

KXDS(FM)
Santa Clara, UT
Proposed Minor Modification
Of Permitted Facility

CONTINGENT Application Overview:

The instant application is being filed contingently with an FCC Form 301 application filed by KBZB(FM) Santa Clara, UT (FCC Facility #78999) so that Construction Permit BPH-20070726AHG issued for KURR(FM) Indian Springs, NV (FCC Facility #164147) may be implemented in accordance with Section 307(b). The contingency is “one way” in that the KBZB(FM) application to change community from Santa Clara, UT, to Hurricane, UT, is contingent on the KXDS(FM) grant to replace the second permitted transmission service at Santa Clara, UT, but not likewise.¹

KXDS(FM) (FCC Facility ID# 173065) proposes to modify its currently Permitted Facilities using the following parameters:

Tech Box:

Channel:	217
Class:	C3
Antenna Coordinates:	N36-50-49, W113-29-28 (NAD 27)
ASRN:	1032820
Tower Height AMSL:	111.1 m
COR AMSL:	1930 m

¹ In BNP-20071231AAL, a new AM station (FCC Facility ID #161390) assigned to Santa Clara, UT, was granted. Although neither this new AM facility nor KBZB(FM) have commenced operations at Santa Clara, the applicant believes it is in the public interest to replace its own vacating service from the community although it is yet unbuilt.

COR AGL:	40 m
COR HAAT:	565 m
ERP:	0.38 kW
Directional Antenna:	Yes - see Exhibit 5

Antenna Site City-Grade Coverage:

Exhibit 1 demonstrates that the proposed facility's antenna site provides city grade coverage of KXDS(FM)'s proposed community of license – Santa Clara, UT. As can be seen in the Exhibit, 100% of Santa Clara's community boundaries are encompassed by the F(50,50) 60 dBu contour of the proposed facility. Also, no major terrain obstructions are located between the antenna site and the community.

Interference Study:

Exhibit 2 is a contour overlap study from the proposed KXDS(FM) antenna site. It notes that the proposed KXDS(FM) facility's contours would come near to, but do not prohibitively overlap the following facilities:

- KAIZ(FM) Mesquite, NV 216A (see BLED-20050630AGN)
- KSUU Cedar City, UT on 216C3 (see BLED-19850219KK)

Using the facilities proposed herein, KXDS(FM) 217C3 complies with the contour protection requirements of Section 73.509 towards KAIZ(FM) and KSUU. The attached contour overlap map in Exhibit 3 demonstrate that this application complies with the contour protection requirements of Section 73.509.

The proposed NCE facility on Channel 217C3 is located 71.11 km from the transmission facilities of ADMIN-6-TV6 Caliente, NV. Section 73.525 requires the minimum distance between a TV-6 and an NCE FM on Channel 217 to be 174 km. Therefore, the proposed NCE FM is shortspaced by 102.89 km. If the NCE FM and the TV-6 are not fully spaced under Section 73.525(a)(1), and the NCE FM is not co-located with the TV-6 in question, the Applicant is required to show that the interference area contains no more than 3,000 persons. Exhibit 4 is a map demonstrating that the NCE FM's proposed F(50,10) 76 dBu interfering contour does not overlap the F(50,50) 47 dBu protected contour of ADMIN-6-TV6. Therefore, the operation of the NCE is not expected to interfere with the reception of the TV-6 and complies with Section 73.525.

Downward Radiation Study (Measure Upon Construction)

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction of the proposed facility to ensure that any areas at ground level that exceed the Commission's exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or

shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

Existing Tower:

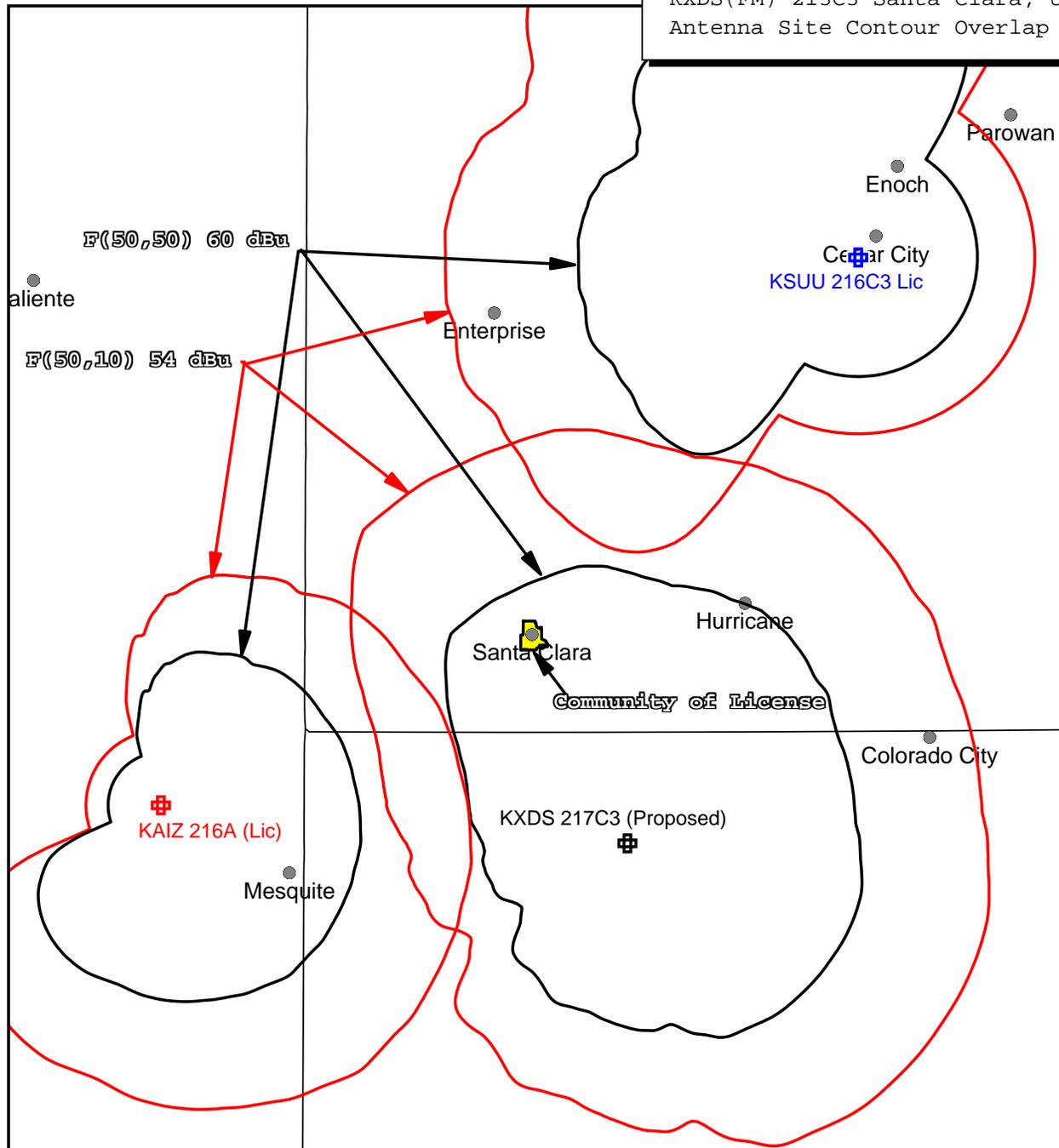
The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

Proposed Antenna Site Contour Map:

F(50,50) City-Grade Contour

KXDS(FM) 213C3 Santa Clara, UT
Antenna Site Contour Overlap Map



KXDS 217C3 (Proposed)
 Latitude: 36-50-49 N
 Longitude: 113-29-28 W
 ERP: 0.38 kW
 HAAT: 565.0 m
 Channel: 217 C3
 Frequency: 91.3 MHz
 AMSL Height: 1930.0 m
 Elevation: 1890.0 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: None



Exhibit 2

Section 73.509 Contour Overlap Tabulations

KXDS(FM) 217C3 Santa Clara, UT
 Antenna Site Contour Overlap Tabulations

REFERENCE CH# 217C3- 91.3 MHz, Pwr= 0.38 kW, HAAT= 0.0 M, COR= 1930 M DISPLAY
 DATES 36 50 49.0 N. Average Protected F(50-50)= 7.9 km DATA
 04-04-09 113 29 28.0 W. SEARCH
 04-06-09

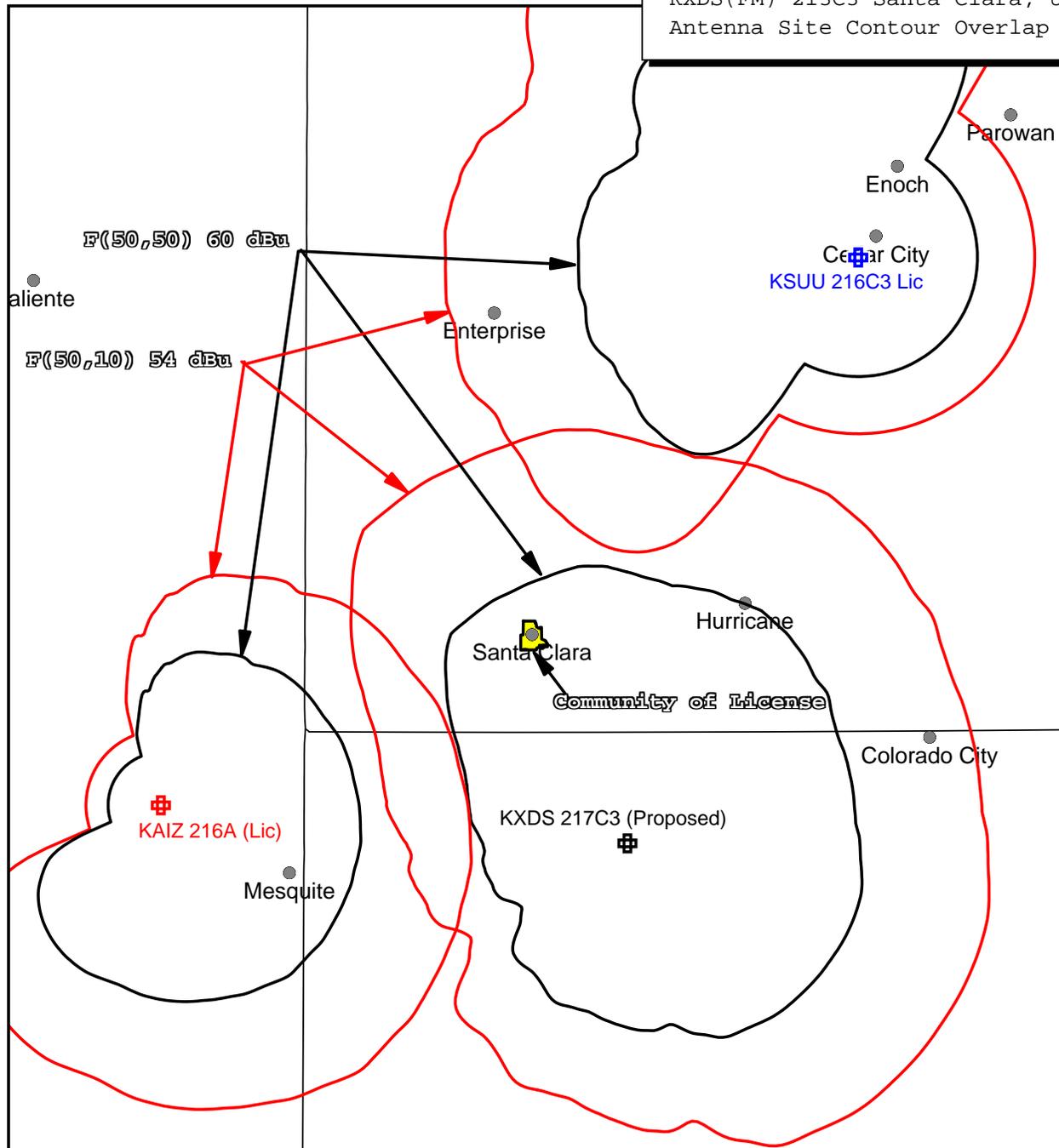
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*
OUT	CITY	STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	
(Overlap in km)										
217C3	KXDS	CP	DCX	0.0	0.00	36 50 49.0	0.360	107.9	41.7	-149.17*
-148.93*	St. George	UT		0.0	BMPED20081114ACY	113 29 28.0	569	1931	Di xie Col lege	
06Z2	KBNY	ADM	HN	319.7	137.11	37 47 00.0	100.000		123.2	139.0R
-1.9M	Caliente	NV		139.1	BPRM20000717ABW	114 30 00.0	300	2019	Tv 6 Kal ei doscope	
Foundati										
216A	KAI Z	LIC	CX	274.8	71.11	36 53 51.0	0.400	47.2	30.4	0.92
5.23	Mesquite	NV		94.3	BLED20050630AGN	114 17 10.0	252	1145	Educational Medi a	
Foundati										
216C3	KSUU	LIC	CN	21.5	95.75	37 38 55.0	10.000	26.8	18.1	28.57
17.10	Cedar Ci ty	UT		201.7	BLED19850219KK	113 05 32.0	-141	1892	South State	
Uni versi ty										
215C1	NEW	CP	DVX	49.0	58.60	37 11 29.0	100.000	2.3	22.9	18.29
34.38	Colorado Ci ty	AZ		229.3	BNPED20071022BRX	112 59 31.0	-397	1241	Treehouse One, Inc.	
217A	KRRA	CP	DCX	28.0	134.76	37 54 56.0	1.500	28.5	8.5	65.59
19.67	Paragonah	UT		208.5	BNPED20071022BMZ	112 46 07.0	-226	1819	Ron El more	
Mini stries Inc										
217C0	KGHR	LIC	DHX	104.2	211.78	36 21 27.0	100.000	151.8	64.8	23.66
47.32	Tuba Ci ty	AZ		285.6	BLED20060718AAF	111 12 12.0	322	2097	Tuba Ci ty Hi gh	
School Boar										
215A	KAI Z	CP	CX	274.7	71.42	36 53 48.0	0.400	1.4	30.4	47.01
40.28	Mesquite	NV		94.2	BMPED20070306AAJ	114 17 23.0	247	1145	Educational Medi a	
Foundati										
218C1	KUNV	LIC	CN	235.9	164.67	36 00 28.0	15.000	87.4	59.4	57.71
76.32	Las Vegas	NV		55.0	BLED19840906DM	115 00 20.0	335	1042	Uni versi ty System	
Of Hi gh										

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
 ERP and HAAT on direct-line with reference station.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C, H, V, E), Beam tilt (Y, N, X)
 "*" affixed to 'IN' or 'OUT' values = site inside protected contour.

Exhibit 3

Section 73.509 Contour Overlap Maps

KXDS(FM) 213C3 Santa Clara, UT
Antenna Site Contour Overlap Map



KXDS 217C3 (Proposed)

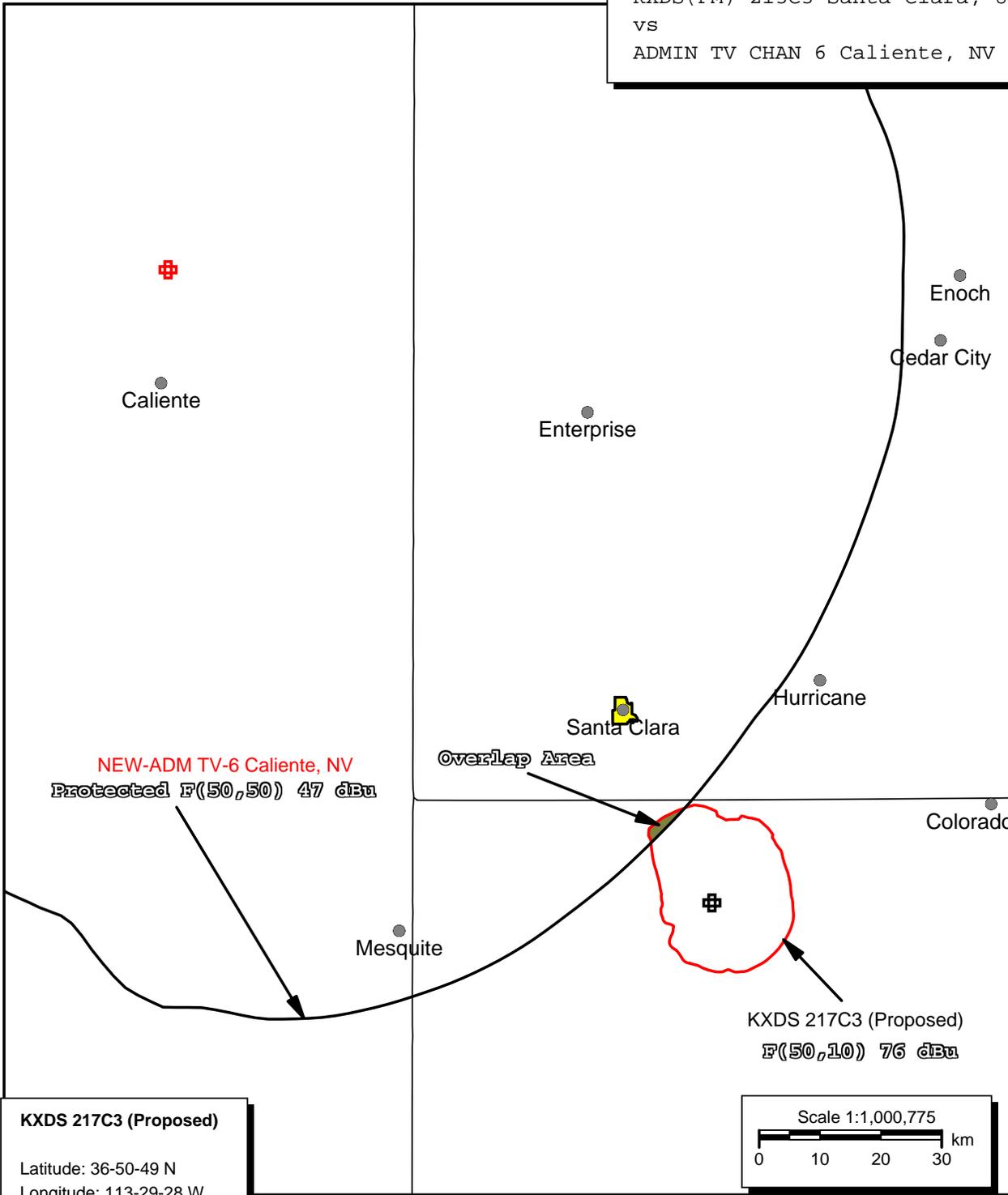
Latitude: 36-50-49 N
 Longitude: 113-29-28 W
 ERP: 0.38 kW
 HAAT: 565.0 m
 Channel: 217 C3
 Frequency: 91.3 MHz
 AMSL Height: 1930.0 m
 Elevation: 1890.0 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: None



Exhibit 4

TV Channel 6 Compliance

KXDS(FM) 213C3 Santa Clara, UT
vs
ADMIN TV CHAN 6 Caliente, NV



KXDS 217C3 (Proposed)
Latitude: 36-50-49 N
Longitude: 113-29-28 W
ERP: 0.38 kW
HAAT: 565.0 m
Channel: 217 C3
Frequency: 91.3 MHz
AMSL Height: 1930.0 m
Elevation: 1890.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Population in Overlap Area: 0 persons

Exhibit 5

Proposed Directional Pattern Azimuth Tabulations

KXDS(FM) 213C3 Santa Clara, UT Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Effective Field
0.0	0.925
10.0	0.850
20.0	0.925
30.0	1.000
40.0	1.000
50.0	1.000
60.0	1.000
70.0	1.000
80.0	1.000
90.0	1.000
100.0	1.000
110.0	1.000
120.0	1.000
130.0	1.000
140.0	1.000
150.0	1.000
160.0	1.000
170.0	1.000
180.0	1.000
190.0	1.000
200.0	1.000
210.0	1.000
220.0	1.000
230.0	1.000
240.0	1.000
250.0	0.800
260.0	0.643
270.0	0.550
280.0	0.526
290.0	0.586
300.0	0.671
310.0	0.819
320.0	1.000
330.0	1.000
340.0	1.000
350.0	1.000

