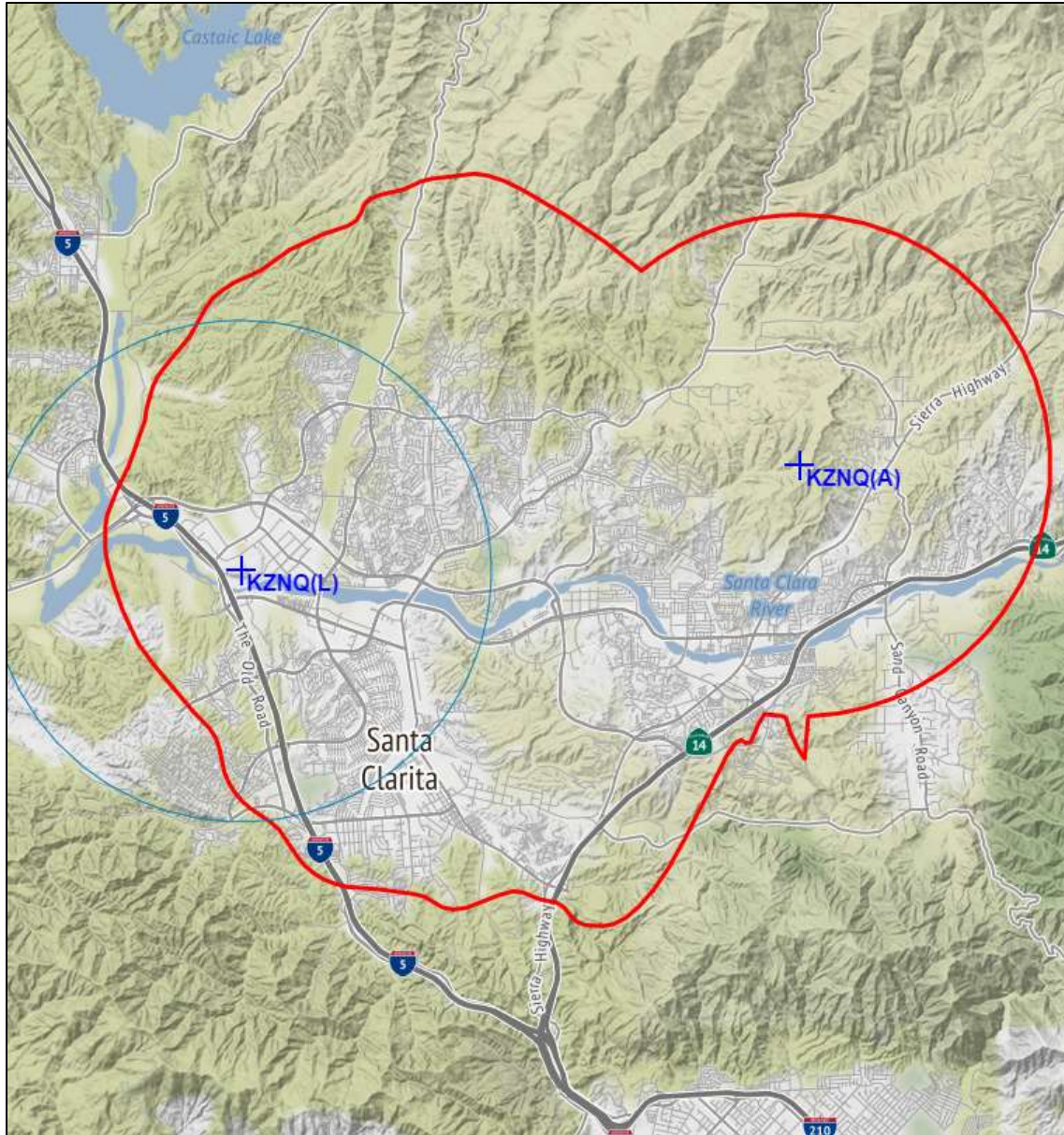




REC Networks
11541 Riverton Wharf Rd.
Mardela Springs, MD 21837
844.REC.LPFM/202.621.2355
recnet.com

Amendment *nunc pro tunc* for KZNQ-LP
SANTA CLARITA, CA
SANTA CLARITA PUBLIC SERVICE BROADCASTERS CORP.
BPL-20170718AGM

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



SANTA CLARITA, CA – Channel 269L1 (99.9 MHz) ~ ERP 0.100 kW
Elev: 616 meters ~ RCAGL: 9 meters ~ RCAMSL: 625 meters ~ HAAT: 2m
Overall tower height: 9 meters – ASR: None (no nearby airports)
NAD83 Latitude: 34° 27' 01.7" NL – Longitude: 118° 26' 41.6" WL
NAD27 Latitude: 34° 27' 01.7" NL – Longitude: 118° 26' 38.3" WL

R E C NETWORKS
CHANNEL REPORT

NAD27 LATITUDE: 34 - 27' 01.7" - LONGITUDE: 118 - 26' 38.3"
CHANNEL: 260 - CLASS: LPFM(LP-100)

| CHAN | FREQ | CALL | LOCATION | CLS | DIST | REQ | CLEAR | BEAR |
|------|-------|---|------------------|-------|-------|-------|-------|-------|
| 258 | 99.5 | KKLA-FM : NEW INSPIRATION BROADCASTING CO., INC. | LOS ANGELES | CA B | 43.2 | 67.0 | -23.8 | 125.6 |
| 258 | 99.5 | KVRY-LP : CALVARY CHAPEL OF SANTA BARBARA | SANTA BARBARA | CA L1 | 113.9 | 0.0 | 113.9 | 268.4 |
| 259 | 99.7 | K259BD : HIGH DESERT BROADCASTING LLC | ROSAMOND | CA D4 | 63.9 | 21.0 | 42.9 | 23.2 |
| 259 | 99.7 | K259BD : HIGH DESERT BROADCASTING LLC | ROSAMOND | CA D2 | 49.5 | 15.0 | 34.5 | 18.2 |
| 260 | 99.9 | KTYD : RINCON BROADCASTING LS LLC | SANTA BARBARA | CA B | 113.2 | 112.0 | 1.2 | 271.4 |
| 260 | 99.9 | KOLA : INLAND EMPIRE BROADCASTING CORP. | SAN BERNARDINO | CA B | 119.3 | 112.0 | 7.3 | 116.5 |
| 261 | 100.1 | KKZQ : HIGH DESERT BROADCASTING LLC | TEHACHAPI | CA A | 69.6 | 56.0 | 13.6 | 5.6 |
| 262 | 100.3 | KPUV-LP : PROJECT UNDERSTANDING | VENTURA | CA L1 | 80.3 | 0.0 | 80.3 | 258.2 |
| 262 | 100.3 | KSWD : ENTERCOM LICENSE, LLC | LOS ANGELES | CA B | 42.7 | 67.0 | -24.3 | 125.6 |
| 262 | 100.3 | KSWD-FM2 : ENTERCOM LICENSE, LLC | SANTA CLARITA | CA D | 19.5 | 6.0 | 13.5 | 226.6 |
| 262 | 100.3 | KPUV-LP : PROJECT UNDERSTANDING | VENTURA | CA L1 | 74.5 | 0.0 | 74.5 | 255.2 |
| 263 | 100.5 | KPSI-FM : ALPHA MEDIA LICENSEE LLC | PALM SPRINGS | CA B1 | 195.7 | 0.0 | 195.7 | 106.1 |
| 263 | 100.5 | KMQA : CASA MEDIA PARTNERS, LLC | EAST PORTERVILLE | CA B | 148.1 | 0.0 | 148.1 | 348.9 |

Site: KZNQ(APP)
 Coordinates: 34-27-01.7 N, 118-26-38.3 W
 Freq: 99.90000 MHz
 ERP: 100.00 W

| Bearing | ERP W | HAAT | DH | Distance | Lat | Lon |
|---------|--------|------|------|----------|-----------|-------------|
| 0 | 100.00 | -99 | 270 | 5.65 | 34.501255 | -118.443972 |
| 5 | 100.00 | -127 | 380 | 5.65 | 34.501061 | -118.438602 |
| 10 | 100.00 | -176 | 270 | 5.65 | 34.500483 | -118.433272 |
| 15 | 100.00 | -178 | 380 | 5.65 | 34.499523 | -118.428024 |
| 20 | 100.00 | -192 | 410 | 5.65 | 34.498190 | -118.422897 |
| 25 | 100.00 | -241 | 450 | 5.65 | 34.496494 | -118.417932 |
| 30 | 100.00 | -251 | 430 | 5.65 | 34.494447 | -118.413164 |
| 35 | 100.00 | -274 | 580 | 5.65 | 34.492066 | -118.408632 |
| 40 | 100.00 | -213 | 460 | 5.65 | 34.489368 | -118.404369 |
| 45 | 100.00 | -153 | 490 | 5.65 | 34.486373 | -118.400408 |
| 50 | 100.00 | -132 | 480 | 5.65 | 34.483106 | -118.396778 |
| 55 | 100.00 | -137 | 490 | 5.65 | 34.479590 | -118.393509 |
| 60 | 100.00 | -126 | 440 | 5.65 | 34.475852 | -118.390623 |
| 65 | 100.00 | -127 | 380 | 5.65 | 34.471921 | -118.388144 |
| 70 | 100.00 | -122 | 330 | 5.65 | 34.467827 | -118.386091 |
| 75 | 100.00 | -97 | 370 | 5.65 | 34.463601 | -118.384478 |
| 80 | 100.00 | -96 | 250 | 5.65 | 34.459276 | -118.383318 |
| 85 | 100.00 | -86 | 460 | 5.65 | 34.454883 | -118.382620 |
| 90 | 100.00 | -60 | 610 | 5.65 | 34.450457 | -118.382389 |
| 95 | 100.00 | -20 | 1040 | 5.65 | 34.446031 | -118.382627 |
| 100 | 100.00 | -70 | 1110 | 5.65 | 34.441639 | -118.383331 |
| 105 | 100.00 | -144 | 1140 | 5.65 | 34.437314 | -118.384497 |
| 110 | 100.00 | -169 | 680 | 5.65 | 34.433090 | -118.386115 |
| 115 | 100.00 | -212 | 490 | 5.65 | 34.428998 | -118.388173 |
| 120 | 100.00 | -269 | 620 | 5.65 | 34.425069 | -118.390656 |
| 125 | 100.00 | -269 | 720 | 5.65 | 34.421334 | -118.393544 |
| 130 | 100.00 | -228 | 840 | 5.65 | 34.417821 | -118.396815 |
| 135 | 100.00 | -181 | 1030 | 5.65 | 34.414556 | -118.400445 |
| 140 | 100.00 | -135 | 840 | 5.65 | 34.411564 | -118.404406 |
| 145 | 100.00 | -94 | 730 | 5.65 | 34.408869 | -118.408667 |
| 150 | 100.00 | -62 | 630 | 5.65 | 34.406489 | -118.413197 |
| 155 | 100.00 | -61 | 640 | 5.65 | 34.404445 | -118.417960 |
| 160 | 100.00 | -38 | 610 | 5.65 | 34.402750 | -118.422922 |
| 165 | 100.00 | -43 | 670 | 5.65 | 34.401419 | -118.428043 |
| 170 | 100.00 | -19 | 570 | 5.65 | 34.400461 | -118.433285 |
| 175 | 100.00 | -12 | 520 | 5.65 | 34.399883 | -118.438608 |
| 180 | 100.00 | 38 | 470 | 6.30 | 34.393834 | -118.443972 |
| 185 | 100.00 | 17 | 550 | 5.65 | 34.399883 | -118.449336 |
| 190 | 100.00 | 35 | 520 | 6.03 | 34.397033 | -118.455392 |
| 195 | 100.00 | 47 | 620 | 7.00 | 34.389664 | -118.463716 |
| 200 | 100.00 | 104 | 280 | 10.52 | 34.361576 | -118.483165 |
| 205 | 100.00 | 124 | 420 | 11.41 | 34.357417 | -118.496529 |
| 210 | 100.00 | 124 | 360 | 11.41 | 34.361548 | -118.506155 |
| 215 | 100.00 | 136 | 430 | 11.93 | 34.362530 | -118.518549 |
| 220 | 100.00 | 159 | 410 | 12.97 | 34.361046 | -118.534838 |
| 225 | 100.00 | 174 | 430 | 13.62 | 34.363817 | -118.548895 |
| 230 | 100.00 | 194 | 430 | 14.33 | 34.367542 | -118.563622 |
| 235 | 100.00 | 194 | 540 | 14.33 | 34.376457 | -118.571931 |
| 240 | 100.00 | 204 | 580 | 14.68 | 34.384361 | -118.582560 |
| 245 | 100.00 | 199 | 510 | 14.51 | 34.395237 | -118.587306 |
| 250 | 100.00 | 210 | 440 | 14.89 | 34.404572 | -118.596505 |
| 255 | 100.00 | 223 | 310 | 15.36 | 34.414604 | -118.605753 |
| 260 | 100.00 | 228 | 250 | 15.54 | 34.426081 | -118.610893 |
| 265 | 100.00 | 228 | 310 | 15.54 | 34.438171 | -118.612847 |
| 270 | 100.00 | 215 | 490 | 15.06 | 34.450362 | -118.608281 |
| 275 | 100.00 | 205 | 610 | 14.72 | 34.461905 | -118.603908 |
| 280 | 100.00 | 191 | 800 | 14.23 | 34.472598 | -118.596835 |
| 285 | 100.00 | 177 | 760 | 13.73 | 34.482356 | -118.588715 |
| 290 | 100.00 | 155 | 690 | 12.80 | 34.489785 | -118.575250 |
| 295 | 100.00 | 138 | 1380 | 12.02 | 34.496109 | -118.562871 |
| 300 | 100.00 | 123 | 1280 | 11.37 | 34.501559 | -118.551440 |
| 305 | 100.00 | 110 | 660 | 10.80 | 34.506131 | -118.540497 |
| 310 | 100.00 | 95 | 500 | 10.06 | 34.508623 | -118.528113 |
| 315 | 100.00 | 71 | 550 | 8.71 | 34.505818 | -118.511156 |
| 320 | 100.00 | 35 | 660 | 6.03 | 34.492033 | -118.486292 |
| 325 | 100.00 | -6 | 920 | 5.65 | 34.492066 | -118.479313 |
| 330 | 100.00 | -36 | 920 | 5.65 | 34.494447 | -118.474780 |
| 335 | 100.00 | -68 | 720 | 5.65 | 34.496494 | -118.470013 |
| 340 | 100.00 | -102 | 610 | 5.65 | 34.498190 | -118.465047 |
| 345 | 100.00 | -117 | 490 | 5.65 | 34.499523 | -118.459921 |
| 350 | 100.00 | -130 | 380 | 5.65 | 34.500483 | -118.454672 |
| 355 | 100.00 | -98 | 470 | 5.65 | 34.501061 | -118.449343 |

WAIVER OF §73.807(a) REQUEST
SHORT-SPACED SECOND ADJACENT CHANNEL

KZNQ-LP
Santa Clarita, California
Channel 260L1 (99.9 MHz)

The proposed modification is second-adjacent channel short-spaced to full power stations KKLA and KSWD, both at Los Angeles, California.

KKLA is a super-power Class B station on Channel 258B with 10 kW into a directional antenna from Mount Wilson at 902 meters above average terrain. KKLA places a 65.7 dBu F[50, 50] service contour at the proposed LPFM site.

KSWD is a super-power Class B on Channel 262B with 5.4 kW into a non-directional antenna from Mount Wilson at 889 meters above average terrain. KSWD places a 67.5 dBu F[50, 50] service contour at the proposed LPFM site.

When evaluating multiple short-spaced second adjacent channel stations, we further evaluate the weaker station that will result in the largest interfering contour from the LPFM station. In this case, that would be KKLA.

The proposed LPFM antenna radiation center will be at 9 meters above ground level and proposes operation at 100 watts ERP.

Using the U/D method¹, the proposed LPFM station is predicted to produce an undesired interference overlap in respect to KKLA to the proposed LPFM station's 105.7 dBu F[50, 10] interfering contour ("overlap zone"). At 100 watts ERP, the overlap zone extends to 364 meters from the radiation center.

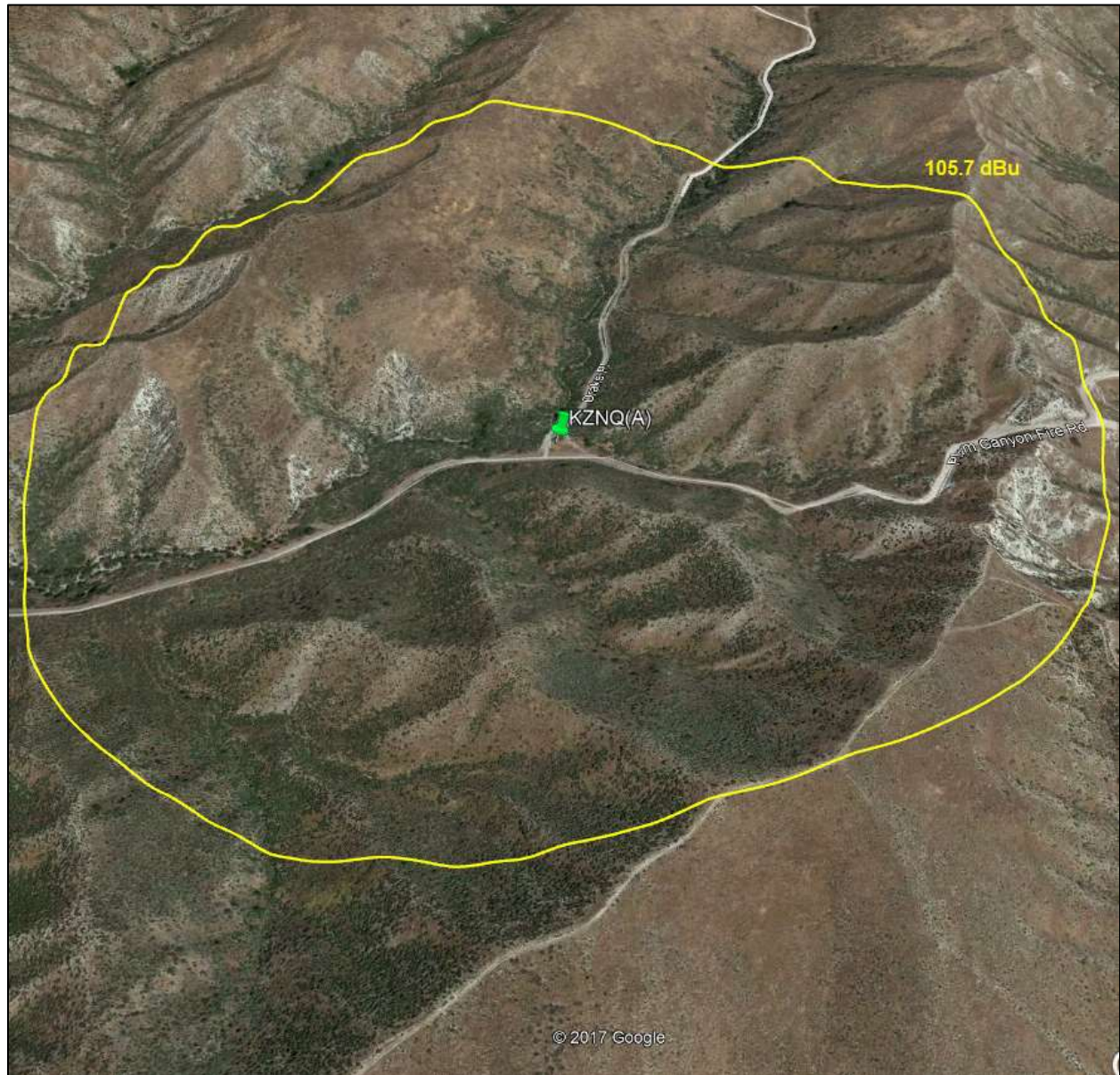
The proposed LPFM site is in the foothills above the Santa Clarita Valley. In the following satellite photograph, we will demonstrate that there are no structures or 4-lane signed state highways within the 105.7 dBu interfering contour.

Based on these findings, the proposed modified LPFM station will not create any interference to listeners or potential listeners of KKLA and KSWD. Santa Clarita Public Service Broadcasters, Corp. (SCPSB) is requesting a waiver of §73.807(a) in respect to second-adjacent channel short-spaced stations KKLA and KSWD, Los Angeles, California.

Prepared by
Michelle Bradley
REC Networks
September 20, 2017

¹ - See *Living Way Ministries, Inc.* Memorandum Opinion and Order, 17 FCC Rcd 17054, 17056 (2002) at 5. *Recon denied* 23 FCC Rcd 15070 (2008).

105.7 dBu INTERFERING CONTOUR AROUND PROPOSED LPFM SITE



REQUEST FOR §73.870(a) HANDLING
NON-ADJACENT CHANNEL

KZNQ-LP
Santa Clarita, California
Channel 260L1 (99.9 MHz)

Currently on Channel 268L1, KZNQ-LP is within the 34 dBu F[50, 10] interfering contour of KGFM, Bakersfield, California. KGFM is a non-super powered Class B station operating 6.7 kW effective radiated power (ERP) at 396 meters height above average terrain (HAAT). KGFM places a 48.7 dBu interfering contour at the licensed LPFM site.

KZNQ-LP proposes operation on Channel 260L1 at a different location in Santa Clarita ("proposed location").

The proposed location is inside the 34 dBu interfering contour of co-channel stations KOLA, San Bernardino, California and KTYD, Santa Barbara, California.

KOLA is a super-powered Class B station operating 29.5 kW ERP at 507 meters HAAT. As a super-powered Class B station, KOLA places a 53.9 dBu interfering contour at the proposed location.

KTYD is also a super-powered Class B station operating 34 kW at 390 meters HAAT. As a super-powered Class B station, KTYD places a 38.4 dBu interfering contour at the proposed location.

Both KOLA and KTYD are super-powered Class B stations. Many legacy FM stations in Southern California are operating at an ERP well beyond the maximum for their service class on a grandfathered basis.

At standard Class B facilities, KOLA at 507 meters HAAT would be limited to 3.5 kW ERP as opposed to the 29.5 kW authorized. As a 3.5 kW station, KOLA would place a 44.6 dBu interfering contour at the proposed location.

At standard Class B facilities, KTYD at 390 meters HAAT would be limited to 6.9 kW ERP as opposed to the 38.4 kW authorized. As a 6.9 kW station, KTYD would not place a 34 dBu interfering contour at the proposed location (actual contour would be 31.8 dBu) and therefore would result in a partial overlap of an interfering contour with the service contour of the LPFM at the proposed location. We further note that based on the results of a supplemental Longley Rice study of KTYD's super-powered facility, we can show that no portion of the KZNQ-LP 60 dBu service contour at the proposed location receives a minimum 34 dB field strength from KTYD.

The Commission has determined that with respect to the extent of protection to be afforded [to super-powered Class B stations], these stations should not be protected to greater extent and that it is not in the public interest to perpetuate the advantage enjoyed these [super-powered Class B

stations], if it means a restriction on the provision of needed new facilities and optimum development of this medium.²

§73.870(a)(1) of the Rules permits “changes in frequency to adjacent or IF frequencies, or, upon a technical *showing* of reduced interference” to be handled by the Commission as a minor change.³

If we compare the two channels for interference, we reach the following conclusions:

| Channel 268L1 (101.5) | Channel 260L1 (99.9) |
|---|--|
| Inside non-super powered interfering contour of KGFM reaching 48.7 dBu at the licensed location. | Inside non-super powered interfering contour of KOLA reaching 44.6 dBu at the proposed location. |
| | Partially inside non-super powered interfering contour of KTYD reaching 31.8 dBu at the proposed location but no actual field strengths greater than 34 dBu inside the service contour. |

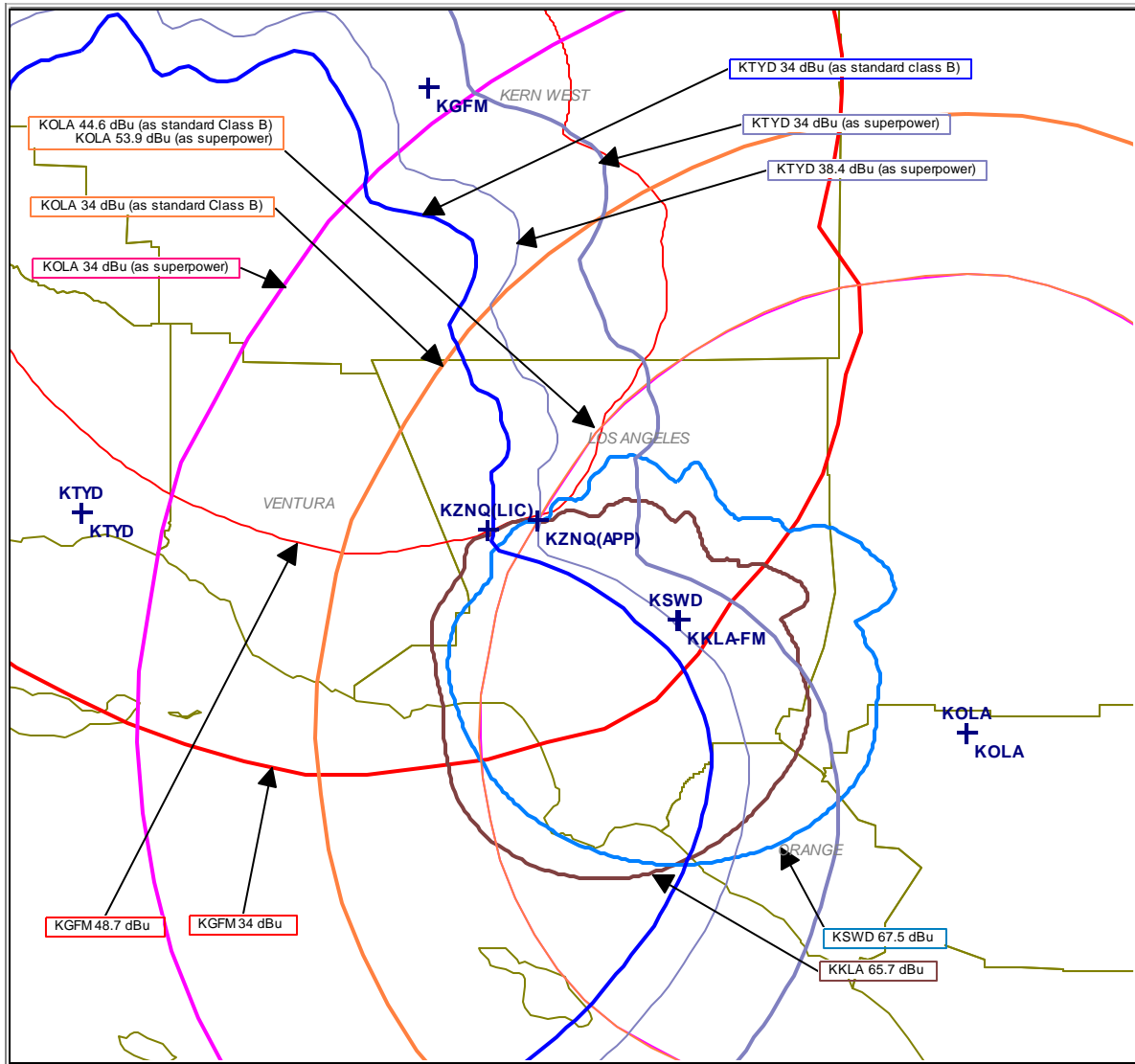
Unlike a move of over 5.6 kilometers, a change to a non-adjacent channel is not a waiver request but in fact is a request for the application of the rule (47 C.F.R. §73.870(a)) *upon a technical showing of reduced interference*. In the instant case, we are moving from a channel that places a 48.7 dBu class-B interfering contour at the currently licensed LPFM site to a channel that places a 44.6 dBu interfering contour at the proposed location as well as a second station that places partial class-B interfering contour overlap which has been further demonstrated that any interference, even at super-power, would not be a factor into the service contour of the proposed LPFM facility. As this results in an overall reduction of interference, SCPSB asks for application of §73.870(a) to specify operation on a non-adjacent channel.

Prepared by
Michelle Bradley
REC Networks
September 20, 2017

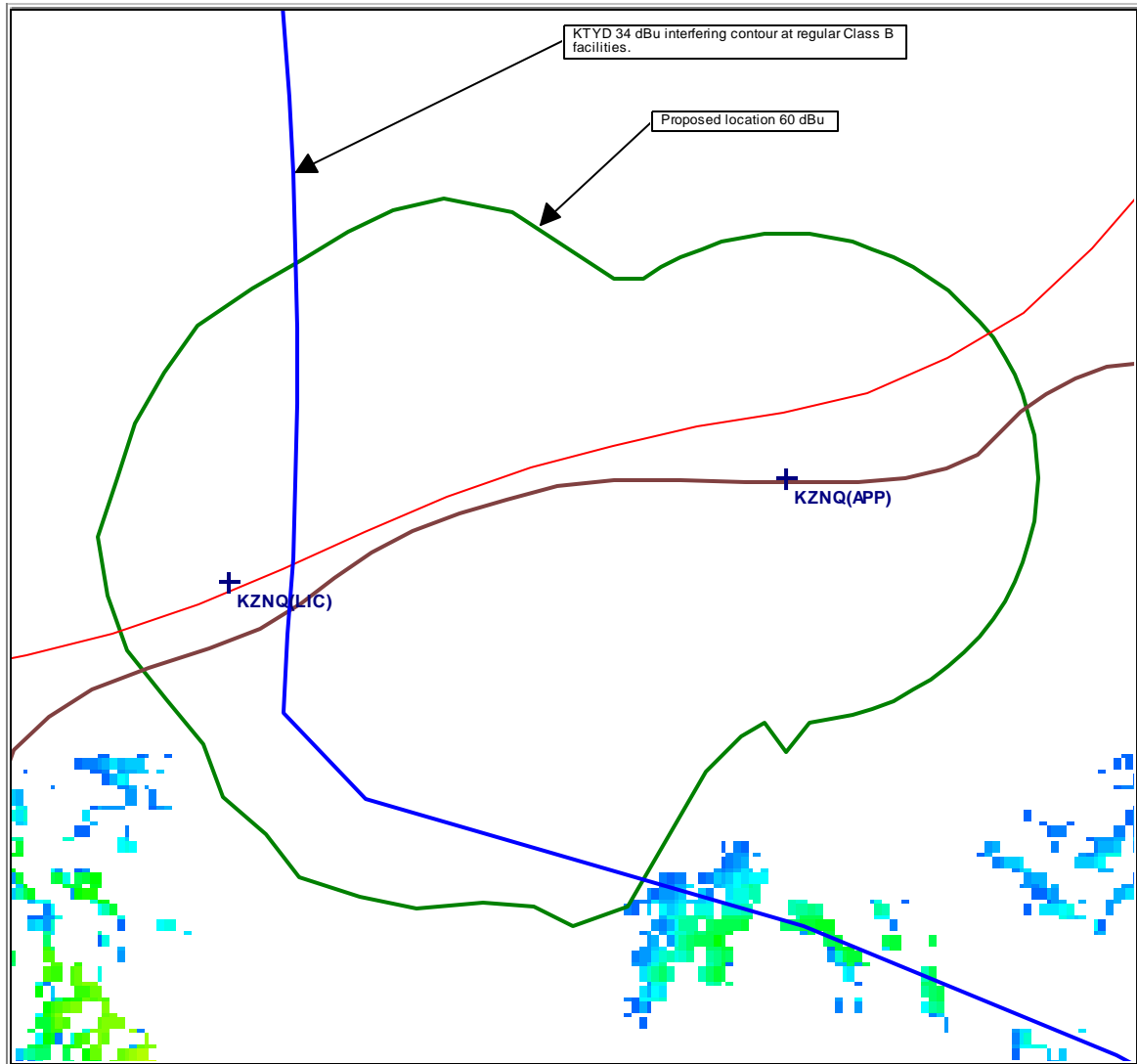
² - See *First Report and Order*, Docket No. 14185, 40 FCC 662, 695-696 at para. 96 (1962).

³ - See 47 C.F.R. §73.870(a). (*emphasis added*)

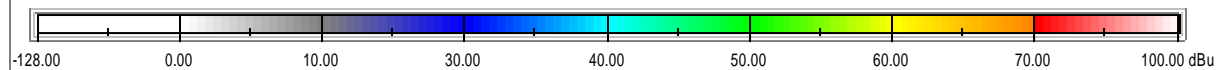
KZNQ-LP



KZNQ-LP vs. KTYD



Longley Rice is KTYD with a minimum predicted field strength of 34 dB.



REQUEST FOR WAIVER OF §73.870(a)
MOVE OF OVER 5.6 KILOMETERS

PETITION FOR RECONSIDERATION *NUNC PRO TUNC*

KZNQ-LP
Santa Clarita, California
Channel 260L1 (99.9 MHz)

The move proposed in this application is 12.8 km from the currently authorized site. Section §73.870(a) of the Commission's Rules states that an LPFM station can move up to 5.6 kilometers as a minor change⁴.

In the instant case, the applicant is well inside the 40 dBu interfering contour of KGFM, Bakersfield, California and is experiencing other phenomena that in itself, is not grounds for a non-adjacent channel change but a showing has been made that an alternate channel would result in reduced interference to KZNQ-LP operations in the Santa Clarita Valley.

At the current licensed location, no other channels are available. As a result, SCPSB searched the greater Santa Clarita Valley to identify an alternate channel in order to continue providing reliable LPFM service to their community of license. No alternate sites were found within 5.6 kilometers that would allow for operation on an alternate channel. An alternate site was found 12.8 kilometers from the currently licensed site that would still provide 1 mV/m service to nearly 80% of the population served by the licensed 1 mV/m contour including 100% of the population of the contour that is within the city limits of Santa Clarita. Like with many bedroom communities, Santa Clarita imposes many land use restrictions in regards to the siting of towers and due to nature of the broadcast spectrum in Southern California, locations must also be able to properly protect second-adjacent channel stations, many of which are centrally located on Mount Wilson. The site identified is outside the city limits of Santa Clarita and therefore is not subject to the same land use restrictions and therefore can be used for communications and broadcasting.

In *SRN Communications*, the Commission permitted a move of 8.5 kilometers due to not being able to find an alternate site that is closer.⁵ SRN further states that the 5.6 km restriction is the strictest in the FM band where full power stations need only be mutually exclusive with the original and translators only require contour overlap.⁶

Furthermore, in *Sloan Canyon Communications*, the Commission permitted a move of 12.3 km citing a lack of available sites as well as moving the station to better serve its community of license.⁷

⁴ - See 47 C.F.R. §73.870(a).

⁵ - See *SRN Communications, Inc.*, BMPL-20140902ACG, Granted September 15, 2014 at Exhibit 1.

⁶ - *Id.*

⁷ - See *Sloan Canyon Communications*, BMPL-20140623AAG, Granted December 22, 2014 at Exhibit 11.

We do note that in the instant case, the move to the proposed site would result in contour overlap between the old location and the new location. If this application was for a translator, the application would be granted.

At the new location, localism will continue to be achieved in accordance with §73.853(b) as the headquarters remains within 10 miles of the transmitting antenna and now in the 1 mV/m contour of the LPFM station. Service to Santa Clarita by this station will not be impacted as the proposed location's 1 mV/m contour covers 80% of the population of the current 1 mV/m contour including 100% of the population that is within the corporate limits of the City of Santa Clarita.⁸

§1.3 of the Commission's Rules permits waivers to the rules on good cause shown.⁹ The Commission's Rules further state that a petitioner must demonstrate either that: (i) the underlying purpose of the rule would not be served or would be frustrated by application to the present case and that a grant of the requested waiver would be in the public interest; or (ii) in view of unique or unusual factual circumstances of the instant case, application of the rule would be inequitable, unduly burdensome or contrary to the public interest or the application has no reasonable alternative.¹⁰

In the instant case, SCPSB is faced with interference from multiple sources and a very restrictive site being located within the city limits of Santa Clarita. It is SCPSB's position that the public interest dictates a waiver of the rules that is not only consistent with other broadcast services (FM translators) but will achieve the ability of serving at least 80% of the same area that this established station is already serving at a more stable site and on a preferential channel from an interference perspective. Normally, the intention of making a "major change" of location is to move a station from one community to another and denying service to a significant part of the currently licensed community. The instant case is unique because of the terrain and land-use restrictions in the area allow for KZNQ-LP to be moved to a location over 12 kilometers away and still serve the same community. This is different than previous cases such as *Gospel American Network*, where the applicant was truly attempting a change of community while abandoning the current community¹¹ while many LPFM applications specifying a location of

⁸ - A search of the REC Networks database shows no registered towers within 5.6 kilometers in which an alternate LPFM channel can be found. A wide area search conducted in the REC Networks database also did not result in any potential areas within 5.6 km where channels are available.

⁹ - 47 C.F.R. §1.3

¹⁰ - 47 C.F.R. §1.925(b)(3)(ii).

¹¹ - See *Gospel American Network*, Letter Decision, BMPL-20160426AAU (MB December 12, 2016).

more than 5.6 kilometers but still providing service to at least a portion of the previous 1 mV/m contour was granted.¹² SCPSB submits that this case is no different than the latter.

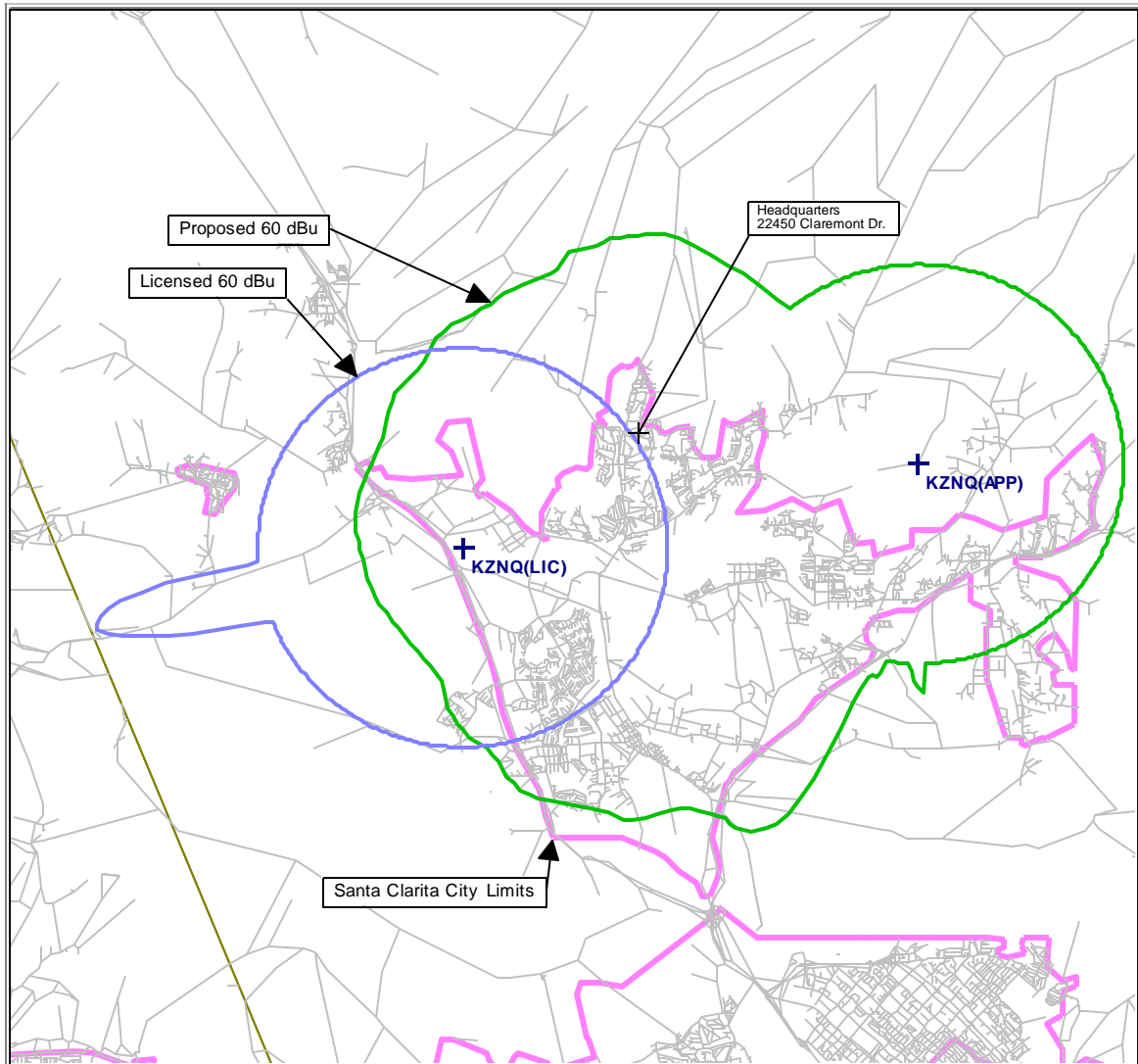
REC Networks, a major LPFM advocate, favorably supports moves that are more than 5.6 kilometers but have some form of contour overlap as such a policy brings LPFM on a level playing field with FM translators and in this specific case, it promotes localism by continuing to service a large majority of the same area that is currently served and improving that service by moving to a channel less prone to interference and to better serve the designated community of license.

Based on the information presented, SCPSB seeks reconsideration *nunc pro tunc* of the instant application and requests that the Commission grant a waiver of §73.870(a) to allow for this 12.8 kilometer move with contour overlap in order to help sustain LPFM service to Santa Clarita consistent with prior precedence.

Prepared by
Michelle Bradley
REC Networks
September 20, 2017

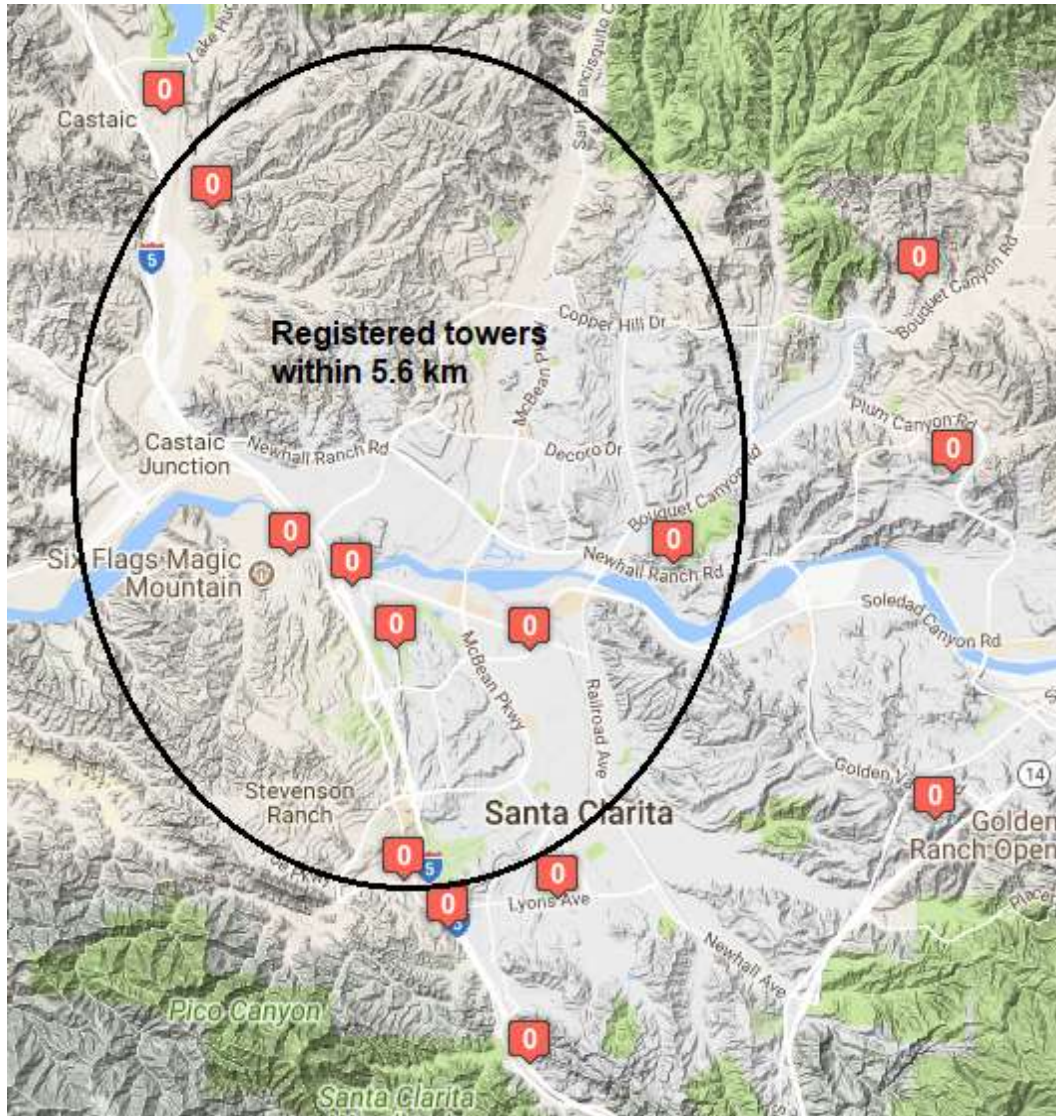
¹² - See *Southside Media Collective*, KFTW-LP, BMPL-20150720AAH (granted a move of 9.2 kilometers to better serve community of license); See also *Continental Broadcasting*, KWJZ-LP, BPL-20160307ACR (granted a move of 17.8 km with a non-adjacent channel change due to interference and no viable sites closer and because of the unique terrain in the area, a portion of the previous 1 mV/m contour would still be served by the new facility); See also *San Tan Educational Media*, KFXV-LP, BPL-20170206ACD (granted move of 6.6 kilometers to serve primarily the same area, moving from a mountain site to surface); See also *Wimberley Texan Radio*, KOWO-LP, BMPL-20170807ABB (granted move of 7.8 kilometers due to only viable site found after previous site was destroyed by fire); See also *Texas Youth Organization*, KRQP-LP, BMPL-20170406ACF (granted move of 11.4 kilometers because no closer alternate sites were found in the face of predicted incoming interference).

KZNQ-LP serving the City of Santa Clarita



Proposed station serves 80% of licensed population, 100% within city limits.

ALTERNATE LPFM CHANNELS AVAILABLE WITHIN 5.6 OF LICENSED FACILITY



ALTERNATE LPFM CHANNELS AVAILABLE NEAR LICENSED FACILITY

