tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: 01956_01162023_WWDP_23671, Model: Longley-Rice
Start: 2023.01.16 12:59:59

Study created: 2023.01.16 12:59:59

Study build station data: LMS TV 2022-12-26

    Proposal: WWDP D36 DT AMD NORWELL, MA
 File number: BLANK0000193261
 Facility ID: 23671
Station data: LMS TV 2022-12-26
   Record ID: 25076f91835cf835018366c7024a0983
     Country: U.S.
        Zone: I

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	WHDH	D35	DT	LIC	BOSTON, MA	BLANK0000088833	1.7 km
No	WRGB	D35	DT	LIC	SCHENECTADY, NY	BLANK0000185806	230.1
Yes	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	142.5
Yes	WMEA-TV	D36	DT	LIC	BIDDEFORD, ME	BLANK0000108722	127.9
No	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	462.2
Yes	WCBS-TV	D36	DT	LIC	NEW YORK, NY	BLANK0000086487	291.4
No	WCFE-TV	D36	DT	LIC	PLATTSBURGH, NY	BLANK0000151172	340.2
No	WSPX-TV	D36	DT	LIC	SYRACUSE, NY	BLANK0000081964	397.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D36
   Latitude: 42 18 37.00 N (NAD83)
  Longitude: 71 14 12.00 W
Height AMSL: 362.0 m
       HAAT: 318.4 m
   Peak ERP: 1000 kW
    Antenna: Alive Telecom-ATC-BCC830CF-V6-36 (ID 1009660) 160.0 deg

Elev Pattrn: Alive Telecom-ATC-BCC830CF-V6-36
  Elec Tilt: 2.00

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.60 kW	316.2 m	59.4 km
45.0	10.5	344.4	68.8
90.0	167	324.7	84.7
135.0	793	322.0	97.5
180.0	882	305.3	96.6
225.0	214	310.2	84.9
270.0	10.2	310.3	66.5
315.0	1.33	313.8	55.7

Proposal 25.86 dBu contour does not cross Canadian border
Distance to Canadian border: 301.2 km

Distance to Mexican border: 2959.8 km

Conditions at FCC monitoring station: Belfast ME
Bearing: 35.5 degrees   Distance: 294.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 276.7 degrees   Distance: 2832.3 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%

Interference to BLANK0000159868 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	
Undesireds:	WWDP	D36	DT	AMD	NORWELL, MA	BLANK0000193261	142.5 km
	WHDH	D35	DT	LIC	BOSTON, MA	BLANK0000088833	144.1
	WNJU	D35	DT	LIC	LINDEN, NJ	BLANK0000079780	155.3
	WRGB	D35	DT	LIC	SCHENECTADY, NY	BLANK0000185806	137.0

	WMEA-TV	D36	DT	LIC	BIDDEFORD, ME	BLANK0000108722	245.1
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	338.0
	WCBS-TV	D36	DT	LIC	NEW YORK, NY	BLANK0000086487	155.3
	WITF-TV	D36	DT	CP	HARRISBURG, PA	BLANK0000035782	375.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26990.6	4,752,788	24251.4	4,370,519	19705.7	3,589,297	19557.2	3,572,569	0.75	0.47

Undesired		Total IX		Unique IX, before		Unique IX, after	
WWDP D36 DT AMD	518.0	81,001				148.5	16,728
WHDH D35 DT LIC	140.1	29,794		28.0	6,293	4.0	1,048
WNJU D35 DT LIC	314.6	151,585		0.0	0	0.0	0
WRGB D35 DT LIC	84.0	1,115		39.9	524	39.9	524
WMEA-TV D36 DT LIC	44.1	3,027		8.0	410	0.0	0
WMGM-TV D36 DT LIC	24.3	12,167		0.0	0	0.0	0
WCBS-TV D36 DT LIC	4465.8	773,909		3982.9	588,035	3793.9	572,984

Interference to BLANK0000108722 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMEA-TV	D36	DT	LIC	BIDDEFORD, ME	BLANK0000108722	
Undesireds:	WWDP	D36	DT	AMD	NORWELL, MA	BLANK0000193261	127.9 km
	WHDH	D35	DT	LIC	BOSTON, MA	BLANK0000088833	127.4
	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	245.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14916.3	902,755	13895.8	853,857	13732.7	844,203	13720.7	842,646	0.09	0.18

Undesired		Total IX		Unique IX, before		Unique IX, after	
WWDP D36 DT AMD	31.9	3,187				12.0	1,557
WHDH D35 DT LIC	12.0	3,093		8.0	2,372	4.0	1,744
WFSB D36 DT LIC	155.1	7,282		151.1	6,561	139.2	6,280

Interference to BLANK0000086487 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBS-TV	D36	DT	LIC	NEW YORK, NY	BLANK0000086487	
Undesireds:	WWDP	D36	DT	AMD	NORWELL, MA	BLANK0000193261	291.4 km
	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	155.3
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLANK0000152125	327.7
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	187.8

WITF-TV	D36	DT	CP	HARRISBURG, PA	BLANK0000035782	244.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38374.6	22,087,789	35920.3	21,511,236	32574.3	20,809,492	32574.3	20,809,492	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WWDP D36 DT AMD	8.0	0		0.0		0	
WFSB D36 DT LIC	2939.0	603,129	2391.6	468,027	2387.6	468,027	
WTTG D36 DT LIC	132.2	43,434	8.0	588	8.0	588	
WMGM-TV D36 DT LIC	830.4	165,895	351.0	61,893	351.0	61,893	
WITF-TV D36 DT CP	136.2	72,582	28.0	26,640	28.0	26,640	

Interference to BLANK0000086487 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBS-TV	D36	DT	LIC	NEW YORK, NY	BLANK0000086487	
Undesireds:	WWDP	D36	DT	AMD	NORWELL, MA	BLANK0000193261	291.4 km
	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	155.3
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLANK0000152125	327.7
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	187.8
	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	244.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38374.6	22,087,789	35920.3	21,511,236	32590.3	20,814,783	32590.3	20,814,783	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WWDP D36 DT AMD	8.0	0		0.0		0	
WFSB D36 DT LIC	2939.0	603,129	2403.6	474,742	2399.6	474,742	
WTTG D36 DT LIC	132.2	43,434	8.0	588	8.0	588	
WMGM-TV D36 DT LIC	830.4	165,895	355.0	61,893	355.0	61,893	
WITF-TV D36 DT LIC	88.1	56,723	12.0	21,349	12.0	21,349	

Interference to proposal scenario 1
27.07% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWDP	D36	DT	AMD	NORWELL, MA	BLANK0000193261	
Undesireds:	WHDH	D35	DT	LIC	BOSTON, MA	BLANK0000088833	1.7 km
	WFSB	D36	DT	LIC	HARTFORD, CT	BLANK0000159868	142.5
	WMEA-TV	D36	DT	LIC	BIDDEFORD, ME	BLANK0000108722	127.9
	WCBS-TV	D36	DT	LIC	NEW YORK, NY	BLANK0000086487	291.4

Service area		Terrain-limited		IX-free		Percent IX	
18976.3	6,509,527	17149.6	6,223,276	10079.3	4,538,714	41.23	27.07

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WHDH D35 DT LIC	5649.7	1,481,062	3443.5	1,101,784	20.08	17.70
WFSB D36 DT LIC	3008.4	390,188	534.8	57,963	3.12	0.93
WMEA-TV D36 DT LIC	2375.2	434,126	132.6	47,384	0.77	0.76
WCBS-TV D36 DT LIC	378.6	26,497	0.0	0	0.00	0.00