

May 2005
KAYO-FM Channel 257C Elma, WA
Allocation Study

Channel 257C Transmitter Site

The attached spacing study shows that the proposed transmitter site meets the co-channel and adjacent channel spacing requirements for Class C stations as prescribed in §73.207 of the Commission's Rules, with the exception of one domestic and two Canadian short-spacings as detailed below.

KQSN(FM) Channel 257A Naches

Processing pursuant to §73.215 of the Commissions Rules is requested with respect to the licensed KQSN facility, and the attached Allocation Study Map 1 is included to demonstrate the lack of prohibited contour overlap with that station.

CFOX-FM Channel 257C at Vancouver, British Columbia

The proposed transmitter site is short-spaced to Canadian station CFOX-FM, which operates on Channel 257C at Vancouver, British Columbia. Under the terms of the Working Arrangement for the Allotment and Assignment of FM Broadcasting Channels Under the Agreement Between the Government of Canada and the Government of the United States of America Relating to the FM Broadcasting Service, as amended in 1997 ("Working Arrangement"), the required co-channel Class C to Class C spacing is 306 kilometers, whereas the distance between the proposed KAYO-FM transmitter site and the CBUF-FM transmitter site is 230 kilometers. The attached Allocation Study Maps 2 and 3 demonstrate that the 38 dBu F(50,10) contour from the proposed directional KAYO-FM facility will not overlap the CFOX-FM 97 km protected service radius at any location over Canadian land areas.

CBCV-FM-1 Channel 258A at Metchosin/Sooke, British Columbia

The proposed transmitter site is short-spaced to Canadian station CBCV-FM-1, which operates on Channel 258A at Metchosin/Sooke, British Columbia. Under the terms of the Working Arrangement the required co-channel Class C to Class A spacing is 182 kilometers, whereas the distance between the proposed KAYO-FM transmitter site and the CBCV-FM-1 transmitter site is 122 kilometers. The attached Allocation Study Map 2 demonstrates that the 52 dBu F(50,10) contour from the proposed directional KAYO-FM facility will not overlap the CBCV-FM-1 38 km protected service radius at any location over Canadian land areas.

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SEARCH PARAMETERS

FM Database Date: 20050517

Channel: 257C 99.3 MHz
 Latitude: 47 18 46
 Longitude: 123 22 15
 Safety Zone: 32 km
 Job Title: KAYO 257C SOUTH MTN

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KPLUaux LIC	TACOMA WA	BMLED-900402KD	203C 88.5	30.000 189.0	47-28-50 122-31-58	73.2	65.96 0.00	0 AUX
K254AP CP	OLYMPIA WA	BPFT-011218ABA	254D 98.7	0.004 753.0	46-58-23 123-08-19	155.0	41.67 0.00	0 TRANS
KWJZ LIC	SEATTLE WA	BLH-970317KB	255C 98.9	58.000 714.0	47-30-14 121-58-29	78.1	107.49 2.49	105 CLOSE
KWJZaux LIC	SEATTLE WA	BLH-990803KF	255C 98.9	8.300 377.0	47-32-41 122-06-28	74.3	98.72 0.00	0 AUX
NEW-T APP	SPITZENBERG OR	BNPFT-030310BHB	256D 99.1	0.003 0.0	45-46-56 123-00-01	170.4	172.50 0.00	0 TRANS
NEW-T APP	BATTLE GROUND WA	BNPFT-030317KPT	256D 99.1	0.013 477.0	45-51-34 122-27-14	156.2	176.18 0.00	0 TRANS
NEW-T APP	CAMAS WA	BNPFT-030310ATN	256D 99.1	0.008 500.0	45-40-34 122-22-35	156.9	197.30 0.00	0 TRANS
CFOXFM	VANCOUVER BC	-	257C 99.3	72.000 686.0	49-21-29 122-57-09	7.6	229.53 -76.47	306 SHORT
KAYOaux LIC	ABERDEEN WA	BXLH-000822ABQ	257C1 99.3	0.680 615.0	46-58-31 123-08-21	154.9	41.43 0.00	0 AUX
KAYO-FM LIC	ELMA WA	BLH-040723ACJ	257C 99.3	41.000 620.0	47-19-12 123-20-41	67.8 SS	2.13 -287.87	290 SHORT
KAYOaux CP	ELMA WA	BXPH-041025AEP	257C 99.3	0.680 630.0	46-58-31 123-08-16	154.8	41.48 0.00	0 AUX
KAYOaux CP	ELMA WA	BMXPH-050208AFA	257C 99.3	0.900 630.0	46-58-31 123-08-16	154.8	41.48 0.00	0 AUX
KQSN LIC	NACHES WA	BLH-000210ABI	257A 99.3	0.790 274.0	46-36-02 120-52-06	111.7 SS	206.29 -19.71	226 SHORT

ABSOLUTE MINIMUM 73.215 SPACING = 203 KM

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KAYO-FM1 LIC	OLYMPIA WA	BLFTB-000630ADI	257D 99.3	3.200 0.0	47-00-58 122-54-57	133.6	47.73 0.00	0 BOOST
CBCVFM1 BC	METCHOSIN/SOOKE RM-		258A 99.5	0.060 323.5	48-24-09 123-34-20	353.0	122.10 -59.90	182 SHORT
	SOOKE BC		258A 99.5	0.000 0.0	48-21-28 123-41-10	348.7	118.56 -63.44	182 SHORT
NOTE: MOVED TO METHOSIN/SOOKE								
KWJJJaux LIC	PORTLAND OR	BLH-920212KC	258C1 99.5	23.000 312.0	45-29-20 122-41-40	165.4	209.31 0.00	0 AUX
KWJJJ-FM LIC	PORTLAND OR	BLH-911106KG	258C1 99.5	52.000 386.0	45-29-20 122-41-40	165.4	209.31 0.31	209 CLOSE
K258AW CP	BELLINGHAM WA	BNPFT-030828AXJ	258D 99.5	0.062 203.0	48-48-04 122-27-40	21.9	178.85 0.00	0 TRANS
K205DO CP	CAPE GEORGE WA	BPFT-040330AAW	258D 99.5	0.005 687.0	48-00-58 122-55-32	22.9	85.05 0.00	0 TRANS
K258BJ CP	EVERETT WA	BNPFT-030828BBB	258D 99.5	0.015 190.0	48-01-28 122-06-40	49.5	123.34 0.00	0 TRANS
KCTK-LP CP	MOUNT VERNON WA	BNPL-010615ACI	258L1 99.5	0.100 -24.3	48-26-24 122-20-03	31.3	147.38 27.38	120 CLEAR
K259BG CP	CHEHALIS WA	BNPFT-030826AOB	259D 99.7	0.200 188.0	46-48-15 123-11-45	166.7	58.09 0.00	0 TRANS
DEL	ILWACO WA	RM-11124	259A 99.7	0.000 0.0	46-18-33 124-02-31	204.8	122.77 27.77	95 CLEAR
ADD	ILWACO WA	RM-10668	259A 99.7	0.000 0.0	46-18-33 124-02-31	204.8	122.77 27.77	95 CLEAR
ADD	LONG BEACH WA	RM-11124	259A 99.7	0.000 0.0	46-18-51 124-03-07	205.3	122.58 27.58	95 CLEAR

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SEARCH PARAMETERS FM Database Date: 200505

Channel: 257C 99.3 MHz Page 3

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Safety Zone: 32 km

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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K207DM	PORT ANGELES		260D	0.010 DA	48-04-10	356.1	84.33	0
CP	WA BPFT-041021ACZ		99.9	434.0	123-26-52		0.00	TRANS
KISW	SEATTLE		260C	58.000 DA	47-30-14	78.1	107.49	105
LIC	WA BLH-000204AAG		99.9	714.0	121-58-29	SS	2.49	CLOSE
KISWaux	SEATTLE		260C	50.000 DA	47-32-35	74.5	98.74	0
LIC	WA BXLH-001018ACN		99.9	388.0	122-06-25		0.00	AUX

44444 END OF FM SPACING STUDY FOR CHANNEL 257 44444





