

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W32EO-D_AP 4DR4S 180ds FS #999, Model: Longley-Rice
Start: 2022.07.12 15:39:48

Study created: 2022.07.12 15:39:48

Study build station data: LMS TV 2022-07-12

Proposal: W32EO-D.A D22 LD LIC TRYON, ETC., NC
File number: W32EO-D_AP 4DR4S 180ds FS
Facility ID: 56538
Station data: User record
Record ID: 416
Country: U.S.

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

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	WABE-TV	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	254.4 km
No	W21DV-D	D21	LD	LIC	BRYSON CITY, NC	BLANK0000080638	106.9
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	148.6
No	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	243.8
No	W14CX-D	D21	LD	CP	KNOXVILLE, TN	BLANK0000051769	174.6
No	W22EC-D	D22	LD	APP	LA GRANGE, GA	BLANK0000193290	369.4
Yes	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	257.2
No	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	366.3
No	WCVN-TV	D22	DT	LIC	COVINGTON, KY	BLANK0000087399	463.9
Yes	W41BQ	D22-	LD	CP	ASHEVILLE, NC	BLANK0000052015	52.4
No	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	297.2
Yes	W22FB-D	D22	LD	LIC	MARION, NC	BLANK0000116530	50.0
Yes	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	186.1
Yes	WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	124.4
No	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLANK20110413ACS	297.3
No	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	207.7
No	WCTD-LD	N22-	TX	LIC	DUCKTOWN, TN	BLTTTL20070622ADD	202.4
No	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	143.5
No	DDWJZC-LP	N22+	TX	APP	SEVIERVILLE, TN	BLTTTL19901017JE	136.6
No	W22EX-D	D22	LD	LIC	STAUNTON, VA	BLANK0000055155	414.8
No	WSAZ-TV	D22	DT	LIC	HUNTINGTON, WV	BLANK0000167829	360.6
No	WZVC-LD	D23	LD	LIC	ATHENS, GA	BLANK0000178758	174.6
No	WZVC-LD	D23	LD	CP	ATHENS, GA	BLANK0000185000	175.9
No	WAAU-LD	D23	LD	LIC	AUGUSTA, GA	BLDTL20120522AFJ	200.1
No	WKPI-TV	D23	DT	LIC	PIKEVILLE, KY	BLANK0000087418	225.8
No	W23EY-D	D23	LD	LIC	CANTON, NC	BLANK0000087276	68.9
Yes	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	96.5
No	W23ES-D	D23	LD	LIC	MARSHALL, NC	BLANK0000074623	72.5
No	W23EZ-D	D23	LD	LIC	SYLVA, NC	BLANK0000080642	99.2
No	WAPW-CD	D23	DC	LIC	ABINGDON, ETC., VA	BLANK0000116775	192.4

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WWQT 1160 L DAN D TRYON, NC BML20180329ACL
WWQT 1160 L DAN N TRYON, NC BML20180329ACL

Record parameters as studied:

Channel: D22
Mask: Full Service
Latitude: 35 15 58.40 N (NAD83)
Longitude: 82 14 39.40 W
Height AMSL: 995.0 m
HAAT: 0.0 m

Peak ERP: 2.20 kW
 Antenna: SCA 4DR 4S at 180 degs 180.0 deg
 Elev Pattn: Generic

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.027 kW	557.9 m	29.3 km
45.0	0.000	652.1	13.3
90.0	0.005	686.0	22.7
135.0	0.797	697.8	52.5
180.0	2.20	663.6	58.5
225.0	0.797	401.8	45.6
270.0	0.005	441.7	19.0
315.0	0.000	366.7	10.4

Database HAAT does not agree with computed HAAT
 Database HAAT: 0 m Computed HAAT: 558 m

Distance to Canadian border: 712.6 km

Distance to Mexican border: 1739.7 km

Conditions at FCC monitoring station: Powder Springs GA
 Bearing: 236.2 degrees Distance: 275.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 291.8 degrees Distance: 2085.4 km

Study cell size: 1.00 km
 Profile point spacing: 0.20 km

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

 Interference to BLANK0000081582 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	257.2 km
	WABE-TV	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	2.8
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	328.2
	WCOV-TV	D22	DT	LIC	MONTGOMERY, AL	BLANK0000115937	258.9
	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	342.5
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	338.6
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	334.2
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	284.5
	WKTG-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	24.1
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	180.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29759.8 5,871,652	28606.7 5,801,268	28153.3 5,776,819	28151.3 5,776,800	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	9.0 644	2.0 19	
WABE-TV D21 DT LIC	1.0 132	1.0 132	
WFIQ D22 DT LIC	46.8 2,884	16.9 532	
WCOV-TV D22 DT LIC	284.6 12,781	218.8 7,449	
WTWC-TV D22 DT LIC	48.9 2,967	12.0 1,027	
WJCL D22 DT LIC	47.6 3,195	10.9 407	
WACH D22 DT LIC	61.7 5,028	36.0 3,851	
WCTE D22 DT LIC	75.3 6,787	52.3 3,896	
WKTG-CD D23 DC LIC	1.0 96	1.0 96	
WFLI-TV D23 DT LIC	4.0 0	4.0 0	

Interference to BLANK0000052015 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W41BQ	D22-	LD	CP	ASHEVILLE, NC	BLANK0000052015	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	52.4 km
	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	258.8
	W22FB-D	D22	LD	LIC	MARION, NC	BLANK0000116530	58.9
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	238.5
	WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	166.9
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	250.6
	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	191.5
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	135.2
<hr/>							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	4085.7	398,389	3425.1	338,107	3410.2	337,710	3401.2 334,907 0.26 0.83

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	11.0	2,803	9.0 2,803
WHSB-TV D22 DT LIC	1.0	377	1.0 377
W22FB-D D22 LD LIC	6.0	0	4.0 0
WACH D22 DT LIC	7.0	17	5.0 17
WVEB-LD D22 LD LIC	1.0	0	0.0 0
WCTE D22 DT LIC	1.0	3	1.0 3
WBTB D23 DT LIC	1.0	0	0.0 0

Interference to BLANK0000116530 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W22FB-D	D22	LD	LIC	MARION, NC	BLANK0000116530	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	50.0 km
	W41BQ	D22-	LD	CP	ASHEVILLE, NC	BLANK0000052015	58.9
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	274.2
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	206.6
	WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	114.9
	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	245.7
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	81.5
<hr/>							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	7007.7	370,646	5619.6	289,561	5453.0	277,199	5399.2 275,436 0.99 0.64

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	113.6	4,156	53.8 1,763
W41BQ D22- LD CP	2.0	9	1.0 9
WUVC-DT D22 DT LIC	15.0	51	1.0 0
WACH D22 DT LIC	60.8	2,204	34.9 1,348
WVEB-LD D22 LD LIC	39.9	1,143	5.0 563
WBTB D23 DT LIC	113.7	10,414	81.8 9,190

Interference to BLANK0000093772 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	186.1 km
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	138.8
	WEBA-TV	D21	DT	LIC	ALLENDAL, SC	BLANK0000145391	118.7
	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	334.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	234.9
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	225.0
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	144.0
<hr/>							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	30094.0	1,410,251	29980.0	1,408,458	29080.2	1,361,247	28676.3 1,354,642 1.39 0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	501.0	8,348	403.9 6,605
WUNG-TV D21 DT LIC	39.0	5,594	5.0 579

WEBA-TV D21 DT LIC	40.7	1,133	4.0	34	4.0	34
WHSG-TV D22 DT LIC	48.7	840	9.9	176	6.0	176
WJCL D22 DT LIC	252.4	4,066	186.9	2,331	185.9	2,328
WUVC-DT D22 DT LIC	232.9	7,754	195.8	3,719	192.8	3,719
WBTB D23 DT LIC	427.6	38,000	382.6	32,662	312.4	31,306

Interference to BLANK0000083837 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	124.4 km
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	30.0
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	175.6
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	120.8
	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	326.0
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	33.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3557.9 1,359,414		3539.0 1,357,184		2528.0 1,096,048		2528.0 1,096,048	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	3.0 644	0.0 0	
WUNG-TV D21 DT LIC	427.6 86,611	123.6 19,738	123.6 19,738
WUVC-DT D22 DT LIC	72.8 12,135	1.0 41	1.0 41
WACH D22 DT LIC	126.8 27,227	20.0 1,417	20.0 1,417
WBTB D23 DT LIC	849.4 234,923	503.6 156,308	502.6 156,243

Interference to BLANK0000147971 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	
Undesireds:	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	96.5 km
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	200.7
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	144.0
	WTOC-TV	D23	DT	CP	SAVANNAH, GA	BLANK0000149921	368.2
	WKPI-TV	D23	DT	LIC	PIKEVILLE, KY	BLANK0000087418	244.8
	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	242.3
	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	306.2
	WAPW-CD	D23	DC	LIC	ABINGDON, ETC., VA	BLANK0000116775	173.8
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000185678	399.7
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	2.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
46313.0 4,434,326		44338.7 4,296,020		43764.2 4,279,781		43759.2 4,279,457	0.01 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W32EO-D.A D22 LD LIC	5.0 324	5.0 324	
WUVC-DT D22 DT LIC	23.9 807	2.0 8	2.0 8
WACH D22 DT LIC	215.5 2,870	178.3 2,349	178.3 2,349
WTOC-TV D23 DT CP	51.3 700	14.1 197	14.1 197
WKPI-TV D23 DT LIC	2.0 151	2.0 151	2.0 151
WNGT-CD D23 DC LIC	47.8 1,778	6.0 601	6.0 601
WECT D23 DT LIC	248.7 7,508	193.9 6,036	193.9 6,036
WAPW-CD D23 DC LIC	2.0 10	2.0 10	2.0 10
WTVR-TV D23 DT LIC	11.0 653	3.0 166	3.0 166
WCNC-TV D24 DT LIC	85.2 4,605	85.2 4,605	85.2 4,605

Interference to proposal scenario 1

3.40% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W32EO-D.A	D22	LD	LIC	TRYON, ETC., NC	W32EO-D_AP 4DR4S 180ds	
Undesireds:	WHSG-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	257.2 km
	W41BQ	D22-	LD	CP	ASHEVILLE, NC	BLANK0000052015	52.4
	W22FB-D	D22	LD	LIC	MARION, NC	BLANK0000116530	50.0

WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	186.1
WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	124.4
WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	207.7
WBTW	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	96.5

Service area		Terrain-limited		IX-free		Percent IX	
3963.8	664,547	3558.2	589,132	3378.7	569,105	5.04	3.40

Undesired		Total IX		Unique IX	Prcnt	Unique IX
WHSB-TV D22 DT LIC	5.0	3,277	1.0	0	0.03	0.00
W41BQ D22- LD CP	26.9	5,544	24.9	5,394	0.70	0.92
W22FB-D D22 LD LIC	110.7	11,505	88.8	8,388	2.50	1.42
WACH D22 DT LIC	36.9	3,636	25.9	1,227	0.73	0.21
WVEB-LD D22 LD LIC	1.0	64	0.0	0	0.00	0.00
WBTW D23 DT LIC	29.9	841	12.0	288	0.34	0.05