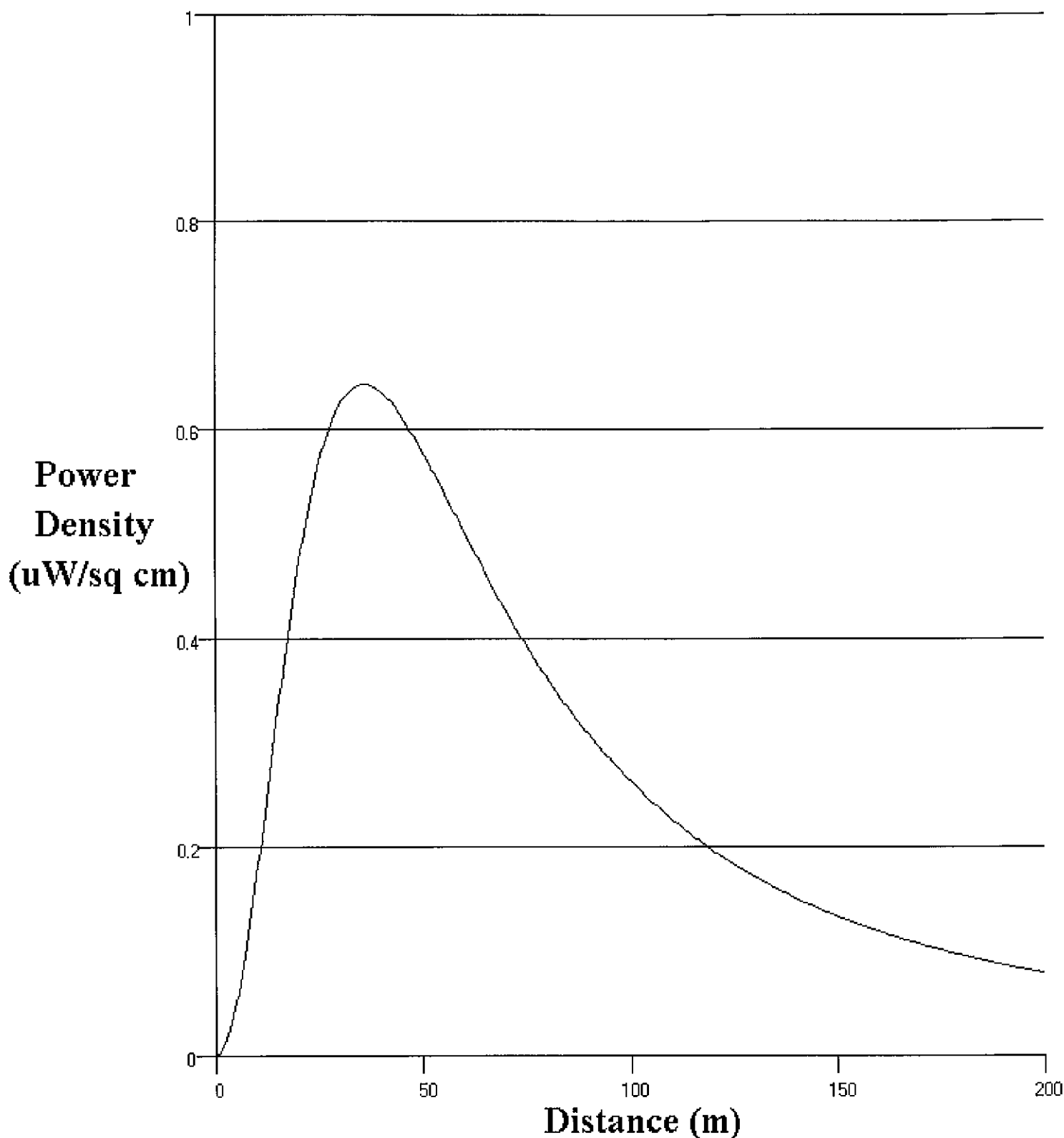


		K220JS Calvary Chapel Of Twin Falls, Inc.							DISPLAY DATES	
REFERENCE		CH# 220D	- 91.9 MHz, Pwr= 0.1 kw, HAAT= 77.5 M, COR= 794 M					DATA 09-24-19		
44 03 44.0 N.		Average Protected F(50-50)= 9.1 km							SEARCH 09-25-19	
116 54 22.0 W.		Omni-directional								

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*
220D Ontario	K220JS	LIC _V_ OR		0.0 0.0	0.00 BLFT20100315ADG	44 03 44.0 116 54 22.0	0.100 79	794	---Reference---		
Calvary Chapel Of Twin Fal											
222C Boise	KIZN	LIC _CY ID		117.5 298.0	73.12 BLH20010831AAH	43 45 21.0 116 05 54.0	48.000 828	12.0 2215	92.2	49.8	-19.8*
Radio License Holding Cbc,											
220D Nampa	K220JU	LIC _C_ ID		117.5 298.1	73.18 BLFT20160907AAB	43 45 18.0 116 05 53.0	0.010	57.3 2151	15.4	4.7	21.0
Calvary Chapel Of Twin Fal											
218C1 Boise	KBSX	LIC _C_ ID		117.5 298.0	73.12 BLED20010917AAO	43 45 21.0 116 05 54.0	3.800 827	4.0 2215	65.0	57.8	7.0
Idaho State Board Of Educa											
220A Baker City	KESY	LIC _CX OR		315.7 135.0	110.02 BLED20141105ADR	44 45 57.0 117 52 49.0	0.820 221	86.2 1482	31.2	13.1	45.0
Idaho Conference Of Sevent											
220D Richland	K220DA	LIC _C_ OR		347.4 167.2	90.44 BLFT20020320ABW	44 51 21.0 117 09 24.0	0.010 429	50.5 1437	13.7	28.0	35.6
Oregon Public Broadcasting											
274C Melba	KZMG	LIC _CX ID		117.5 298.1	73.37 BMLH20160923ABT	43 45 18.0 116 05 51.0	50.000 803	12.8 2190	58.8	28.5R	44.9M
Iliad Media Boise, Llc D/b											
06 -- Nampa	KTVJ-LD«	CP DHN ID		117.5 298.0	73.12 0000058624	43 45 21.4 116 05 53.6	3.000 -999	1.6 2176	2.9	4.5R	68.6M

Terrain database is USGS 03 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.
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.
Reference station has protected zone issue: AM tower

Power Density vs Distance

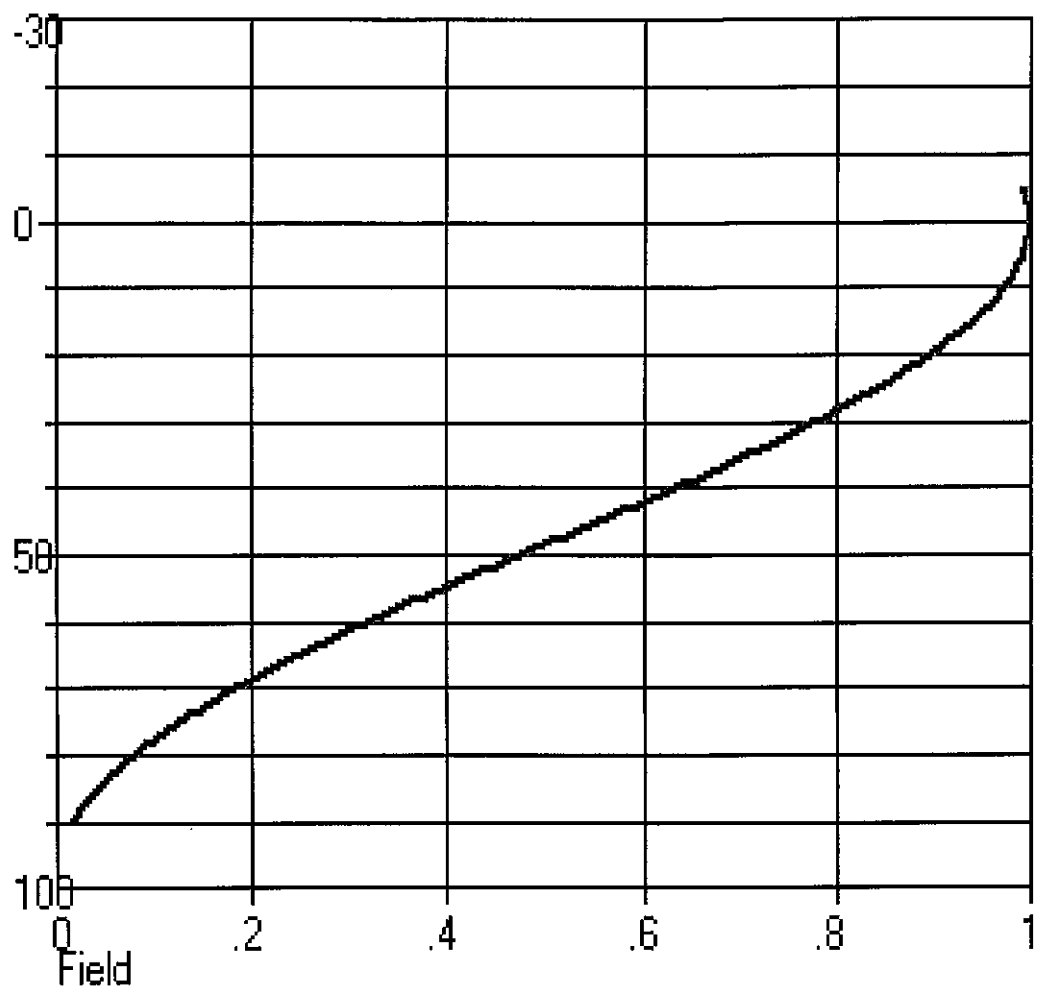


Modified from FMMODEL, a program written by the FCC Office of Engineering and Technology

Distance(m):	200	Antenna Type:	Vertical Dipole	K220JS
Horizontal ERP(kW):	0	Number of Elements:	1	0.644285 $\mu\text{W}/\text{sq cm}$
Vertical ERP(kW):	0.1	Element Spacing:		at 36 Meters
Antenna Height (m):	38			0.1% of Occupational Limit 0.3% of General Limit

Antenna= TFLBDI

Depression Angle



TV 6 compliance
Calvary Chapel Of Twin Falls, Inc.

REFERENCE 44 03 44.0 N. CH# 220D - 91.9 MHz, Pwr= 0.1 kw, HAAT= 77.5 M, COR= 794 M
116 54 22.0 W. Average Protected F(50-50)= 9.1 km
Omni-directional

DISPLAY DATES
DATA 09-24-19
SEARCH 09-25-19

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*
220D Ontario	K220JS	LIC _V_ OR		0.0 0.0	0.00 BLFT20100315ADG	44 03 44.0 116 54 22.0	0.100 79	794	---Reference---		Calvary Chapel Of Twin Fa
222C Boise	KIZN	LIC _CY ID		117.5 298.0	73.12 BLH20010831AAH	43 45 21.0 116 05 54.0	48.000 828	12.0 2215	92.2 Radio License Holding Cbc,	49.8	-19.8*
220D Nampa	K220JU	LIC _C_ ID		117.5 298.1	73.18 BLFT20160907AAB	43 45 18.0 116 05 53.0	0.010	57.3 2151	15.4 Calvary Chapel Of Twin Fa	4.7	21.0
218C1 Boise	KBSX	LIC _C_ ID		117.5 298.0	73.12 BLED20010917AAO	43 45 21.0 116 05 54.0	3.800 827	4.0 2215	65.0 Idaho State Board Of Educa	57.8	7.0
220A Baker City	KESY	LIC _CX OR		315.7 135.0	110.02 BLED20141105ADR	44 45 57.0 117 52 49.0	0.820 221	86.2 1482	31.2 Idaho Conference Of Sevent	13.1	45.0
220D Richland	K220DA	LIC _C_ OR		347.4 167.2	90.44 BLFT20020320ABW	44 51 21.0 117 09 24.0	0.010 429	50.5 1437	13.7 Oregon Public Broadcasting	28.0	35.6
274C Melba	KZMG	LIC _CX ID		117.5 298.1	73.37 BMLH20160923ABT	43 45 18.0 116 05 51.0	50.000 803	12.8 2190	58.8 Iliad Media Boise, Llc D/b	28.5R	44.9M
06 -- Nampa	KTVJ-LD«	CP DHN ID		117.5 298.0	73.12 0000058624	43 45 21.4 116 05 53.6	3.000 -999	1.6 2176	2.9	4.5R	68.6M

Terrain database is USGS 03 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.
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.
Reference station has protected zone issue: AM tower

EXHIBIT 13
Waiver Request of Section 74.1204
Ontario, OR, K220JS, 100 Watts ERP
Minor Change in Antenna
Calvary Chapel of Twin Falls, Inc.
SEPTEMBER 2019

The proposed site is contained entirely inside the service contours of the following second-adjacent station KIZN, BOISE ID.

This minor change will only modify the existing antenna, to a BEXT TFLBDI vertical only. No other changes are being made.

KIZN BOISE LIC222 C DOM 48kW NON DIRECTIONAL

The proposed site is contained entirely within the service contour of second-adjacent station KIZN. The level of least arriving protected F(50,50) signal at the proposed transmitter site is 107.7-dBu. Using the Undesired-to-Desired method for calculating proposed interference, the interfering contour with respect to KIZN is 147.7 dBu (free space contour method employed). The interfering signal would, in the worst case at the maximum radial, extend around 10 ft from the Center of radiation, which is located 13 meters AGL on the tower. This signal will not touch the ground. This translator is located on a communications site, where there are other towers. Attached is a Power Density graph showing the radiation pattern should not affect any homes or businesses in the area. There are a couple of structures on the Hill, as shown on the attached google earth aerial photo. K220JS has never had any Problems with other users near the site, or the other structures also located on or near the site. **Calvary Chapel of twin Falls, Inc. respectfully requests a waiver of the FM translator contour overlap regulations with respect to second-adjacent KIZN.**