

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

K253AA
Susanville, CA

Purpose of Application

The purpose of this K253AA minor modification is to specify a change of Transmit Antenna and increase the Effective Radiated Power. No change in the location or center of radiation is proposed.

Channel Study

REFERENCE CH# 253D - 98.5 MHz, Pwr= 0.055 kW, HAAT= -157.9 M, COR= 1402 M DISPLAY DATES
 40 26 35.6 N. Average Protected F(50-50)= 4.8 km DATA 07-27-22
 120 38 38.8 W. Omni-directional SEARCH 07-27-22

CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
253D Susanville	K253AA!	LIC CN CA		0.0	0.00	40 26 35.60	0.046	1402	1402 Educational Media Foundati	---	
255C2 Chester	KWLU	LIC NCN CA		233.7	39.47	40 13 57.40	1.100	2.3	46.0 Educational Media Foundati	32.4	-7.0*
252D Chester, Etc.	K252AL	LIC DHN CA		235.6	39.98	40 14 21.50	0.009	5.2	2.0 Chico State Enterprises	30.6	28.8

Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference Zone= West Zone, 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.
 Reference station has protected zone issue: AM tower

Channel Study

The proposed K253AA operation on channel 253 is within the protected contour of second adjacent station KWLJ (FIN 54981) 255C2, Chester, CA. According to C.F.R 47 74.1203(d), a fill-in translator may operate on the second adjacent channel of the primary station as long as no interference is caused within the boundaries of the principal community of its primary station. KWLJ is the proposed primary station. As seen in Exhibit 1-B the proposed K253AA 100dbu(F50-10) interfering contour does not overlap any portion of the KWLJ Community of License of Chester, CA. No interference will be caused in the Community of License of Chester, CA. Therefore, this proposed operation on Channel 253 is in compliance with C.F.R 47 74.1203(d).

74.1203

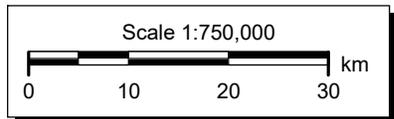
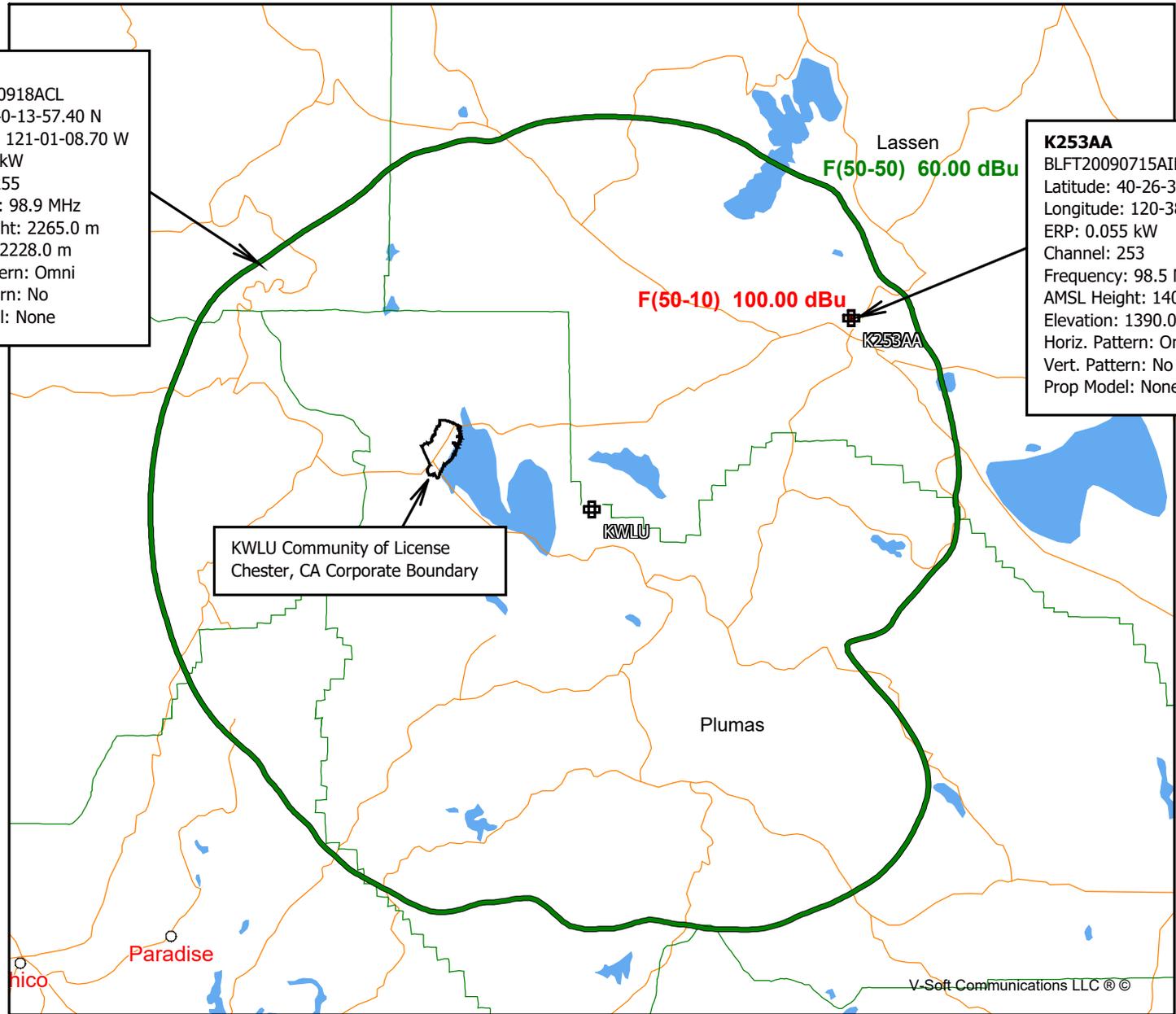
(d) A fill-in FM translator operating on the first, second or third adjacent channel to its primary station's channel will be exempt from the provisions of paragraphs (a) and (b) of this section to the extent that it may cause limited interference to its primary station's signal, provided it does not disrupt the existing service of its primary station or cause such interference within the boundaries of the principal community of its primary station.

Exhibit 1-B
Interfering Contour Does Not Overlap Community of License

- KWLU (255)
- K253AA (253)

KWLU
BLED20150918ACL
Latitude: 40-13-57.40 N
Longitude: 121-01-08.70 W
ERP: 1.10 kW
Channel: 255
Frequency: 98.9 MHz
AMSL Height: 2265.0 m
Elevation: 2228.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

K253AA
BLFT20090715AIR
Latitude: 40-26-35.60 N
Longitude: 120-38-38.80 W
ERP: 0.055 kW
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 1402.0 m
Elevation: 1390.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Human exposure to excess levels of radiofrequency radiation

According to 47 C.F.R. 1.1307(b)(1) Table 1, any “Part 74 – Subpart L” facility with an ERP greater than 100 watts, is subject to routine environmental evaluation.

Since the facility proposed in this application will operate with an ERP of less than 100 watts, it is “categorically excluded from making such studies or preparing an EA” [1.1307(b)(1)]

EMF will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.