV PARTNERS, LLC	55		1.88	N 33° 32' 45.0"	116.7	166.0	
PALM DESERT, ETC.		CA	BLTT-19891227IR		2288.0	W 116° 28' 06.0"	297.6		

DA: BOG B4UC @ 20.0°; **Calculated HAAT: 968 m**

DeLawder Note: Too far away; No interference study is required; (Also, has CP for displacement to channel 9)

KFMB-TV	LIC	MIDWEST TELEVISION, INC.	55	208.0	703	N 32° 50' 17.0"	153.7	171.7	
SAN DIEGO		CA	BLCDT-20000302AAK	II	290.0	W 117° 14' 57.0"	334.1		

Digital channelDA: DIE TFU-30DSC C170 @ 0.0°

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

KFMB-TV	CP	MIDWEST TELEVISION, INC.	55	208.0	1000	N 32° 50' 17.0"	153.7	171.7	
SAN DIEGO		CA	BPCDT-20000501ADY	II	290.3	W 117° 14' 57.0"	334.1		

Digital channelDA: DIE TFU-30DSC C170 @ 0.0°

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

KMSG-LP	LIC	GARY M. COCOLA FAMILY TRUST, GAR	55 o		46.6	N 36° 44' 45.0"	338.9	300.5	
FRESNO		CA	BLTTL-20030310BAN		1054.3	W 119° 16' 57.0"	158.2		

DA: ANT ACS20CR @ 255.0°; **Calculated HAAT: 651 m**

DeLawder Note: Too far away; No interference study is required

KDOC-TV	CP	GOLDEN ORANGE BROADCASTING CO.,	56 -	927.0	2450	N 34° 13' 36.0"	270.0	0.026	
ANAHEIM		CA	BMPCT-20040128AHX	II	1816.0	W 118° 03' 58.0"	90.0		

DA: RFS RD-20 @ 0.0°

DeLawder Note: Nearly collocated; Attached study shows adequate protection; See Engineering Statement

KDOC-TV	LIC	GOLDEN ORANGE BROADCASTING CO.,	56 -	922.0	2390	N 34° 13' 36.0"	270.0	0.026	
ANAHEIM		CA	BLCT-20021213ABJ	II	1812.0	W 118° 03' 58.0"	90.0		

DA: AND 30E5 @ 0.0°

DeLawder Note: Nearly collocated; Attached study shows adequate protection; See Engineering Statement

KRCA	LIC	KRCA LICENSE CORP.	62 o	895.0	2630	N 34° 12' 50.0"	163.0	1.483	
RIVERSIDE		CA	BLCT-20020308ABC	II	1696.0	W 118° 03' 40.0"	343.0		

DA: DIE TFU-29JSC/VP-R 3C17OP @ 0.0°

DeLawder Note: Attached study shows adequate protection; See Engineering Statement

>> End of channel 55 study <<

TABLE 2A - Altadena, CA F50,50 CONTOURS

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 1780 mtrs Average HAAT: 915 mtrs

Frequency: 731.0000 MHz

Coordinates: N 34 13 36.00 W 118 3 57.00

F(50,50) Curves Number of Contours: 5 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu):				
			89.0	80.0	79.0	74.0	70.0
0.0	366	8.3896	10.6	19.2	20.4	26.5	32.0
15.0	357	6.3057	9.7	17.5	18.7	24.7	29.9
30.0	272	3.0732	7.1	12.3	13.1	18.3	23.1
45.0	353	1.1875	5.9	10.8	11.5	16.0	20.7
60.0	637	0.3602	4.2	9.4	10.2	14.9	19.8
75.0	876	0.0084	<0.1	2.0	2.2	3.8	5.7
90.0	617	0.0010	<0.1	<0.1	<0.1	<0.1	2.1
105.0	851	0.0010	<0.1	<0.1	<0.1	<0.1	2.2
120.0	1071	0.0010	<0.1	<0.1	<0.1	<0.1	2.2
135.0	1352	0.0010	<0.1	<0.1	<0.1	<0.1	2.2
150.0	1444	0.0010	<0.1	<0.1	<0.1	<0.1	2.2
165.0	1472	0.1413	2.9	7.7	8.6	13.9	19.8
180.0	1475	0.7822	6.6	15.9	17.4	25.2	32.0
195.0	1480	2.3275	10.7	23.2	24.8	33.4	40.8
210.0	1455	5.0294	14.6	28.5	30.3	39.4	46.8
225.0	1431	8.0455	17.5	32.0	33.8	42.9	50.3
240.0	1290	9.9800	18.5	32.7	34.4	43.3	50.5
255.0	1202	8.0455	16.8	30.5	32.1	40.8	47.8
270.0	960	5.0294	13.4	25.5	26.9	34.7	41.2
285.0	709	2.3275	9.0	18.3	19.5	26.1	31.9
300.0	646	1.6771	7.8	15.8	17.0	23.3	28.7
315.0	562	3.9599	10.2	19.4	20.6	27.0	32.8
330.0	548	7.7262	12.5	22.7	24.0	30.8	37.1
345.0	544	9.1565	13.2	23.6	24.9	31.8	38.1

TABLE 2B - Altadena, CA F50,10 CONTOURS

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 1780 mtrs Average HAAT: 915 mtrs

Frequency: 731.0000 MHz

Coordinates: N 34 13 36.00 W 118 3 57.00

F(50,10) Curves Number of Contours: 5 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu):				
			46.0	36.0	29.0	20.0	19.0
0.0	366	8.3896	86.7	128.3	166.2	217.6	223.4
15.0	357	6.3057	81.5	121.0	158.8	209.3	215.1
30.0	272	3.0732	64.3	96.4	132.1	181.1	187.2
45.0	353	1.1875	62.0	90.5	119.3	167.7	172.8
60.0	637	0.3602	64.2	92.5	122.7	163.6	168.4
75.0	876	0.0084	36.2	56.3	73.3	104.0	108.2
90.0	617	0.0010	18.0	32.7	45.7	64.6	66.9
105.0	851	0.0010	20.7	37.2	51.1	71.9	74.6
120.0	1071	0.0010	22.6	40.3	54.9	77.4	80.6
135.0	1352	0.0010	24.7	43.5	59.2	84.6	88.4
150.0	1444	0.0010	25.3	44.4	60.6	86.9	90.7
165.0	1472	0.1413	73.1	110.3	142.3	183.6	188.4
180.0	1475	0.7822	99.4	144.4	176.3	220.4	225.6
195.0	1480	2.3275	120.2	166.1	199.3	246.3	252.2
210.0	1455	5.0294	134.9	180.7	214.9	265.1	271.0
225.0	1431	8.0455	143.6	189.4	224.5	276.2	282.0
240.0	1290	9.9800	142.9	188.0	223.7	276.2	282.1
255.0	1202	8.0455	135.7	180.2	215.0	267.5	273.2
270.0	960	5.0294	116.0	160.0	193.7	244.5	251.0
285.0	709	2.3275	89.5	132.7	163.8	211.8	217.4
300.0	646	1.6771	82.0	121.9	152.7	199.1	205.4
315.0	562	3.9599	90.2	131.9	165.1	215.4	220.9
330.0	548	7.7262	100.5	143.6	178.9	230.7	236.5
345.0	544	9.1565	103.2	146.7	182.5	234.7	240.5

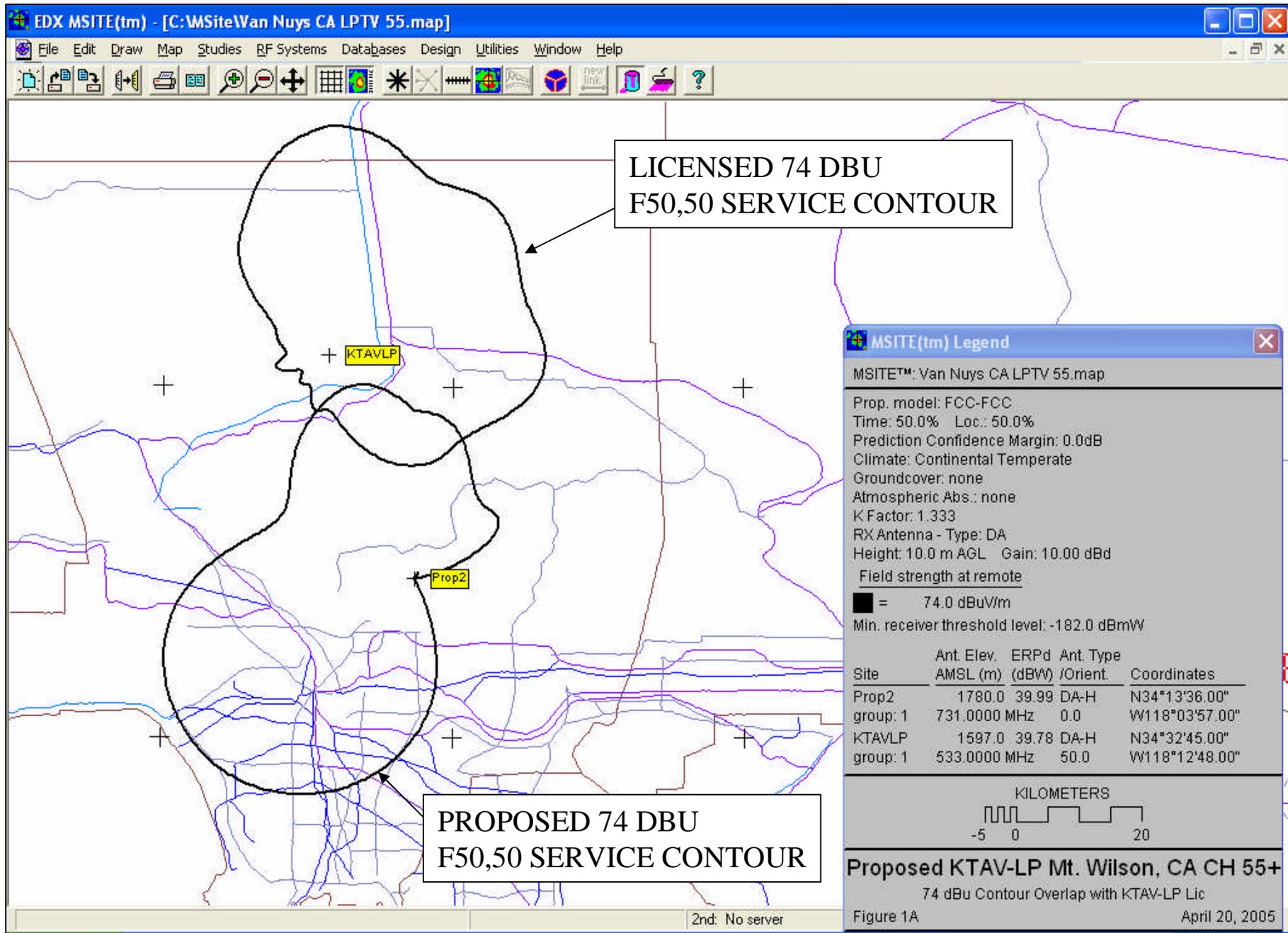


FIGURE 1B - KTAV-LP, LANCASTER, CA LIC (24+) F50,50 CONTOUR

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 1597 mtrs Average HAAT: 639 mtrs

Frequency: 533.0000 MHz

Coordinates: N 34 32 45.00 W 118 12 48.00

F(50,50) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 74.0
0.0	765	9.5000	36.2
15.0	785	7.4286	34.9
30.0	790	4.8870	32.1
45.0	778	7.5128	34.8
60.0	760	6.8036	33.8
75.0	743	5.5632	32.2
90.0	681	8.6698	34.1
105.0	520	8.8523	31.1
120.0	423	5.1774	25.4
135.0	540	2.3860	23.7
150.0	617	0.9492	19.8
165.0	651	0.2651	13.6
180.0	660	0.0753	8.9
195.0	688	0.0770	9.1
210.0	709	0.0247	5.9
225.0	711	0.0298	6.4
240.0	722	0.0176	5.2
255.0	709	0.0655	8.6
270.0	574	0.0402	6.9
285.0	376	0.1150	8.4
300.0	309	0.3879	10.9
315.0	505	1.3297	20.0
330.0	606	3.0885	26.2
345.0	715	6.6120	32.8

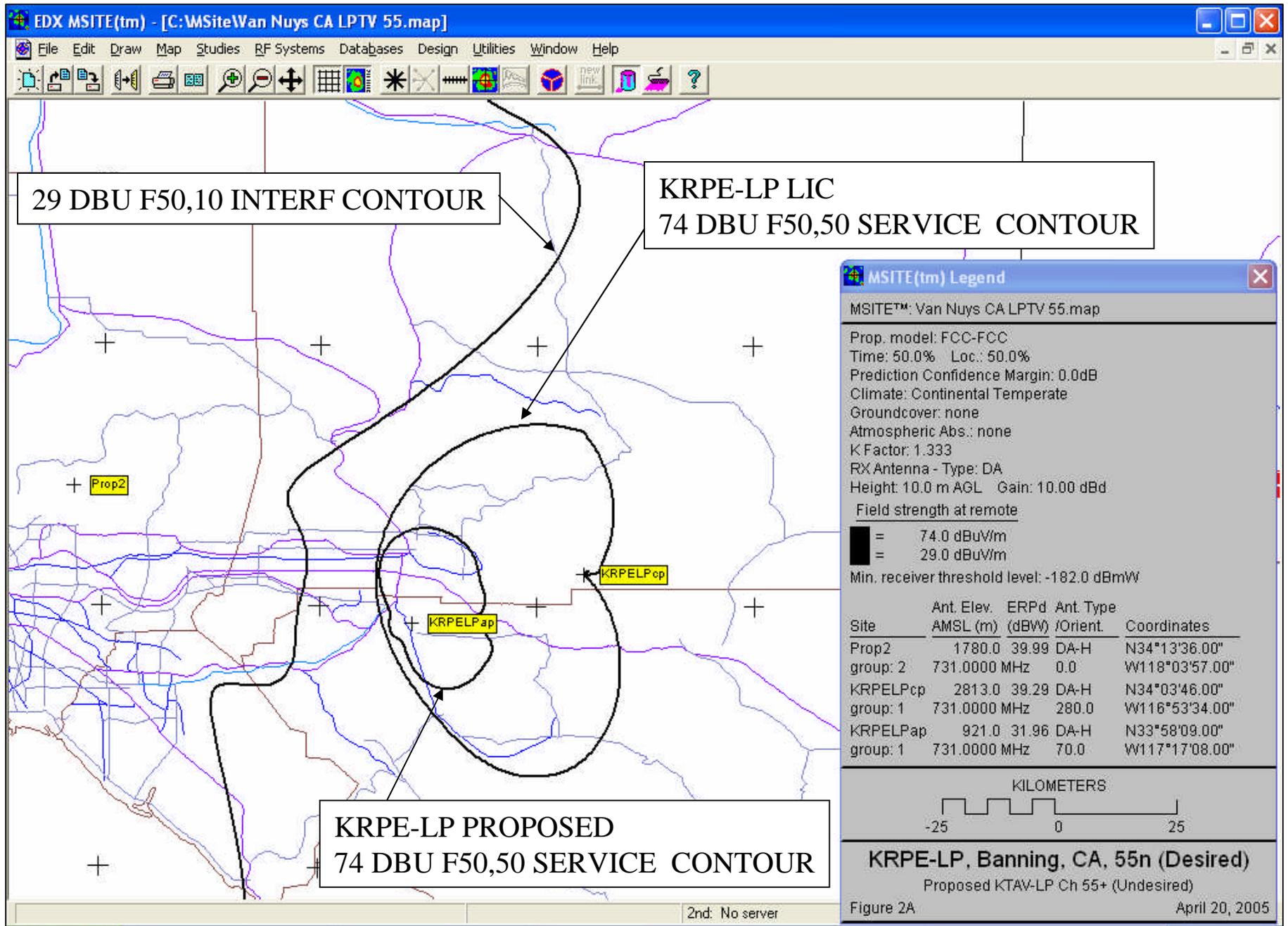


FIGURE 2B - KRPE-LP, BANNING, CA CP F50,50 CONTOUR

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 2813 mtrs Average HAAT: 1109 mtrs

Frequency: 731.0000 MHz

Coordinates: N 34 3 46.00 W 116 53 34.00

F(50,50) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 74.0
0.0	511	7.9899	30.2
45.0	136	0.3397	7.3
90.0	797	0.0034	2.5
135.0	1378	0.0034	2.6
180.0	1744	4.8405	39.5
225.0	1693	7.9570	43.6
270.0	1559	8.1555	43.8
315.0	1050	7.0166	38.1

FIGURE 2C - KRPE-LP, BANNING, CA APP F50,50 CONTOUR

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 921 mtrs Average HAAT: 487 mtrs

Frequency: 731.0000 MHz

Coordinates: N 33 58 9.00 W 117 17 8.00

F(50,50) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 74.0
0.0	567	1.0559	19.8
15.0	532	1.3292	20.5
30.0	480	1.5082	20.2
45.0	425	1.4928	18.9
60.0	344	1.4472	16.8
75.0	309	1.5082	16.0
90.0	248	1.4776	13.9
105.0	363	1.5082	17.5
120.0	391	1.4173	17.8
135.0	421	1.1480	17.5
150.0	442	0.8141	16.2
165.0	450	0.4246	13.4
180.0	434	0.1231	9.1
195.0	423	0.0308	5.7
210.0	438	0.0157	4.5
225.0	500	0.0157	4.6
240.0	594	0.0157	4.8
255.0	638	0.0157	4.8
270.0	652	0.0157	4.8
285.0	651	0.0157	4.8
300.0	605	0.0226	5.6
315.0	617	0.0760	8.8
330.0	584	0.3040	13.7
345.0	581	0.6840	17.7

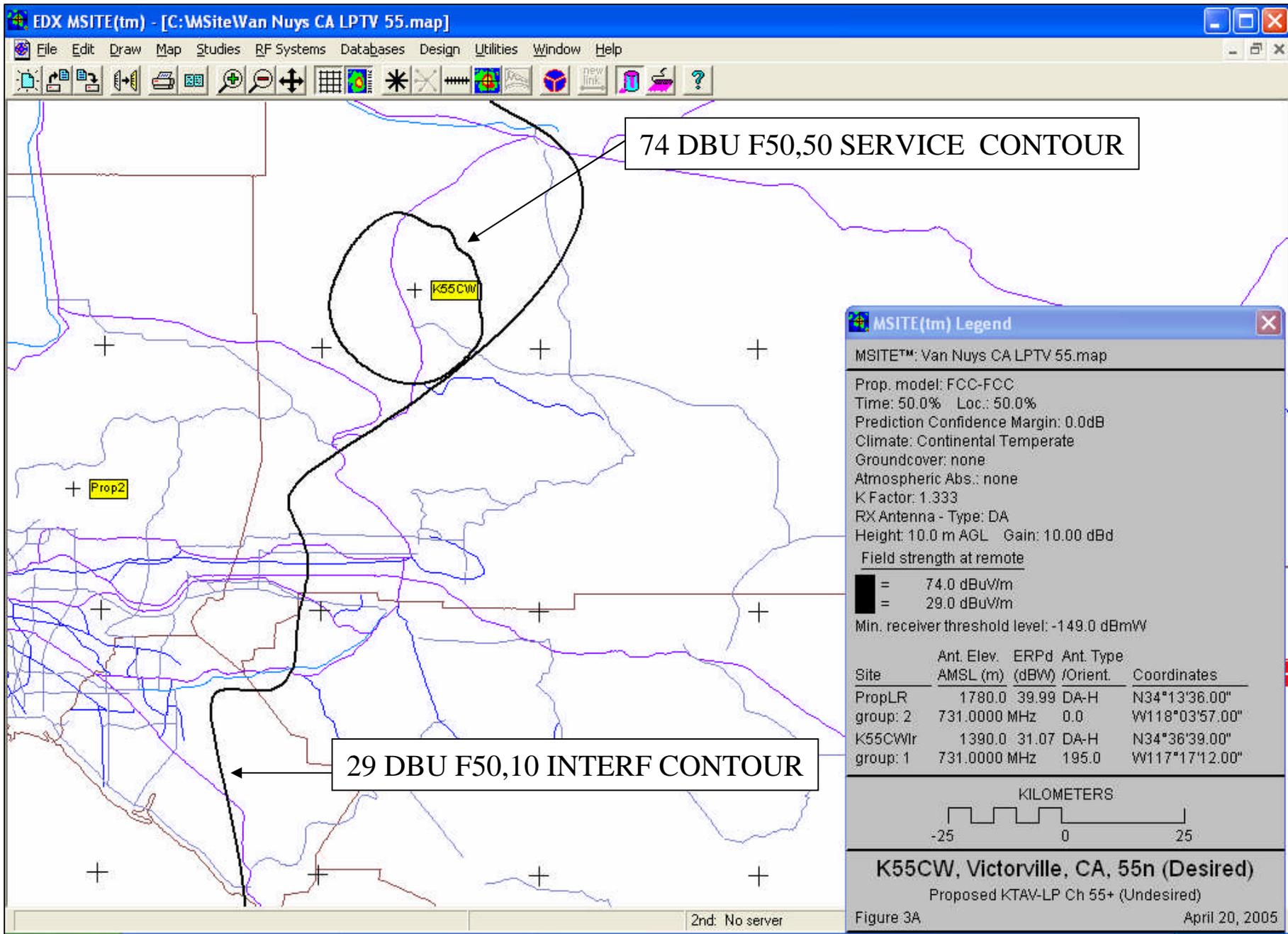


FIGURE 3B - K55CW, VICTORVILLE, CA F50,50 CONTOUR

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

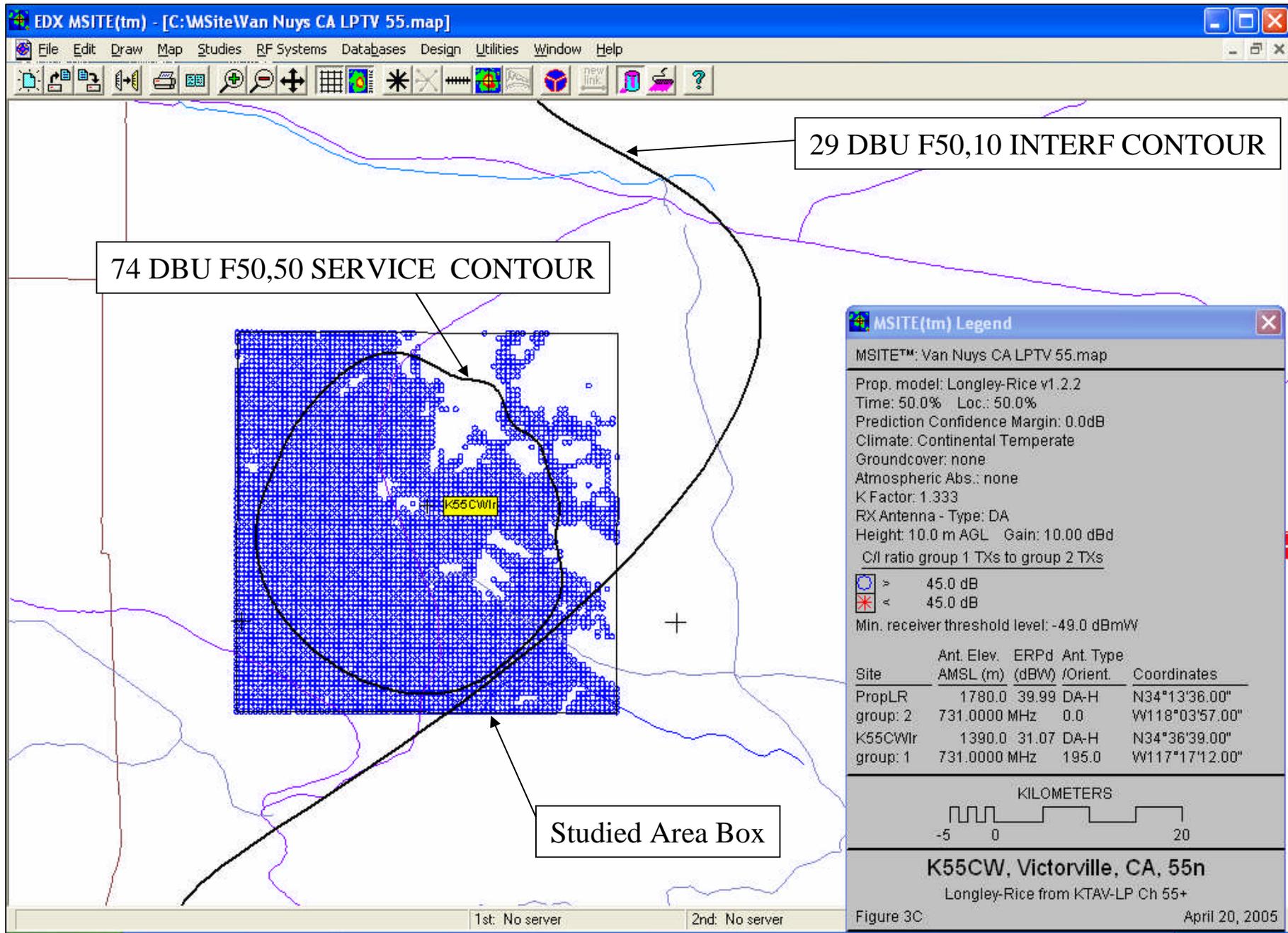
Antenna COR elevation (AMSL): 1390 mtrs Average HAAT: 477 mtrs

Frequency: 731.0000 MHz

Coordinates: N 34 36 39.00 W 117 17 12.00

F(50,50) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 74.0
0.0	446	0.6359	15.1
15.0	370	0.6632	13.8
30.0	411	0.6180	14.3
45.0	330	0.5743	12.5
60.0	394	0.5323	13.4
75.0	393	0.5240	13.3
90.0	421	0.5489	14.0
105.0	401	0.6091	14.1
120.0	474	0.7487	16.5
135.0	475	0.9244	17.6
150.0	476	1.0595	18.3
165.0	511	1.1791	19.5
180.0	525	1.2413	20.0
195.0	502	1.2800	19.8
210.0	491	1.2539	19.5
225.0	495	1.2038	19.3
240.0	506	1.0947	19.1
255.0	527	0.9244	18.5
270.0	540	0.7293	17.5
285.0	539	0.5916	16.4
300.0	551	0.5489	16.2
315.0	563	0.5405	16.2
330.0	567	0.5743	16.6
345.0	539	0.6091	16.6



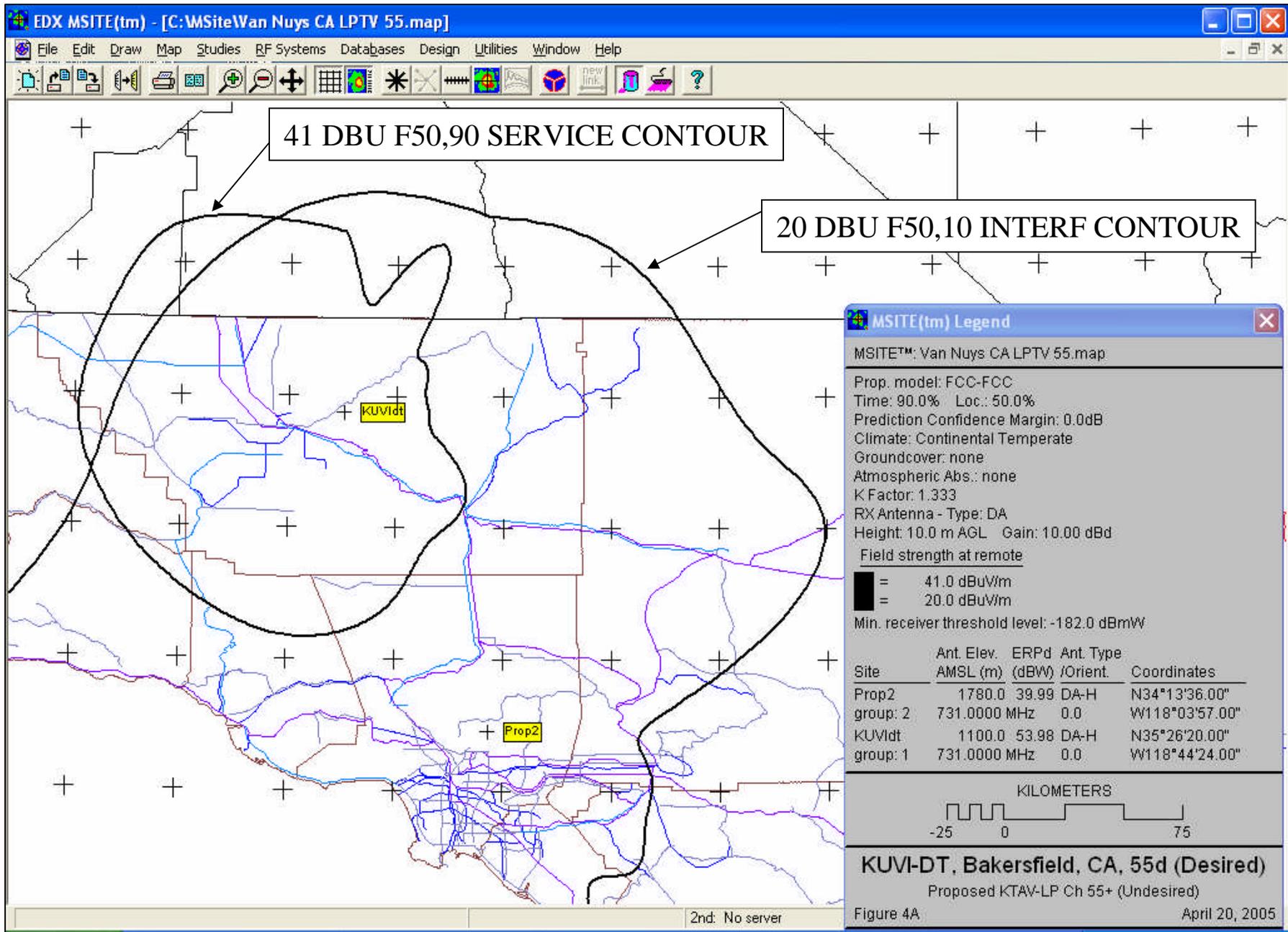


FIGURE 4B - KUVI-DT, BAKERSFIELD, CA F50,90 NL CONTOUR

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

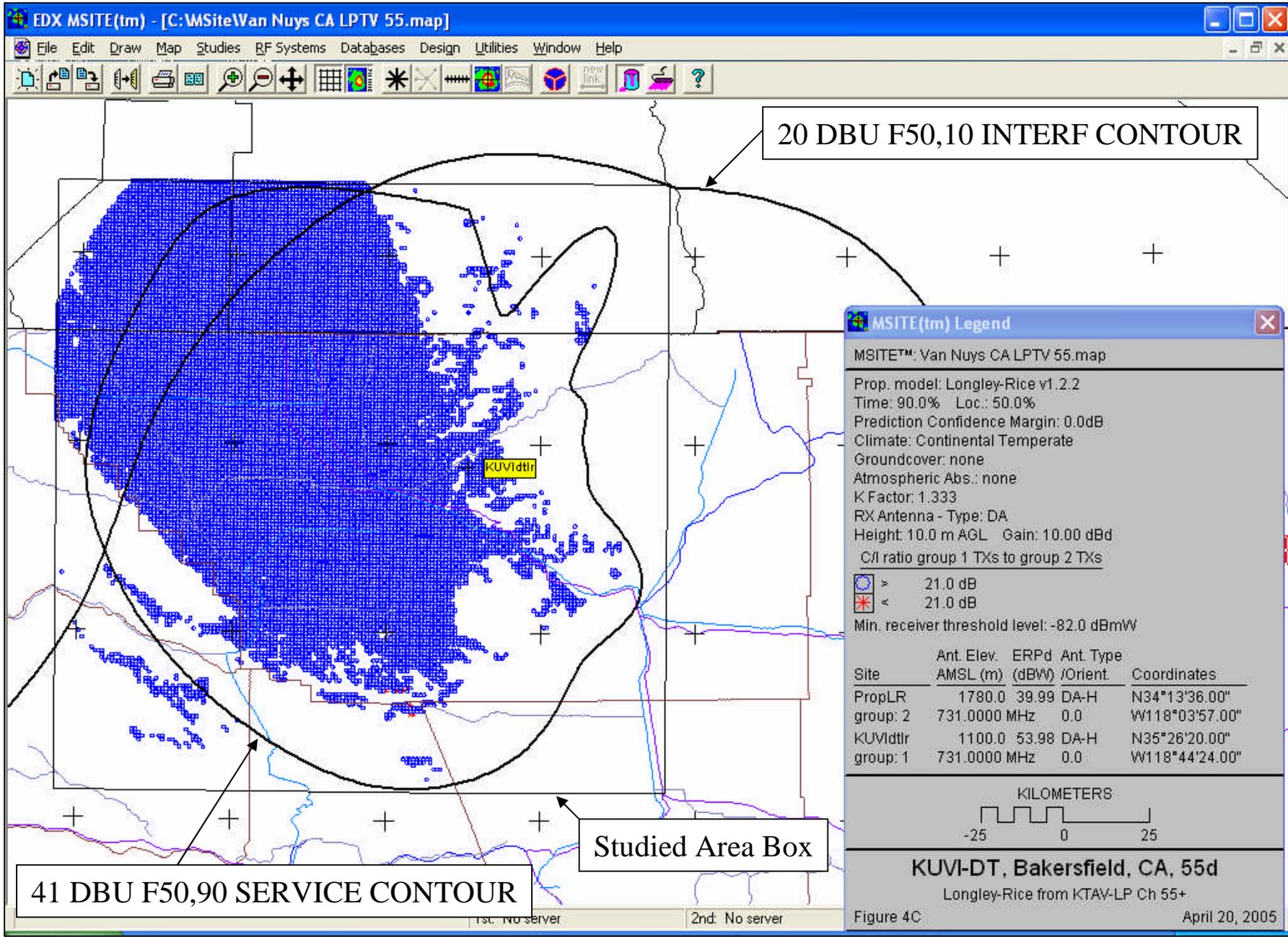
Antenna COR elevation (AMSL): 1100 mtrs Average HAAT: 376 mtrs

Frequency: 731.0000 MHz

Coordinates: N 35 26 20.00 W 118 44 24.00

F(50,90) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 41.0
0.0	252	155.2574	76.1
15.0	5	97.6697	47.2
30.0	378	56.4140	81.9
45.0	42	31.3333	46.5
60.0	-231	14.8860	39.4
75.0	-455	6.0071	35.4
90.0	-394	6.2419	35.6
105.0	-67	16.6433	39.8
120.0	131	25.1257	59.0
135.0	247	17.1634	65.0
150.0	367	6.7249	67.2
165.0	572	13.5741	82.2
180.0	651	33.3108	92.7
195.0	728	43.8963	97.8
210.0	756	46.0166	99.1
225.0	778	51.5361	100.9
240.0	806	69.7056	104.6
255.0	844	98.2958	109.0
270.0	868	126.3977	112.2
285.0	745	153.6852	109.6
300.0	668	189.2512	108.3
315.0	614	230.4318	107.7
330.0	422	250.0000	95.2
345.0	295	216.7202	83.0



20 DBU F50,10 INTERF CONTOUR

41 DBU F50,90 SERVICE CONTOUR

Studied Area Box

MSITE(tm) Legend

MSITETM: Van Nuys CA LPTV 55.map

Prop. model: Longley-Rice v1.2.2
 Time: 90.0% Loc.: 50.0%
 Prediction Confidence Margin: 0.0dB
 Climate: Continental Temperate
 Groundcover: none
 Atmospheric Abs.: none
 K Factor: 1.333
 RX Antenna - Type: DA
 Height: 10.0 m AGL Gain: 10.00 dBd
 C/I ratio group 1 TXs to group 2 TXs

> 21.0 dB
 < 21.0 dB

Min. receiver threshold level: -82.0 dBmW

Site	Ant. Elev. AMSL (m)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
PropLR group: 2	1780.0	39.99	DA-H	N34°13'36.00" W118°03'57.00"
KUVIdtir group: 1	1100.0	53.98	DA-H	N35°26'20.00" W118°44'24.00"

KILOMETERS

-25 0 25

KUVI-DT, Bakersfield, CA, 55d
 Longley-Rice from KTAV-LP Ch 55+

Figure 4C April 20, 2005

1st: No server 2nd: No server

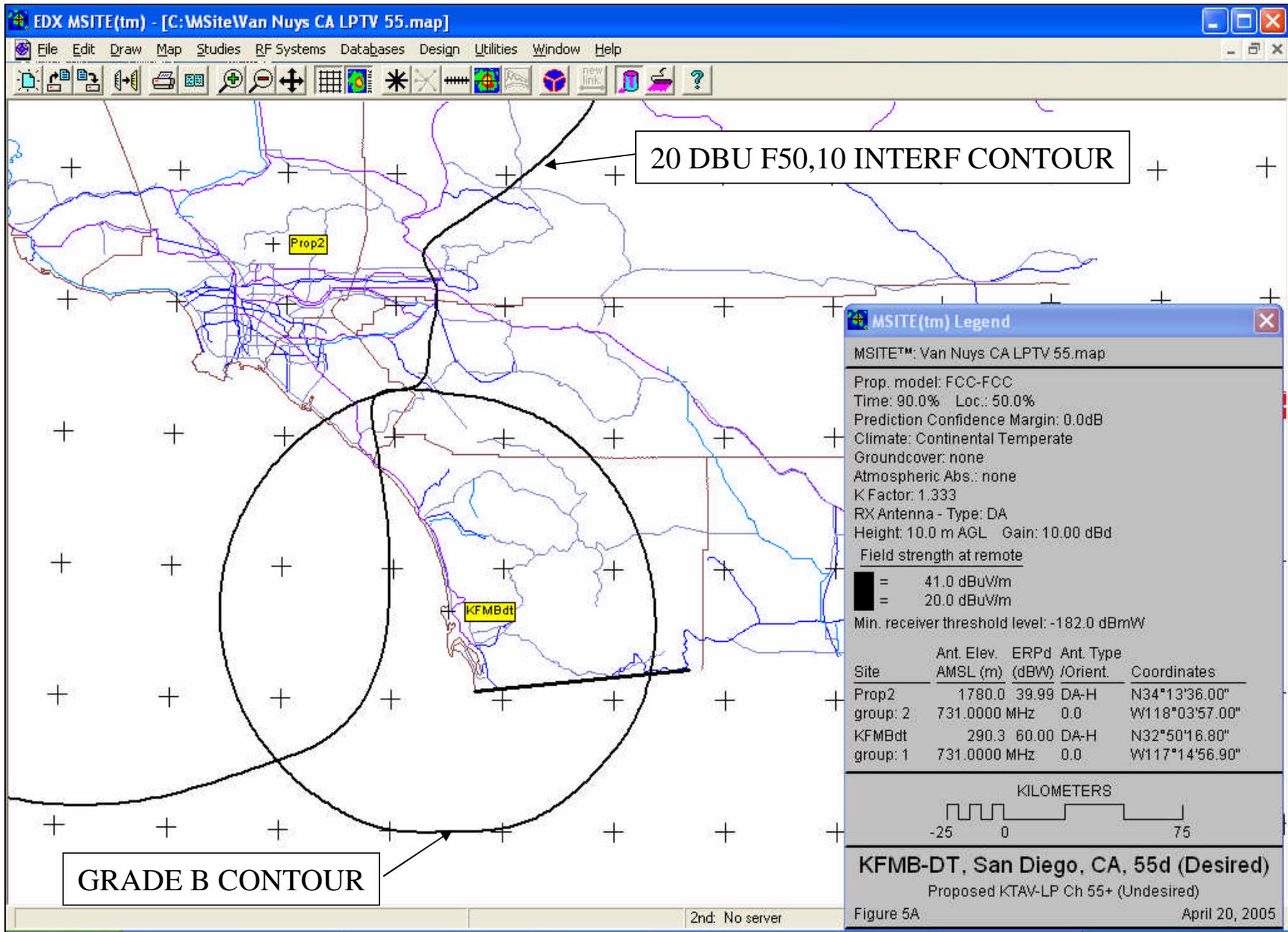


FIGURE 5B - KFMB-DT, BAKERSFIELD, CA GRADE B CONTOUR OF ANALOG MAIN

DATE: April 20, 2005

DISTANCES TO CONTOURS (Kilometers):

Antenna COR elevation (AMSL): 309 mtrs Average HAAT: 268 mtrs

Frequency: 183.0000 MHz

Coordinates: N 32 50 17.00 W 117 14 57.00

F(50,50) Curves Number of Contours: 1 2

AZ (degs)	HAAT (m)	ERPd (kW)	CONTOUR LEVELS (dBu): 56.0
0.0	244	316.0000	91.6
15.0	235	316.0000	90.9
30.0	226	316.0000	90.1
45.0	207	316.0000	88.4
60.0	193	316.0000	87.2
75.0	188	316.0000	86.7
90.0	198	316.0000	87.6
105.0	216	316.0000	89.2
120.0	237	316.0000	91.1
135.0	248	316.0000	91.9
150.0	283	316.0000	94.1
165.0	296	316.0000	94.9
180.0	275	316.0000	93.6
195.0	308	316.0000	95.9
210.0	309	316.0000	96.0
225.0	309	316.0000	96.0
240.0	309	316.0000	96.0
255.0	309	316.0000	96.0
270.0	309	316.0000	96.0
285.0	309	316.0000	96.0
300.0	309	316.0000	96.0
315.0	309	316.0000	96.0
330.0	309	316.0000	96.0
345.0	309	316.0000	96.0

