

MINOR CHANGE APPLICATION
RADIO LICENSE HOLDING CBC, LLC
NEW FM TRANSLATOR STATION
CH 237D - 95.3 MHZ - 0.20 KW
NAMPA, IDAHO
April 2018

EXHIBIT B

Interference Study for New FM Translator
Using Licensed/Proposed Site as Reference

The proposed new FM translator on Channel 237D, operating with an effective radiated power of 0.20 kilowatt, will not cause interference to any existing, applied for, or proposed facility. As noted on Exhibit B1, the proposed new translator is within the predicted 60 dBu contour of second adjacent station KRVB, Channel 235C, Nampa, Idaho. Due to the relationship between the proposed new translator and KRVB, a 40 db ratio of the protected and interfering contours applies.

New Translator vs KRVB

The KRVB contour at the new translator's antenna site is in excess of 87.2 dBu (50/50). The corresponding interfering contour for the new translator is 127.2 dBu (50/10) (Exhibit B2). As shown in the tabulation of desired to undesired contours (Exhibit B3), the new translator's interfering contour (127.2 dBu, FCC 50/10) will not reach ground level. Since the new translator's antenna will be mounted 113.0 meters (370.7 feet) above ground and there are no structures of comparable height in the vicinity of the proposed new translator antenna, this contour never reaches any potentially occupied space. As such, KRVB will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed new FM translator is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address KRVB, one is respectfully requested.

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EXHIBIT B1

Clearance Study for New Translator
Using Proposed Site as Reference

REFERENCE CH# 237D - 95.3 MHz, Pwr= 0.2 kW, HAAT= 125.5 M, COR= 942 M DISPLAY DATES
 43 32 57.9 N. Average Protected F(50-50)= 13.6 km DATA 04-18-18
 116 24 38.0 W. Omni-directional SEARCH 04-18-18

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*
235C Nampa	KRVB	LIC ID	CX	47.6 227.9	33.99 BMLH20161121ADS	43 45 18.0 116 05 52.0	49.000 821	12.9 2209	98.1 Scripps Broadcasting Holdi	7.5	-65.1*
237D Nampa	1777250!	APP ID	C	0.0 0.0	0.00 BNPFT20180130AFY	43 32 57.9 116 24 38.0	0.200	0.00 196	0.00 Radio License Holding Cbc,	-64.5R	64.5M
237D Ontario	K286BH	CP OR	C	325.3 144.9	69.50 BPFT20160729AOR	44 03 44.0 116 54 22.0	0.190	55.0 877	17.3 Fm Idaho Co., Llc D/b/a Im	-1.3	1.0
290C Garden City	KCIX	LIC ID	CN	47.6 227.9	34.03 BLH19850115LP	43 45 18.0 116 05 52.0	49.000 823	0.0 2210	0.0 Townsquare Media Boise Lic	28.5R	5.5M
239D Garden City	K239AC	LIC ID	C	75.6 255.8	22.02 BMLFT20071010ACO	43 35 54.0 116 08 44.0	0.028 308	0.4 1125	12.6 Calvary Chapel Of Twin Fal	9.1	8.4
237C1 Sun Valley	KECH-FM	LIC ID	CX	85.6 267.0	162.44 BLH20131028AAU	43 38 37.0 114 23 50.0	2.500 583	125.8 2658	50.0 Rp Broadcasting Ls, Llc	24.7	70.5
238C1 Mccall	KUJJ	LIC ID	NCX	7.1 187.2	136.20 BLH20131227ADB	44 45 54.0 116 11 54.0	2.700 559	82.0 2246	52.2 Inspirational Family Radio	40.0	57.4

Terrain database is FCC 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= East 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.

Reference station has protected zone issue: AM tower

Ch 237, Nampa, ID - BNPFT20180130AFY


Latitude: 43-32-57.90 N / Longitude: 116-24-38 W
ERP: 0.20 kW / Channel: 237 / Frequency: 95.3 MHz
AMSL Height: 942.0 m / Elevation: 829.0 m

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

Ch 237 Transmitter Site

EXHIBIT B2
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 KRVB 87.2 dBu (50/50)

Scale 1:250,000

0 3 6 9 km

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EXHIBIT B3

1777250 Nampa, ID, Showing Protection to KRVB
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.2
 Translator or LPFM Antenna Height AG = 113 Meters
 1777250 Antenna Model = 1 BAY

Protected Station's Contour = 87.20367 dBu
 Translator's or LPFM's full Interference contour 127.20367

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.2 kW
 Distance between stations = 34.0 km
 Protected Station= KRVB, 49 kW, 2209 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle (m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2000	043.2844	043.2844	113.000
05.00	0.993	1.0	0.1972	042.9814	042.8179	109.254
10.00	0.974	1.0	0.1897	042.1590	041.5185	105.679
15.00	0.941	1.0	0.1771	040.7306	039.3428	102.458
20.00	0.897	1.0	0.1609	038.8261	036.4846	099.721
25.00	0.843	1.0	0.1421	036.4888	033.0700	097.579
30.00	0.78	1.0	0.1217	033.7618	029.2386	096.119
35.00	0.709	1.0	0.1005	030.6886	025.1387	095.398
40.00	0.633	1.0	0.0801	027.3990	020.9889	095.388
45.00	0.554	1.0	0.0614	023.9796	016.9561	096.044
50.00	0.473	1.0	0.0447	020.4735	013.1601	097.316
55.00	0.394	1.0	0.0310	017.0541	009.7818	099.030
60.00	0.317	1.0	0.0201	013.7212	006.8606	101.117
65.00	0.245	1.0	0.0120	010.6047	004.4817	103.389
70.00	0.181	1.0	0.0066	007.8345	002.6795	105.638
75.00	0.124	1.0	0.0031	005.3673	001.3892	107.816
80.00	0.077	1.0	0.0012	003.3329	000.5788	109.718
85.00	0.041	1.0	0.0003	001.7747	000.1547	111.232
90.00	0.016	1.0	0.0001	000.6926	000.0000	112.307

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EXHIBIT B4

N. Lat. = 43° 32' 57.9" - Protected and Interfering Contour Data
W. Lng. = 116° 24' 38.0" - New FM Translator, Nampa, Idaho

HAAT and Distance to Contour - FCC 30 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	127.2-F1	100-F1	60-F5	54-F1	40-F1
000	783.0	159.0	0.2000	-6.99	1.000	0.04	0.99	15.48	23.30	50.50
010	789.4	152.6	0.2000	-6.99	1.000	0.04	0.99	15.11	22.77	49.65
020	800.4	141.6	0.2000	-6.99	1.000	0.04	0.99	14.47	21.84	48.18
030	803.3	138.7	0.2000	-6.99	1.000	0.04	0.99	14.31	21.59	47.79
040	811.5	130.5	0.2000	-6.99	1.000	0.04	0.99	13.85	20.89	46.68
050	819.6	122.4	0.2000	-6.99	1.000	0.04	0.99	13.42	20.20	45.60
060	822.3	119.7	0.2000	-6.99	1.000	0.04	0.99	13.28	19.97	45.22
070	833.9	108.1	0.2000	-6.99	1.000	0.04	0.99	12.65	18.87	43.37
080	842.2	99.8	0.2000	-6.99	1.000	0.04	0.99	12.18	17.99	41.80
090	850.1	91.9	0.2000	-6.99	1.000	0.04	0.99	11.71	17.09	40.12
100	856.7	85.3	0.2000	-6.99	1.000	0.04	0.99	11.31	16.31	38.62
110	881.6	60.4	0.2000	-6.99	1.000	0.04	0.99	9.65	13.44	32.05
120	874.1	67.9	0.2000	-6.99	1.000	0.04	0.99	10.18	14.16	34.17
130	861.4	80.6	0.2000	-6.99	1.000	0.04	0.99	11.01	15.73	37.47
140	850.3	91.7	0.2000	-6.99	1.000	0.04	0.99	11.70	17.06	40.07
150	846.8	95.2	0.2000	-6.99	1.000	0.04	0.99	11.91	17.48	40.85
160	850.6	91.4	0.2000	-6.99	1.000	0.04	0.99	11.68	17.03	40.01
170	850.7	91.3	0.2000	-6.99	1.000	0.04	0.99	11.67	17.02	39.99
180	860.6	81.4	0.2000	-6.99	1.000	0.04	0.99	11.06	15.83	37.67
190	875.9	66.1	0.2000	-6.99	1.000	0.04	0.99	10.05	13.98	33.65
200	860.6	81.4	0.2000	-6.99	1.000	0.04	0.99	11.06	15.83	37.66
210	827.6	114.4	0.2000	-6.99	1.000	0.04	0.99	13.00	19.49	44.43
220	814.4	127.6	0.2000	-6.99	1.000	0.04	0.99	13.70	20.64	46.30
230	807.8	134.2	0.2000	-6.99	1.000	0.04	0.99	14.06	21.21	47.18
240	792.7	149.3	0.2000	-6.99	1.000	0.04	0.99	14.92	22.50	49.21
250	790.0	152.0	0.2000	-6.99	1.000	0.04	0.99	15.07	22.72	49.56
260	783.8	158.2	0.2000	-6.99	1.000	0.04	0.99	15.43	23.24	50.39
270	779.3	162.7	0.2000	-6.99	1.000	0.04	0.99	15.69	23.59	50.98
280	777.6	164.4	0.2000	-6.99	1.000	0.04	0.99	15.78	23.72	51.19
290	779.2	162.8	0.2000	-6.99	1.000	0.04	0.99	15.70	23.60	50.99
300	781.6	160.4	0.2000	-6.99	1.000	0.04	0.99	15.56	23.41	50.68
310	779.9	162.1	0.2000	-6.99	1.000	0.04	0.99	15.65	23.54	50.89
320	776.7	165.3	0.2000	-6.99	1.000	0.04	0.99	15.84	23.80	51.31
330	777.4	164.6	0.2000	-6.99	1.000	0.04	0.99	15.80	23.74	51.22
340	778.2	163.8	0.2000	-6.99	1.000	0.04	0.99	15.75	23.68	51.12
350	779.7	162.3	0.2000	-6.99	1.000	0.04	0.99	15.67	23.56	50.93

AMSL= 942 M