

Highland Baptist Church

Susanville, CA

Minor Modification of a FM Station Construction Permit Application

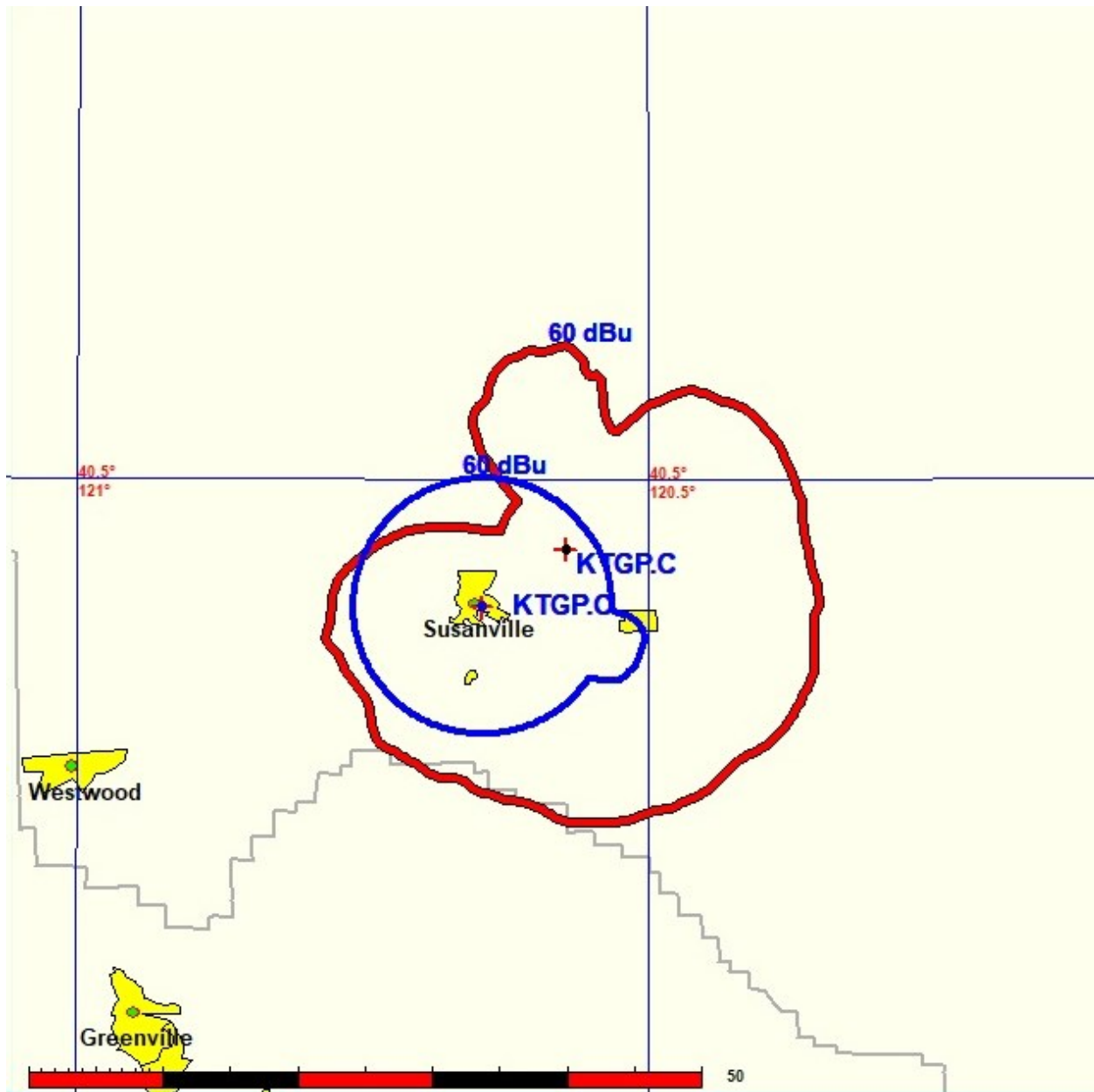
Technical Certifications

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.

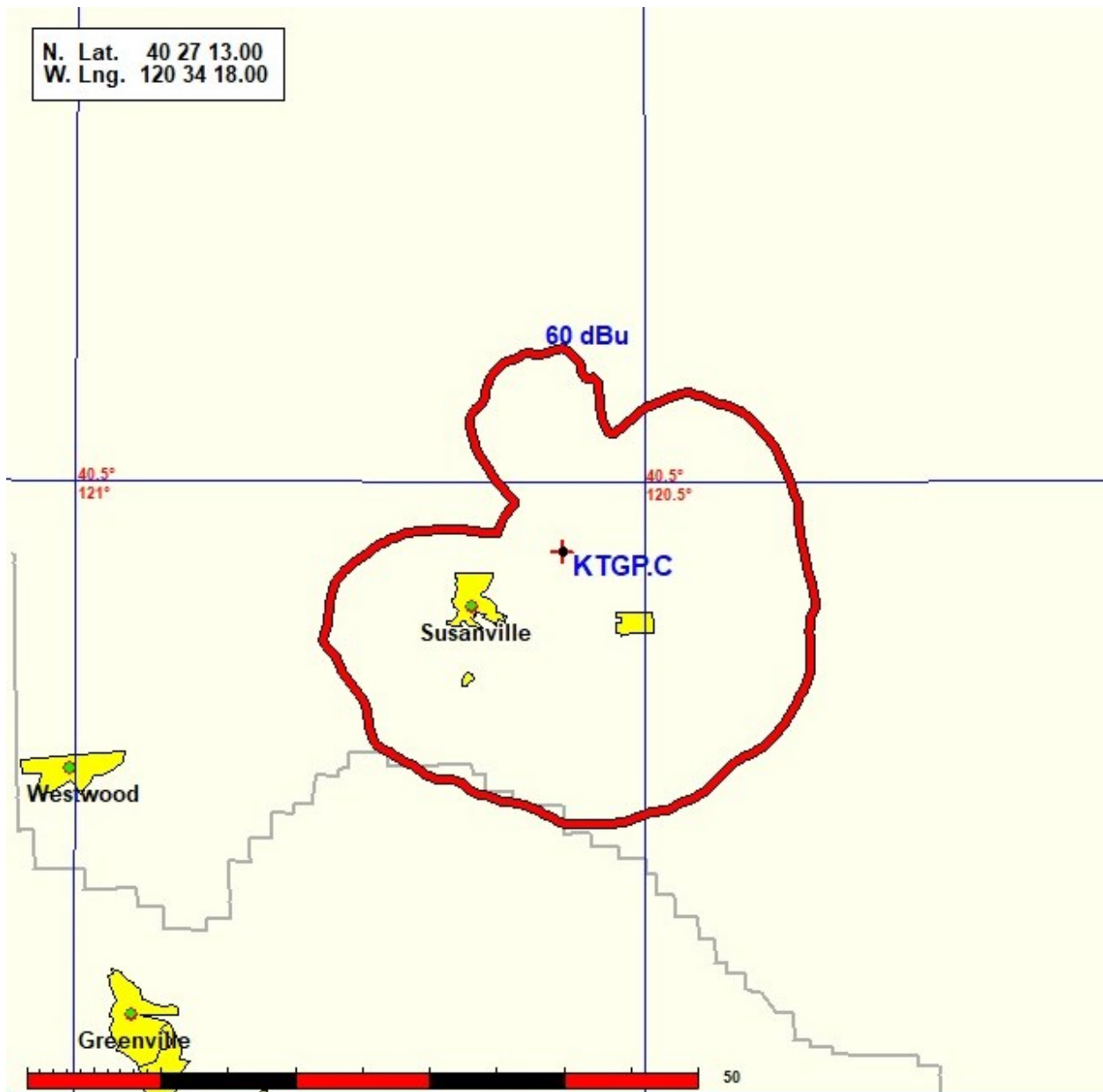
Channel Study Highland Baptist Church										
REFERENCE 40 27 13.00 N. 120 34 18.00 W.		CH# 218A - 91.5 MHz, Pwr= 0.065 kW, HAAT= 323.4 M, COR= 1794 M Average Protected F(50-50)= 16.74 km Omni-directional							DISPLAY DATES DATA 10-17-22 SEARCH 10-18-22	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)
218A Susanville	KTGP	CP _CN CA		235.0 55.0	7.54 0000197641	40 24 53.00 120 38 40.79	0.800 -241	1309	---Reference---	Highland Baptist Church
220D Susanville, Etc.	K220DB	LIC DCN CA		92.5 272.6	18.07 BLFT20140311ADO	40 26 47.00 120 21 29.70	0.060 673	0.5 2049	23.3	-0.6* Board of Regents of The Ne
217C Carson City	KNIS	LIC _CN NV		150.8 331.3	151.84 BMLED20190710AAE	39 15 30.90 119 42 37.10	67.000 660	130.5 2311	88.2	0.3 western Inspirational Broa
215C1 Doyle	768421	CP DCN CA		150.0 330.2	43.22 0000167405	40 07 00.00 120 19 03.00	4.000 607	1.0 2195	37.9	21.3 Friends Of Black Rock High
218A Gerlach	KFBR	LIC _CN NV		77.5 258.3	104.87 BLE020110121AAO	40 39 06.30 119 21 28.30	0.600	30.1 1217	8.9	57.0 Friends Of Black Rock High
219D Verdi	K219AR	LIC _CN NV		150.9 331.3	111.32 BLFT20150910ABC	39 34 37.60 119 56 22.70	0.190	52.4 2432	34.1	37.9 Board Of Regents of The Ne
219C1 Wadsworth	765454	CP DCN NV		112.7 293.8	152.42 0000167269	39 54 45.70 118 55 21.60	66.000 355	90.6 1714	61.0	41.5 Nevada Public Radio
220A Quincy	KQNY	LIC DCN CA		209.2 29.0	65.69 BLE020100727ACJ	39 56 14.60 120 56 52.80	2.700 -342	1.6 1057	12.9	44.4 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.

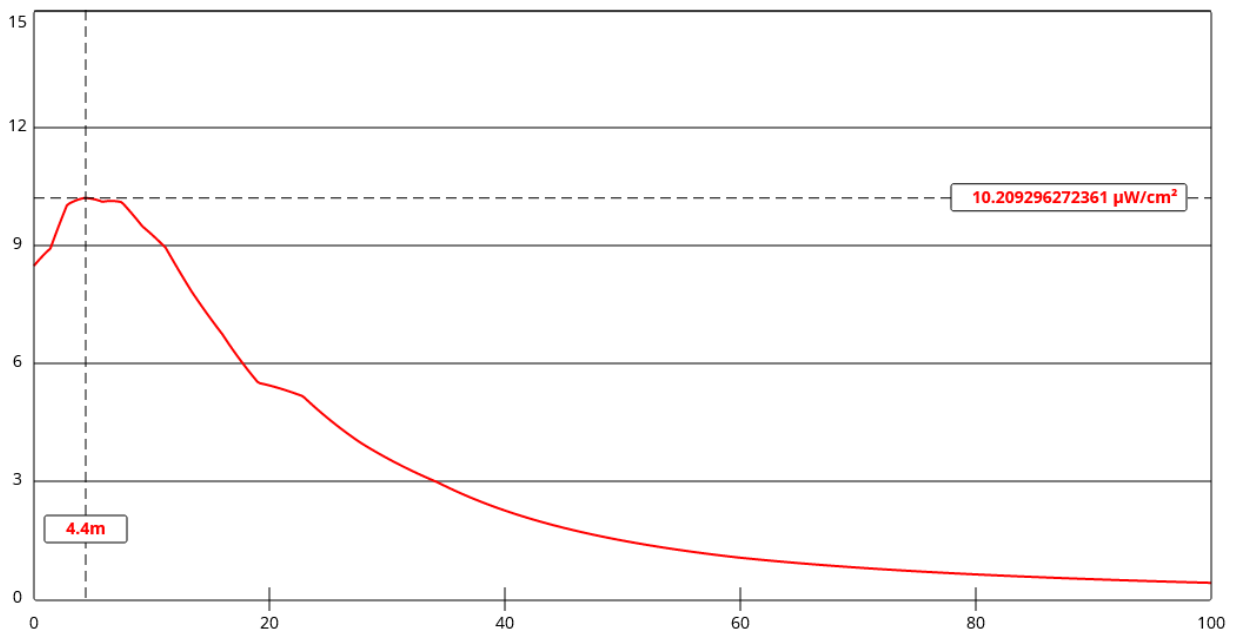
The proposed facility is located on ASRN Tower 1011966. Public access to the tower is restricted. The applicant proposes a single-bay seven-eighths lambda circularly polarized antenna mounted at 18m on the tower. KJDX(FM), Susanville, CA (Facility ID 50306) and KPKW(FM), Susanville, CA (Facility ID 176938)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

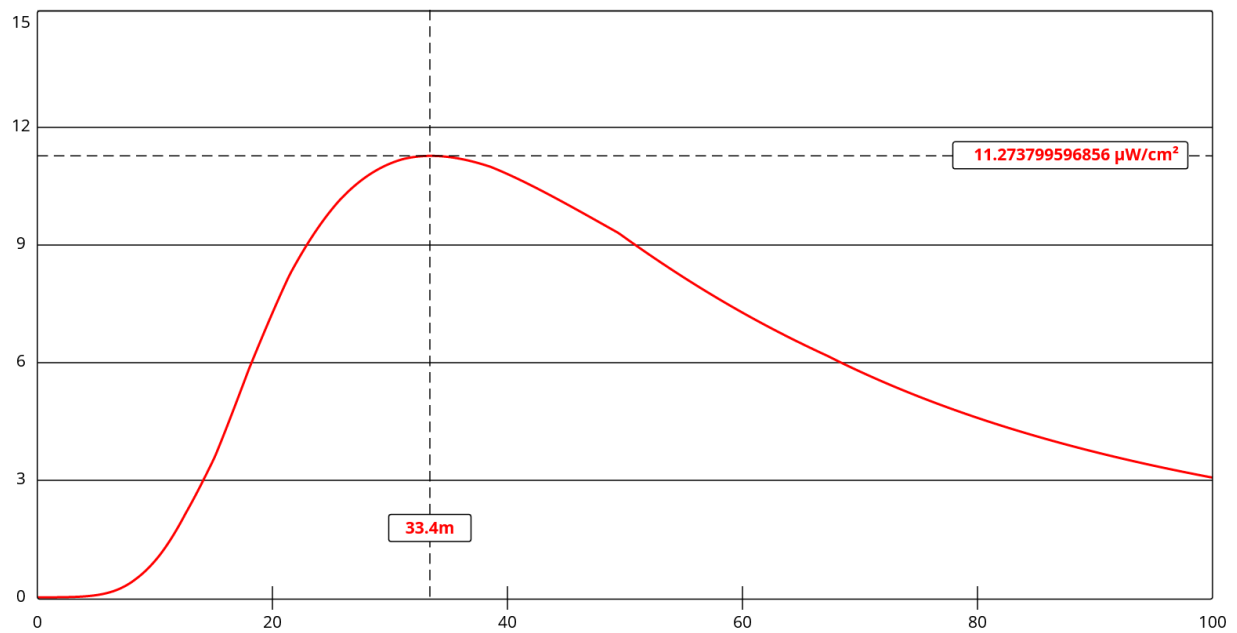
Proposed Facility



[View Tabular Results +](#)

Channel Selection	Channel 218 (91.5 MHz) ▼		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▼		
Height (m)	18	Distance (m)	100
ERP-H (W)	65	ERP-V (W)	65
Num of Elements	1	λ	0.875
Num of Points	500	Apply	

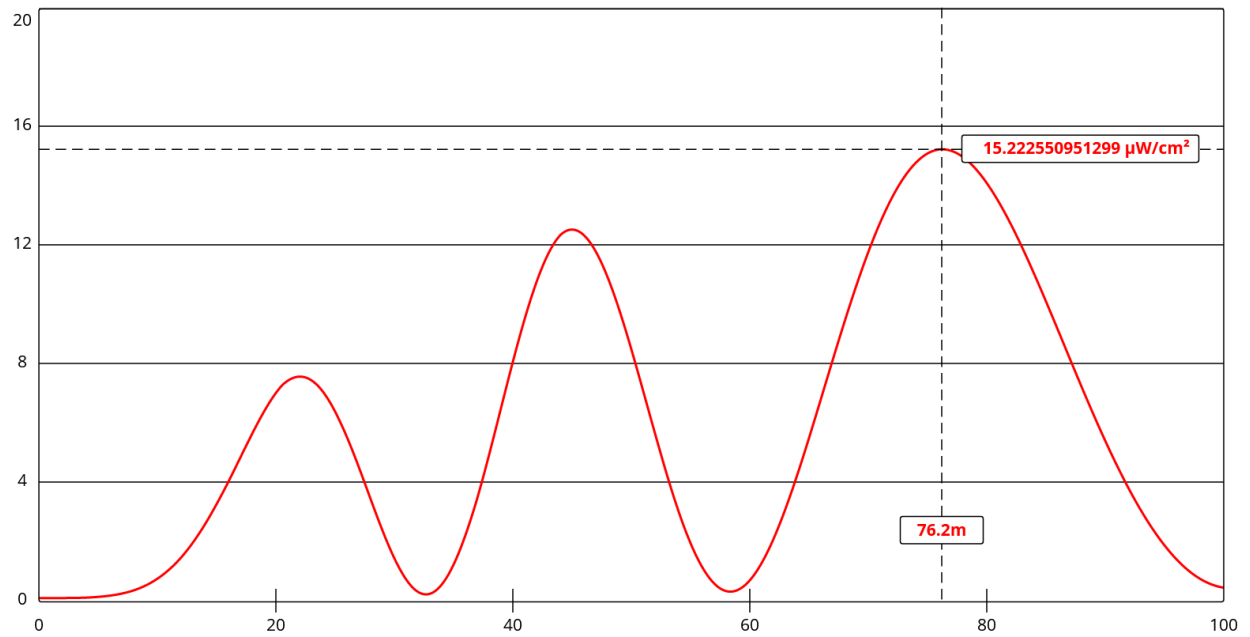
KPKW



[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"/>	