

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, Kettle Falls, 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 two Canadian allocations and assignments requiring further study. These are a first-channel adjacent Class A1 allocation at Castlegar, British Columbia, and the co-channel Class B facilities of CBUF-2, 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# 213C2 - 90.5 MHz, Pwr= 0.21 kW, HAAT= 943.9 M, COR= 1703 M
48 29 24.60 N.
118 03 57.90 W.
Average Protected F(50-50)= 39.72 km
Omni-directional

DISPLAY DATES
DATA 10-15-21
SEARCH 10-16-21

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
212A1 Castlegar	R11075	VAC ____ BC	19.2 199.5	97.04	49 18 47.83 117 37 31.93	0.250 100	30.8 1188	18.0	27.4	0.2
213B Kelowna	CBUF-2	LIC DHN BC	327.6 146.5	195.70	49 57 59.90 119 31 44.30	1.850 511	121.8 986	62.5	31.9	1.5
212A Spokane	KPBZ	LIC _CN WA	151.0 331.4	85.91 BLED20100621AAA	47 48 47.60 117 30 26.80	0.550 330	39.9 958	24.8 Spokane	7.8 Public Radio, Inc.	2.6
214A1 Pasmore	AL4481<	VAC ____ BC	13.3 193.6	120.68	49 32 44.92 117 40 55.98	0.250 100	10.1 1439	18.0	117.0R	3.7M
216C Spokane	KPBX-FM	LIC _CN WA	144.1 324.9	125.65 BMLD19831028AB	47 34 12.60 117 05 03.70	56.000 725	13.1 1571	96.6 Spokane	73.1 Public Radio, Inc.	28.0
216A1 Salmo	R14791<	VAC ____ BC	36.2 216.8	96.33	49 11 09.81 117 17 02.90	0.250 100	1.1 1362	18.0	67.0R	29.3M
211C1 Omak	KQWS	LIC _CN WA	284.4 103.2	117.79 BLED19990120KB	48 44 36.50 119 37 20.20	3.000 749	3.6 1595	68.8 Washington State Universit	73.4	47.9
210C1 Rathdrum	KYMS	LIC _CN ID	114.1 295.1	110.10 BLED20160503ABF	48 04 41.60 116 42 45.70	2.800 602	3.4 1394	54.0 Legacy Broadcasting, Inc.	65.6	53.4

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.
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: 0.21 kW
Channel: 213
Frequency: 90.5 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

- CBUF-2 Protected Class B 65 KM Circle Contour
- Proposed 34 dBu Interfering Contour
- Castlegar Class A1 Protected 18 KM Circle Contour
- Proposed 48 dBu Interfering Contour

CANADA

120-00-00 W

CBUF-2

50-00-00 N

R11075

USA

Prop

Proposed vs CBUF-2 & Castlegar Class A1 Allocation

Scale 1:2,000,000

0 20 40 60 km