

Highland Baptist Church

Susanville, CA

Minor Modification of a FM Station Construction Permit Application

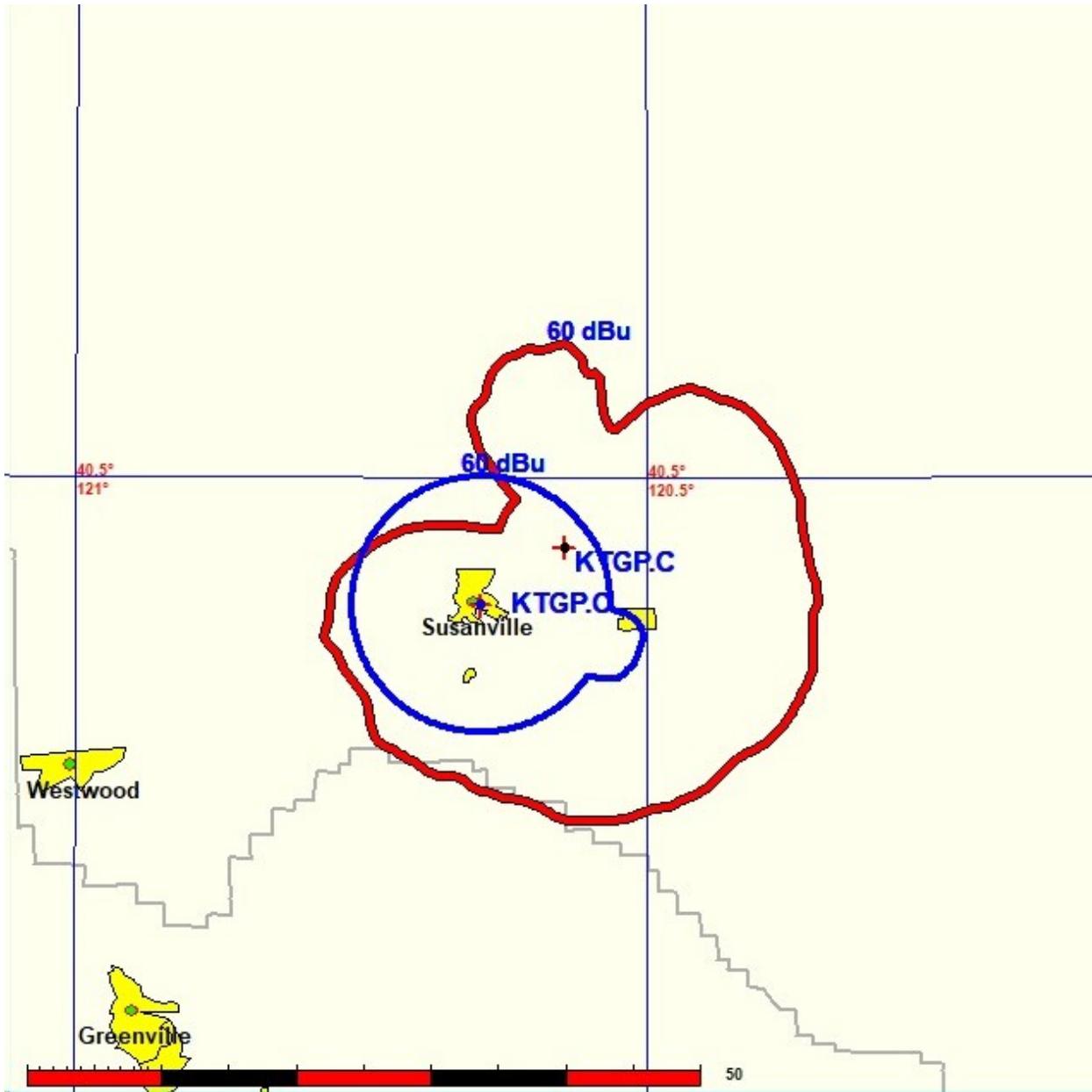
Technical Certifications

As shown below, the proposed facility meets the applicable engineering standards and assignment requirements of 47 CFR §73.203, §73.207, §73.213, §73.215, §73.509, and §73.515.

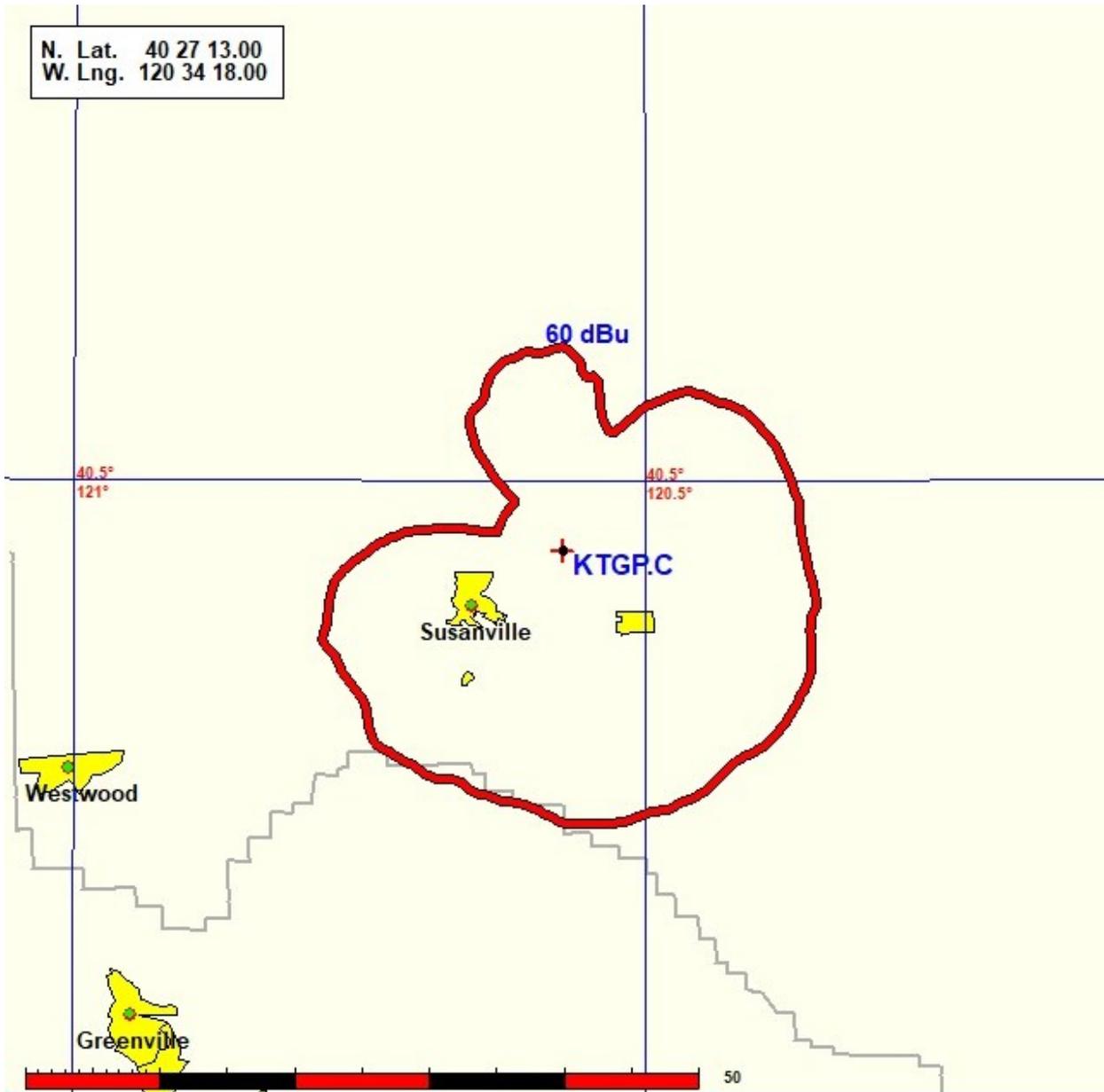
Channel Study Highland Baptist Church											
REFERENCE	CH#	218A - 91.5 MHz, Pwr= 0.065 kW, HAAT= 323.4 M, COR= 1794 M							DISPLAY DATES		
40 27 13.00 N. 120 34 18.00 W.		Average Protected F(50-50)= 16.74 km Omni-directional							DATA	10-17-22	
									SEARCH	10-18-22	
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
218A	KTGP	CP	_CN	235.0	7.54	40 24 53.00	0.800		---Reference---		
Susanville		CA		55.0	0000197641	120 38 40.79	-241	1309	Highland Baptist Church		
220D	K220DB	LIC	DCN	92.5	18.07	40 26 47.00	0.060	0.5	23.3	-0.6*	-5.8*
Susanville, Etc.		CA		272.6	BLFT20140311ADO	120 21 29.70	673	2049	Board of Regents of The Ne		
217C	KNIS	LIC	_CN	150.8	151.84	39 15 30.90	67.000	130.5	88.2	0.3	31.9
Carson City		NV		331.3	BMLE20190710AAE	119 42 37.10	660	2311	western Inspirational Broa		
215C1	768421	CP	DCN	150.0	43.22	40 07 00.00	4.000	1.0	37.9	21.3	4.1
Doyle		CA		330.2	0000167405	120 19 03.00	607	2195	Friends Of Black Rock High		
218A	KFBR	LIC	_CN	77.5	104.87	40 39 06.30	0.600	30.1	8.9	57.0	37.7
Gerlach		NV		258.3	BLED20110121AAO	119 21 28.30		1217	Friends of Black Rock High		
219D	K219AR	LIC	_CN	150.9	111.32	39 34 37.60	0.190	52.4	34.1	37.9	45.5
Verdi		NV		331.3	BLFT20150910ABC	119 56 22.70		2432	Board Of Regents of The Ne		
219C1	765454	CP	DCN	112.7	152.42	39 54 45.70	66.000	90.6	61.0	41.5	58.8
wadsworth		NV		293.8	0000167269	118 55 21.60	355	1714	Nevada Public Radio		
220A	KQNY	LIC	DCN	209.2	65.69	39 56 14.60	2.700	1.6	12.9	44.4	52.2
Quincy		CA		29.0	BLED20100727ACJ	120 56 52.80	-342	1057	Plumas Community Radio		

Terrain database is NGDC 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= - Zone 2, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with strikeout 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 map below demonstrates community coverage requirements for the city of license (in red), fulfilling the requirement of 47 CFR §73.515, NCE FM transmitter location. In addition, the 60 dBu contour of the original proposed facility is shown in blue, demonstrating that the proposed amended facility meets the requirements of a minor change as required by 47 CFR § 73.3573.



The map below demonstrates community coverage requirements for the city of license, fulfilling the requirement of 47 CFR §73.515, NCE FM transmitter location.



Environmental Effect

The proposed facility is excluded from environmental processing under 47 CFR §1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered species or their critical habitats, or any sites significant to Native American Religious practice, and will not involve any significant change in surface features. The applicant does not propose to light the antenna support structure with high intensity white lighting.

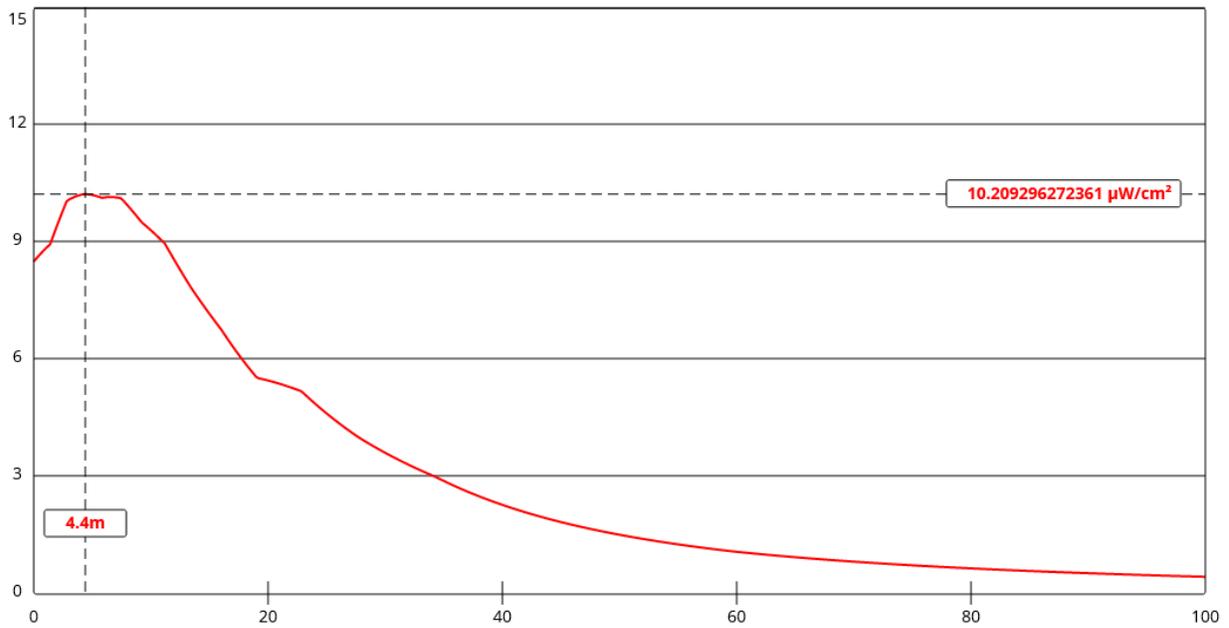
The proposed facility is located on ASRN Tower 1011966. Public access to the tower is restricted. The applicant proposes a single-bay seven-eighths lambda circularly polarized antenna mounted at 18m on the tower. KJDX(FM), Susanville, CA (Facility ID 50306) and KPKW(FM), Susanville, CA (Facility ID 176938) are co-located at this site.

Shown below is the output of the Commission's FM Model program for the proposed facility and the FM stations, with a maximum calculated exposure of $36.7 \mu\text{W}/\text{cm}^2$. This is well below the maximum permissible exposure for the general public, or 18.35% of the limit of $200 \mu\text{W}/\text{cm}^2$.

The applicant is cognizant of its responsibility to protect those workers whose duties require that they be in the vicinity of the antenna from exposure to radio frequency fields in excess of those outlined above. To that end, signage will be attached to the base of the antenna support structure warning all workers of the potential for harmful exposure and directing them to contact the responsible person at the broadcast station. That person will ascertain whether the worker will be in areas where there is an exposure hazard, and if so, arrange to shut down the transmitter(s). The permittee/licensee will also coordinate with other users of the site to reduce power or cease operation in order to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of Commission guidelines.

For these reasons, the applicant believes that a Commission grant of this application would not have a significant environmental impact.

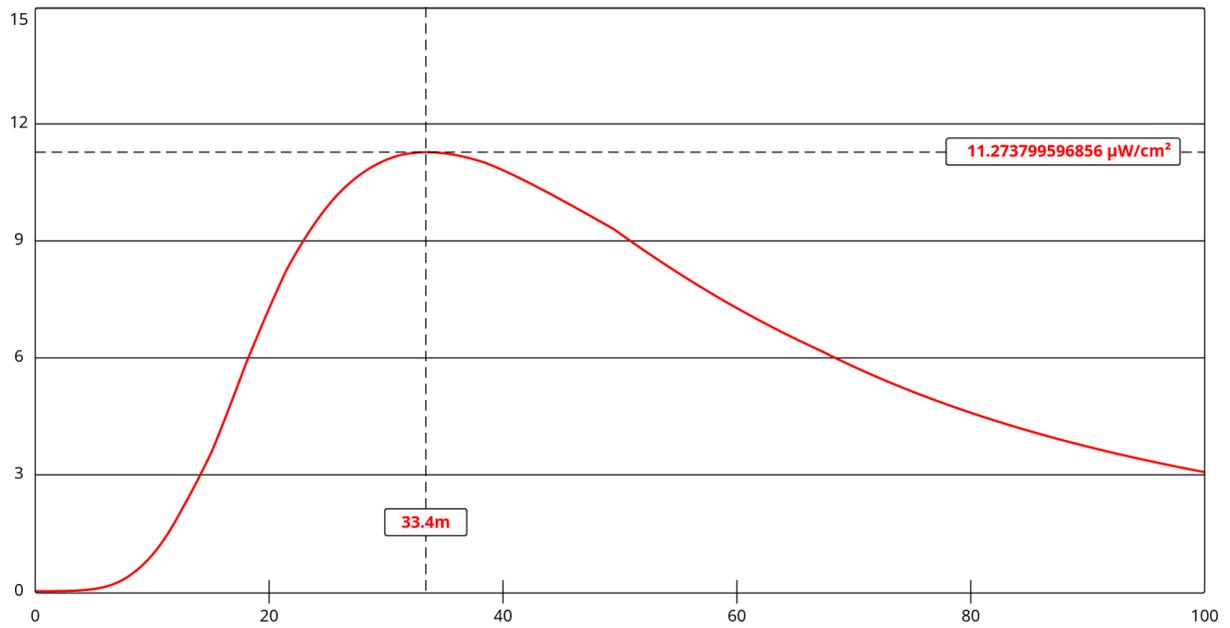
Proposed Facility



[View Tabular Results +](#)

Channel Selection	Channel 218 (91.5 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="18"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="65"/>	ERP-V (W)	<input type="text" value="65"/>
Num of Elements	<input type="text" value="1"/>	λ	<input type="text" value="0.875"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

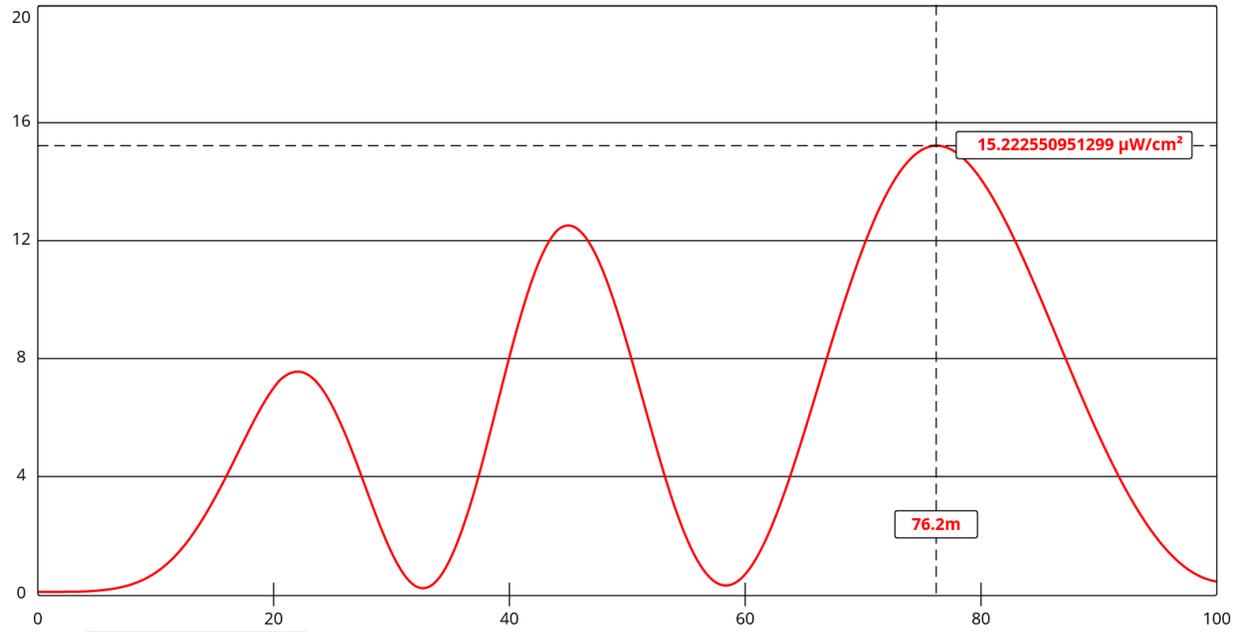
KPKW



[View Tabular Results +](#)

Channel Selection	Channel 212 (90.3 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	<input type="text" value="20"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="520"/>	ERP-V (W)	<input type="text" value="520"/>
Num of Elements	<input type="text" value="2"/>	λ	<input type="text" value="0.5"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

KJDX



[View Tabular Results +](#)

Channel Selection	Channel 227 (93.3 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	<input type="text" value="46"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="100000"/>	ERP-V (W)	<input type="text" value="100000"/>
Num of Elements	<input type="text" value="10"/>	λ	<input type="text" value="0.5"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	