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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WAET_Ch21_4x3_40deg_Move_Less_Pre, Model: Longley-Rice
Start: 2019.04.22 14:37:50

Study created: 2019.04.22 14:37:50

Study build station data: LMS TV 2019-04-21

    Proposal: WAET-LD D21 LD APP NEW BERN, NC
 File number: WAET_Ch21_4x3_40deg_Move
 Facility ID: 184551
Station data: User record
   Record ID: 934
     Country: U.S.

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

Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Individual records excluded:
20130529AHN   WTMH-LD D21 LD LIC KINSTON, NC BLDTL20130529AHN

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WUNC-TV	D20	DT	CP	CHAPEL HILL, NC	BLANK0000034414	204.9 km
Yes	WUND-TV	D20	DT	LIC	EDENTON, NC	BMLEDT20101027ABX	111.5
No	WDZA-LD	D20	LD	LIC	WILMINGTON, NC	BLDTL20140224AAZ	135.0
No	WGNT	D20	DT	CP	PORTSMOUTH, VA	BLANK0000034473	196.5
No	WDRF-LD	D21	LD	CP	AUGUSTA, GA	BLANK0000067887	423.2
No	WMPT	D21	DT	CP	ANNAPOLIS, MD	BLANK0000029874	435.8
No	WFPT	D21	DT	BL	FREDERICK, MD	DTVBL40626	461.8
No	WBOC-TV	D21	DT	LIC	SALISBURY, MD	BLCDT20090618ABK	399.1
No	WCPB	D21	DT	BL	SALISBURY, MD	DTVBL40618	388.2
No	W21CK-D	D21	DC	LIC	CHARLOTTE, NC	BLDTA20110706AAV	343.1
No	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000034415	319.6
No	WWIW-LD	D21	LD	CP	RALEIGH, NC	BLANK0000051778	157.6
No	WNCR -LD	D21	LD	LIC	TARBORO, NC	BLANK0000055079	107.6
Yes	WUNJ-TV	D21	DT	CP	WILMINGTON, NC	BLANK0000034442	135.1
No	W21DF-D	D21	LD	CP	WILMINGTON, NC	BNPDTL20100422AAK	120.9
No	WEBA-TV	D21	DT	CP	ALLENDALE, SC	BLANK0000025022	449.0
No	WWMB	D21	DT	LIC	FLORENCE, SC	BLCDT20090619ACJ	219.5
No	WWCW	D21	DT	CP	LYNCHBURG, VA	BLANK0000027725	334.5
No	WVBT	D21	DT	CP	VIRGINIA BEACH, VA	BLANK0000034803	197.5
No	WIRP-LD	D22	LD	LIC	FAYETTEVILLE, NC	BLANK0000010748	204.6
No	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000034450	175.9
No	W22FC-D	D22	LD	CP	GREENVILLE, NC	BLANK0000071778	82.5
No	W22CJ	N22-	TX	LIC	JACKSONVILLE, NC	BLTT19990629JD	49.1
No	W22EN-D	D22	LD	LIC	MANTEO, NC	BLDTL20150311AAO	156.0
No	WDQB-LD	D22	LD	CP	WILMINGTON, NC	BLANK0000007877	147.2
No	WDQB-LD	D22	LD	LIC	WILMINGTON, NC	BLDTT20150112ACS	134.0
No	WRIC-TV	D22	DT	LIC	PETERSBURG, VA	BLCDT20090209ABZ	270.9
No	WCVE-TV	D22	DT	CP	RICHMOND, VA	BLANK0000034128	270.9

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: 35 6 33.00 N (NAD83)
  Longitude: 77 6 9.00 W
Height AMSL: 63.6 m

HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: SIRA 4x3 40.0 deg
Elev Pattrn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.9 kW	60.9 m	38.5 km
45.0	12.2	59.0	37.5
90.0	13.5	61.2	38.3
135.0	14.5	59.0	38.3
180.0	2.72	54.6	29.4
225.0	0.344	59.4	20.1
270.0	4.46	52.5	31.4
315.0	12.6	55.3	36.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 58 m

Distance to Canadian border: 849.6 km

Distance to Mexican border: 2146.2 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 3.1 degrees Distance: 451.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 291.1 degrees Distance: 2526.6 km

No land mobile station failures found

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 BMLEDT20101027ABX LIC scenario 1
**IX: 1.55% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUND-TV	D20	DT	LIC	EDENTON, NC	BMLEDT20101027ABX	
Undesireds:	WAET-LD	D21	LD	APP	NEW BERN, NC	WAET_Ch21_4x3_40deg_Mo	111.5 km
	WUNM-TV	D19	DT	LIC	JACKSONVILLE, NC	BLEDT20090827AAT	125.9
	WYSJ-CA	D19	DC	LIC	YORKTOWN, VA	BLANK0000001579	131.2
	WWCW	D20	DT	LIC	LYNCHBURG, VA	BLCDT20090619ABM	333.0
	WAZT-CD	D20	DC	APP	WOODSTOCK, VA	BLANK0000068436	383.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39051.4	1,503,030	39049.4	1,502,719	38941.1	1,487,894	38835.3	1,464,759	0.27	1.55

Undesired		Total IX		Unique IX, before		Unique IX, after	
WAET-LD D21 LD APP	115.8	24,097		105.8	23,135		
WUNM-TV D19 DT LIC	19.9	1,296	19.9	1,296	10.0	334	
WYSJ-CA D19 DC LIC	47.0	13,440	47.0	13,440	47.0	13,440	
WWCW D20 DT LIC	41.3	89	41.3	89	41.3	89	

Interference to BLANK0000034442 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNJ-TV	D21	DT	CP	WILMINGTON, NC	BLANK0000034442	
Undesireds:	WAET-LD	D21	LD	APP	NEW BERN, NC	WAET_Ch21_4x3_40deg_Mo	135.1 km
	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000034415	246.0
	WWCW	D21	DT	CP	LYNCHBURG, VA	BLANK0000027725	356.6
	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000034450	149.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31225.4	1,125,306	31225.4	1,125,306	30993.7	1,109,655	30748.9	1,106,233	0.79	0.31

Undesired	Total IX	Unique IX, before	Unique IX, after
WAET-LD D21 LD APP	244.9 3,422		244.9 3,422
WUNG-TV D21 DT CP	3.0 0	1.0 0	1.0 0
WWCW D21 DT CP	1.0 0	1.0 0	1.0 0
WUVC-DT D22 DT CP	229.7 15,651	227.7 15,651	227.7 15,651

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAET-LD	D21	LD	APP	NEW BERN, NC	WAET_Ch21_4x3_40deg_Mo	
Undesireds:	WUNJ-TV	D21	DT	CP	WILMINGTON, NC	BLANK0000034442	135.1 km

Service area		Terrain-limited		IX-free		Percent IX	
3613.0	122,085	3613.0	122,085	3440.6	120,230	4.77	1.52

Undesired	Total IX	Unique IX	Prcnt Unique IX
WUNJ-TV D21 DT CP	172.3 1,855	172.3 1,855	4.77 1.52