May 2015
KNBQ(FM) Channel 253C2
Central Park, Washington
Allocation Study

Background

The instant application proposes a "one step" upgrade of KNBQ, from Channel 253C3 to Channel 253C2.

Channel 253C2 Allotment Site Spacing Study

The attached spacing study shows that the proposed allotment site (at the site of an existing tower) meets the domestic co-channel and adjacent channel spacing requirements for Class C2 stations as prescribed in §73.207 of the Commission's Rules. This site is located 11.8 kilometers from the far side of Central Park. The standard 70 dBu contour distance for a Class C2 station is 32.6 kilometers, and therefore this site would provide 70 dBu service to 100% of Central Park.

Channel 253C2 Transmitter Site Spacing Study

The attached spacing study shows that the proposed transmitter site meets the domestic co-channel and adjacent channel spacing requirements for Class C2 stations as prescribed in §73.207 of the Commission's Rules, with the exception of a short-spacing to the licensed operation of KPPK on Channel 252A at Rainier. Processing pursuant to §73.215 of the Commission's Rules is requested with respect to KPPK, and the attached allocation study map is included to demonstrate the lack of prohibited contour overlap with that station.

Channel 253C at Victoria, British Columbia: The proposed operation is short-spaced to Canadian station CFMS-FM on Channel 253C at Victoria, 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 C2 spacing is 274 kilometers, whereas the distance between the proposed KNBQ 253C2 site and the Victoria 253C site is 200 kilometers. The attached allocation study map demonstrates that the proposed 34 dBu F(50,10) contour will not overlap any Canadian land areas. Therefore, the proposed operation is believed to be in full compliance with domestic and international allotment requirements.

FMSTUDY.EXE Copyright 2013, Hatfield & Dawson, LLC Version 1.82

SEARCH PARAMETERS FM Database Date: 150514

Channel: 253C2 98.5 MHz

Latitude: 46 56 59

Longitude: 123 49 13

Safety Zone: 32 km

Job Title: CENTRAL PARK 253C2 ALLOT SITE

Call Status	City St FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K251BW CP	CENTRALIA WA BNPFT-30812ABK	251D 98.1	0.050 0.0	46-40-08 122-57-50	115.3	72.44 0.00	0 TRANS
KPPK LIC	RAINIER OR BLH-60802AFY	252A 98.3	1.600 195.0	46-10-59 122-57-29	142.0	107.86 1.86	106 CLOSE
CFMSFM	VICTORIA	253C	100.000	48-46-28	13.2	208.65	274
	BC -	98.5	185.0	123-10-10		-65.35	SHORT
KNBQ LIC	CENTRAL PARK WA BLH-50303AAS	253C3 98.5	1.200 421.0	46-54-06 123-25-07	99.8 SS	31.06 -145.94	177 SHORT
K253BW CP	UNION MILL WA BNPFT-30829AIA	253D 98.5	0.130 109.0	47-06-08 122-36-06	79.2	94.18 0.00	0 TRANS
KUPL LIC	PORTLAND OR BLH-10422AAN	254C1 98.7	25.000 502.0	45-30-58 122-43-59	151.9	180.08 22.08	158 CLEAR
KUPLaux LIC	PORTLAND OR BXLH-31107AAG	254C1 98.7	11.000 362.0	45-30-57 122-43-52	151.9	180.17 0.00	0 AUX
KUPLaux CP	PORTLAND OR BXPH-50116AED	254C1 98.7	6.000 346.0	45-29-20 122-41-40	151.5	184.15 0.00	0 AUX

==== END OF FM SPACING STUDY FOR CHANNEL 253 ====

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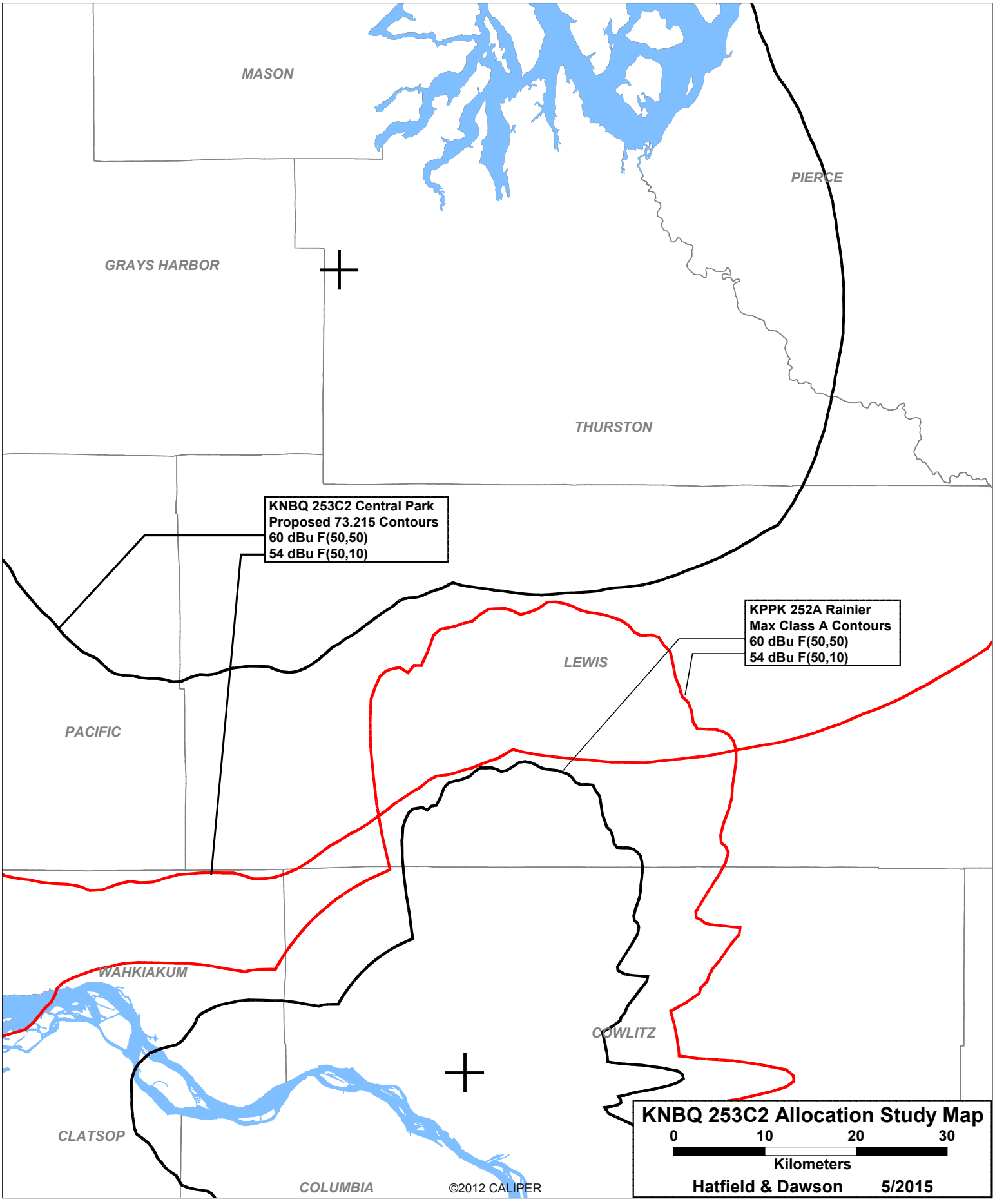
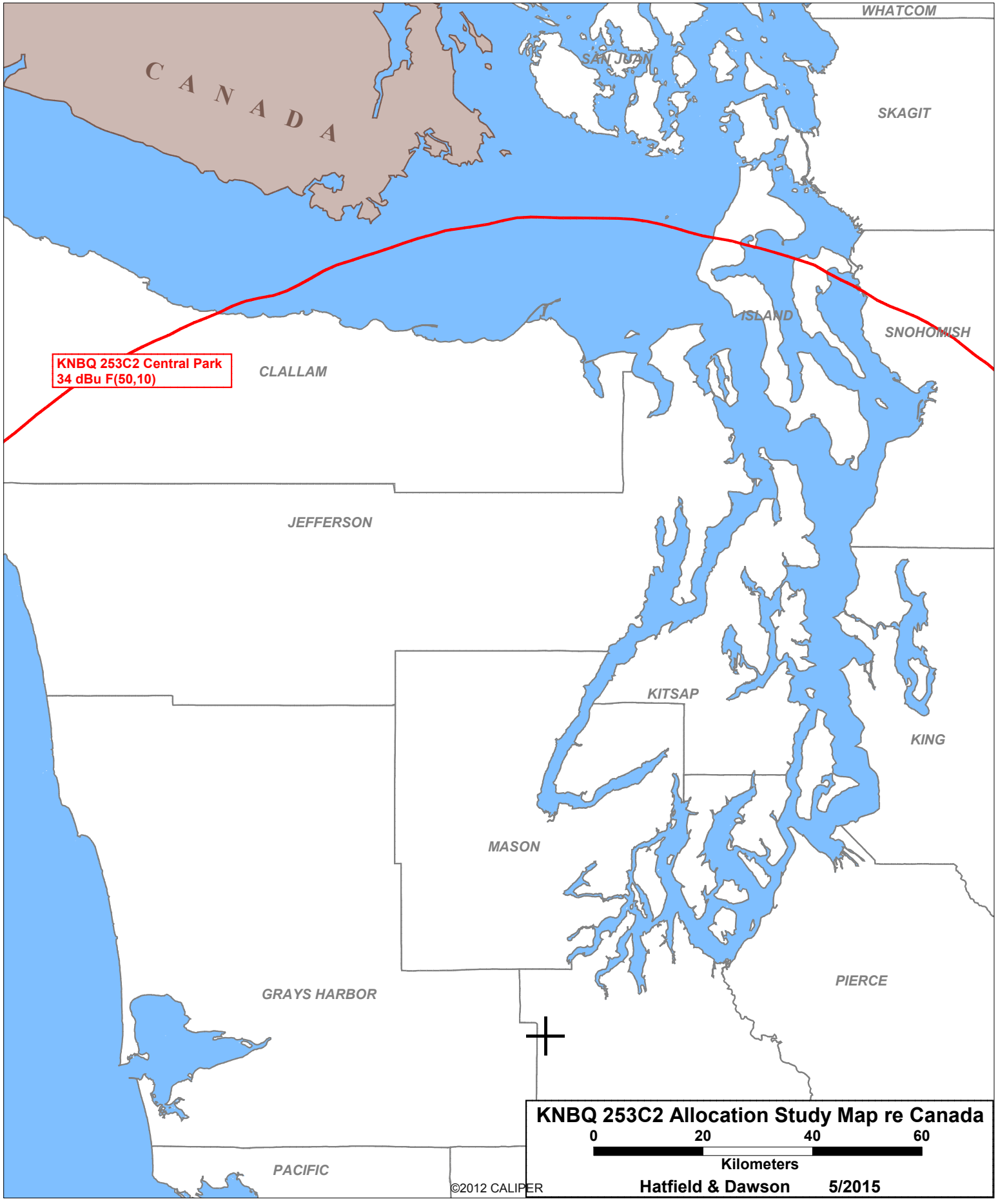
SEARCH PARAMETERS FM Database Date: 150514

Channel: 253C2 98.5 MHz
Latitude: 46 58 31
Longitude: 123 8 16
Safety Zone: 32 km
Job Title: KNBQ 253C2 TRANSMIT SITE

Call Status	City St FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
K251BW CP	CENTRALIA WA BNPFT-30812ABK	251D 98.1	0.050 0.0	46-40-08 122-57-50	158.7	36.55 0.00	0 TRANS
KING-FM LIC	SEATTLE WA BMLED-10502AEJ	251C 98.1	68.000 DA 707.0	47-30-14 121-58-29	55.8	105.87 0.87	105 CLOSE
KINGaux LIC	SEATTLE WA BXLH-20829ABH	251C 98.1	50.000 DA 388.0	47-32-35 122-06-25	50.6	100.36 0.00	0 AUX
KPPK LIC	RAINIER OR BLH-60802AFY	252A 98.3	1.600 195.0	46-10-59 122-57-29	171.1	89.14 -16.86	106 SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 89 KM							
CFMSFM	VICTORIA BC -	253C 98.5	100.000 185.0	48-46-28 123-10-10	359.3	200.06 -73.94	274 SHORT
KNBQ LIC	CENTRAL PARK WA BLH-50303AAS	253C3 98.5	1.200 421.0	46-54-06 123-25-07	249.1 SS	22.90 -154.10	177 SHORT
NEW CP	SEATTLE WA BNPL-31114ARO	253L1 98.5	0.010 93.0	47-31-14 122-21-27	43.9	84.64 0.00	0 LPFM
K253BW CP	UNION MILL WA BNPFT-30829AIA	253D 98.5	0.130 109.0	47-06-08 122-36-06	70.6	43.12 0.00	0 TRANS
KUPL LIC	PORTLAND OR BLH-10422AAN	254C1 98.7	25.000 502.0	45-30-58 122-43-59	169.0	165.17 7.17	158 CLOSE
KUPLaux LIC	PORTLAND OR BXLH-31107AAG	254C1 98.7	11.000 362.0	45-30-57 122-43-52	168.9	165.23 0.00	0 AUX
KUPLaux CP	PORTLAND OR BXPH-50116AED	254C1 98.7	6.000 346.0	45-29-20 122-41-40	168.2	168.72 0.00	0 AUX
KLCKaux LIC	SEATTLE WA BXMLH-21107AFL	255C 98.9	1.700 377.0	47-32-41 122-06-28	50.5	100.43 0.00	0 AUX
KLCK-FM LIC	SEATTLE WA BLH-60824AEB	255C 98.9	68.000 698.0	47-30-17 121-58-03	55.9	106.38 1.38	105 CLOSE
KLCKaux LIC	SEATTLE WA BLH-990803KF	255C 98.9	8.300 377.0	47-32-41 122-06-28	50.5	100.43 0.00	0 AUX

==== END OF FM SPACING STUDY FOR CHANNEL 253 ====


MASON
PIERCE
GRAYS HARBOR
THURSTON
KNBQ 253C2 Central Park
Proposed 73.215 Contours
60 dBu F(50,50)
54 dBu F(50,10)
KPPK 252A Rainier
Max Class A Contours
60 dBu F(50,50)
54 dBu F(50,10)
LEWIS
PACIFIC
WAHKIAKUM
COWLITZ
CLATSOP
COLUMBIA
©2012 CALIPER
KNBQ 253C2 Allocation Study Map
0 10 20 30
Kilometers
Hatfield & Dawson 5/2015


CANADA
WHATCOM
SAN JUAN
SKAGIT
ISLAND
SNOHOMISH
KNBQ 253C2 Central Park
34 dBu F(50,10)
CLALLAM
JEFFERSON
KITSAP
KING
MASON
PIERCE
GRAYS HARBOR
PACIFIC
KNBQ 253C2 Allocation Study Map re Canada
0
20
40
60
Kilometers
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