

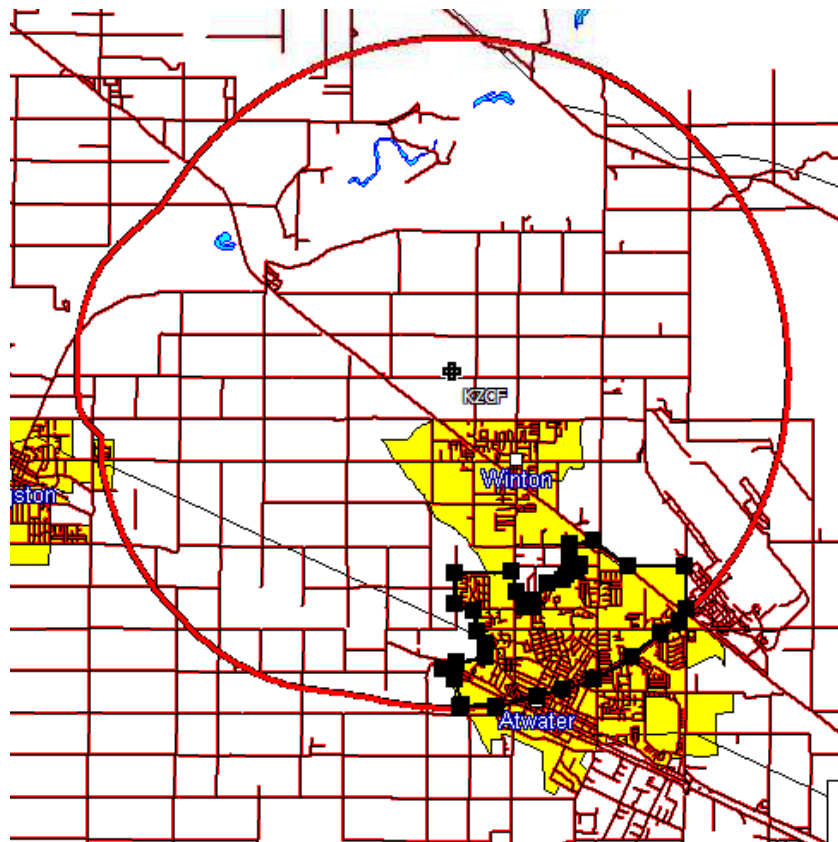
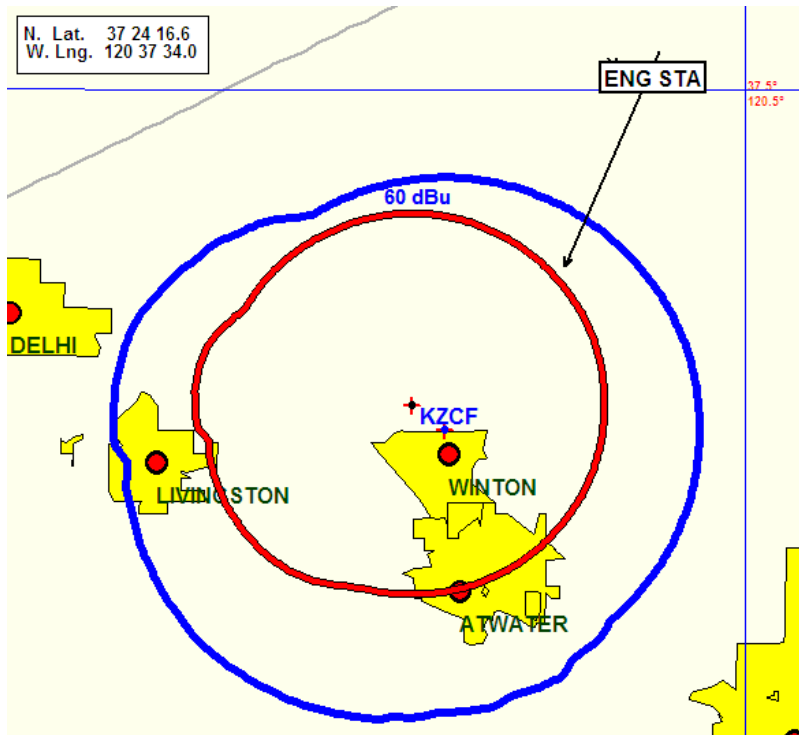
Request: Licensee requests permission to temporarily relocate transmitter/antenna within the current 60 dBu contour as a temporary location until the new CP is built. **Reasons:** The licensee needs more time to construct the recently-granted construction permit because: (A) Licensee needs to wait until first adjacent construction permit NEW FID 766527 AFN 0000167151 is granted shortly for mutual modifications to be made to allow KZCF to use a superior site, (b) KZCF is moving the facility for educational collaboration with the students of the University of California, Merced, which had been on summer break, and (c) the 10 kW permit facility is larger project taking more time to activate.

Public interest: The requested accommodation will allow KZCF to continue to broadcast to its audience. It is thought that if it alternatively goes silent it would lose its listener base and programmers would be discouraged. Both would have a negative impact with regard to income and programming, along with lapse in community information programming. The loss of a NCE where there is no other locally-programmed facility due to insolvency would not be in the public interest.

Duration: Licensee is requesting 6 months.

Engineering

Coordinates:	37 24 16.4 N 120 37 37.7 W - NAD 27 37 24 16.6 N 120 37 34.0 W - NAD 83
Ground Elevation:	55 meters AMSL
Building Roof Elevation	61 meters AMSL (6 m from ground)
Antenna Center of Radiation:	68.6 m AMSL (7.6 m from roof)
Total AGL	13.6 m
TPO:	400 w
Feedline:	60 ft LMR 400 (.706 db loss = 340 watts out)
Antenna	0.5x gain FMU CP100 circular polarization
ERP	340 x 0.5 = 170 w



Proposed 60 dBu: (1) Red contour above demonstrates proposed site; Blue contour represents licensed contour. (2) STA site covers 8.7 km, or 55% of the total area of 15.8 km of Atwater, CA.

TOWAIR

DETERMINATION Results							
PASS SLOPE(100:1)NO FAA REQ - 4293.0 Meters (14084.4 Feet)away & below slope by 29.0 Meters (95.1400 Feet)							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	37-23-35.00N	120-34-51.00W	CASTLE	MERCED ATWATER, CA	54.2	3597.3000000000002
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AIRP	R	37-23-35.00N	120-34-51.00W	CASTLE	MERCED ATWATER, CA	54.2	3597.3000000000002
Your Specifications							
NAD83 Coordinates							
Latitude						37-24-16.4 north	
Longitude						120-37-37.7 west	
Measurements (Meters)							
Overall Structure Height (AGL)						13.6	
Support Structure Height (AGL)						6	
Site Elevation (AMSL)						55	
Structure Type							
B - Building							

INTERFERENCE PROTECTION

Common Frequency, Inc.											
REFERENCE	CH# 218A - 91.5 MHz, Pwr= 0.17 kW, HAAT= 19.4 M, COR= 68.7 M							DISPLAY DATES			
37 24 16.6 N.	Average Protected F(50-50)= 6.4 km							DATA 08-12-19			
120 37 34.0 W.	Omni-directional							SEARCH 09-15-19			

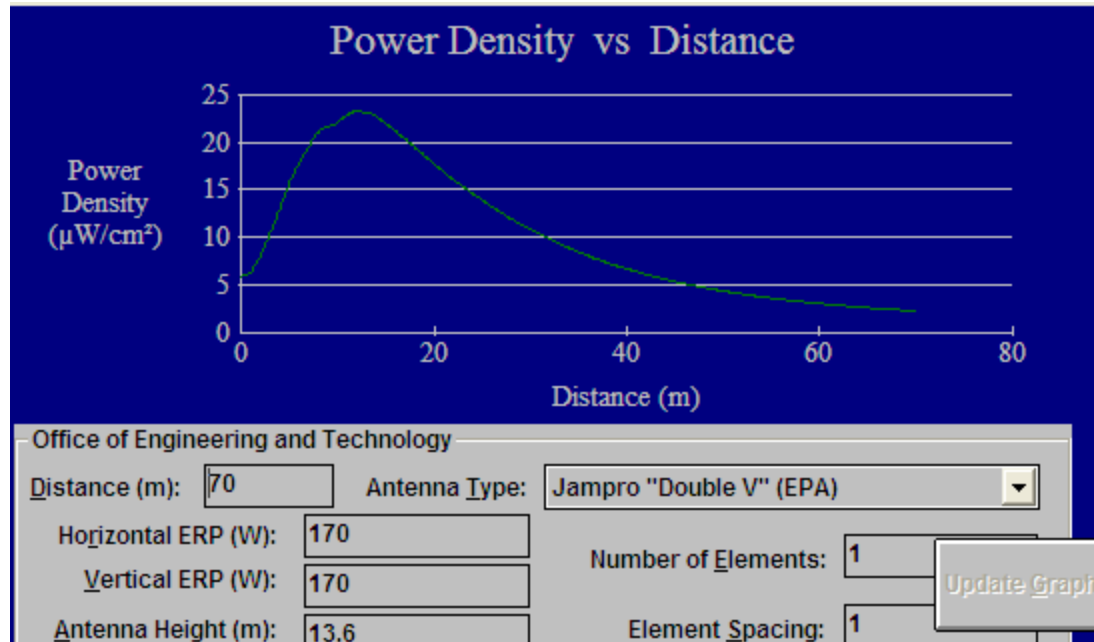
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr (kW)	INT (km)	PRO (km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT (M)	COR (M)	LICENSEE	(Overlap in km)	

218A	KZCF!	LIC	C	127.6	1.39	37 23 49.0	0.500		---	Reference---	
Atwater			CA	307.7	BLED20121004ABV	120 36 49.0	32	82	Common Frequency, Inc.		
218B1	KKUP	LIC	CN	253.5	112.54	37 06 40.0	0.200	102.8	38.4	2.8	50.7
Cupertino			CA	72.8	BLED19831114AD	121 50 36.0	787	1180	Assurance Science Foundati		
217B	KUOP	LIC	DCN	277.7	64.49	37 28 48.0	7.000	54.2	34.9	3.1	19.3
Stockton			CA	97.2	BLED19830310AI	121 21 02.0	372	827	California State Universit		
218B	KSVJ	LIC	CN	119.2	172.02	36 38 15.0	16.000	162.3	74.1	3.3	76.5
Fresno			CA	300.2	BLED19800806AB	118 56 35.0	265	1608	Radio Bilingue, Inc.		
219B	KXSR	LIC	DCX	24.4	80.45	38 03 46.0	4.000	69.2	46.3	4.8	25.0
Groveland			CA	204.7	BMLD20121119AOT	120 14 45.0	485	1543	California State Universit		
220A	KCSS	LIC	DCX	303.7	24.45	37 31 35.0	6.000	1.6	15.8	16.4	7.8
Turlock			CA	123.5	BLED20121127BAM	120 51 25.0	32	63	California State Universit		
215A	KBDG	LIC	DCX	300.3	24.84	37 31 01.0	0.730	1.6	9.4	16.8	14.5
Turlock			CA	120.1	BLED20110523AEO	120 52 10.0	12	41	Assyrian American Civic Cl		
221B	KRDA«	LIC	CX	109.9	89.57	37 07 40.0	39.000	7.5	75.2	68.5R	21.1M
Clovis			CA	290.4	BLH20110819ABO	119 40 39.0	170	621	Univision Radio Stations G		
216B	KLVY	LIC	CX	109.9	89.39	37 07 40.0	39.000	7.5	61.4	75.4	27.1
Fairmead			CA	290.4	BLED20100401AHV	119 40 39.0	170	621	Educational Media Foundati		
272A	KJSN«	LIC	C	319.5	40.37	37 40 50.0	6.000	38.4	11.3	9.5R	30.9M
Modesto			CA	139.4	BMLH20100211ABM	120 55 26.0	88	121	Capstar Tx, Llc		
06 --	K06QL-D«	CP	DCN	12.3	44.18	37 47 34.3	3.000	2.1	9.1	11.2R	33.0M
Ceres			CA	192.4	0000022114	120 31 08.3	-999	417			
220D	K220GR!	LIC	CN	208.4	52.06	36 59 32.0	0.055	0.5	6.8	44.7	44.3
Los Banos			CA	28.2	BLFT19990511UE	120 54 17.0	-27	96	Centro Cristiano De Vida E		
218D	K218CZ!	LIC	DV	96.6	85.08	37 18 45.0	0.010	30.8	8.1	47.9	55.5
Coarsegold			CA	277.2	BLFT20021127ADA	119 40 13.0	241	1116	Pacific Cascade Communicat		
06---	KBKF-LP«	APP	N	275.8	110.38	37 29 55.9	3.000	2.6	35.1	37.8R	72.6M
San Jose			CA	95.1	BPTVL-20101014ACL	121 52 16.0	-999	831			
06---	KBKF-LP«	APP	CN	275.8	110.38	37 29 55.9	3.000	2.6	35.1	37.8R	72.6M
San Jose			CA	95.1	BPTVL-20101014ACL	121 52 16.0	-999	831			
06 --	KBKF-LP«	CP	D N	253.5	112.57	37 06 39.1	2.000	2.3	23.5	25.8R	86.7M
San Jose			CA	72.8	BDFCDVL-20140213AA	121 50 37.0	-999	1184			
06 --	KMCF-LD«	CP	DHN	121.2	139.84	36 44 45.4	3.000	2.1	46.3	48.5R	91.4M

Visalia	CA	302.0	0000053703	119 16 59.0	-999	1049				
06--- KBKF-LP«										
	LI D N	253.5	112.57	37 06 39.1	0.600	2.6	7.0	9.6R	103.0M	
San Jose	CA	72.8	BLTVL-20100818AAH	121 50 37.0	-999	1184				
06Z-- KEFM-LP«										
	CP HN	347.8	149.62	38 43 10.7	3.000	2.4	35.9	38.3R	111.3M	
Sacramento	CA	167.6	0000021783	120 59 21.6	-999	673				
06Z-- KEFM-LP«										
	APP CN	333.1	162.87	38 42 28.5	3.000	2.4	23.4	25.8R	137.1M	
Sacramento	CA	152.6	0000075405	121 28 32.5	-999	132				

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= - Zone 1A, Co to 3rd
 adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 « = Station meets FCC minimum distance spacing for its class.



The applicant proposes mounting 7.6 m mast on a 6 m building -- 13.6 m AGL -- with 170 watts ERP. A one-bay omnidirectional double-v antenna is proposed. The antenna is therefore 11.9 m above the average height of a human (1.7 m). FM Model predicted a maximum RF exposure of 23.3 μ W/cm² , at 11.9 meters from the tower base. This represents 12% of the Maximum Permissible Exposure (MPE) of 200 μ W/cm² for uncontrolled environments. There are no other transmitting RF facilities in the area. The applicant will ensure that the site is posted with appropriate RF exposure warning signs. If roof of adjacent building becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.