

Minor Change Expanded Technical Facility Application

This application is filed in response to the Media Bureau temporarily lifting the freeze imposed on April 5, 2013 on the filing and processing of minor modification applications that would increase a full power television station's noise-limited contour or a Class A station's protected contour in one or more directions beyond the station's authorized facilities.¹ The instant proposal, a minor change under the Commission's rules, expands the present technical facility of a television station that was not assigned a new channel in connection with the incentive auction repack process.

Post-Transition DTV Allocation Considerations

A study was performed using the FCC's software program, *tvstudy*, v.2.2.4, to ensure that the technical facility proposed herein protects the facilities proposed in the first and second priority filing window, whether those stations' applications have been granted or remain pending while protecting the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day filing window, whether those stations' applications have been granted or remain pending. Further, the instant proposal protects the facilities specified in applications filed before the April 2013 freeze with "cut-off" protection.

As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any of the

¹ See *Media Bureau Temporarily Lifts the Freeze On The Filing Of Minor Modification Applications That Expand The Contour Of Full Power And Class A Television Stations*, Public Notice, DA 17-1086, Released November 6, 2017.

relevant protections discussed above. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.

tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: KEPR 18 OMNI Top 150KW, Model: Longley-Rice
Start: 2017.11.22 20:20:28

Study created: 2017.11.22 20:20:27

Study build station data: LMS TV 2017-11-22 (39)

Proposal: KEPR-TV D18 DT APP PASCO, WA
File number: KEPR 18 OMNI Top 150KW
Facility ID: 56029
Station data: User record
Record ID: 2415
Country: U.S.
Zone: II

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KVBI-CD	D17	DC	CP	CLARKSTON, WA	BLANK0000027523	169.4 km
No	KVBI-CD	D17	DC	APP	CLARKSTON, WA	BLANK0000032111	169.4
No	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	356.4
Yes	KCDT	D18	DT	CP	COEUR D'ALENE, ID	BLANK0000026394	260.6
Yes	KCDT	D18	DT	APP	COEUR D'ALENE, ID	BLANK0000034666	260.6
Yes	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	280.4
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	455.7

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
Latitude: 46 5 50.00 N (NAD83)
Longitude: 119 11 33.00 W
Height AMSL: 721.2 m
HAAT: 367.0 m
Peak ERP: 150 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	150 kW	491.4 m	99.8 km
45.0	150	511.6	101.5
90.0	150	283.3	81.8
135.0	150	291.8	82.9
180.0	150	393.0	92.9
225.0	150	365.8	91.0
270.0	150	183.1	73.6
315.0	150	392.0	92.9

Database HAAT does not agree with computed HAAT
Database HAAT: 367 m Computed HAAT: 364 m

Distance to Canadian border: 322.7 km

Distance to Mexican border: 1508.6 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 322.8 degrees Distance: 405.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 115.4 degrees Distance: 1306.9 km

No land mobile station failures found

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%

Interference to BLANK0000026394 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCDT	D18	DT	CP	COEUR D'ALENE, ID	BLANK0000026394	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	260.6 km
	KEPR-TV	D18	DT	APP	PASCO, WA	KEPR 18 OMNI Top 150KW	260.6
	KVBI-CD	D17	DC	CP	CLARKSTON, WA	BLANK0000027523	144.3
	KAJJ-CD	D18	DC	CP	KALISPELL, MT	BLANK0000028586	179.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19361.0	694,376	14029.2	650,026	13462.5	647,016	13269.6 645,799	1.43 0.19
Undesired		Total IX		Unique IX, before		Unique IX, after	
KEPR-TV D18 DT BL		554.8	3,010	462.2	2,788		
KEPR-TV D18 DT APP		747.6	4,227			655.1 4,005	
KAJJ-CD D18 DC CP		104.6	222	12.0	0	12.0 0	

Interference to BLANK0000034666 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCDT	D18	DT	APP	COEUR D'ALENE, ID	BLANK0000034666	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	260.6 km
	KEPR-TV	D18	DT	APP	PASCO, WA	KEPR 18 OMNI Top 150KW	260.6
	KVBI-CD	D17	DC	CP	CLARKSTON, WA	BLANK0000027523	144.3
	KAJJ-CD	D18	DC	CP	KALISPELL, MT	BLANK0000028586	179.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
21022.9	698,268	15707.3	657,116	15164.7	654,885	14847.4 653,000	2.09 0.29
Undesired		Total IX		Unique IX, before		Unique IX, after	
KEPR-TV D18 DT BL		518.5	2,220	446.0	2,056		
KEPR-TV D18 DT APP		835.8	4,105			763.3 3,941	
KAJJ-CD D18 DC CP		96.6	175	24.1	11	24.1 11	

Interference to BLANK0000002204 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	280.4 km
	KEPR-TV	D18	DT	APP	PASCO, WA	KEPR 18 OMNI Top 150KW	280.4
	KABH-CD	D17	DC	LIC	BEND, OR	BLDTA20131029ABN	0.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
14887.3	201,310	11903.1	197,662	11739.3	195,936	11636.0 195,119	0.88 0.42
Undesired		Total IX		Unique IX, before		Unique IX, after	
KEPR-TV D18 DT BL		39.8	0	39.8	0		
KEPR-TV D18 DT APP		147.1	817			143.1 817	
KABH-CD D17 DC LIC		124.0	1,726	124.0	1,726	120.1 1,726	

Interference to proposal scenario 1

Desired:	Call KEPR-TV	Chan D18	Svc DT	Status APP	City, State PASCO, WA	File Number KEPR 18 OMNI Top 150KW	Distance
Undesireds:	KVBI-CD	D17	DC	CP	CLARKSTON, WA	BLANK0000027523	169.4 km
	KCDT	D18	DT	CP	COEUR D'ALENE, ID	BLANK0000026394	260.6
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000022204	280.4

	Service area		Terrain-limited		IX-free		Percent IX
25402.1	474,487	24330.2	462,192	24290.2	462,186	0.16	0.00

Undesired			Total IX		Unique IX		Prcnt Unique IX
KCDT D18 DT CP		36.0	0	36.0	0	0.15	0.00
KOHD D18 DT LIC		4.0	6	4.0	6	0.02	0.00

Interference to proposal scenario 2

Desired:	Call KEPR-TV	Chan D18	Svc DT	Status APP	City, State PASCO, WA	File Number KEPR 18 OMNI Top 150KW	Distance
Undesireds:	KVBI-CD	D17	DC	CP	CLARKSTON, WA	BLANK0000027523	169.4 km
	KCDT	D18	DT	APP	COEUR D'ALENE, ID	BLANK0000034666	260.6
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000022204	280.4

	Service area		Terrain-limited		IX-free		Percent IX
25402.1	474,487	24330.2	462,192	24282.1	462,186	0.20	0.00

Undesired			Total IX		Unique IX		Prcnt Unique IX
KCDT D18 DT APP		44.0	0	44.0	0	0.18	0.00
KOHD D18 DT LIC		4.0	6	4.0	6	0.02	0.00