

TELECOMMUNICATIONS ENGINEERING  
**GRAY FRIERSON HAERTIG & ASSOC.**  
4646 S.W. COUNCIL CREST DRIVE  
PORTLAND, OREGON 97239  
503-282-2989 (Office)  
503-807-2989 (Cell)

ELECTRONIC MAIL  
gfh@haertig.com

17 October 2021  
Prepared for Spokane Public Radio, Inc  
New NCE, Colville, Washington

### ALLOCATION CONSIDERATIONS

On 16 October 2021, a computerized allocation analysis was performed on the facilities proposed herein using data from the Commission's CDBS and LMS and those allocations and assignments notified by the Government of Canada, current as of 15 October 2021. The software to perform this analysis was provided by V-Soft Communications. A copy of this study is attached.

This analysis revealed no domestic allocations, applications or assignments and one Canadian assignment requiring further study. This is co-channel Class C, CBTKFM, Kelowna, British Columbia.

Attached below is a map exhibit demonstrating conclusively that no prohibited overlap occurs.

The applicant believes that the facilities proposed herein meet all of the Commission's rules of allocation and those outlined in the Agreement Between the United States and Canada.



Gray Frierson Haertig & Assoc. Portland, Oregon											
Spokane Public Broadcasting Spokane, Washington											
REFERENCE	CH#	205C3	-	88.9	MHz,	Pwr=	0.066	kw,	HAAT=	943.9	M,
48 29 24.60 N.											COR=
118 03 57.90 W.											1703 M
											Average Protected F(50-50)= 29.17 km
											Omni-directional
											DISPLAY DATES
											DATA 10-15-21
											SEARCH 10-16-21
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)	
205C	CBTKFM	LIC	DCN	327.6	195.70	49 57 59.90	4.700	137.1	62.6	27.6	0.1
	Kelowna		BC	146.5		119 31 44.30	511	986			
203A	AL3695«	VAC	___	351.5	65.21	49 04 12.69	6.000	4.7	38.0	64.0R	1.2M
	Christina Lake		BC	171.4		118 11 52.02	100	1188			
204C1	KAGU	LIC	_CN	150.2	116.11	47 34 51.60	5.000	85.3	57.7	2.4	15.8
	Spokane		WA	330.8	BLED20041119ADR	117 17 50.70	466	1187	Gonzaga	University	Telecom
206B	R57532		___	58.5	132.41	49 05 59.85	50.000	57.8	65.0	46.5	5.0
	Creston		BC	239.7		116 31 03.78	150	1096			
208C1	KEWU-FM	LIC	_CN	150.3	116.32	47 34 42.60	10.000	5.7	61.9	82.2	53.8
	Cheney		WA	330.9	BLED19861117KA	117 17 53.70	429	1148	Eastern	Washington	Univers
203C3	KOMQ	LIC	DCN	268.0	91.73	48 27 14.50	0.100	0.7	18.7	60.5	70.8
	Omak		WA	87.0	BLED20111117AVZ	119 18 34.10	777	1760	Spokane	Public Radio, Inc.	
06 C	CHKC-TV-2««	LI	DHN	303.4	151.59	49 13 34.66	0.058	36.2	4.3	40.5R	111.1M
	Keremeosola11a		BC	122.1	CANLP178	119 48 19.26		869			
6 --	CHKC-TV-2««	CHA	_Y	303.4	151.59	49 13 34.66	0.058	36.2	4.3	40.5R	111.1M
	Keremeosola11a		BC	122.1	DTVBL704255	119 48 19.26		869			
6 --	CH5281-A««	CHA	_Y	17.2	148.79	49 45 59.99	0.008	34.1	2.7	36.7R	112.1M
	Slocan		BC	197.7	DTVBL704359	117 27 13.94		777			
06 C	CH5281««	LI	DHN	17.2	148.79	49 45 59.99	0.008	34.1	2.7	36.7R	112.1M
	Slocan		BC	197.7	CANLP281	117 27 13.94		777			
06 C	CH5669««	LI	DHN	16.4	173.91	49 59 17.04	0.160	34.1	5.7	39.7R	134.2M
	New Denver		BC	196.9	CANLP235	117 22 42.96		565			
6 --	CH5669-A««	CHA	_Y	16.4	173.91	49 59 17.04	0.160	34.1	5.7	39.7R	134.2M
	New Denver		BC	196.9	DTVBL704313	117 22 42.96		565			
06 --	K06QF-D«	LI	D_N	107.6	187.12	47 57 17.59	0.050	35.5	16.5	52.0R	135.1M
	Heron		MT	289.4	BLDTV-20121130BUF	115 40 14.90		1443			

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

**Prop**

Latitude: 48-29-24.60 N  
Longitude: 118-03-57.90 W  
ERP: 0.066 kW  
Channel: 205  
Frequency: 88.9 MHz  
AMSL Height: 1703.0 m  
Elevation: 1587.7 m  
Horiz. Pattern: Omni  
Vert. Pattern: No

**Gray Frierson Haertig & Assoc.**  
4646 S.W. Council Crest Drive  
Portland, Oregon 97239  
503-282-2989 - gfh@haertig.com

-  CBTKFM Class C 97 KM Protected Circle Contour
-  Proposed 38dBu Interfering Contour

120-00-00 W



**CBTKFM**

**CANADA**

50-00-00 N

**U S A**



**Prop**

**Proposed vs CBTKFM**

Scale 1:2,000,000

0 20 40 60 km