tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: eriepa24d4kwinccla1469at140f, Model: Longley-Rice
Start: 2021.09.13 17:03:38

Study created: 2021.09.13 17:03:38

Study build station data: LMS TV 2021-09-13

    Proposal: W24EU-D D24 LD CP ERIE, PA
 Facility ID: 129632
Station data: User record
   Record ID: 1050
     Country: U.S.

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WBXZ-LD	D23	LD	LIC	BUFFALO, NY	BLANK0000116112	129.5 km
No	WETM-TV	D23	DT	LIC	ELMIRA, NY	BLANK0000129877	258.5
No	KONV-LD	D23	LD	LIC	CANTON, OH	BLANK0000079956	153.2
Yes	K23PO-D	D23	LD	CP	ERIE, PA	BNPDTL20090825BRL	5.5
No	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	178.0
No	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLANK0000068624	443.6
No	WPTA	D24	DT	CP	FORT WAYNE, IN	BLANK0000127490	443.6
No	WPXD-TV	D24	DT	LIC	ANN ARBOR, MI	BLANK0000108759	275.9
No	WPXJ-TV	D24	DT	LIC	BATAVIA, NY	BLANK0000106047	149.9
No	WONO-CD	D24	DC	LIC	SYRACUSE, ETC., NY	BLANK0000116745	333.1
No	WVNC-LD	D24	LD	LIC	WATERTOWN, NY	BLANK0000095818	401.5
No	WEAO	D24	DT	LIC	AKRON, OH	BLANK0000095195	173.9
No	WDEM-CD	D24	DC	LIC	COLUMBUS, OH	BLANK0000071611	346.2
No	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	211.5
No	W24DB-D	D24z	DC	LIC	CLARKS SUMMIT, PA	BLANK0000004543	361.4
No	WPXI	D24	LD	LIC	PITTSBURGH, PA	BLANK0000106625	247.4
No	WPDN-LD	D24	LD	LIC	PITTSBURGH, PA	BLDTL20110601ADS	179.9
No	WHSV-TV	D24	LD	LIC	Massanutten, VA	BLANK0000122198	372.9

No	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000138193	426.2
No	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000087458	437.2
No	W24ER-D	D24	LD	LIC	CLARKSBURG, WV	BLANK0000058555	310.9
No	W24ES-D	D24	LD	LIC	MOOREFIELD, WV	BLANK0000081242	354.9
No	W24DS-D	D24	LD	LIC	PARKERSBURG, WV	BLDTL20140527AHY	321.6
No	WXYZ-TV	D25	DT	LIC	DETROIT, MI	BLANK0000126705	270.7
No	WSKA	D25	DT	LIC	CORNING, NY	BLANK0000080258	241.6
No	WUEK-LD	D25	LD	LIC	CANTON, OH	BLANK0000067575	153.2
No	WWBP-LP	N25-	TX	LIC	FREEDOM, PA	BLTTL19990124JD	153.8
No	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	174.6
No	WWBP-LP	N31+	TX	LIC	FREEDOM, PA	BLTTL20040909ABD	153.8

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WRIE 1260 L DA2 D ERIE, PA BL13412
WRIE 1260 L DA2 N ERIE, PA BL13412

Record parameters as studied:

```
    Channel: D24
       Mask: Stringent
   Latitude:  42  3 52.00 N (NAD83)
  Longitude:  80  0 18.40 W
Height AMSL: 431.1 m
       HAAT: 0.0 m
   Peak ERP: 4.00 kW
    Antenna: KAT-CL-1469B (ID 1007708) 140.0 deg
Elev Pattrn: Generic
```

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	202.9 m	6.5 km
45.0	0.000	45.7	3.2
90.0	0.030	14.7	7.5
135.0	3.79	7.4	24.3
180.0	0.521	39.7	17.5
225.0	0.000	32.5	2.7

270.0 0.000 145.5 5.6
315.0 0.000 213.1 6.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 88 m

Proposal 24.76 dBu contour does not cross Canadian border
Distance to Canadian border: 37.1 km

Distance to Mexican border: 2346.2 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 66.3 degrees Distance: 243.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 272.7 degrees Distance: 2115.1 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BNPDTL20090825BRL CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K23PO-D	D23	LD	CP	ERIE, PA	BNPDTL20090825BRL	
Undesireds:	W24EU-D	D24	LD	CP	ERIE, PA		5.5 km
	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	317.5
	KONV-LD	D23	LD	LIC	CANTON, OH	BLANK0000079956	147.7
	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	175.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1756.6	229,497	1703.8	227,673	1699.9	227,254	1698.9	227,254	0.06	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
W24EU-D D24 LD CP	2.0	274			1.0	0
KONV-LD D23 LD LIC	1.0	55	1.0	55	1.0	55
WPXI D23 DT LIC	3.0	364	3.0	364	2.0	90

Interference to proposal scenario 1
4.24% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W24EU-D	D24	LD	CP	ERIE, PA		
Undesireds:	WPXJ-TV	D24	DT	LIC	BATAVIA, NY	BLANK0000106047	149.9 km
	WEAO	D24	DT	LIC	AKRON, OH	BLANK0000095195	173.9
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	211.5

Service area		Terrain-limited		IX-free		Percent IX	
469.0	47,400	461.0	45,823	455.0	43,880	1.30	4.24

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WPXJ-TV D24 DT LIC	5.0	1,943	4.0	1,720	0.86	3.75
WEAO D24 DT LIC	1.0	223	0.0	0	0.00	0.00
WTAJ-TV D24 DT LIC	1.0	0	1.0	0	0.22	0.00