

Minor Change Application

K277DH

Facility ID No: 151282

This exhibit is for minor modification of K277DH Facility ID No. 151282 to specify a change in antenna location of approximately 120 meters.

Antenna Location

The proposed antenna is to be mounted on an existing tower identified by ASR# 1014527, at 20 meters above ground level. The directional pattern as proposed is given in **Figure 0**. Below as **Figure 1** is an overlap and spacing study, which considers the given antenna pattern, from which it can be determined that this proposal is within the protected contour of **second** adjacent channel full-power stations KLQV, and translator station KSON.

73.1204 Compliance

We will demonstrate that a lack of population and/or other factors allow this proposal to be compliant with 74.1204. With respect to domestic facilities, the process commonly called “Living Way”, allows for the use of D/U Analysis, also known as “signal strength ratio methodology” to be utilized to demonstrate compliance. In this instant case the facility to be protected is on a second or third adjacent channel and is to be afforded protection from signals 40 dB stronger than the protected facility presents near the proposed translator antenna location.

Concerning KLQV; In **Figure 1** the distance between KLQV and this proposal is shown as 250 Meters. The predicted signal of KLQV at this distance is a predicted 133.6 dBu. This proposal can only cause predicted interference to the protected facility by having a signal exceeding 173.6 dBu (133.6 + 40) in a habitable and populated area. Utilizing the line of sight equation and out of an abundance of caution NOT considering the proposed antenna vertical pattern as shown in **Figure 2**, it has been determined that a 173.6 dBu signal developed by 250 watts, as proposed, will not leave the proposed antenna aperture and thus cannot reach any habitable space.

Concerning KSON; In **Figure 1** the distance between KSON and this proposal is shown as 100 Meters – effectively co-located. The predicted signal of KSON at this distance is a predicted 141.0 dBu. As this is a signal of greater value than that of KLQV, protection of the stronger KSON signal is assured by the protection of the weaker KLQV signal.

Thus the provisions of the rules section concerning prohibited overlap with domestic facilities has been satisfied as it has been demonstrated that no actual interference will occur due to a lack of population and other factors as applied in this instant proposal.

Compliance with the United Mexican States FM Broadcast Agreement

This proposal is compliant with the agreement between the government of the United States of American and the Government of the United Mexican States relating to FM Broadcasting. The map in **Figure 4** demonstrates that this proposal is within 125 km of the common border, does not produce a protected contour exceeding 8.7 km in the direction of Mexico, and that the 34 dBu “interfering contour” does not exceed 32 km. Further, **Figure 5** is a table demonstrating that over the arc of interest between 100° True and 163° True the proposal will not emit in excess of 50 watts in the direction of Mexico.

Fill-in and Minor Change Status

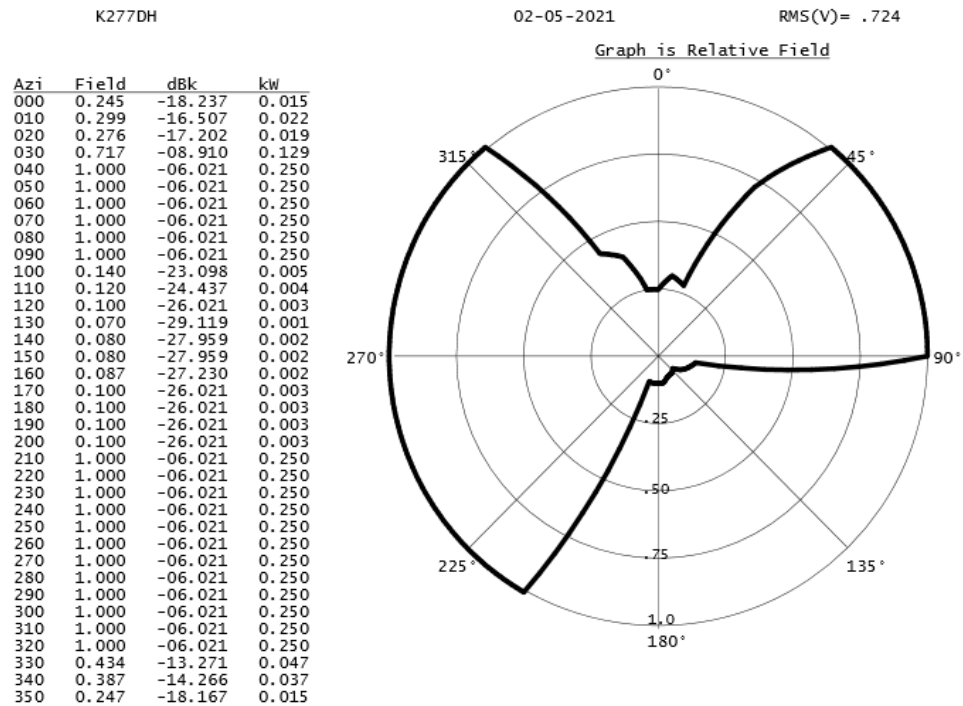
This proposal is to serve as a fill-in translator for station KLSD, Facility ID No 34452, San Diego, California. The map of **Figure 3** demonstrates that the proposed 60 dBu contour is contained within the 2 mV/M signal and a 25 mile radius of the KLSD facility.

RF Fields Statement

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, “Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation.”

The proposed antenna system is a 2-antenna array of Scala “CL-FMV” antenna mounted 20 meters above ground. Due to the complexity of the surrounding RF environment, applicant will take power density measurements prior to filing of an application for license, demonstrating compliance with 73 CFR 1.1306.

Figure 0. Antenna Pattern



K277DH Existing Pattern, new TL at ASR 1014527 Corrected AGL										
Ihm Licenses, LLC										
REFERENCE	CH#	277D	-	103.3 MHz, Pwr= 0.25 kw DA, HAAT= 211.0 M, COR= 253 M	Average Protected F(50=50)= 19.02 km			DISPLAY DATES		
32 50 17.00 N.										
117 15 00.00 W.										
Standard Directional										
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)
275B	KLQV	LIC	CN	30.1	0.25	32 50 24.10	30.000	6.8	71.1	-20.8*
San Diego		CA		210.1	BLH20080207API	117 14 55.10	193	265	Univision Radio Stations	-72.4*
279B	KSON	LIC	CN	13.3	0.10	32 50 20.20	26.500	6.8	71.8	-16.2*
San Diego		CA		193.3	BLH20070409AAQ	117 14 59.10	210	289	Entercom License, LLC	-72.3*
277A	KTMQ	LIC	CN	4.9	71.73	33 28 51.10	1.250	97.0	35.3	-37.9*
Temecula		CA		185.0	BLH20010109AAA	117 11 01.10	218	611	Ihm Licenses, LLC	1.6
277D	K277DH	LIC	DVN	358.8	0.12	32 50 21.10	0.250		---	Reference---
San Diego		CA		178.8	BLFT20171221ACH	117 15 00.10		271	Ihm Licenses, LLC	
277B	XHENAFM	USE		152.0	123.48	31 51 20.29	50.000	134.3	65.0	-20.4*
Ensenada		BN		332.4		116 38 12.03	150	278		32.9
277B	XHENAFM	LIC	DHN	152.0	123.48	31 51 20.30	50.000	134.3	65.0	-20.4*
Ensenada		BN		332.4		116 38 12.00	150	278		32.9
277D	K277DG	LIC	DHN	143.2	19.95	32 41 39.20	0.015	1.9	0.3	12.7
San Diego		CA		323.3	BLFT20161205ABI	117 07 20.10		139	Kiertron, Inc.	2.4
277B	XHVGFM	USE		96.8	169.40	32 38 37.21	50.000	138.9	65.0	15.2
Mexicali		BN		277.8		115 27 11.97	150	158		38.8
278B	KOST	LIC	NCN	334.1	171.92	34 13 35.30	11.500	131.3	105.1	20.5
Los Angeles		CA		153.6	BLH20170207AAC	118 04 00.90	949	1852	Ihm Licenses, LLC	26.8
277B	XHVGFM	LIC	DHN	96.8	169.39	32 38 37.20	14.600	95.6	65.0	58.4
Mexicali		BN		277.8		115 27 12.00	56	64		38.8
276A	KDLE	LIC	ZCN	328.7	100.01	33 36 19.10	0.300	21.7	12.5	58.9
Newport Beach		CA		148.4	BLH20041215AAA	117 48 41.20	294	374	Entravision Holdings, LLC	51.7
278A	KPST-FM	LIC	DCN	51.8	148.17	33 39 23.10	1.900	70.2	46.2	61.9
Coachella		CA		232.5	BLH20120521BEN	115 59 32.00	179	559	Entravision Holdings, LLC	78.4
277B	KRUZ	LIC	CN	307.5	313.05	34 31 28.90	105.000	225.5	123.1	67.0
Santa Barbara		CA		126.0	BLH19990513KB	119 57 35.50	905	1238	Cumulus Licensing LLC	108.4
276A	KQPS	LIC	CN	33.3	137.16	33 51 58.50	1.900	50.7	34.0	70.3
Palm Desert		CA		213.8	BMLH20130613AAE	116 26 01.60	180	486	Entercom License, LLC	78.5
274B	KIIS-FM	LIC	DCN	334.1	171.94	34 13 36.00	8.000	5.5	98.8	146.3
Los Angeles		CA		153.7	BLH5361	118 04 00.20	902	1802	Ihm Licenses, LLC	72.3
278A	AU9166247	USE		46.6	137.02	33 40 49.08	6			

Figure 2. Signal Level

ERP	0.25	kw	
Calculated IX contour	173.6	dbu	
			Distance to interfering contour
Relative Field	Downward ERP		meters (hypot)
1	0.2500		0.2317

Figure 3. Fill-in Contour and Distance Map

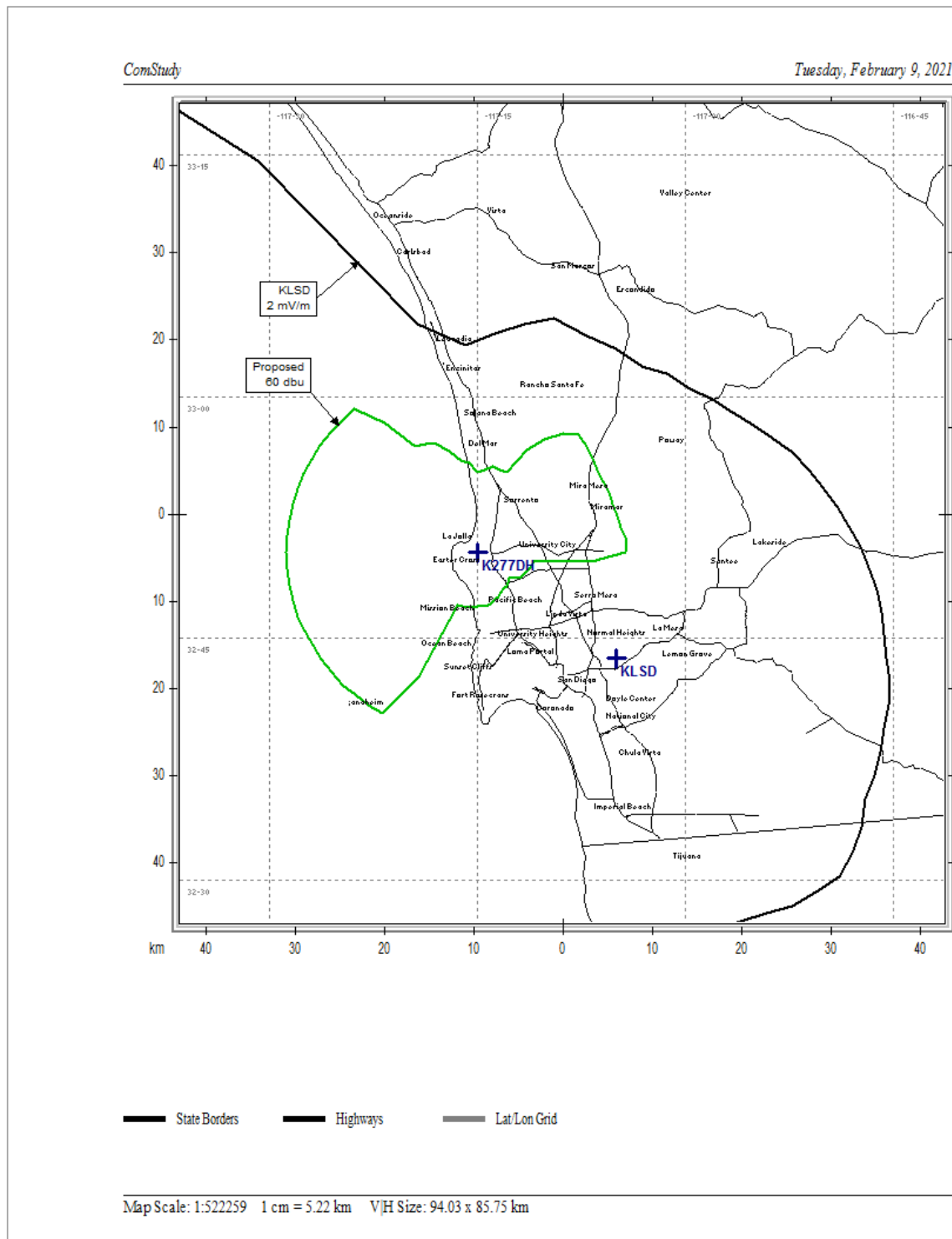


Figure 4. Map of Compliance to the United Mexican States

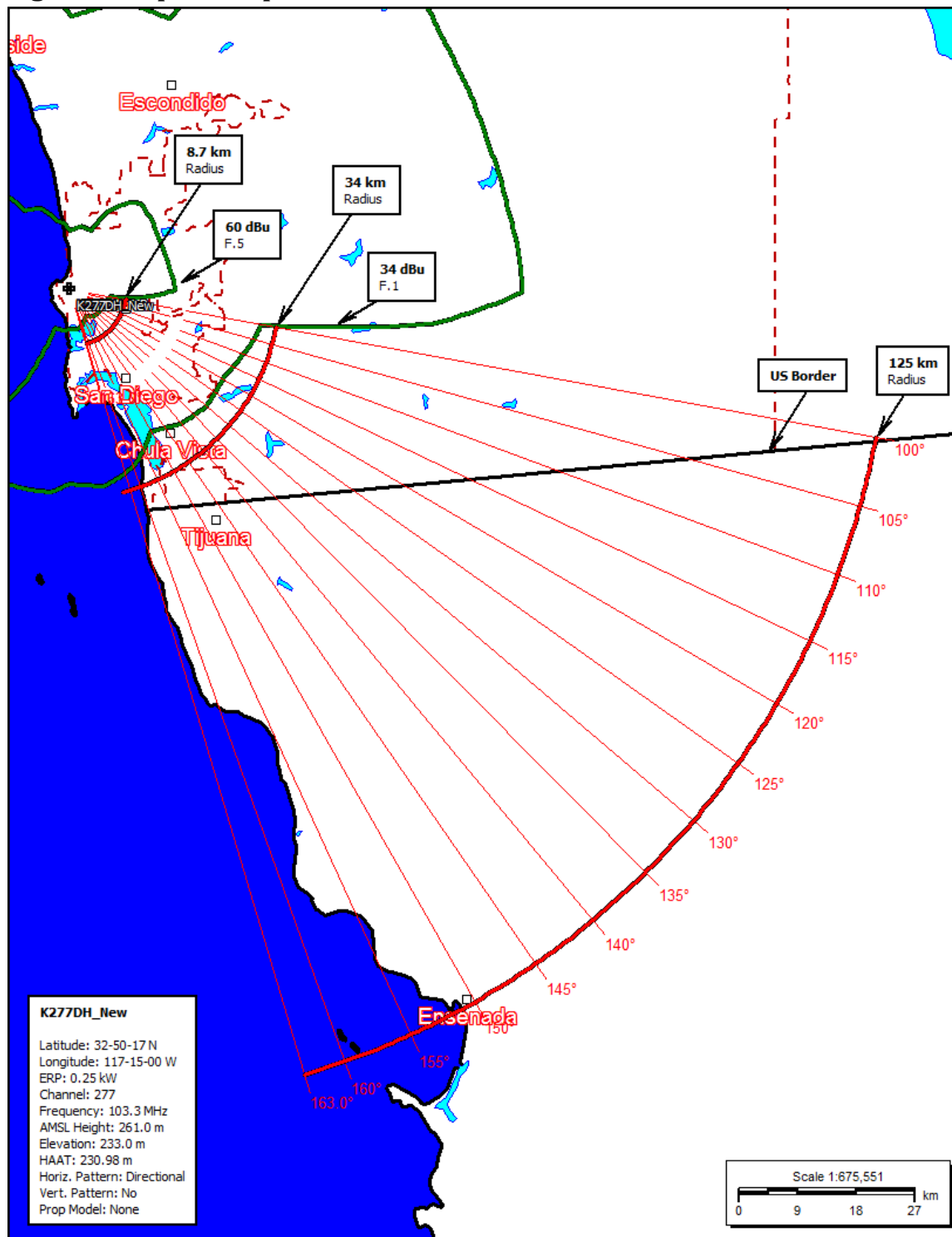


Figure 5. Table of Compliance to the United Mexican States

Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.245	-18.24	0.015	-12.22	180	0.100	-26.02	0.003	-20.00
10	0.299	-16.51	0.022	-10.49	190	0.100	-26.02	0.003	-20.00
20	0.276	-17.20	0.019	-11.18	200	0.100	-26.02	0.003	-20.00
30	0.717	-8.91	0.129	-2.89	210	1.000	-6.02	0.250	-0.00
40	1.000	-6.02	0.250	0.00	220	1.000	-6.02	0.250	0.00
50	1.000	-6.02	0.250	0.00	230	1.000	-6.02	0.250	0.00
60	1.000	-6.02	0.250	0.00	240	1.000	-6.02	0.250	0.00
70	1.000	-6.02	0.250	0.00	250	1.000	-6.02	0.250	0.00
80	1.000	-6.02	0.250	0.00	260	1.000	-6.02	0.250	0.00
90	1.000	-6.02	0.250	0.00	270	1.000	-6.02	0.250	0.00
100	0.140	-23.10	0.005	-17.08	280	1.000	-6.02	0.250	0.00
110	0.120	-24.44	0.004	-18.42	290	1.000	-6.02	0.250	0.00
120	0.100	-26.02	0.003	-20.00	300	1.000	-6.02	0.250	0.00
130	0.100	-26.02	0.003	-20.00	310	1.000	-6.02	0.250	0.00
140	0.090	-26.94	0.002	-20.92	320	1.000	-6.02	0.250	0.00
150	0.070	-29.12	0.001	-23.10	330	0.434	-13.27	0.047	-7.25
160	0.087	-27.23	0.002	-21.21	340	0.387	-14.27	0.037	-8.25
170	0.100	-26.02	0.003	-20.00	350	0.247	-18.17	0.015	-12.15

Rotation Angle = 0