November 2017
FM Translator K256CX
Beaumont, California Channel 256D
Engineering STA - Allocation Study

STA Technical Facility
ABC Radio Los Angeles Assets, LLC has been granted STA (BSTA-20171010AEC) to operate FM translator K256CX with the following technical facilities.

Antenna Structure Registration	1012885
Coordinates (NAD27)	34-06-50 x 117-59-50
Site Elevation	113 m AMSL
Antenna Height	99m AGL (H) 212m AMSL (H)
Max Lobe ERP	0.080 kW (H)
Antenna Model	Scala CL-FMHR (Directional Off-the Shelf)
Antenna Rotation	310 degrees

By the instant filing, ABC proposes an alteration or amendment of the existing STA, to allow testing with this same antenna oriented anywhere between 310 and 320 degrees True, in order to determine the optimum orientation to address interference with KGGI.

Allocation Study
The attached spacing study shows the spacing between the proposed translator site and the location of cochannel and adjacent channel stations and proposals. This study was made with the Commission's Class A spacing requirements, and individual situations were examined to determine the lack of prohibited contour overlap per the requirements of §74.1204 of the Rules. The attached allocation study map demonstrates compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204.

The allocation study map depicts the interfering contours from the proposed STA facility with the antenna oriented at both 310 and 320 degrees True. It is readily apparent that at any azimuth between 310 and 320 degrees True (the azimuth span requested herein), there is no prohibited contour overlap as defined in §74.1204.

KYSR 254B Los Angeles
The proposed translator transmitter site is located within the 60 dBu protected contour of second-adjacent channel station KYSR 254B Los Angeles. The following calculation, performed using the *Living Way* methodology, demonstrates interference protection to that station.

Protected Station	Distance & Bearing to Proposal	Station ERP and HAAT on that azimuth	Station Field Strength at Proposal	Corresponding Translator Interfering Contour	Distance to Translator Interfering Contour
KYSR 254B	36.40 km 91 deg True	75 kW 354 meters	77.44 dBu F(50,50)	117.44 dBu	84.2 meters Free Space

The aerial photo of the proposed transmitter site (below) depicts the 117.44 dBu contour from the proposed facility, with the antenna oriented at both 310 and 320 degrees True. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KYSR.

KKLA-FM 258B Los Angeles

The proposed translator transmitter site is located within the 60 dBu protected contour of second-adjacent channel station KKLA-FM 258B Los Angeles. The following calculation, performed using the *Living Way* methodology, demonstrates interference protection to that station.

Protected Station	Distance & Bearing to Proposal	Station ERP and HAAT on that azimuth	Station Field Strength at Proposal	Corresponding Translator Interfering Contour	Distance to Translator Interfering Contour
KKLA 258B	13.59 km 154 deg True	1.01 kW 1501 meters	83.31 dBu F(50,50)	123.31 dBu	42.8 meters Free Space

The 123.31 dBu contour from the proposed facility extends only 43 meters from the antenna and does not reach ground level. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to KKLA-FM.

FMSTUDY.EXE Copyright 2016, Hatfield & Dawson, LLC Version 4.01

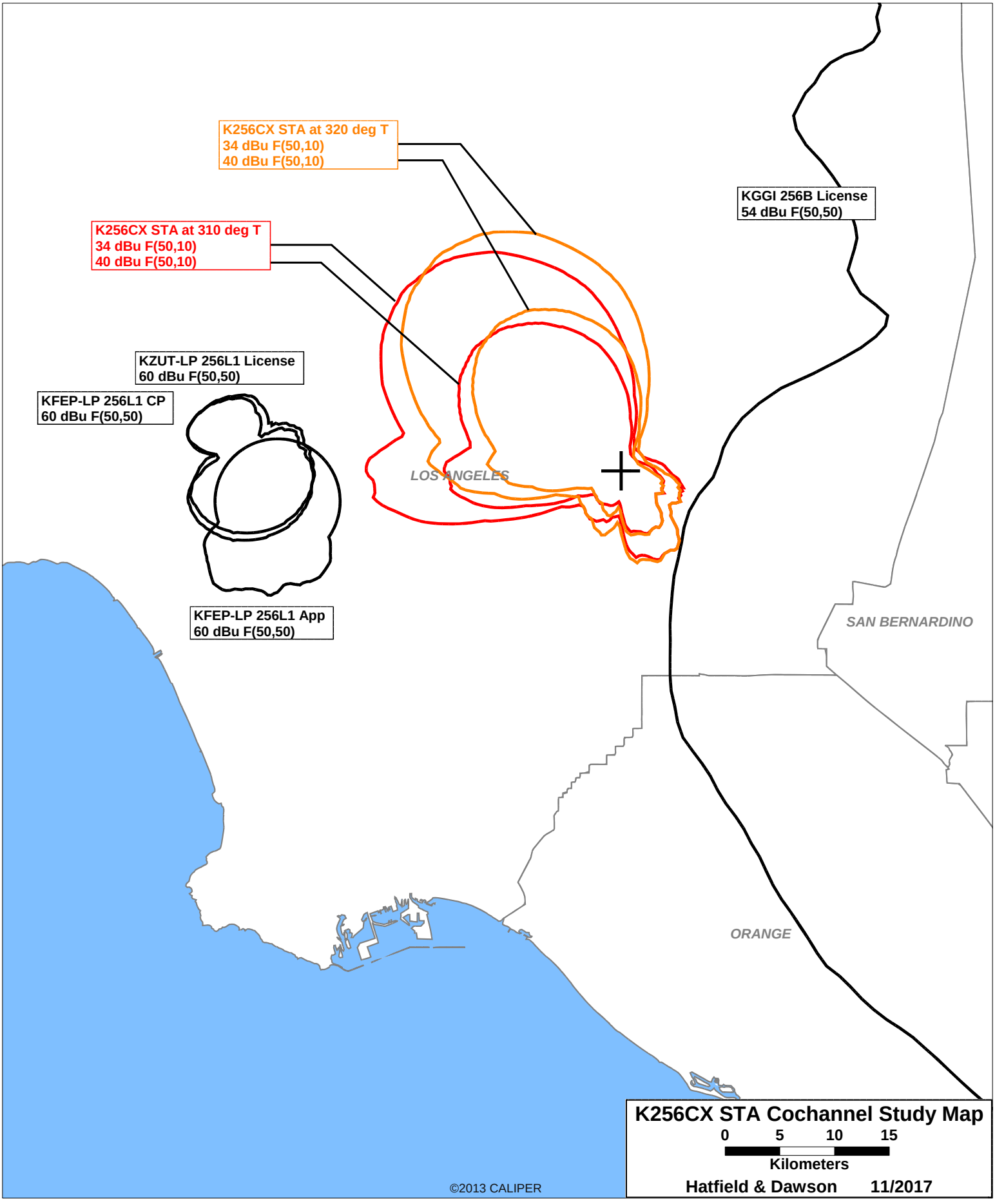
SEARCH PARAMETERS
Channel: 256A 99.1 MHz
Latitude: 34 6 50
Longitude: 117 59 50
Safety Zone: 50 km
Job Title: K256CX

Call	City	Channel	ERP(kW)		Latitude	Bearing	Dist	Req
Status	St FCC File No.	Freq.	HAAT(m)		Longitude	deg-True	(km)	(km)
KTCN	ACTON	202A	0.100	DA	34-28-10	345.1	40.82	10
CP MOD	CA BMPED-40224AAV	88.3	-96.0		118-06-42		30.82	CLEAR
KTCN	ACTON	202A	0.100	DA	34-28-09	345.1	40.80	10
CP MOD	CA BMPED-40203ACN	88.3	-96.0		118-06-43		30.80	CLEAR
KTCN	ACTON	202A	0.100	DA	34-28-09	345.1	40.80	10
CP	CA BNPED-71022AOT	88.3	-96.0		118-06-43		30.80	CLEAR
KCSN	NORTHRIDGE	203B1	0.370	DA	34-19-10	294.2	56.16	12
LIC	CA BLED-20905AAM	88.5	501.0		118-33-15		44.16	CLEAR
KCSN-FM1	WEST LOS ANGELES	203D	0.800	DA	34-03-42	261.6	39.07	0
LIC	CA BLFTB-30115ADF	88.5	0.0		118-24-57		0.00	BOOST
KYSR	LOS ANGELES	254B	75.000		34-07-08	271.0	36.40	69
LIC	CA BMLH-90709ACO	98.7	360.0		118-23-30		-32.60	SHORT
KHHT	METTLER	255A	0.225	DA	34-54-11	316.8	120.81	72
LIC	CA BLH-61122AEV	98.9	502.0		118-54-14	SS	48.81	CLEAR
K256CX	BEAUMONT	256D	0.200	DA	34-06-50	0.0	0.00	0
LIC	CA BLFT-70712AAF	99.1	144.0		117-59-50		0.00	TRANS
K256CX	BEAUMONT	256D	0.240	DA	34-06-50	0.0	0.00	0
APP	CA BMPFT-70525AMV	99.1	143.0		117-59-50		0.00	TRANS
KWSV-LP	CHATSWORTH	256D	0.006	DA	34-15-24	285.2	61.36	0
LIC	CA BLFTB-70724AAA	99.1	0.0		118-38-25		0.00	BOOST
KLBP-LP	LONG BEACH	256L1	0.100		33-44-47	217.1	51.13	67
APP	CA BMPL-70519ACM	99.1	-38.2		118-19-52		-15.87	SHORT
KLBP-LP	LONG BEACH	256L1	0.100		33-44-47	212.6	48.39	67
CP MOD	CA BMPL-60601AHB	99.1	12.0		118-16-45		-18.61	SHORT
KLDB-LP	LOS ANGELES	256L1	0.100		33-59-58	253.7	45.04	67
CP MOD	CA BMPL-70329AAA	99.1	-17.0		118-27-55		-21.96	SHORT
KZUT-LP	LOS ANGELES	256L1	0.003		34-07-32	272.3	34.39	67
LIC	CA BMLL-70725ACA	99.1	190.0		118-22-11		-32.61	SHORT

SEARCH PARAMETERS
Channel: 256A 99.1 MHz
Latitude: 34 6 50
Longitude: 117 59 50
Safety Zone: 50 km
Job Title: K256CX

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)		Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KFEP-LP	LOS ANGELES		256L1	0.002		34-07-34	272.4	34.19	67
CP	CA	BNPL-31114BEK	99.1	276.1		118-22-03		-32.81	SHORT
KRKD-LP	LOS ANGELES		256L1	0.100		33-44-47	212.6	48.39	67
CP MOD	CA	BMPL-60607ACT	99.1	12.0		118-16-45		-18.61	SHORT
KFEP-LP	LOS ANGELES		256L1	0.100		34-05-21	265.1	31.49	67
APP	CA	BMPL-70628AAS	99.1	-9.5		118-20-14		-35.51	SHORT
KJBU-LP	OXNARD		256L1	0.100		34-11-04	274.5	107.55	67
CP	CA	BNPL-31113AKO	99.1	8.6		119-09-37		40.55	CLEAR
K256CU	PALM SPRINGS		256D	0.054	DA	33-51-55	100.4	146.86	0
LIC	CA	BLFT-70329AAF	99.1	383.0		116-26-10		0.00	TRANS
K256BS	PALMDALE		256D	0.010	DA	34-32-51	337.7	52.04	0
LIC	CA	BLFT-50707ABO	99.1	763.0		118-12-47		0.00	TRANS
KXFM	PORT HUENEME		256B	3.800	DA	34-30-10	284.8	175.82	178
CP	CA	BPH-51110ANR	99.1	493.0		119-50-56	SS	-2.18	SHORT
KGGI	RIVERSIDE		256B	2.550		34-14-04	80.1	80.16	178
LIC	CA	BLH-910802KF	99.1	562.0		117-08-24		-97.84	SHORT
KXFM	SANTA MARIA		256B	2.300		34-54-37	294.4	219.51	178
LIC	CA	BLH-910429KE	99.1	581.0		120-11-08		41.51	CLEAR
KWSV-LP	SIMI VALLEY		256L1	0.100		34-16-55	287.4	63.41	67
LIC	CA	BMLL-50413AAO	99.1	6.1		118-39-17		-3.59	SHORT
KWSV-LP	SIMI VALLEY		256L1	0.100		34-16-55	287.4	63.41	67
CP	CA	BPL-70717AAT	99.1	11.0		118-39-17		-3.59	SHORT
KTPC-LP	VENICE		256L1	0.050		33-59-58	253.7	45.04	67
LIC	CA	BLL-71010AAE	99.1	-17.0		118-27-55		-21.96	SHORT
K257EX	BORON		257D	0.020		35-00-04	17.7	103.42	0
LIC	CA	BLFT-70817ACV	99.3	46.0		117-39-04		0.00	TRANS
KKLA-FM	LOS ANGELES		258B	10.000	DA	34-13-26	334.0	13.59	69
LIC	CA	BMLH-60325AAB	99.5	902.0		118-03-44	SS	-55.41	SHORT

==== END OF FM SPACING STUDY FOR CHANNEL 256 ====


K256CX STA at 320 deg T
34 dBu F(50,10)
40 dBu F(50,10)
K256CX STA at 310 deg T
34 dBu F(50,10)
40 dBu F(50,10)
KGGI 256B License
54 dBu F(50,50)
KZUT-LP 256L1 License
60 dBu F(50,50)
KFEP-LP 256L1 CP
60 dBu F(50,50)
KFEP-LP 256L1 App
60 dBu F(50,50)
LOS ANGELES
SAN BERNARDINO
ORANGE
K256CX STA Cochannel Study Map
0 5 10 15
Kilometers
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