

# Calvary Baptist Church

Turner, ME

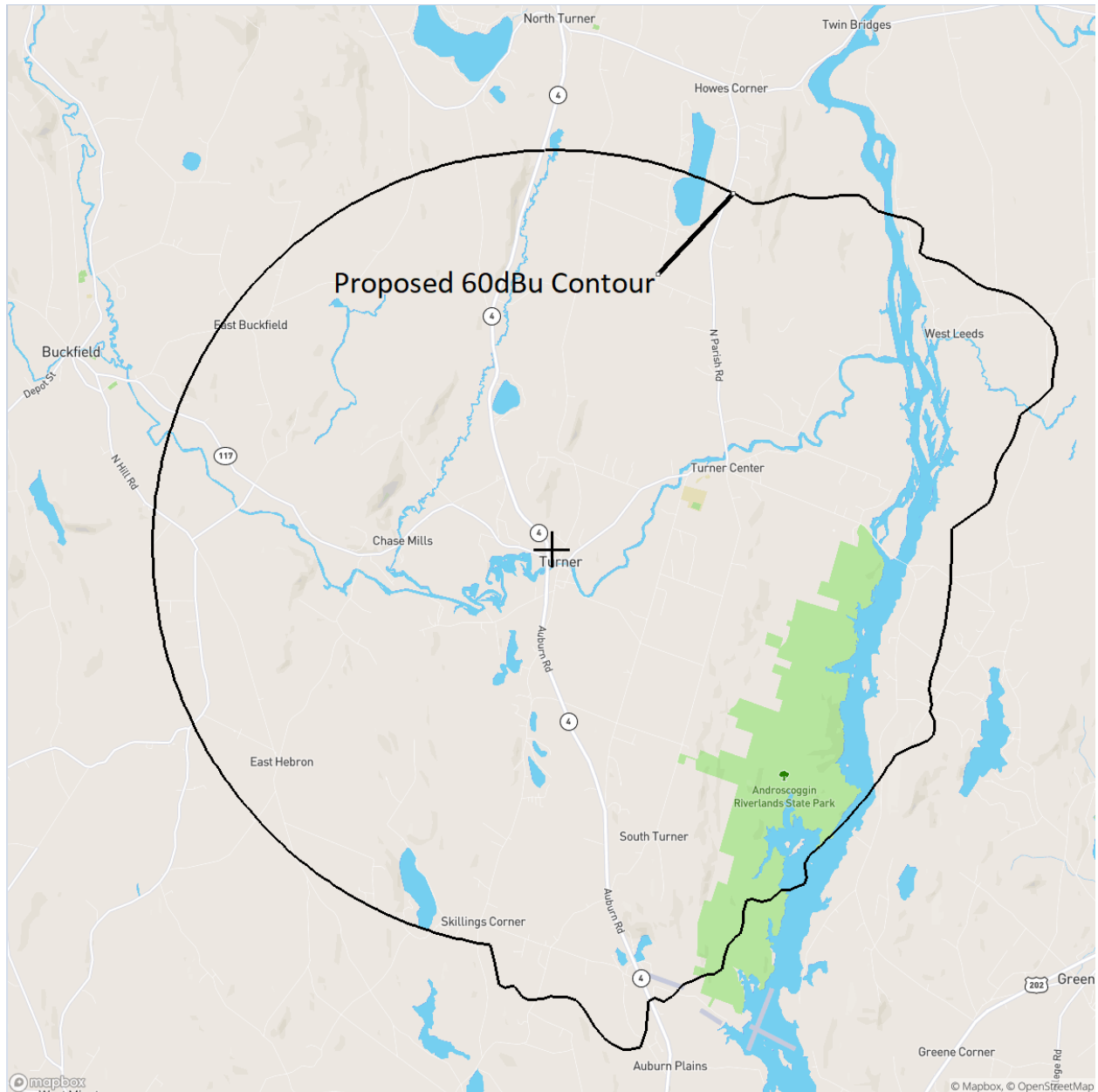
## Technical Certifications

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.

Calvary Baptist Church NewFMStudy											
REFERENCE	CH#	216A	-	91.1 MHz,	Pwr= 0.25 kW,	HAAT= 3.4 M,	COR= 140.2 M	DISPLAY DATES			
44 15 30.04 N.								DATA	10-29-21		
70 15 29.40 W.								SEARCH	10-29-21		
								Average Protected F(50-50)= 7.09 km			
								Omni-directional			
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)
216A	WMTP	LIC _CN		251.8	70.08	44 03 30.20	0.090	62.9	19.6	0.2	26.6
Conway		NH		71.2	BLED20120405ABS	71 05 29.20	264	542	Word Radio	Educational Fou	
218A	WRBC	LIC _CN		166.9	17.49	44 06 18.20	0.120	0.8	5.9	8.2	10.5
Lewiston		ME		346.9	BLED19820720AC	70 12 30.10	5	95	President & Trustees Of Ba		
216L1	WMPF-LP	LIC _CN		323.5	39.77	44 32 44.00	0.100			14.1	10.4
Rumford		ME		143.3	0000123389	70 33 24.00	-125	180	River Valley Community Ass		
215B1	WMPG	LIC DCN		186.0	57.50	43 44 38.00	4.500	38.9	25.8	10.9	20.6
Gorham		ME		6.0	BLED20111212AAT	70 19 59.00	195	242	University Of Maine System		
216A	WBOR	LIC _HN		148.9	45.72	43 54 21.20	0.300	24.9	7.4	13.0	14.0
Brunswick		ME		329.1	BLED20170725ABG	69 57 47.10	47	73	Bowdoin College		
217A	WMEW	LIC _CN		61.7	54.69	44 29 23.20	3.000	30.8	21.0	14.6	19.6
Waterville		ME		242.1	BMLLED20001031ACE	69 39 03.10	91	167	Maine Public Broadcasting		
219C3	WBQF	CP DCN		219.3	57.32	43 51 30.00	0.250	1.0	29.7	49.2	26.4
Fryeburg		ME		39.0	0000156008	70 42 39.00	551	695	Maine Public Broadcasting		
218C3	WBQF	LIC DCN		242.7	50.67	44 02 51.20	0.430	0.3	14.3	43.2	34.5
Fryeburg		ME		62.3	BLED20110419AAS	70 49 17.20	387	544	Maine Public Broadcasting		
218A	WUMF	LIC _CN		11.0	46.42	44 40 05.30	0.100	0.7	5.6	38.6	39.7
Farmington		ME		191.1	BLED20101122AHJ	70 08 46.00	-66	141	University Of Maine System		
270B	WPOR«	LIC _CN		185.1	55.67	43 45 33.30	32.000	0.0	0.0	14.5R	41.2M
Portland		ME		5.1	BLH20090225AAD	70 19 13.20	186	234	Saga Communications Of New		
213B	WMEP	LIC _VN		93.0	88.34	44 12 40.20	2.000	2.8	40.7	77.2	46.5
Camden		ME		273.8	BLED20011113ABV	69 09 04.10	371	443	Maine Public Broadcasting		
213A	WRGY	LIC _CN		345.3	77.81	44 56 06.20	0.090	0.7	29.7	70.1	46.9
Rangeley		ME		165.1	BLED20170823AAE	70 30 33.20	645	1232	Tranet		
217D	W217C3	LIC _CN		180.3	66.60	43 39 33.30	0.250	10.1	7.1	48.0	48.7
Portland		ME		0.3	0000152371	70 15 45.30		24	Light Of Life Ministries,		
06 --	WLLB-LD«	CP _HN		187.6	62.99	43 41 48.21	2.000	3.0	11.4	14.3R	48.7M
Portland		ME		7.6	0000054937	70 21 44.10		118			

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)  
 « = Station meets FCC minimum distance spacing for its class.  
 Reference station has protected zone issue: Canada

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).

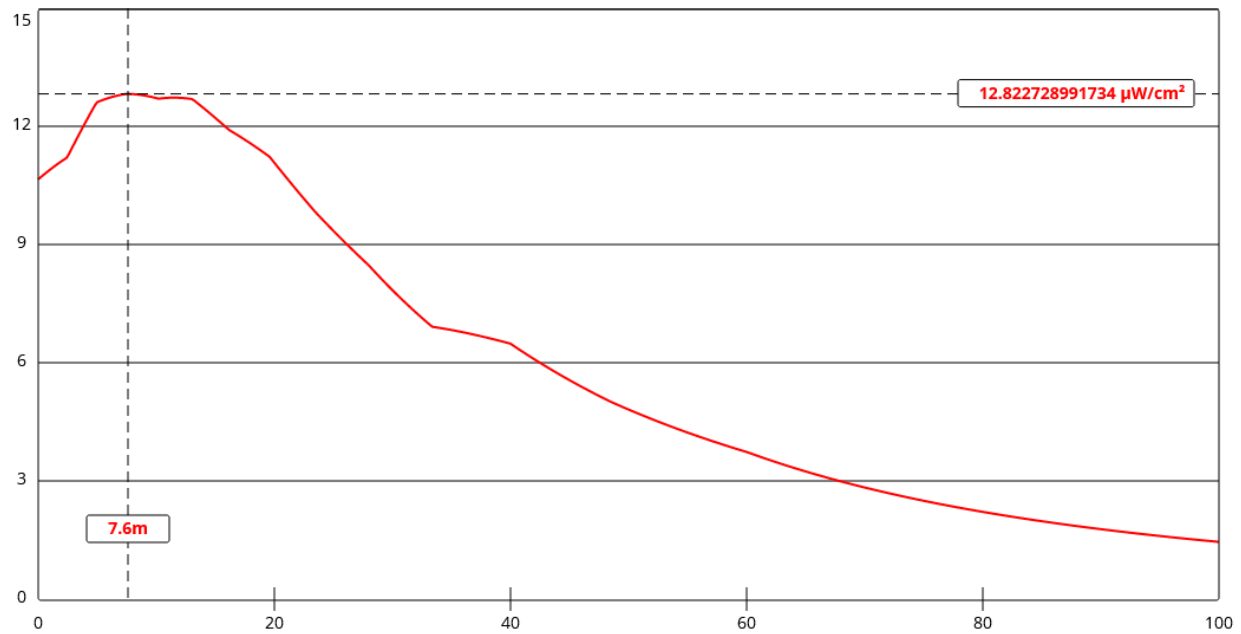
The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered 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 the grounds of Calvary Baptist Church, which is owned by the applicant. The applicant proposes a 33m self-supporting tower with a single-bay circularly polarized antenna mounted at 30m on the tower. There are no other emitters planned on the tower.

Shown below is the output of the Commission's FM Model program, with a maximum calculated exposure of  $12.8 \mu\text{W}/\text{cm}^2$ , well below the maximum permissible exposure for the general public, or 6.4% 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.



View Tabular Results +

Channel Selection	Channel 216 (91.1 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="30"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="250"/>	ERP-V (W)	<input type="text" value="250"/>
Num of Elements	<input type="text" value="1"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	