

## DTV Allocation Considerations

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A study was performed using the FCC's software program, *tvstudy*, v.2.2.5, to ensure that the technical facility proposed herein does not cause interference to other stations above the allowable *de minimis* limits. 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 relevant protections. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WPVI 6 - 45 kW 409C, Model: Longley-Rice  
Start: 2023.05.05 15:03:35

Study created: 2023.05.05 15:03:35

Study build station data: LMS TV 2023-05-04

Proposal: WPVI-TV D6 DT AMD PHILADELPHIA, PA  
File number: WPVI 6 - 45 kW 409C  
Facility ID: 8616  
Station data: User record  
Record ID: 115  
Country: U.S.  
Zone: I

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

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	WMDE	D5	DT	LIC	DOVER, DE	BLANK0000001038	141.4 km
Yes	WKBS-TV	D6	DT	LIC	ALTOONA, PA	BLANK0000084211	277.4

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:  
WNWR 1540 L DA2 D PHILADELPHIA, PA BMML20171220ACU  
WNWR 1540 L DA2 N PHILADELPHIA, PA BMML20171220ACU

Record parameters as studied:

Channel: D6  
Latitude: 40 2 39.00 N (NAD83)  
Longitude: 75 14 25.00 W  
Height AMSL: 408.8 m  
HAAT: 342.0 m  
Peak ERP: 45.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.00

28.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	45.0 kW	336.4 m	125.0 km
45.0	45.0	305.5	123.0
90.0	45.0	355.4	126.0
135.0	45.0	387.1	128.4
180.0	45.0	366.0	126.7
225.0	45.0	317.4	123.9
270.0	45.0	287.4	121.5
315.0	45.0	359.1	126.2

Database HAAT does not agree with computed HAAT  
Database HAAT: 342 m Computed HAAT: 339 m

ERP exceeds maximum  
ERP: 45.0 kW ERP maximum: 7.00 kW

Distance to Canadian border: 419.0 km

Distance to Mexican border: 2543.4 km

Conditions at FCC monitoring station: Laurel MD  
Bearing: 234.7 degrees Distance: 166.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 280.1 degrees Distance: 2537.2 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 BLANK0000001038 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WMDE	D5	DT	LIC	DOVER, DE	BLANK0000001038			
Undesireds:	WPVI-TV	D6	DT	BL	PHILADELPHIA, PA	DTVBL8616	141.2 km		
	WPVI-TV	D6	DT	AMD	PHILADELPHIA, PA	WPVI 6 - 45 kW 409C	141.4		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
26329.9 6,384,827		26169.8 6,257,910		25836.9 6,155,573		25761.4 6,144,276	0.29 0.18		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WPVI-TV D6 DT BL				332.9	102,337	332.9 102,337			
WPVI-TV D6 DT AMD				408.4	113,634	408.4 113,634			

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 Interference to BLANK0000084211 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WKBS-TV	D6	DT	LIC	ALTOONA, PA	BLANK0000084211			
Undesireds:	WPVI-TV	D6	DT	BL	PHILADELPHIA, PA	DTVBL8616	277.3 km		
	WPVI-TV	D6	DT	AMD	PHILADELPHIA, PA	WPVI 6 - 45 kW 409C	277.4		
	WOUC-TV	D6	DT	LIC	CAMBRIDGE, OH	BLANK0000068363	247.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
28480.4 1,082,894		25674.5 937,847		24833.8 905,186		24745.4 905,211	0.36 -0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WPVI-TV D6 DT BL				627.7	28,885	627.7 28,885			
WPVI-TV D6 DT AMD				716.1	28,860	716.1 28,860			
WOUC-TV D6 DT LIC				213.0	3,776	213.0 3,776			

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 Interference to proposal scenario 1  
 0.97% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WPVI-TV	D6	DT	AMD	PHILADELPHIA, PA	WPVI 6 - 45 kW 409C			
Undesireds:	WMDE	D5	DT	LIC	DOVER, DE	BLANK0000001038	141.4 km		
	WKBS-TV	D6	DT	LIC	ALTOONA, PA	BLANK0000084211	277.4		
Service area		Terrain-limited		IX-free		Percent IX			
49168.0 15,027,232		47845.2 14,665,300		46959.7 14,523,489		1.85 0.97			
Undesired				Total IX	Unique IX	Prct Unique IX			
WMDE D5 DT LIC				171.5	14,997	163.6 6,060	0.34 0.04		
WKBS-TV D6 DT LIC				721.9	135,751	714.0 126,814	1.49 0.86		