

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/cm² at 2m AGL. The calculated RFR is less than the maximum permissible exposure (MPE) for public areas (0.359333 mW/cm²) 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 Pattnr: 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.