

### 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.<sup>1</sup> 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

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<sup>1</sup> 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: KVIH-12 OMNI 160KW 171125, Model: Longley-Rice  
Start: 2017.11.25 15:44:36

Study created: 2017.11.25 15:44:36

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

Proposal: KVIH-TV D12 DT APP CLOVIS, NM  
File number: KVIH-12 OMNI 160KW 171125  
Facility ID: 40450  
Station data: User record  
Record ID: 2504  
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
Yes	KCBD	D11	DT	LIC	LUBBOCK, TX	BLANK0000010766	151.5 km

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D12  
Latitude: 34 11 34.00 N (NAD83)  
Longitude: 103 16 46.00 W  
Height AMSL: 1436.0 m  
HAAT: 204.0 m  
Peak ERP: 160 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.75

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	160 kW	179.7 m	106.0 km
45.0	160	193.5	107.5
90.0	160	209.2	109.1
135.0	160	232.5	111.0
180.0	160	208.8	109.0
225.0	160	203.2	108.5
270.0	160	208.0	109.0
315.0	160	192.1	107.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 204 m Computed HAAT: 203 m

ERP exceeds maximum  
ERP: 160 kW ERP maximum: 160 kW

Distance to Canadian border: 1645.8 km

Distance to Mexican border: 398.0 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 245.1 degrees Distance: 666.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 345.9 degrees Distance: 680.7 km

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 BLANK0000010766 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCBD	D11	DT	LIC	LUBBOCK, TX	BLANK0000010766	
Undesireds:	KVIH-TV	D12	DT	BL	CLOVIS, NM	DTVBL40450	151.5 km
	KVIH-TV	D12	DT	APP	CLOVIS, NM	KVIH-12 OMNI 160KW 171	151.5
	KBIM-TV	D10	DT	LIC	ROSWELL, NM	BLCDT20090622ABH	192.0
	KSWO-TV	D11	DT	LIC	LAWTON, OK	BLANK0000005143	297.1
	KLST	D11	DT	LIC	SAN ANGELO, TX	BLCDT20090316ABJ	294.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
31303.9	414,804	29924.8	414,091	28456.7	412,831	28448.6 412,823	0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KVIH-TV D12 DT BL		0.0		0	0.0		
KVIH-TV D12 DT APP		8.0		8		8.0 8	
KSWO-TV D11 DT LIC		1227.5		1,125	999.4 1,008	999.4 1,008	
KLST D11 DT LIC		468.8		252	240.7 135	240.7 135	

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 Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVIH-TV	D12	DT	APP	CLOVIS, NM	KVIH-12 OMNI 160KW 171	
Undesireds:	KCBD	D11	DT	LIC	LUBBOCK, TX	BLANK0000010766	151.5 km
	Service area		Terrain-limited		IX-free	Percent IX	
36970.6	144,902	33303.5	122,956	33199.0	122,450	0.31 0.41	
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KCBD D11 DT LIC		104.5		506	104.5 506	0.31 0.41	