

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Orono21d15kwBA60IncGF, Model: Longley-Rice

Start: 2024.02.29 14:34:05

Study created: 2024.02.29 14:34:05

Study build station data: LMS TV 2024-02-28

Proposal: W21EO-D D21 LD APP ORONO, ME

Facility ID: 186274

Station data: User record

Record ID: 2124

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
Yes	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000219276	95.8 km
Yes	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000239119	95.8
Yes	W20ER-D	D20	LD	LIC	BANGOR, ME	BLANK0000197701	28.6
No	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	317.8
No	WNYT	D21	DT	CP	ALBANY, NY	BLANK0000189994	458.7
No	W22FE-D	D22	LD	CP	AUGUSTA, ME	BLANK0000194230	55.8
No	W22FE-D	D22	LD	LIC	AUGUSTA, ME	BLANK0000198132	55.8
Yes	WMEB-TV	D22	DT	LIC	ORONO, ME	BLANK0000219914	41.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21

Mask: Full Service

Latitude: 44 42 11.60 N (NAD83)

Longitude: 69 4 45.10 W  
Height AMSL: 423.2 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: PSI-PSILP8BA (ID 20483) 60.0 deg  
Elev Pattn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	14.1 kW	340.6 m	59.1 km
45.0	14.1	350.2	59.6
90.0	13.0	324.8	57.9
135.0	14.6	321.5	58.3
180.0	5.95	287.1	51.7
225.0	0.693	207.5	36.1
270.0	0.794	317.5	42.2
315.0	10.1	330.2	56.8

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 310 m

\*\*Proposal 24.46 dBu contour crosses Canadian border, coordination required  
Distance to Canadian border: 140.5 km

Distance to Mexican border: 3243.6 km

Conditions at FCC monitoring station: Belfast ME  
Bearing: 180.5 degrees Distance: 28.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 273.1 degrees Distance: 2983.1 km

No land mobile station failures found

Study cell size: 0.50 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%

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Interference to BLANK0000219276 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000219276	
Undesireds:	W21EO-D	D21	LD	APP	ORONO, ME		95.8 km
	WBZ-TV	D20	DT	LIC	BOSTON, MA	BLANK0000204579	227.8
	WCAX-TV	D20	DT	LIC	BURLINGTON, VT	BLANK0000090403	226.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31800.2	948,949	29770.8		916,671	29141.5	892,911	29005.1 889,903 0.47 0.34
Undesired		Total IX		Unique IX, before		Unique IX, after	
W21EO-D	D21 LD APP	168.9		3,956		136.4	3,008
WBZ-TV	D20 DT LIC	558.1		22,190	543.5	21,621	530.2 21,264
WCAX-TV	D20 DT LIC	85.8		2,139	71.2	1,570	52.8 1,156

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Interference to BLANK0000239119 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000239119	
Undesireds:	W21EO-D	D21	LD	APP	ORONO, ME		95.8 km
	WBZ-TV	D20	DT	LIC	BOSTON, MA	BLANK0000204579	227.8
	WCAX-TV	D20	DT	LIC	BURLINGTON, VT	BLANK0000090403	226.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31800.2	948,949	29770.8		916,671	29141.5	892,911	29005.1 889,903 0.47 0.34
Undesired		Total IX		Unique IX, before		Unique IX, after	

W21EO-D D21 LD APP	168.9	3,956			136.4	3,008
WBZ-TV D20 DT LIC	558.1	22,190	543.5	21,621	530.2	21,264
WCAX-TV D20 DT LIC	85.8	2,139	71.2	1,570	52.8	1,156

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Interference to BLANK0000197701 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20ER-D	D20	LD	LIC	BANGOR, ME	BLANK0000197701	
Undesireds:	W21EO-D	D21	LD	APP	ORONO, ME		28.6 km
	W19FA-D	D19	LD	LIC	BANGOR, ME	BLANK0000216821	28.6
	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000219276	124.4
	WCAX-TV	D20	DT	LIC	BURLINGTON, VT	BLANK0000090403	320.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5247.3	154,209	4764.6	147,079	4299.8	139,170	4299.1 139,170	0.02 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
W21EO-D D21 LD APP	63.8	723			0.7	0	
W19FA-D D19 LD LIC	126.4	1,629	63.1	837	31.7	400	
WCBB D20 DT LIC	401.6	7,072	338.1	6,280	337.6	6,280	
WCAX-TV D20 DT LIC	0.5	0	0.0	0	0.0	0	

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Interference to BLANK0000197701 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20ER-D	D20	LD	LIC	BANGOR, ME	BLANK0000197701	
Undesireds:	W21EO-D	D21	LD	APP	ORONO, ME		28.6 km
	W19FA-D	D19	LD	LIC	BANGOR, ME	BLANK0000216821	28.6
	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000239119	124.4
	WCAX-TV	D20	DT	LIC	BURLINGTON, VT	BLANK0000090403	320.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5247.3	154,209	4764.6	147,079	4299.8	139,170	4299.1 139,170	0.02 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
W21EO-D D21 LD APP	63.8		723		0.7 0
W19FA-D D19 LD LIC	126.4		1,629	63.1 837	31.7 400
WCBB D20 DT LIC	401.6		7,072	338.1 6,280	337.6 6,280
WCAX-TV D20 DT LIC	0.5		0	0.0 0	0.0 0

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Interference to BLANK0000219914 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMEB-TV	D22	DT	LIC	ORONO, ME	BLANK0000219914	
Undesireds:	W21EO-D	D21	LD	APP	ORONO, ME		41.1 km
	WBPX-TV	D22	DT	LIC	BOSTON, MA	BLANK0000075858	354.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	30560.1 411,411	29275.9	395,955		29249.2 395,276	29223.8 395,071	0.09 0.05

Undesired			Total IX	Unique IX, before	Unique IX, after
W21EO-D D21 LD APP	25.4		205		25.4 205
WBPX-TV D22 DT LIC	26.6		679	26.6 679	26.6 679

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Interference to proposal scenario 1  
5.62% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W21EO-D	D21	LD	APP	ORONO, ME		
Undesireds:	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000219276	95.8 km
	W20ER-D	D20	LD	LIC	BANGOR, ME	BLANK0000197701	28.6
	W22FE-D	D22	LD	CP	AUGUSTA, ME	BLANK0000194230	55.8
	WMEB-TV	D22	DT	LIC	ORONO, ME	BLANK0000219914	41.1
	Service area		Terrain-limited		IX-free	Percent IX	
	9025.0 227,800	8301.3	218,374		7959.3 206,100	4.12 5.62	
Undesired			Total IX		Unique IX	Prcnt Unique IX	

WCBB D20 DT LIC	3.8	335	3.8	335	0.05	0.15
W20ER-D D20 LD LIC	3.5	142	0.7	0	0.01	0.00
WMEB-TV D22 DT LIC	337.5	11,939	334.8	11,797	4.03	5.40

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Interference to proposal scenario 2  
5.62% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21EO-D	D21	LD	APP	ORONO, ME		
Undesireds:	WCBB	D20	DT	LIC	AUGUSTA, ME	BLANK0000239119	95.8 km
	W20ER-D	D20	LD	LIC	BANGOR, ME	BLANK0000197701	28.6
	W22FE-D	D22	LD	CP	AUGUSTA, ME	BLANK0000194230	55.8
	WMEB-TV	D22	DT	LIC	ORONO, ME	BLANK0000219914	41.1

Service area	Terrain-limited	IX-free	Percent IX
9025.0 227,800	8301.3 218,374	7959.3 206,100	4.12 5.62

Undesired	Total IX	Unique IX	Prcnt Unique IX
WCBB D20 DT LIC	3.8 335	3.8 335	0.05 0.15
W20ER-D D20 LD LIC	3.5 142	0.7 0	0.01 0.00
WMEB-TV D22 DT LIC	337.5 11,939	334.8 11,797	4.03 5.40