

**June 2015**  
**KQCM(FM) Channel 286A**  
**Bermuda Dunes, CA**  
**Allocation Study**

**Background**

KQCM is currently licensed for operation on Channel 286A at North Shore, California. The instant application proposes to modify KQCM to specify operation on Channel 286A at Bermuda Dunes, California, from a new transmitter site. Separate allotment and transmitter sites are specified.

**Bermuda Dunes Channel 286A Allotment Site**

The attached spacing study shows that the proposed allotment site meets the co-channel and adjacent channel spacing requirements for Class A stations as prescribed in §73.207 of the Commission's Rules.

The proposed allotment site is at the location of an existing tower. The far side of Bermuda Dunes is located 14 km from the allotment site. The standard 70 dBu contour distance for a Class A station is 16.2 km. Therefore this site will provide 70 dBu service to 100% of Bermuda Dunes.

The spacing study also demonstrates that the allotment of Channel 286A at Bermuda Dunes is mutually-exclusive with the licensed KQCM operation.

**Bermuda Dunes Channel 286A Transmitter Site**

The attached spacing study shows that the proposed transmitter site meets the co-channel and adjacent channel spacing requirements for Class A stations as prescribed in §73.207 of the Commission's Rules, with the exception of a short-spacing to the licensed operation of KKGQ on Channel 286B at Los Angeles. Processing pursuant to §73.215 of the Commission's Rules is requested with respect to KKGQ.

Despite the fact that the licensed KQCM facility operates from a transmitter site which is fully-spaced to KKGQ, there does exist overlap of the licensed KQCM 34 dBu F(50,10) contour to the

KKGO 54 dBu F(50,50) contour<sup>1</sup> amounting to 1,965 sq km of land area.

As depicted on the attached allocation study maps, the proposed KQCM facility does not increase the area of overlap caused to KKGO. Specifically, the area of overlap caused to KKGO will be reduced to 194 sq km. This amounts to a reduction in overlap by 1,771 sq km or 90% of the existing overlap area.

Commission policy permits areas of existing “fully spaced” overlap to be maintained in short-spaced applications so long as the area of overlap is not increased. Therefore, it is believed that the instant application complies with all allocation requirements with respect to KKGO. It is not believed necessary to request a waiver in this situation, but waiver of §73.215 is nevertheless requested to the extent required.

The spacing study also demonstrates that the proposed transmitter site is mutually-exclusive with the licensed KQCM operation.

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<sup>1</sup> There is no overlap of the KKGO 40 dBu F(50,10) contour to either the existing or proposed KQCM 60 dBu F(50,50) contour.

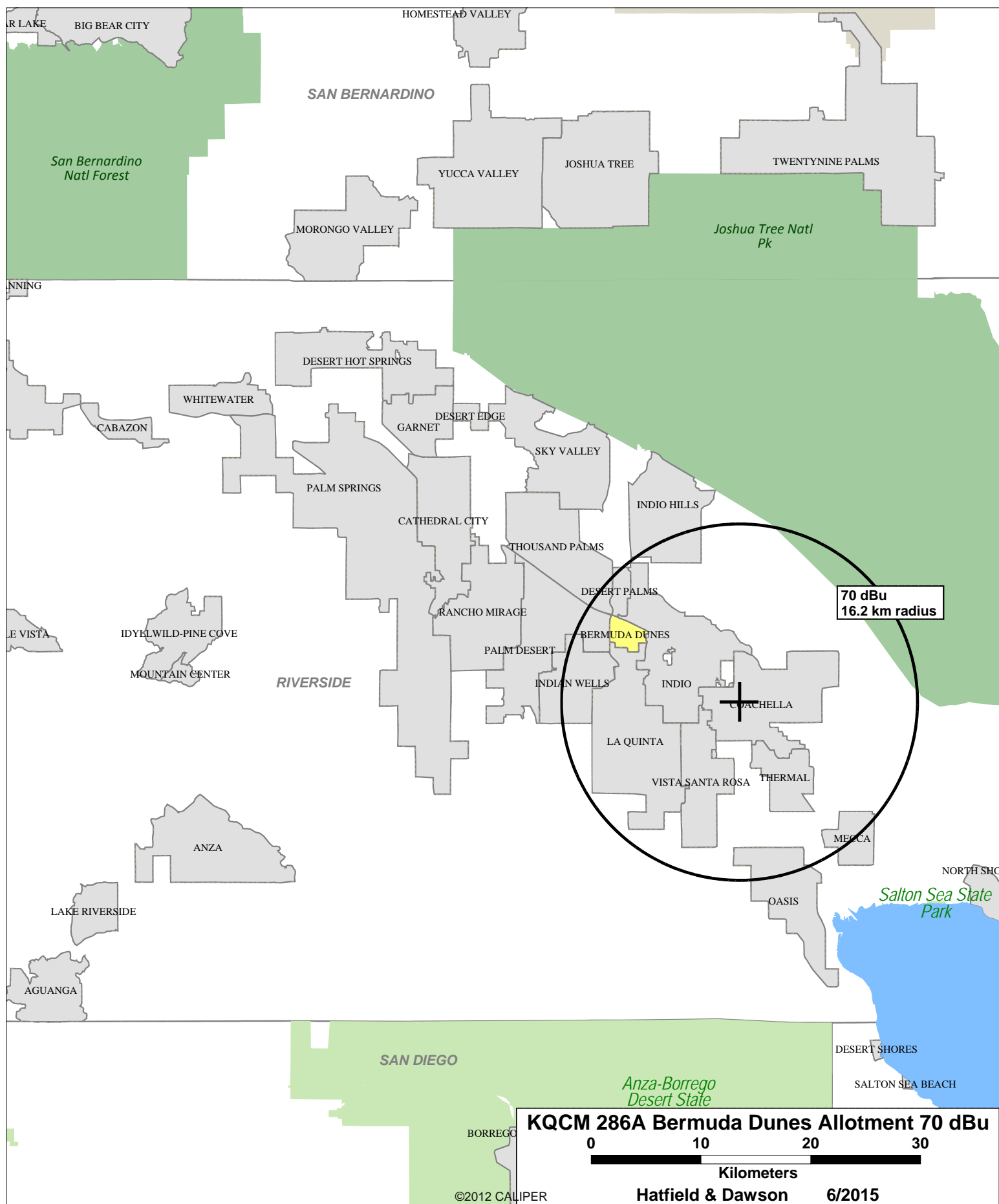
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SEARCH PARAMETERS                               FM Database Date: 150605
Channel: 286A    105.1 MHz                      Page    1
Latitude:  33 41 17
Longitude: 116 10 34
Safety Zone: 32 km
Job Title: BERMUDA DUNES 286A ALLOT SITE
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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K232CX LIC	DESERT HOT SPRINGS CA	BLFT-91001AEE	232D 94.3	0.099 412.0	33-51-56 116-25-58	309.8	30.87 0.00	0 TRANS
KCLZ CP	TWENTYNINE PALMS CA	BAS BPH-11116AIN	283A 104.5	6.000 70.0	34-09-16 116-12-04	357.5	51.78 20.78	31 CLEAR
XHMC FM	MEXICALI BN	-	285B 104.9	10.000 48.0	32-38-18 115-28-17	150.5	133.70 8.70	125 CLOSE
XHMC FM	MEXICALI BN	-	285B 104.9	0.000 0.0	32-40-00 115-26-59	149.0	131.99 6.99	125 CLOSE
	SAN FRANCISCO BN	-	285C1 104.9	0.000 0.0	32-18-56 116-39-57	196.8	158.94 25.94	133 CLEAR
XHLNC-FMT	TIJUANA BN	-50430MX1	285C1 104.9	7.500 799.0	DA 32-18-49 116-39-53	196.7	159.12 26.12	133 CLEAR
VAC	EHRENBERG AZ	RM-10754*	286C2 105.1	0.000 0.0	33-48-00 114-19-12	85.3	172.44 6.44	166 CLOSE
KKGOaux LIC	LOS ANGELES CA	BXLH-40916ACT	286B 105.1	3.500 874.0	34-13-45 118-04-04	289.6	184.86 0.00	0 AUX
KKGOaux LIC	LOS ANGELES CA	BXLH-50422AEB	286B 105.1	18.000 864.0	34-13-45 118-04-04	289.6	184.86 0.00	0 AUX
KKGOaux LIC	LOS ANGELES CA	BXLH-00913AAT	286B 105.1	35.000 195.0	34-09-49 118-11-44	286.4	194.04 0.00	0 AUX
KKGO LIC	LOS ANGELES CA	BLH-870225KA	286B 105.1	18.000 880.0	34-13-45 118-04-04	289.6	184.86 6.86	178 CLOSE
KQCM LIC	NORTH SHORE CA	BLH-50522AGE	286A 105.1	6.000 27.0	33-42-09 116-00-41	83.9	15.36 -99.64	115 SHORT
KQCMaux CP	NORTH SHORE CA	BXPB-41023ABX	286A 105.1	0.350 115.0	DA 33-47-46 116-13-17	340.8	12.70 0.00	0 AUX
KIOZ LIC	SAN DIEGO CA	BLH-70411ACO	287B 105.3	26.000 210.0	32-50-20 117-14-56	226.9	137.34 24.34	113 CLEAR
KIOZaux LIC	SAN DIEGO CA	BXLH-60517AAZ	287B 105.3	0.350 158.0	32-50-21 117-14-57	226.9	137.33 0.00	0 AUX
K288DR LIC	DESERT HOT SPRINGS, CA	BMLFT-90127AEN	288D 105.5	0.010 396.0	33-51-56 116-26-04	309.6	30.99 0.00	0 TRANS

===== END OF FM SPACING STUDY FOR CHANNEL 286 =====



## SEARCH PARAMETERS

FM Database Date: 150605

Channel: 286A 105.1 MHz  
 Latitude: 33 51 59  
 Longitude: 116 25 59  
 Safety Zone: 32 km  
 Job Title: KQCM 286A TRANSMIT SITE

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K232CX LIC	DESERT HOT SPRINGS CA	BLFT-91001AEE	232D 94.3	0.099 412.0	33-51-56 116-25-58	164.5	0.10 0.00	0 TRANS
KCLZ CP	TWENTYNINE PALMS CA	BAS BPH-11116AIN	283A 104.5	6.000 70.0	34-09-16 116-12-04	33.7	38.47 7.47	31 CLOSE
KQIE LIC	REDLANDS CA	BLH-00903ACG	284A 104.7	1.350 213.0	34-02-13 116-58-07	291.2	53.00 22.00	31 CLEAR
K285GU CP	CARLSBAD CA	BNPFT-30830AGP	285D 104.9	0.010 431.0	33-12-50 117-11-11	224.1	100.66 0.00	0 TRANS
NEW CP	WILDOMAR CA	BNPL-31113AIQ	285L1 104.9	0.050 -132.0	33-35-13 117-15-09	247.9	82.03 0.00	0 LPFM
VAC	EHRENBERG AZ	RM-10754*	286C2 105.1	0.000 0.0	33-48-00 114-19-12	91.6	195.74 29.74	166 CLEAR
KKGOaux LIC	LOS ANGELES CA	BXLH-40916ACT	286B 105.1	3.500 874.0	34-13-45 118-04-04	285.5	156.21 0.00	0 AUX
KKGOaux LIC	LOS ANGELES CA	BXLH-50422AEB	286B 105.1	18.000 864.0	34-13-45 118-04-04	285.5	156.21 0.00	0 AUX
KKGOaux LIC	LOS ANGELES CA	BXLH-00913AAT	286B 105.1	35.000 195.0	34-09-49 118-11-44	282.0	166.11 0.00	0 AUX
KKGO LIC	LOS ANGELES CA	BLH-870225KA	286B 105.1	18.000 880.0	34-13-45 118-04-04	285.5	156.21 -21.79	178 SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 143 KM								
KQCM LIC	NORTH SHORE CA	BLH-50522AGE	286A 105.1	6.000 27.0	33-42-09 116-00-41	114.9	43.08 -71.92	115 SHORT
KQCMaux CP	NORTH SHORE CA	BXPB-41023ABX	286A 105.1	0.350 115.0	33-47-46 116-13-17	111.7	21.09 0.00	0 AUX
KIOZ LIC	SAN DIEGO CA	BLH-70411ACO	287B 105.3	26.000 210.0	32-50-20 117-14-56	213.8	136.94 23.94	113 CLEAR
KIOZaux LIC	SAN DIEGO CA	BXLH-60517AAZ	287B 105.3	0.350 158.0	32-50-21 117-14-57	213.8	136.93 0.00	0 AUX

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SEARCH PARAMETERS                               FM Database Date: 150605
Channel: 286A    105.1 MHz                      Page 2
Latitude: 33 51 59
Longitude: 116 25 59
Safety Zone: 32 km
Job Title: KQCM 286A TRANSMIT SITE

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KWBB-LP LIC	BIG BEAR LAKE CA	BLL-20521AAS	288L1 105.5	0.008 100.0	34-15-15 116-52-32	316.7	59.32 0.00	0 LPFM
K288DR LIC	DESERT HOT SPRINGS, CA	BMLFT-90127AEN	288D 105.5	0.010 396.0	33-51-56 116-26-04	234.1	0.16 0.00	0 TRANS
KXRS CP MOD	HEMET CA	BMPH-90210AEA	288A 105.5	6.000 85.0	34-01-41 116-58-40	289.8	53.45 22.45	31 CLEAR
KXRSaux LIC	HEMET CA	BXLH-890330KC	289A 105.7	3.000 -75.0	33-44-59 116-59-53	256.2	53.89 0.00	0 AUX
KXRS LIC	HEMET CA	BLH-881116KE	289A 105.7	0.170 312.0	33-41-17 116-55-32	246.6	49.72 18.72	31 CLEAR

===== END OF FM SPACING STUDY FOR CHANNEL 286 =====

