

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: BLCDT20100908ABY - Olympia Ch34 -> 18, FS Mask, KAT 4DR-4-2HW, 1xERP w-Cdn  
NoLPs, 2.0-1.0km, 05-11-18, Model: Longley-Rice  
Start: 2018.05.24 14:57:57

Study created: 2018.05.24 14:57:57

Study build station data: LMS TV LMS TV Data -- 5-11-2018

Proposal: KIRO-TV D18 LD LIC SEATTLE, WA  
File number: BLCDT20100908ABY - Olympia, FS Mask, KAT 4DR-2HW, 1xERP  
Facility ID: 66781  
Station data: User record  
Record ID: 352  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Non-U.S. records included

Individual records excluded:  
0000052230 KRUM-LD D18 LD APP \*P SEATTLE, WA BLANK0000052230  
0000052542 KUSE-LD D18 LD APP \*P SEATTLE, WA BLANK0000052542

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	110.3 km
No	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDTT20121012ACV	110.3
No	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	94.9
No	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	94.9
No	K44AV-D	D17	LD	APP	ROCKAWAY BEACH, OR	BLANK0000053705	161.7
Yes	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	52.4
No	K17IZ-D	D17	LD	LIC	EVERETT, WA	BLDTL20101201AEX	127.5
No	K17KI-D	D17	LD	CP	YAKIMA, WA	BNPDTL20100422ADD	173.5
No	KCDT	D18	DT	CP	COEUR D'ALENE, ID	BLANK0000034666	472.3
No	KOHD	D18	DT	LIC	BEND, OR	BLANK000002204	349.0
No	K42HK-D	D18	LD	APP	COTTAGE GROVE, OR	BLANK0000029344	360.0
No	KCKW-LD	D18	LD	CP	EUGENE, OR	BNPDTL20101001AAH	335.2
No	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	184.8
No	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	266.0
No	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	279.0
No	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	425.4
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	421.3
No	K18HH-D	D18	LD	LIC	THE DALLES, OR	BLDTT20120621ABT	200.2
No	K18AD-D	D18	LD	LIC	EAST WENATCHEE, ETC., WA	BLDTT20100831ABA	192.0
No	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	302.4
No	KEPR-TV	D18	DT	LIC	PASCO, WA	BLCDT20140717ABN	302.4
No	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	185.0
No	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDT20040128AKD	185.0
Yes	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	52.4
Yes	KCKA	D19	DT	LIC	CENTRALIA, WA	BLDTT20101217ABA	52.4
No	K19JX-D	D19	LD	LIC	YAKIMA, WA	BLDTL20141016ADC	190.7
No	K26DB-D	N26-	TX	LIC	ASTORIA, OR	BLTT19911016IG	110.4
No	CH4388	D17	DC	LIC	BECHER BAY, BC	BLANKCANLP30	156.6
No	CIVI-DT-2	D17	DT	LIC	VANCOUVER, BC	BLANKCANADA92	260.0
No	CHWM-TV-1	D18	DC	LIC	WHISTLER, BC	BLANKCANLP313	345.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18  
 Mask: Full Service  
 Latitude: 47 0 56.20 N (NAD83)  
 Longitude: 122 55 3.50 W  
 Height AMSL: 168.0 m  
 HAAT: 0.0 m  
 Peak ERP: 0.500 kW  
 Antenna: KAT 4DR-4-2HW 45.0 deg  
 Elev Pattn: Generic

49.1 dBU contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.451 kW	160.3 m	31.6 km
45.0	0.500	117.5	29.3
90.0	0.451	108.4	27.9
135.0	0.253	80.3	21.7
180.0	0.000	100.6	4.1
225.0	0.000	105.2	4.1
270.0	0.000	-91.7	2.3
315.0	0.253	130.7	26.7

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m Computed HAAT: 89 m

Proposal 24.15 dBU contour does not cross Canadian border  
 Distance to Canadian border: 142.3 km

Distance to Mexican border: 1668.6 km

Conditions at FCC monitoring station: Ferndale WA  
 Bearing: 7.0 degrees Distance: 217.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 111.9 degrees Distance: 1608.7 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 2.00 km  
 Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
 Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000053452 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	CP	SEATTLE, WA	BLANK0000027889	130.9
	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	271.1
	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	46.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6783.4	330,482	5415.2	254,560	5362.8	248,775	5358.8 243,851	0.07 1.98
Undesired	Total IX		Unique IX, before		Unique IX, after		

KIRO-TV D18 LD LIC	4.0	4,924			4.0	4,924
KORS-CD D16 DC LIC	4.0	689	0.0	0	0.0	0
K17HA-D D17 LD LIC	4.0	0	4.0	0	4.0	0
K17GV-D D17 LD LIC	48.4	5,785	44.3	5,096	44.3	5,096

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Interference to BLANK0000053452 APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	CP	SEATTLE, WA	BLANK0000027889	130.9
	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	271.1
	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	46.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6783.4	330,482	5415.2	254,560	5370.9	249,509	5366.9 244,585	0.07 1.97

Undesired		Total IX	Unique IX, before	Unique IX, after
KIRO-TV D18 LD LIC	4.0	4,924		4.0 4,924
KORS-CD D16 DC LIC	4.0	689	0.0 0	0.0 0
K17HA-D D17 LD LIC	4.0	0	4.0 0	4.0 0
K17GV-D N17- TX LIC	40.3	5,051	36.2 4,362	36.2 4,362

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Interference to BLANK0000053452 APP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	APP	SEATTLE, WA	BLANK0000034504	130.9
	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	271.1
	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	46.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6783.4	330,482	5415.2	254,560	5358.8	248,775	5354.8 243,851	0.07 1.98

Undesired		Total IX	Unique IX, before	Unique IX, after
KIRO-TV D18 LD LIC	4.0	4,924		4.0 4,924
KORS-CD D16 DC LIC	4.0	689	0.0 0	0.0 0
KFFV D16 DT APP	4.0	0	4.0 0	4.0 0
K17HA-D D17 LD LIC	4.0	0	4.0 0	4.0 0
K17GV-D D17 LD LIC	48.4	5,785	44.3 5,096	44.3 5,096

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Interference to BLANK0000053452 APP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	APP	SEATTLE, WA	BLANK0000034504	130.9
	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDT20030618AAY	271.1
	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	46.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6783.4	330,482	5415.2	254,560	5366.9	249,509	5362.9 244,585	0.07 1.97

Undesired		Total IX	Unique IX, before		Unique IX, after	
KIRO-TV D18 LD LIC	4.0	4,924			4.0	4,924
KORS-CD D16 DC LIC	4.0	689	0.0	0	0.0	0
KFFV D16 DT APP	4.0	0	4.0	0	4.0	0
K17HA-D D17 LD LIC	4.0	0	4.0	0	4.0	0
K17GV-D N17- TX LIC	40.3	5,051	36.2	4,362	36.2	4,362

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Interference to BLANK0000053452 APP scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	CP	SEATTLE, WA	BLANK0000027889	130.9
	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDDT20121012ACV	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDDT20030618AAY	271.1
	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	46.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	6783.4	330,482	5415.2	254,560	5362.8	248,775	0.07 1.98
Undesired		Total IX	Unique IX, before		Unique IX, after		
KIRO-TV D18 LD LIC	4.0	4,924			4.0	4,924	
KORS-CD D16 DC LIC	4.0	689	0.0	0	0.0	0	
K17HA-D D17 LD APP	4.0	0	4.0	0	4.0	0	
K17GV-D D17 LD LIC	48.4	5,785	44.3	5,096	44.3	5,096	

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Interference to BLANK0000053452 APP scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	CP	SEATTLE, WA	BLANK0000027889	130.9
	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDDT20121012ACV	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDDT20030618AAY	271.1
	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	46.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	6783.4	330,482	5415.2	254,560	5370.9	249,509	0.07 1.97
Undesired		Total IX	Unique IX, before		Unique IX, after		
KIRO-TV D18 LD LIC	4.0	4,924			4.0	4,924	
KORS-CD D16 DC LIC	4.0	689	0.0	0	0.0	0	
K17HA-D D17 LD APP	4.0	0	4.0	0	4.0	0	
K17GV-D N17- TX LIC	40.3	5,051	36.2	4,362	36.2	4,362	

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Interference to BLANK0000053452 APP scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	APP	SEATTLE, WA	BLANK0000034504	130.9
	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDDT20121012ACV	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDDT20030618AAY	271.1
	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	46.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	6783.4	330,482	5415.2	254,560	5358.8	243,851	0.07 1.98

Undesired		Total IX	Unique IX, before	Unique IX, after
KIRO-TV D18 LD LIC	4.0	4,924		4.0 4,924
KORS-CD D16 DC LIC	4.0	689	0.0 0	0.0 0
KFFV D16 DT APP	4.0	0	4.0 0	4.0 0
K17HA-D D17 LD APP	4.0	0	4.0 0	4.0 0
K17GV-D D17 LD LIC	48.4	5,785	44.3 5,096	44.3 5,096

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Interference to BLANK0000053452 APP scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLDTA20100517ABN	117.2
	KFFV	D16	DT	APP	SEATTLE, WA	BLANK0000034504	130.9
	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDTT20121012ACV	70.8
	KMTR	D17	DT	LIC	EUGENE, OR	BLCDDT20030618AAY	271.1
	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	46.3
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX	
6783.4 330,482		5415.2 254,560		5366.9 249,509	5362.9 244,585	0.07 1.97	

Undesired		Total IX	Unique IX, before	Unique IX, after
KIRO-TV D18 LD LIC	4.0	4,924		4.0 4,924
KORS-CD D16 DC LIC	4.0	689	0.0 0	0.0 0
KFFV D16 DT APP	4.0	0	4.0 0	4.0 0
K17HA-D D17 LD APP	4.0	0	4.0 0	4.0 0
K17GV-D N17- TX LIC	40.3	5,051	36.2 4,362	36.2 4,362

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Interference to BLANK0000035737 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX	
25649.5 1,201,287		19640.9 1,012,148		18793.5 807,199	18769.2 805,360	0.13 0.23	
Undesired		Total IX	Unique IX, before	Unique IX, after			
KIRO-TV D18 LD LIC	32.4	2,515		24.3 1,839			
KBCB D19 DT APP	767.8	199,221	763.8 199,221	755.7 198,545			
KOXI-CD D20 DC LIC	83.7	5,728	79.6 5,728	79.6 5,728			

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Interference to BLANK0000035737 APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDDT20040128AKD	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX	
25649.5 1,201,287		19640.9 1,012,148		18873.5 844,443	18849.3 842,604	0.13 0.22	
Undesired		Total IX	Unique IX, before	Unique IX, after			
KIRO-TV D18 LD LIC	32.4	2,515		24.3 1,839			
KBCB D19 DT LIC	687.8	161,977	683.7 161,977	675.6 161,301			
KOXI-CD D20 DC LIC	83.7	5,728	79.6 5,728	79.6 5,728			

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Interference to BLEDT20101217ABA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCKA	D19	DT	LIC	CENTRALIA, WA	BLEDT20101217ABA	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area	23058.1	953,680	Terrain-limited	17452.0	804,362	IX-free, before	16796.6 658,254
						IX-free, after	16776.3 657,430
						Percent New IX	0.12 0.13
Undesired				Total IX	Unique IX, before	Unique IX, after	
KIRO-TV D18 LD LIC		20.2		824		20.2 824	
KBCB D19 DT APP		623.6		144,632	623.6 144,632	623.6 144,632	
KOXI-CD D20 DC LIC		31.8		1,476	31.8 1,476	31.8 1,476	

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Interference to BLEDT20101217ABA LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCKA	D19	DT	LIC	CENTRALIA, WA	BLEDT20101217ABA	
Undesireds:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	52.4 km
	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDDT20040128AKD	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area	23058.1	953,680	Terrain-limited	17452.0	804,362	IX-free, before	16844.9 677,704
						IX-free, after	16824.7 676,880
						Percent New IX	0.12 0.12
Undesired				Total IX	Unique IX, before	Unique IX, after	
KIRO-TV D18 LD LIC		20.2		824		20.2 824	
KBCB D19 DT LIC		575.3		125,182	575.3 125,182	575.3 125,182	
KOXI-CD D20 DC LIC		31.8		1,476	31.8 1,476	31.8 1,476	

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	
Undesireds:	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	94.9 km
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	52.4
	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	302.4
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	52.4
Service area	1449.6	250,753	Terrain-limited	1393.4	243,358	IX-free	243,147
						Percent IX	0.29 0.09
Undesired				Total IX	Unique IX	Prcnt Unique IX	
K42CM-D D17 LD APP		4.0		211	0.0 0	0.00 0.00	
KCKA D19 DT APP		4.0		211	0.0 0	0.00 0.00	

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Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KIRO-TV	D18	LD	LIC	SEATTLE, WA	BLCDDT20100908ABY - Oly	
Undesireds:	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	94.9 km
	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	52.4
	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	302.4
	KCKA	D19	DT	LIC	CENTRALIA, WA	BLEDT20101217ABA	52.4

Service area		Terrain-limited			IX-free		Percent IX
1449.6	250,753	1393.4	243,358	1389.4	243,147	0.29	0.09
Undesired			Total IX		Unique IX	Prcnt Unique IX	
K42CM-D D17 LD APP		4.0	211	0.0	0	0.00	0.00
KCKA D19 DT LIC		4.0	211	0.0	0	0.00	0.00