

**ENGINEERING STATEMENT**  
**IN SUPPORT OF**  
**MINOR MODIFICATION OF A LICENSED LPTV FACILITY**  
**K25QM-D**  
**PALM SPRINGS, CA**

**Background**

Major Market Broadcasting of California, Inc. (MMBC) is the licensee of digital television translator station K25QM-D which is licensed to operate on Ch. 25 near Palm Springs, CA (LMS File No. , Facility ID 181790). MMBC, in the instant application, is seeking to increase the ERP of the proposed facility to 15 kW.

**Proposed Parameters**

MMBC is proposing the following parameters for the K25QM-D digital operation on Ch. 25:

Coordinates:	33° 52' 02.9" N (NAD83) 116° 26' 01.1" W
ERP:	15.0 kW
RCAMSL:	490.0m
RCAGL:	12.1m
Antenna:	Kathrein 3x2 750 0000049
Mask:	Full-Service

### **Interference**

An interference study was conducted of the proposed facility parameters using the FCC TVStudy software (Version 2.2.5) with the default parameters. The results of the study (copy attached hereto) show that potential interference from the proposed facility is not predicted to exceed 0.49% to any full-service DTV or Class A stations or 1.99% to any low power stations as required by the Commission's Rules.

### **Environmental/RFR**


This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation. Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report; since the structure is existing and is registered, such conditions should not be an issue requiring further consideration.

The location of the proposed facility is a multi-user site and it is assumed to currently be "in compliance" with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst-case ground level RFR contributed to the site by this proposal is calculated to be 0.125176 mW/cm<sup>2</sup> at 2m AGL. The calculated RFR is less than the maximum permissible exposure (MPE) for public areas (0.359333 mW/cm<sup>2</sup>) at Ch. 25.

MMCA agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access.

**Certification**

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.



---

Benjamin Pidek, P.E.  
March 3, 2023

Attached:  
TVStudy Interference Check Report

## TVStudy TV Interference Check Report for K25QM-D on Ch. 25

Study created: 2024.03.03 13:38:40

Study build station data: LMS TV 2024-03-03

Proposal: K25QM-D D25 LD LIC PALM SPRINGS, CA  
File number: K25QM-15k-Kat049r290  
Facility ID: 181790  
Station data: User record  
Record ID: 38  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K24NG-D	D24	LD	CP	LAKE HAVASU CITY, AZ	BLANK0000218886	206.4 km
No	K24NI-D	D24	LD	LIC	YUMA, AZ	BLANK0000064203	221.1
No	K24LS-D	D24+	LD	LIC	LUCERNE VALLEY, CA	BLANK0000115882	113.9
Yes	KPXN-TV	D24	DT	LIC	SAN BERNARDINO, CA	BLANK0000068510	155.7
No	KBNT-CD	D24	DC	LIC	SAN DIEGO, CA	BLANK0000068521	137.2
No	KVVU-TV	D24	DT	CP	HENDERSON, NV	BLANK0000185177	271.0
No	K25PJ-D	D25	LD	LIC	CHLORIDE, AZ	BLANK0000071721	267.7
No	KDVD-LD	D25	LD	CP	GLOBE, AZ	BLANK0000213831	408.6
No	K25DH-D	D25	LD	LIC	MEADVIEW, AZ	BLDTT20130308ABY	307.6
No	K25OM-D	D25	LD	LIC	PRESCOTT, AZ	BLANK0000058628	364.8
No	KJPO-LD	D25	LD	LIC	TONOPAH, AZ	BLANK0000151024	309.7
No	KGET-TV	D25	DT	LIC	BAKERSFIELD, CA	BLANK0000007394	273.8
No	KGET-TV	D25	DT	CP	BAKERSFIELD, CA	BLANK0000127615	273.8
Yes	KVEA	D25	DT	LIC	CORONA, CA	BLANK0000136469	155.4
No	DK25GK	N25+	TX	APP	JOSHUA TREE, CA	BLTT20000605AOK	49.8
No	K25QB-D	D25+	LD	LIC	LUCERNE VALLEY, CA	BLANK0000082018	77.9
No	K25PL-D	D25	LD	LIC	RIDGECREST, CA	BLANK0000068896	212.5
No	KLFA-LD	D25	LD	LIC	SANTA MARIA, CA	BLDTL20120411AAJ	378.0
No	K25AD-D	D25	LD	LIC	VICTORVILLE, ETC., CA	BLANK0000137803	113.9
No	KHAX-LD	D25	LD	LIC	VISTA, CA	BLANK0000106760	100.8
No	KPVM-LD	D25	LD	LIC	LAS VEGAS, NV	BLANK0000112505	263.5
No	K26OK-D	D26	LD	CP	LAKE HAVASU CITY, AZ	BLANK0000218888	206.4
No	KUVI-DT	D26	DT	LIC	BAKERSFIELD, CA	BLANK0000081232	273.8
No	K26MW-D	D26	LD	LIC	LUCERNE VALLEY, CA	BLANK0000116236	113.9
No	K26PR-D	D26	LD	LIC	NEEDLES, CA	BLANK0000178666	198.4
No	KMIR-TV	D26	DT	LIC	PALM SPRINGS, CA	BLANK0000075143	0.1
No	KMRZ-LD	D26	LD	LIC	POMONA, CA	BLANK0000168080	122.0
Yes	KSWB-TV	D26	DT	LIC	SAN DIEGO, CA	BLANK0000232314	138.3
No	KSKJ-CD	D26	DC	LIC	VAN NUYS, CA	BLANK0000071612	154.8
No	KTNV-TV	D26	DT	CP	LAS VEGAS, NV	BLANK0000233695	263.5
No	KRVD-LD	N33+	TX	LIC	BANNING, CA	BLTTL20070103ACI	39.9
No	CADENATRES	D24	DT	LIC	ENSENADA, BN	BLANKBPFS20160524AAT	221.9
Yes	XHEXT	D25	DT	LIC	MEXICALI, BN	BLANKBPFS20050721BFG	164.8
No	CADENATRES	D25	DT	LIC	SAN QUINTIN SAN TELM, BN	BLANKBPFS20160524AAX	354.5
No	CADENATRES	D25	DT	LIC	PUERTO PENASCO, SO	BLANKBPFS20130710AAD	393.3
No	XHEBC	D26	DT	LIC	ENSENADA, BN	BLANKBPFS20160301ABP	222.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:  
KPSF 1200 L DA2 D CATHEDRAL CITY, CA BMML20120312ADG  
KPSF 1200 L DA2 N CATHEDRAL CITY, CA BMML20120312ADG

## *Ben Pidek Consulting, LLC*

---

KXPS 1010 L DA2 D THOUSAND PALMS, CA BMML20130320AFG  
KXPS 1010 L DA2 N THOUSAND PALMS, CA BMML20130320AFG

Record parameters as studied:

Channel: D25  
Mask: Full Service  
Latitude: 33 52 2.90 N (NAD83)  
Longitude: 116 26 1.10 W  
Height AMSL: 490.0 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Kathrein-3x2 750 0000049 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.90

49.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.144 kW	-77.4 m	11.0 km
45.0	0.025	-223.7	7.2
90.0	0.175	178.8	27.1
135.0	6.81	420.0	58.3
180.0	9.84	363.3	57.8
225.0	8.08	349.6	56.1
270.0	12.6	232.7	52.1
315.0	0.733	210.7	36.1

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 182 m

Distance to Canadian border: 1682.0 km

\*\*Proposal is within coordination distance of Mexican border  
Distance to Mexican border: 141.1 km

Conditions at FCC monitoring station: Livermore CA  
Bearing: 313.3 degrees Distance: 643.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 51.7 degrees Distance: 1210.0 km

Study cell size: 1.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

---- Below is IX received by proposal K25QM-15k-Kat049r290 ----

Proposal receives 13.05% interference from scenario 1  
No IX check failures found.