

**APPLICATION FOR MINOR MODIFICATION OF  
FM TRANSLATOR K287AL, ISLA VISTA, CA.  
FOR  
GOLD COAST BROADCASTING, LLC  
LICENSEE OF  
K287AL**

**JUNE 2008**

**BY:  
BEEM CO.  
ARCADIA, CA  
(626) 446-3468**

## ENGINEERING STATEMENT OF JOEL T. SAXBERG

This application for minor modification of K287AL, Isla Vista, California was prepared for Gold Coast Broadcasting, LLC by Joel T. Saxberg of Arcadia, California. Gold Coast proposes to relocate FM translator K287AL from oil drilling "Platform Holly" to a location in Los Padres National Forest, on the Santa Ynez Mountains. It is shown that the present and proposed K287AL 60 dBu contours overlap and therefore this application is considered a minor modification.

The proposed location of K287AL meets all of the allocation requirements with two exceptions. The proposed site lies within the 60 dBu contour of KRAZ, CH 290A and also within the 54 dBu contour of KCAQ CP, CH284B. Therefore the predicted F(50,10) 100 dBu contour overlaps the 60 dBu contour of KRAZ and the F(50,10) 94 dBu contour overlaps the 54 dBu contour of KCAQ CH284B CP by definition. A population study (U.S. Census 2000) shows no population residing within the predicted 100 dBu or 94 dBu interference contour. With an ERP of only 10 watts, an interference area of 0.1 km sq. for KRAZ and 0.3 km sq for KCAQ CP, and operation on the third adjacent channel to both facilities, no interference to either facility is expected. The F(50,10) 94 dBu contour is outside the protected 54 dBu contour of the licensed KCAQ facility.

RADIOFREQUENCY ELECTROMAGNETIC FIELDS - Using a center of radiation of 6 meters above ground level, the power density over a flat plane 2 meters above ground would be less than 0.006 mW/cm<sup>2</sup>. The highest level is less than 3% of the maximum permissible level for the General Public. It is believed that this facility would be categorically excluded due to the very low power density levels. A tabulation of power density levels are shown for the major lobe of the proposed HDCA-5CP antenna. This would be at 145° True.

<b>Dist.</b>	<b>Slant Dist.</b>	<b>Rel. Field</b>	<b>Power Density</b>
<b>M</b>	<b>M</b>		<b>MW/CM<sup>2</sup></b>
<b>0</b>	<b>4</b>	<b>0.15</b>	<b>0.0009</b>
<b>2</b>	<b>4.5</b>	<b>0.18</b>	<b>0.0011</b>
<b>4</b>	<b>5.7</b>	<b>0.46</b>	<b>0.0044</b>
<b>6</b>	<b>7.2</b>	<b>0.68</b>	<b>0.0059</b>
<b>8</b>	<b>8.9</b>	<b>0.80</b>	<b>0.0053</b>
<b>10</b>	<b>10.8</b>	<b>0.83</b>	<b>0.0040</b>
<b>15</b>	<b>15.5</b>	<b>0.93</b>	<b>0.0024</b>
<b>20</b>	<b>20.4</b>	<b>0.96</b>	<b>0.0015</b>
<b>30</b>	<b>30.3</b>	<b>0.98</b>	<b>0.0007</b>

KTYD - The primary facility will be KTYD, CH 206B, Santa Barbara, CA. The translator's F(50,50) 54 dBu contour will not exceed the primary coverage contour of KTYD in any direction. The F(50,50) 60 dBu contour will not extend the 60 dBu contour of KTYD either.

KFYV - There is an overlap created by the predicted F(50,10) 54 dBu contour to the KFYV F(50,50) 60 dBu primary coverage contour. The overlap occurs only over the Pacific Ocean and not over land. This overlap would not cause interference to KFYV and is believed to be permissible.

KSPE-FM - KSPE-FM, CH 233B is 54 channels below K287AL and is considered to be intermediate frequency spaced. In accordance with §74.1204(g) a translator operating with less than 100 watts ERP will be treated as a Class D station and will not be subject to I.F. separation requirements. K287AL at 10 watts ERP comes under this section.

## ENGINEERING CERTIFICATION

JOEL T. SAXBERG deposes and says:

1. That he is President of Broadcast Engineering and Equipment Maintenance Company, "BEEM CO.", radio engineering consultants. BEEM CO. maintains offices at: 2322 S. Second Avenue, Arcadia, CA 91006. Telephone (626) 446-3468
2. That he was graduated from California State University at Los Angeles, February 1966, with a Bachelor of Science degree in Electronic Engineering. He received a MS degree in Electronic Engineering Technology in August 1996.
3. That he has submitted many applications to the Federal Communications Commission for broadcast and auxiliary broadcast construction permits and licenses.
4. That his experience in broadcast engineering is a matter of record and he has spent over forty years working in the field of radio engineering.
5. That the attached report was prepared by him or under his direction and supervision. That he believes the facts stated therein to be both true and accurate. Statements that are based on information supplied by others are also believed to be true and accurate.
6. That he has performed field work on AM and FM broadcast transmitting systems throughout this country and continues to provide technical consulting services on a daily basis to broadcasters.
7. That he declares under penalty of perjury the foregoing is true and correct.

Executed on June 25, 2008



Joel T. Saxberg

FM Study for: K287AL

FCC Database Date: 6/6/2008

34-30-11

Location: ISLA VISTA, CA

Channel Class: D1

119-51-02

[\*] by HAAT indicates calculated as missing in database.

Call City, State

Chan Class Freq kW

Latitude Dist.

Required

Status Proponent

File Number HAAT

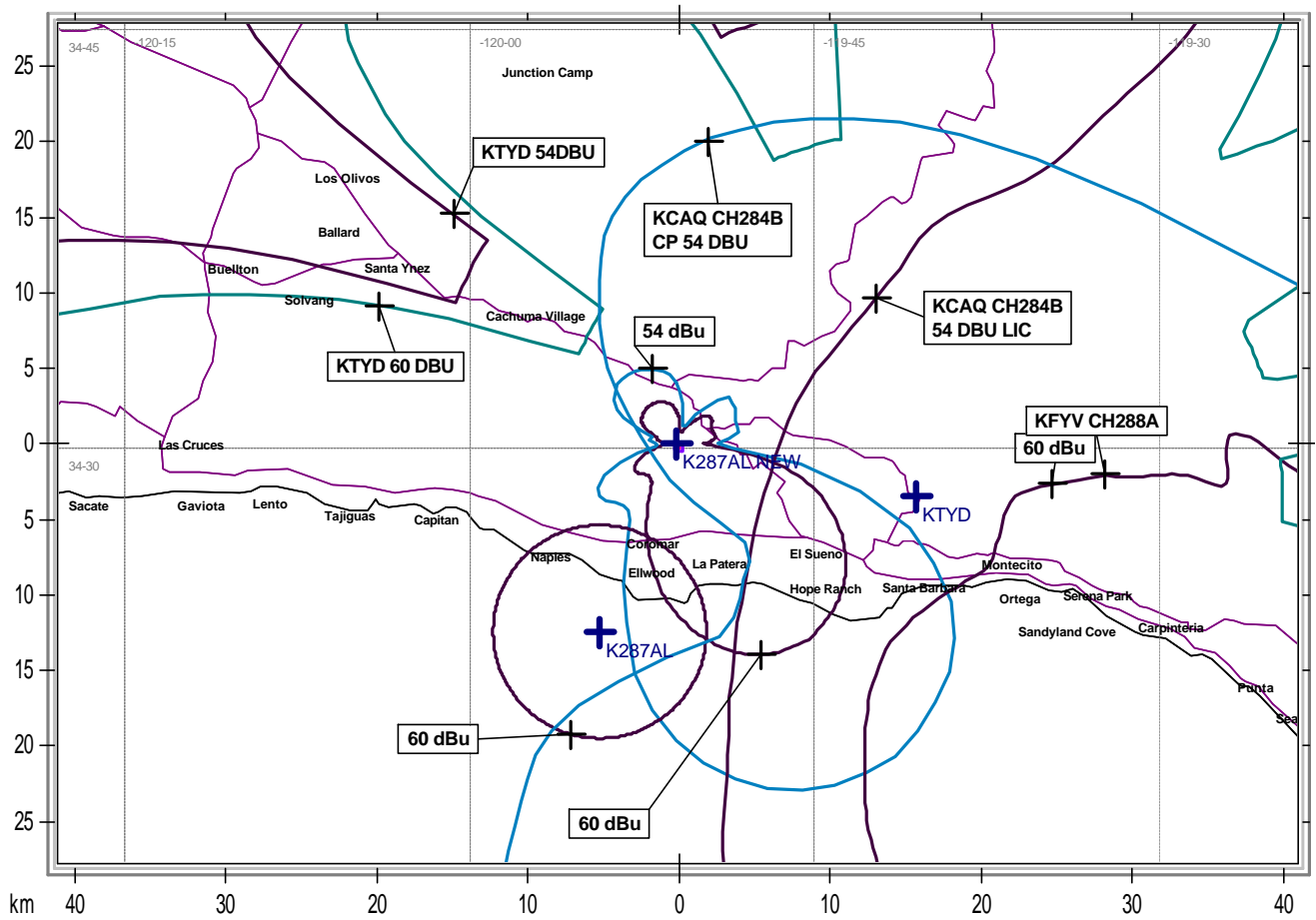
Longitude Azm.

Clear (km)

&gt;&gt;&gt;&gt;&gt;&gt;&gt; Study For Channel 287 105.3 mHz &lt;&lt;&lt;&lt;&lt;&lt;&lt;&lt;

KRAZ	SANTA YNEZ, CA	290 A	105.9	.065+	34-31-32	10.2	29	73.215
LIC	Fac. No. 33439	BLH-20001220AAY	894		119-57-29	284.2	-18.8	SHORT
K287AL	ISLA VISTA, CA	287 D	105.3	.250	34-23-23	13.5	23	
LIC	Fac. No. 156359	BLFT-20070727AIM	-29*		119-54-20	201.9	-9.5	SHORT
KSPEFM	ELLWOOD, CA	233 B	94.5	.810	34-31-32	10.2	15	
LIC	Fac. No. 61058	BLH-19890214KC	899		119-57-28	284.3	-4.8	SHORT
KIDIFM	LOMPOC, CA	286 B1	105.1	3.40	34-44-31	60.7	57	
LIC	Fac. No. 38306	BLH-20071015AIJ	275		120-26-46	296.1	+3.7	CLOSE
KCAQ	OXNARD, CA	284 B	104.7	50.0	34-24-44	75.4	66	
CP	Fac. No. 25092	BPH-20061102ACA	150		119-02-15	97.5	+9.4	CLOSE
NEW-X	SUMMERLAND, CA	286 D	105.1	.250	34-20-16	33.8	22	
APP	Fac. No. 156332	BNPFT-20030317HCL	-56*		119-32-29	122.7	+11.8	CLOSE
KCAQ	OXNARD, CA	284 B	104.7	4.50	34-19-49	78.4	66	
LIC	Fac. No. 25092	BLH-20080125AEG	464		119-01-24	103.9	+12.4	CLOSE
KFYV	OJAI, CA	288 A	105.5	.310	34-20-55	50.2	37	
LIC	Fac. No. 7744	BLH-19980209KG	438		119-20-13	109.8	+13.2	CLOSE
NEW-X	SUMMERLAND, CA	290 D	105.9	.250	34-20-16	33.8	13	
APP	Fac. No. 143699	BNPFT-20030317GZT	-56*		119-32-29	122.7	+20.8	CLEAR
NEW-X	CARPINTERIA, CA	290 D	105.9	.250	34-22-20	42.1	13	
APP	Fac. No. 143731	BNPFT-20030317HHK	425*		119-25-13	110.0	+29.1	CLEAR
KBFPFM	DELANO, CA	287 B	105.3	35.0	35-30-53	133.4	98	
LIC	Fac. No. 37774	BLH-19871231KD	177		119-03-41	32.5	+35.4	CLEAR
NEW-X	OJAI, CA	285 D	104.9	.250	34-20-55	50.2	13	
APP	Fac. No. 143742	BNPFT-20030317HEO	506*		119-20-13	109.8	+37.2	CLEAR
NEW-X	SOLIMAR BEACH, CA	285 D	104.9	.250	34-10-46	50.3	13	
APP	Fac. No. 143607	BNPFT-20030317GUD	46*		119-28-04	135.4	+37.3	CLEAR

## ALLOCATION CONTOUR PROTECTION



ISLA VISTA, CA

State Borders      Highways      Lat/Lon Grid