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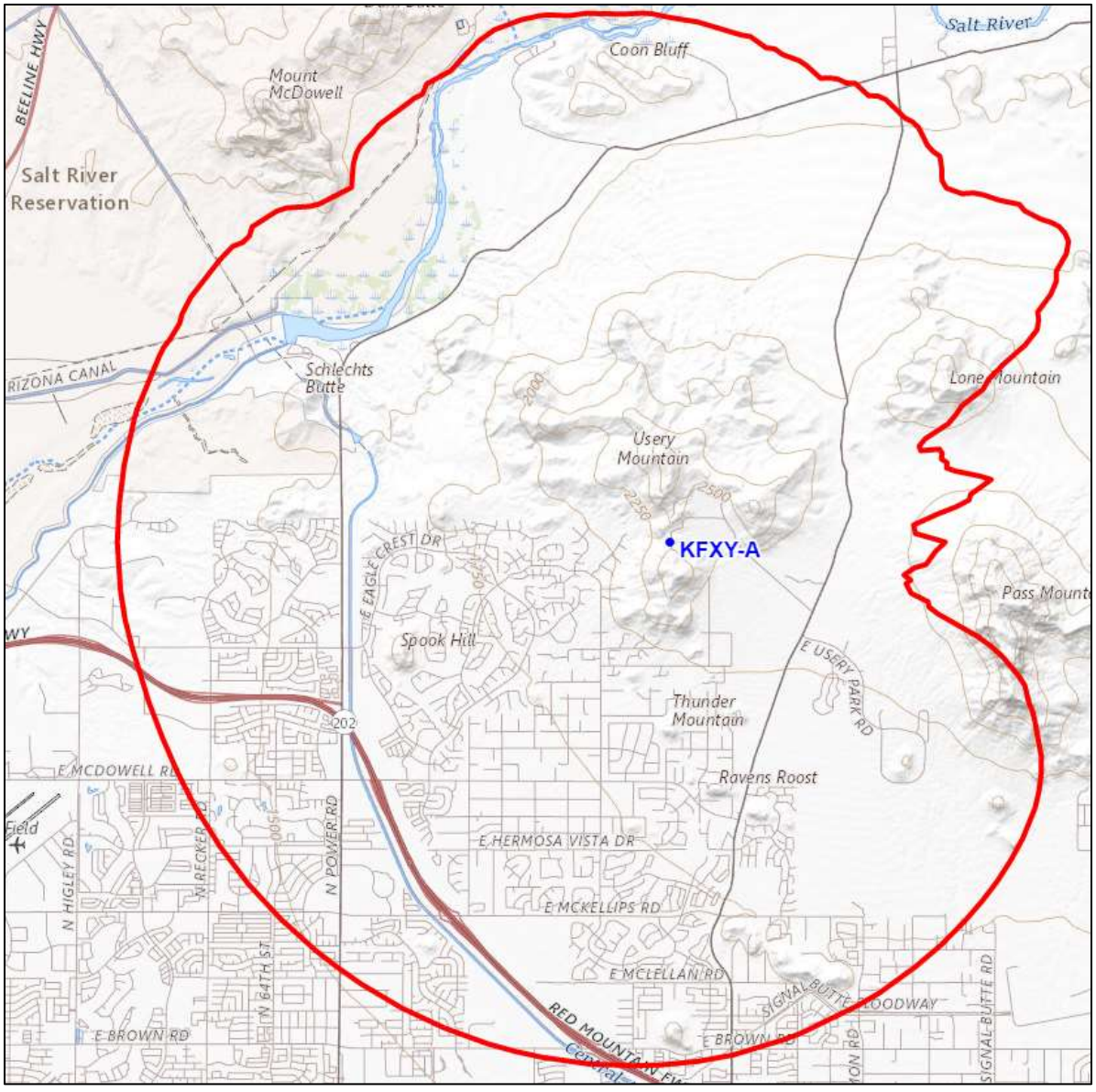
Modification of Construction Permit for **KFXY-LP**
MESA, AZ
SAN TAN EDUCATIONAL MEDIA
CP File # 0000106420

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



MESA, AZ – Channel 258LP100 (99.5 MHz) ~ ERP 0.002 kW
Elev: 757 meters ~ RCAGL: 6 meters ~ RCAMSL: 763 meters ~ HAAT: 260 meters
Overall tower height: 46 meters – ASR: Not necessary – no nearby airports.
NAD83 Latitude: 33° 29’ 32.6” NL – Longitude: 111° 38’ 26.3” WL
NAD27 Latitude: 33° 29’ 32.8” NL – Longitude: 111° 38’ 23.8” WL
No AM stations within 5 km.

R E C NETWORKS
CHANNEL REPORT

NAD27 LATITUDE: 33 - 29' 32.8" - LONGITUDE: 111 - 38' 23.8"
CHANNEL: 258 - CLASS: LP100

CHAN	FREQ	CALL	LOCATION		CLS	DIST	REQ	CLEAR	BEAR
255	98.9	KZXK	DONEY PARK	AZ	C2	193.9	0.0	193.9	1.1
: COCHISE BROADCASTING LLC									
255	98.9	KPIH-LP	PAYSON	AZ	L1	89.7	0.0	89.7	19.6
: RIM CATHOLIC EVANGELIZATION ASSOC.									
256	99.1	K256DK	PHOENIX	AZ	D3	26.1	14.0	12.1	200.5
: ROCKET RADIO CORPORATION									
256	99.1	K256DK	PHOENIX	AZ	D8	0.0	21.0	-21.0	17.1
: ROCKET RADIO CORPORATION									
257	99.3	KEMP	PAYSON	AZ	C2	81.7	80.0	1.7	19.8
: KEMP COMMUNICATIONS, INC.									
257	99.3	KEMP	PAYSON	AZ	C3	81.7	67.0	14.7	19.8
: KEMP COMMUNICATIONS, INC.									
257	99.3	KRWV-LP	GOLD CANYON	AZ	L1	25.5	14.0	11.5	130.9
: GOLD CANYON PUBLIC RADIO INC									
257	99.3	KRWV-LP	GOLD CANYON	AZ	L1	25.5	14.0	11.5	131.0
: GOLD CANYON PUBLIC RADIO INC									
257	99.3	K257CD	PHOENIX	AZ	D8	43.0	28.0	15.0	285.4
: LPFM BROADCASTING, LLC									
258	99.5	KIIM-FM	TUCSON	AZ	C	146.4	130.0	16.4	160.4
: RADIO LICENSE HOLDING CBC, LLC									
258	99.5	KFXY-LP	MESA	AZ	L1	0.1	24.0	-23.9	188.8
: SAN TAN EDUCATIONAL MEDIA									
> Currently authorized facility.									
258	99.5	KRPH	MORRISTOWN	AZ	C2	129.0	91.0	38.0	307.4
: DEPORTES Y MUSICA COMUNICACIONES LLC									
260	99.9	KESZ	PHOENIX	AZ	C	43.0	93.0	-50.0	245.8
: IHM LICENSES, LLC									
260	99.9	KESZ	PHOENIX	AZ	C	42.9	93.0	-50.1	245.8
: IHM LICENSES, LLC									
261	100.1	KVNA-FM	FLAGSTAFF	AZ	C2	164.1	0.0	164.1	4.1
: YAVAPAI BROADCASTING CORPORATION									

NATURE OF APPLICATION AND REQUEST FOR WAIVER OF §73.807 SHORT-SPACED SECOND ADJACENT CHANNEL, IF NECESSARY

KFXY-LP
Mesa, Arizona
Channel 258LP100 (99.5 MHz)

In the instant application, San Tan Educational Media (STEM) is requesting to modify granted construction permit File No. 0000106420.

In this modification, STEM will remain on Channel 258LP100 (99.5 MHz) but will move to an adjacent site on Usery Mountain.

KFXY-LP is already licensed on Channel 258 under waivers in respect to the licensed facility of KESZ, Phoenix, Arizona and for the construction permit for K256DK, Phoenix, Arizona.[1] Pursuant to §73.808 and §73.208(c) of the Commission's Rules, the distance between the proposed LPFM site and these short-spaced stations is not changing.

We do note that there was a subsequently granted authorization for KESZ. In that case, the spacing is not being lessened, therefore, any additional protections may not be required.[2]

Station	Application	Distance from current site	Distance from proposed site
K256DK	License 0000125313	0 km	0 km
K256DK	Modification 0000129785	26 km	26 km
KESZ	License BLH-19970324KD	43 km	43 km
KESZ	Modification 0000123823	43 km	43 km

If any new waivers of §73.807 is necessary, we present the following:

K256DK places a service contour in excess of a 120 dBu service contour at the proposed LPFM antenna.

The granted modification for K256DK does not have any overlap between the 100 dBu interfering contour of the proposed LPFM facility and the 60 dBu service contour of the authorized modification.

The KESZ licensed facility places a service contour of 77.4 dBu at the proposed LPFM site.

The KESZ modified facility places a service contour of 77.2 dBu at the proposed LPFM site.

[1] See File Nos. BPFT-20180625ABP and BMPFT-20180706ABB.

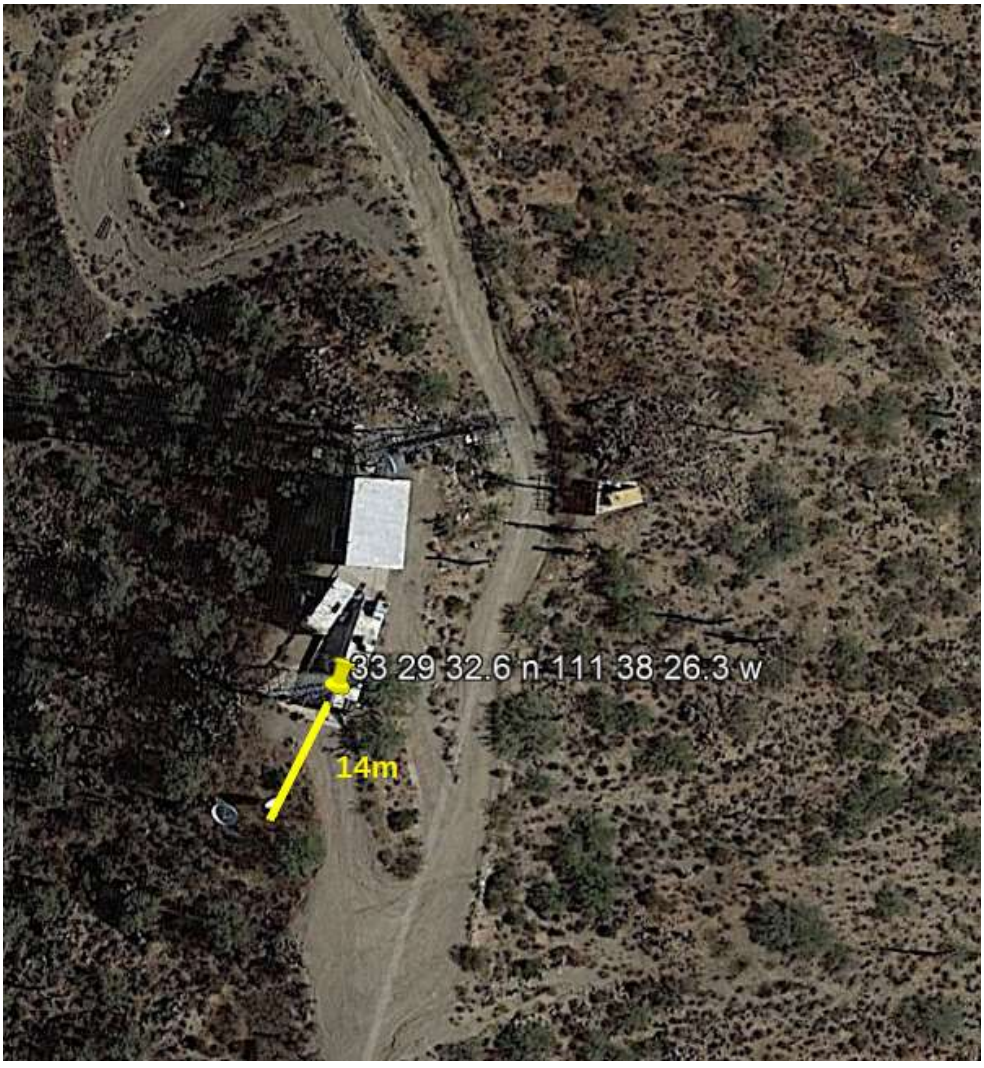
[2] See 47 U.S.C. §73.807(a)(1) ("LPFM modification applications must meet either the distance separations in the following table or, if short-spaced, not lessen the spacing to subsequently authorized stations.")

At 2 watts ERP, the 117.2 dBu interfering contour would extend to 14 meters from the radiation center of the antenna. The transmitter site is located on a remote mountain top with no public access. There are no occupied structures within 14 meters of the radiation center. The only nearby structures are for the operation of the transmitter sites on Usery Mountain and are not regularly occupied.

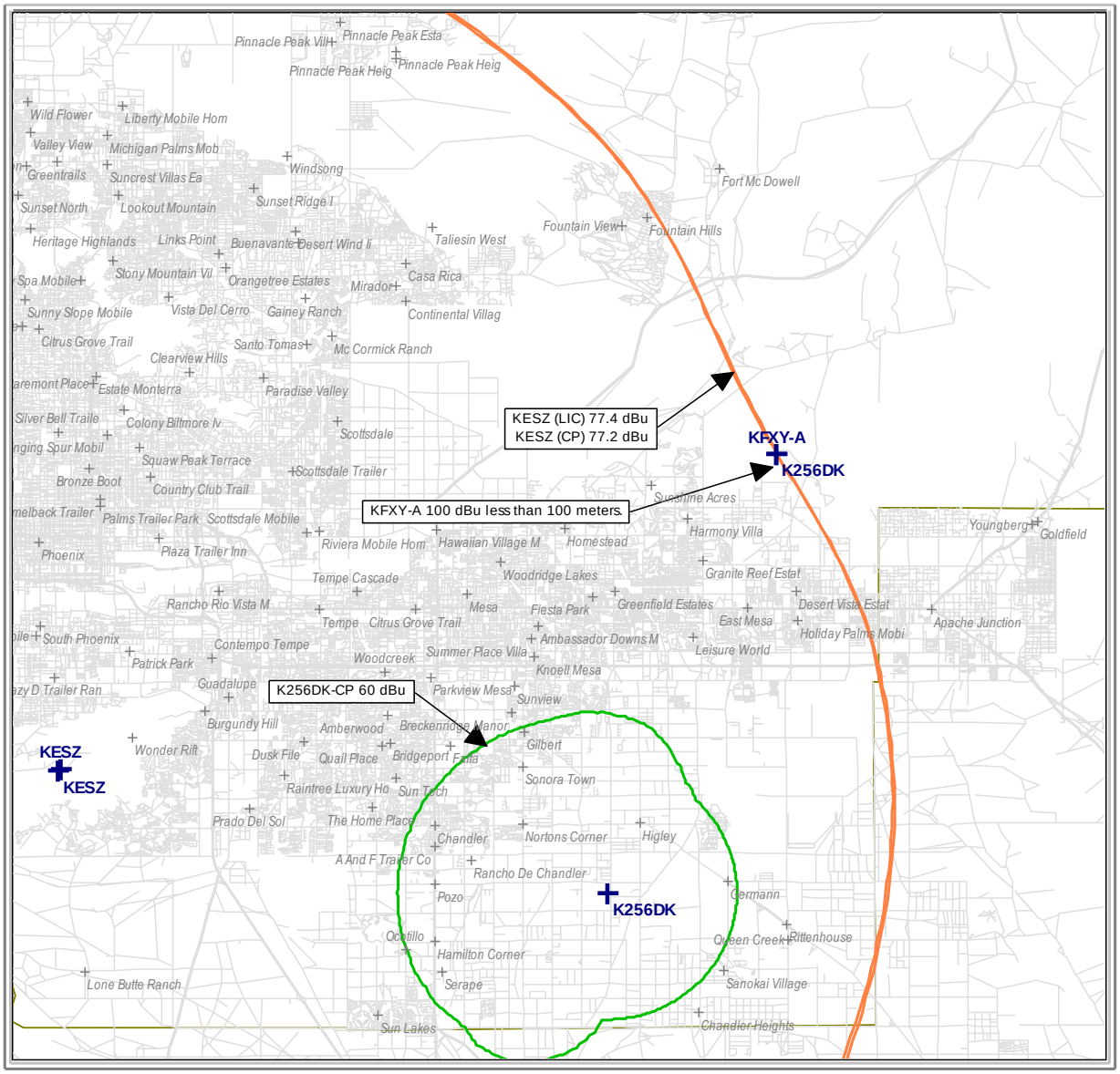
Therefore, the modification of KFXY-LP does not interfere with the licensed or modified facilities of KESZ or K256DK. If necessary in this case, STEM requests a waiver of §73.807 of the Commission's Rules in respect to KESZ and K256DK.

Prepared by
/S/
Michelle Bradley, CBT
REC Networks

March 8, 2021



KFXY 99.5 - Second Adjacent K256DK & KESZ



Map Scale: 1:300512 1 cm = 3.01 km V|H Size: 58.22 x 59.34 km

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude **33° 29' 32.6"** North
Longitude **111° 38' 26.3"** West (NAD 83)

Height of antenna radiation center above mean sea level: **763** meters AMSL

Number of Evenly Spaced Radials = **8** 0° is referenced to True North

Results

Calculated HAAT = **260 meters**

Antenna Height Above Average Terrain calculated
using 1 km GLOBE terrain data

Individual "Radial HAAT" Values, in meters

0°	305.4 m
45°	237.0 m
90°	57.3 m
135°	228.1 m
180°	302.5 m
225°	336.8 m
270°	358.2 m
315°	252.4 m