

March 2023
FM Translator K238BS
Kingman, Arizona Channel 258D
Allocation Study

Background and Non-Adjacent Channel Change

This application is being filed as a minor modification of the licensed facility of FM translator K238BS, proposing operation on Channel 258D. K238BS presently operates on Channel 238D, which is cochannel with the KWNR 238C Henderson. As is demonstrated on the attached map exhibit, the K238BS 60 dBu contour is completely overlapped by the cochannel 40 dBu interfering contour of KWNR, which results in a received interference area. The interference from KWNR will be completely eliminated by modifying K238BS to non-adjacent Channel 258D.

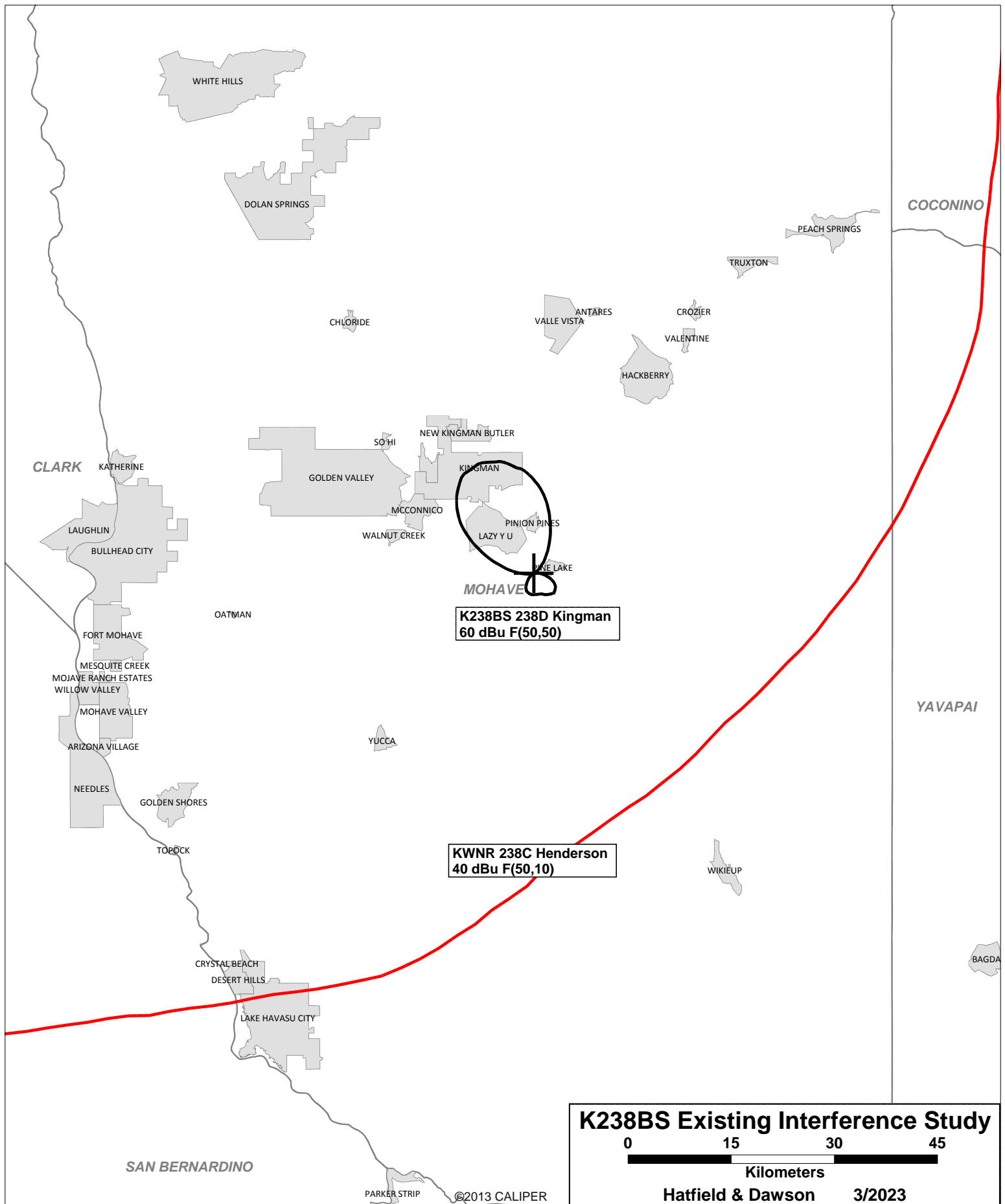
Allocation Study

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.

K256AA Kingman

KGMN 261C2 Kingman

The proposed translator transmitter site is located within the 60 dBu protected contours of second- and third-adjacent channel stations K256AA and KGMN. The 100 dBu contour extends at most 222 meters from the antenna per a Free Space calculation. There are no populated areas within this radius, which encompasses only transmitter buildings at the mountaintop transmitter site. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to K256AA and KGMN.



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SEARCH PARAMETERS

FM Database Date: 20230221

Channel: 258A 99.5 MHz

Page 1

Latitude: 35 4 53.0 (NAD83)

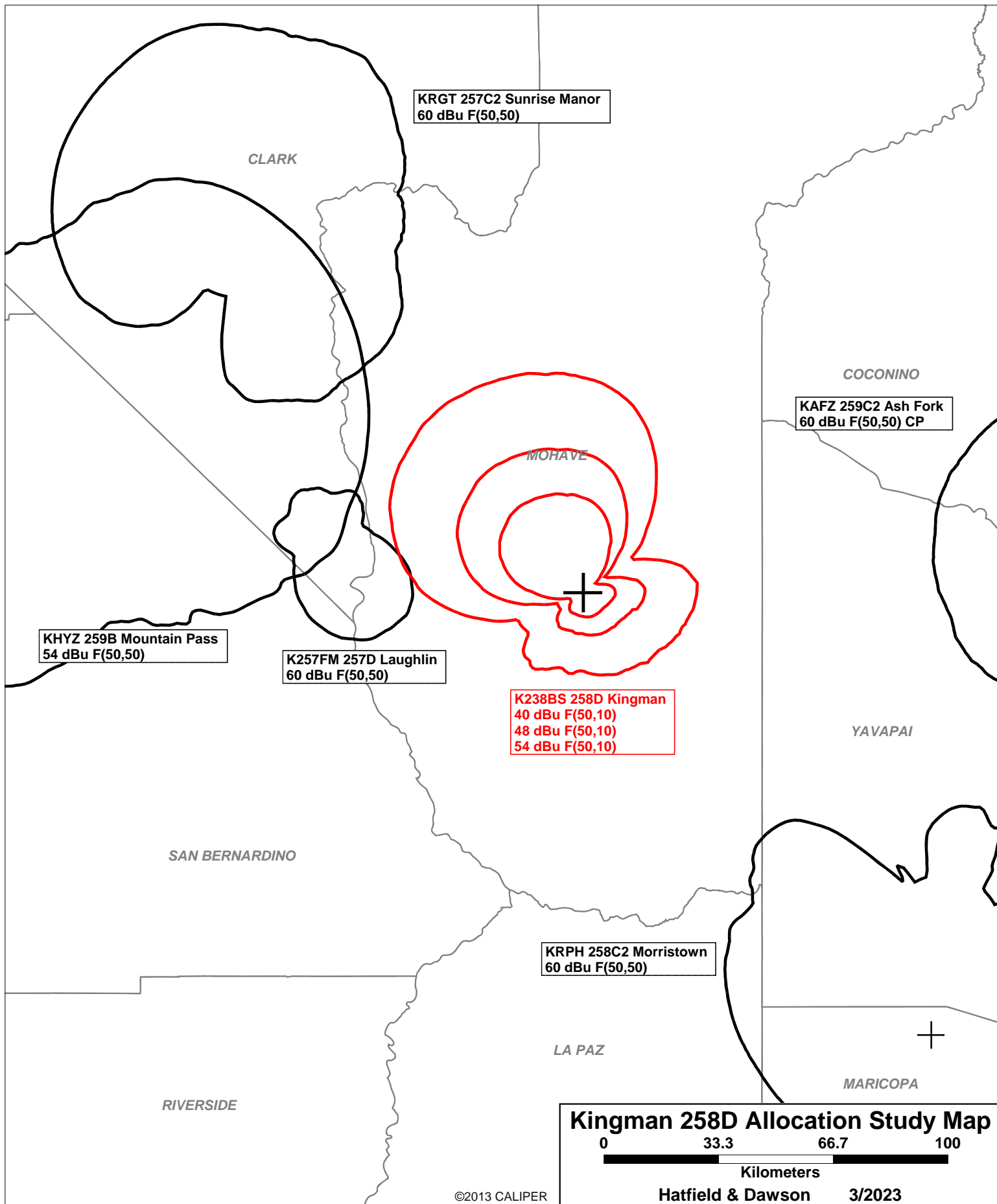
Longitude: 113 54 17.4

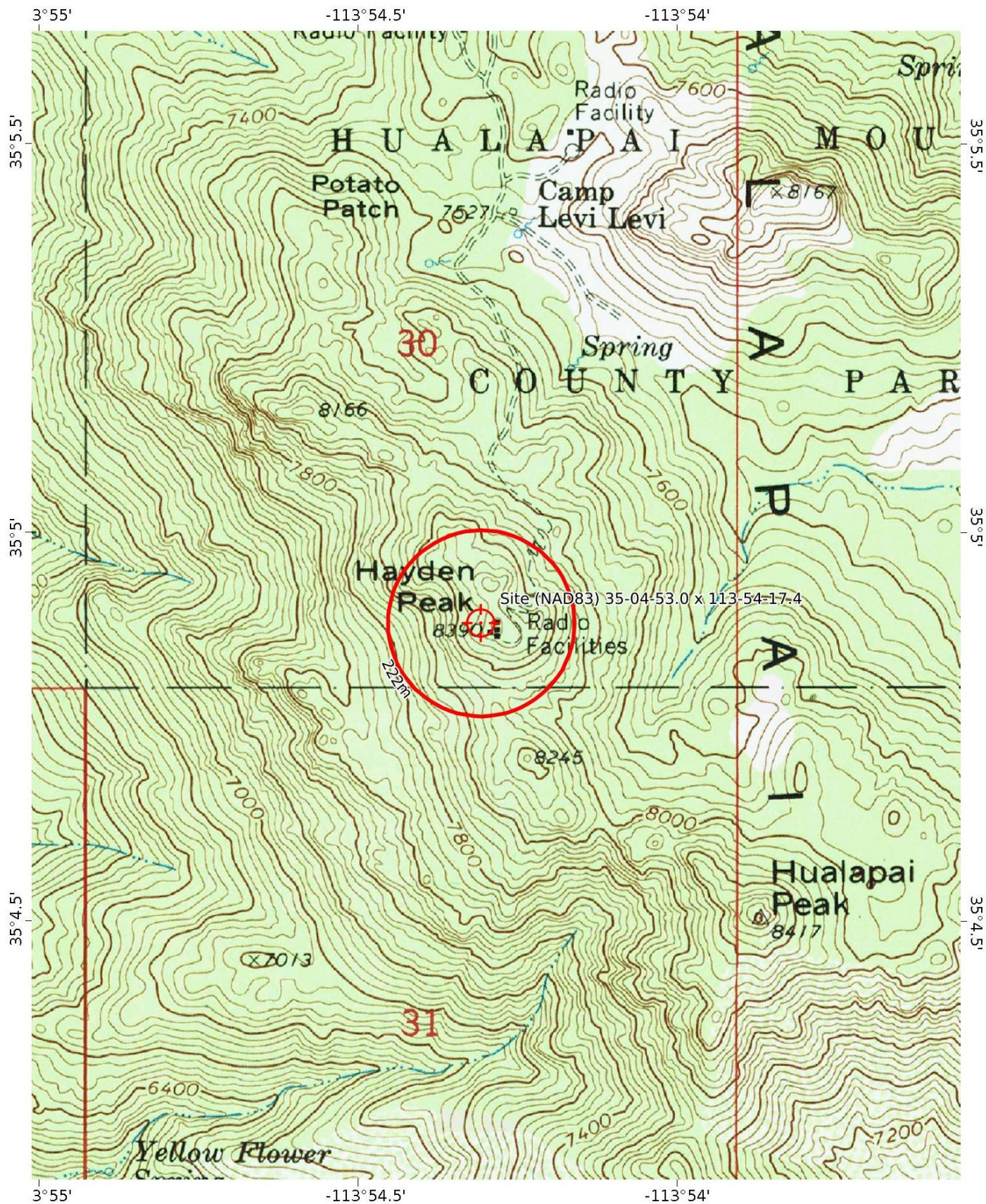
Safety Zone: 50 km

Job Title: KINGMAN 258

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KHWY LIC	ESSEX CA	BLH-20060320ADE	255B 98.9	9.000 348.0	34 52 49.9 115 4 8.9	258.4	108.62 39.62	69 CLEAR
K256AA LIC	KINGMAN AZ	BLFT-19920608TD	256D 99.1	0.010 0.0	DA 35 4 52.0 113 54 14.8	115.2	0.07 0.00	0 TRANS
KRGT LIC	SUNRISE MANOR NV	0000136549	257C2 99.3	8.800 351.0	36 0 34.9 115 0 23.0	316.3	143.48 37.48	106 CLEAR
K257FM LIC	LAUGHLIN NV	BLFT-20140724ACH	257D 99.3	0.250 0.0	DA 35 14 47.9 114 44 34.8	283.8	78.53 0.00	0 TRANS
KRPH LIC	MORRISTOWN AZ	0000106194	258C2 99.5	7.900 371.0	34 11 32.1 112 45 13.0	132.9	144.47 -21.53	166 SHORT
KHYZ LIC	MOUNTAIN PASS CA	BMLH-20020228ADC	259B 99.7	8.400 551.0	35 29 26.9 115 33 29.9	287.4	157.13 44.13	113 CLEAR
KAFZ CP	ASH FORK AZ	0000158738	259C2 99.7	1.000 757.0	35 12 0.0 112 12 18.0	84.6 SS	155.47 49.47	106 CLEAR
K260BR LIC	LAKE HAVASU CITY AZ	BLFT-20110826ADS	260D 99.9	0.034 0.0	DA 34 33 6.0 114 11 39.8	204.3	64.46 0.00	0 TRANS
KGMN-FM1 LIC	BULLHEAD CITY AZ	BLFTB-20050601CE	261D 100.1	0.003 0.0	DA 35 2 5.0 114 22 12.8	263.1	42.77 0.00	0 BOOST
KGMN LIC	KINGMAN AZ	BMLH-20020213AAY	261C2 100.1	0.910 883.0	35 6 37.0 113 52 57.8	32.0	3.79 -51.21	55 SHORT

===== END OF FM SPACING STUDY FOR CHANNEL 258 =====





Mercator Projection

WGS84

UTM Zone 12S



Hatfield & Dawson Consulting Engineers

**March 2023
FM Translator K238BS
Kingman, Arizona Channel 258D
RF Exposure Study**

Facilities Proposed

The proposed operation will be on Channel 258D (99.5 MHz) with a maximum lobe effective radiated power of 10 watts. Operation is proposed with a vertically-polarized antenna to be mounted on an existing support structure on Hayden Peak, replacing the existing K238BS antenna.

The proposed antenna support structure will not exceed 60.96 meters (200 feet) above ground and does not require notification to the Federal Aviation Administration. Therefore, this structure does not require an Antenna Structure Registration Number.

RF Exposure

Table 1 of Section 1.1307(B)(3)(I)(C) of the Commission's Rules exempts facilities operating within 30-300 MHz from the requirement to submit an Environmental Assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency electromagnetic fields, if the threshold ERP in watts is less than the value derived from the formula: $3.83R^2$, where R is at least $\lambda/2\pi$.

In this particular case, $\lambda/2\pi$ would be equal to 0.48 meters, and R would be equal to 4 meters. The threshold ERP equals 61 watts. The applicant proposes operation with a maximum lobe effective radiated power of 10 watts and the proposal is therefore exempted from a requirement of further study. Nonetheless, public access to the site is restricted and all station personnel and contractors are required to follow appropriate safety procedures, including turning off the transmitter if necessary, prior to commencing work on the antenna tower.

