

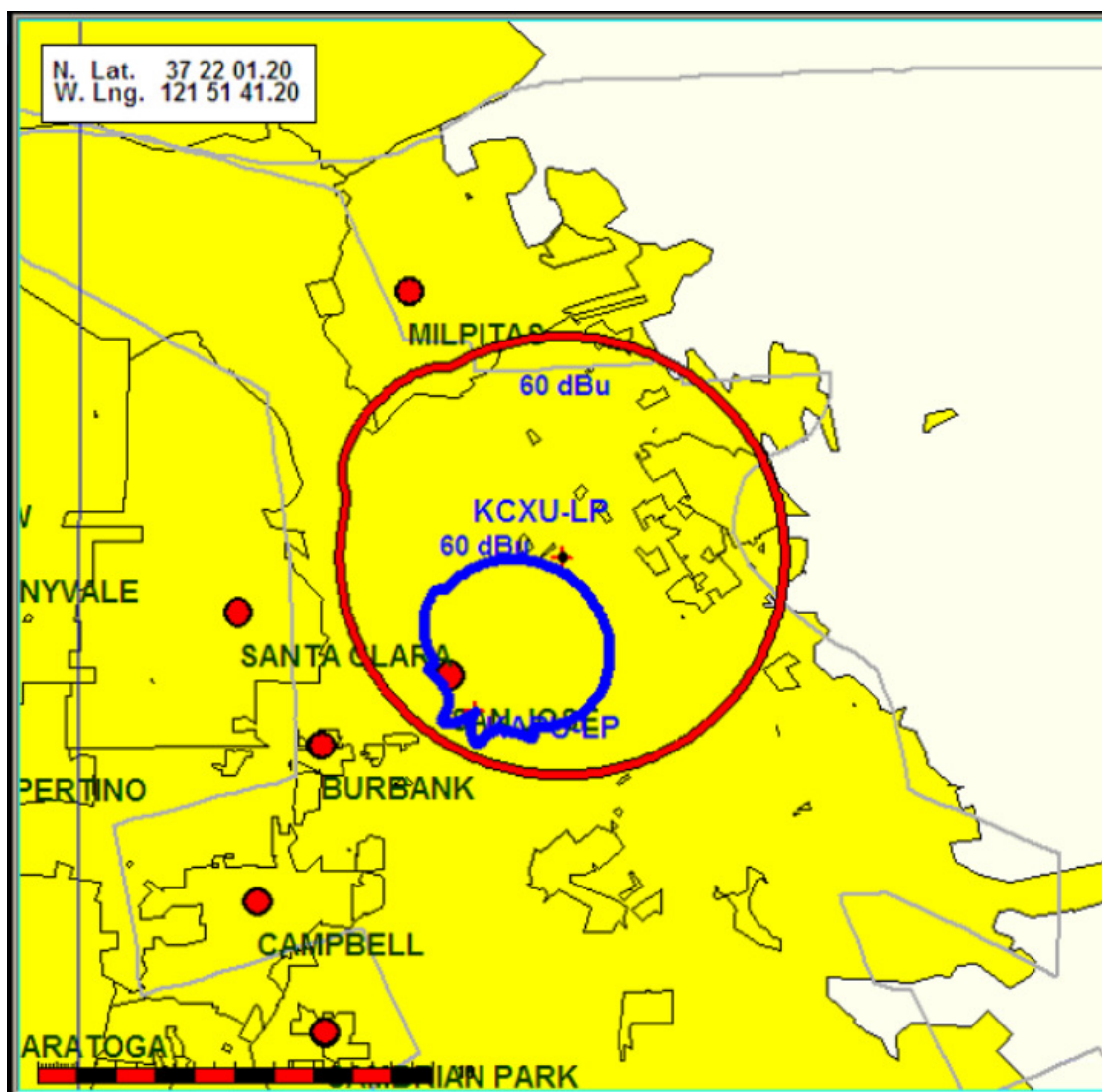
KCXU-LP – San Jose, California - Facility ID# 192235
Exhibit for Special Temporary Authority - July 2020

Due to new extended shutdown orders during COVID-19 pandemic, access to both the main studio and the antenna tower site remains limited.

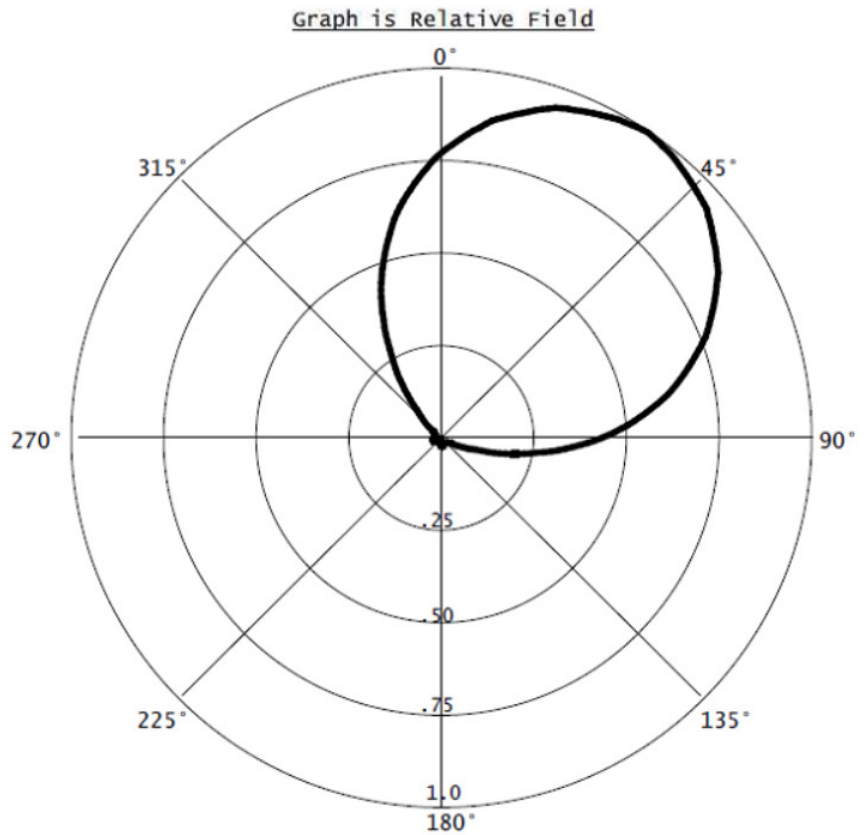
Engineering STA is requested to allow for continued operations from interim location near downtown.

With an SCA CA2 antenna at 30 watts ERP, contour of STA facility will be contained within main 60 dBu contour. Height of antenna structure will not extend more than 12' feet over the AC unit housing structure on the roof. Field values for proposed antenna attached below.

Second adjacent channel exhibit is provided in support of waiver requested pursuant to Section 73.807(e)(1) with respect to KSJO. FM Model calculations also demonstrate no population will be subject to harmful interference.



Azi	Field	dBk	kw
000	0.775	-17.300	0.019
010	0.880	-16.197	0.024
020	0.953	-15.505	0.028
030	0.991	-15.165	0.030
040	0.985	-15.218	0.030
050	0.941	-15.615	0.027
060	0.861	-16.386	0.023
070	0.750	-17.585	0.017
080	0.608	-19.408	0.011
090	0.434	-22.337	0.006
100	0.244	-27.339	0.002
110	0.092	-35.811	0.000
120	0.027	-46.459	0.000
130	0.020	-49.066	0.000
140	0.018	-49.981	0.000
150	0.018	-49.981	0.000
160	0.018	-49.981	0.000
170	0.022	-48.238	0.000
180	0.022	-48.238	0.000
190	0.015	-51.565	0.000
200	0.007	-58.184	0.000
210	0.002	-69.066	0.000
220	0.002	-69.066	0.000
230	0.008	-57.025	0.000
240	0.017	-50.477	0.000
250	0.023	-47.852	0.000
260	0.022	-48.238	0.000
270	0.018	-49.981	0.000
280	0.018	-49.981	0.000
290	0.018	-49.981	0.000
300	0.021	-48.642	0.000
310	0.035	-44.205	0.000
320	0.115	-33.872	0.000
330	0.279	-26.174	0.002
340	0.470	-21.644	0.007
350	0.639	-18.976	0.013

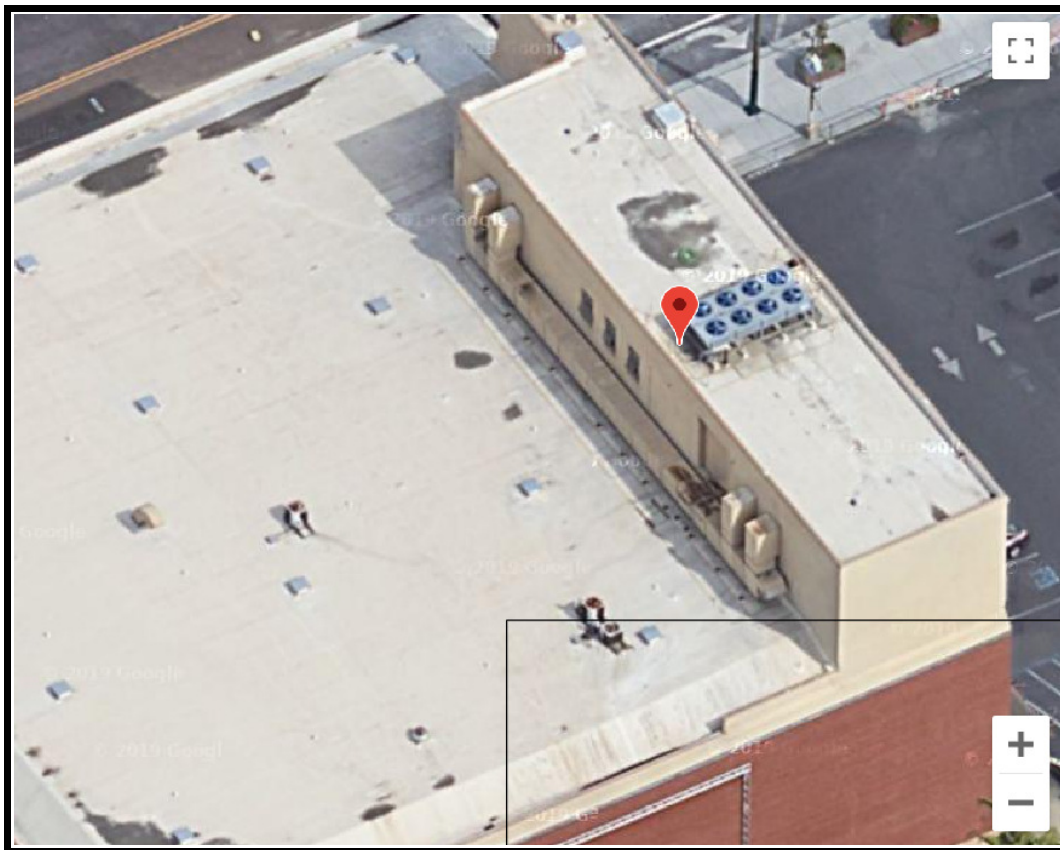


Azi	Field	dBk	kW	Azi	Field	dBk	kW
000	0.775	-17.300	0.019	180	0.022	-48.238	0.000
010	0.880	-16.197	0.024	190	0.015	-51.565	0.000
020	0.953	-15.505	0.028	200	0.007	-58.184	0.000
030	0.991	-15.165	0.030	210	0.002	-69.066	0.000
040	0.985	-15.218	0.030	220	0.002	-69.066	0.000
050	0.941	-15.615	0.027	230	0.008	-57.025	0.000
060	0.861	-16.386	0.023	240	0.017	-50.477	0.000
070	0.750	-17.585	0.017	250	0.023	-47.852	0.000
080	0.608	-19.408	0.011	260	0.022	-48.238	0.000
090	0.434	-22.337	0.006	270	0.018	-49.981	0.000
100	0.244	-27.339	0.002	280	0.018	-49.981	0.000
110	0.092	-35.811	0.000	290	0.018	-49.981	0.000
120	0.027	-46.459	0.000	300	0.021	-48.642	0.000
130	0.020	-49.066	0.000	310	0.035	-44.205	0.000
140	0.018	-49.981	0.000	320	0.115	-33.872	0.000
150	0.018	-49.981	0.000	330	0.279	-26.174	0.002
160	0.018	-49.981	0.000	340	0.470	-21.644	0.007
170	0.022	-48.238	0.000	350	0.639	-18.976	0.013

Second Adjacent Exhibit & Waiver Request

Per the attached calculations using FCC 30 Meter Terrain, signal strength at proposed site for KSJO is calculated to 91.39 dBuV/m. With additional 40 dBu, KSJO is protected to 139.39 dBu, producing a worst case interference radius of 10.4 meters at the center of radiation. When also factoring depression angles below the antenna, the interfering signal contour be further reduced.

With the radiation center 35 feet above the surface of the roof, extended no more than 12' feet over AC unit housing structure, any residual interference signal will remain sufficiently contained above the upper most occupied floor of the building by more than 2 meters. No population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.



KSJO signal calculations at reference point

Point Information Report

Latitude: 37-19-53.20 N

Longitude: 121-53-11.20 W

Signal Strength: 91.8 dBuV/m

Elevation: 30.0 m

Distance From Transmitter: 16.807 km

Azimuth From Transmitter: 324.09 degrees

Call Letters: KSJO

File Number: BLH20080214ABH

Latitude: 37-12-31.80 N

Longitude: 121-46-30.80 W

ERP: 32.00 kW

Channel: 222

Frequency: 92.3 MHz

AMSL Height: 394.0 m

Elevation: 345.0 m

Horiz. Antenna Pattern: Omni

Vert. Elevation Pattern: No

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Study Information:

D/U Ratio Study

Signal Resolution: 0.1 km

Study Date: 7/8/2020

Land Cover was not considered in this study.

Primary Terrain: FCC 30 Meter Terrain

Secondary Terrain: GLOBE 30 Second World Database

Coordinate System: NAD83/WGS84

Transmitters:

Transmitter Information:

Transmitter Information:

Call Letters: KCXU-LP
File Number: BLL20190711AAW
Latitude: 37-19-53.20 N
Longitude: 121-53-11.20 W
ERP: 0.10 kW
Channel: 224
Frequency: 92.7 MHz
AMSL Height: 53.34 m
Elevation: 28.14 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: Longley-Rice
Climate: Continental temperate
Conductivity: 0.0050
Dielectric Constant: 15.0
Refractivity: 311.0
Receiver Height AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Situation Variability: 50.0%
ITM Mode: Broadcast

Transmitter Information:

Call Letters: KSJO
File Number: BLH20080214ABH
Latitude: 37-12-31.80 N
Longitude: 121-46-30.80 W
ERP: 32.00 kW
Channel: 222
Frequency: 92.3 MHz
AMSL Height: 394.0 m
Elevation: 345.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No
Propagation Model: Longley-Rice
Climate: Continental temperate
Conductivity: 0.0050
Dielectric Constant: 15.0
Refractivity: 311.0
Receiver Height AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 10.0%
Situation Variability: 50.0%
ITM Mode: Broadcast
