tvstudy v2.2.2
Database: localhost, Study: WUVC 235 KW, Model: Longley-Rice
Start: 2017.06.16 17:25:40

Study created: 2017.06.16 17:25:30

Study build station data: LMS TV 2017-06-02 (11)

    Proposal: WUVC-DT D22 DT APP FAYETTEVILLE, NC
 File number: WUVC 235 KW
 Facility ID: 16517
Station data: User record
   Record ID: 490
     Country: U.S.
        Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WUNG-TV	D21	DT	BL	CONCORD, NC	DTVBL69124	148.8 km
WUNJ-TV	D21	DT	BL	WILMINGTON, NC	DTVBL69332	149.0
WWCW	D21	DT	BL	LYNCHBURG, VA	DTVBL24812	209.4
WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	441.5
WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	225.0
WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	343.5
WCVE-TV	D22	DT	BL	RICHMOND, VA	DTVBL9987	254.1
WSAZ-TV	D22	DT	BL	HUNTINGTON, WV	DTVBL36912	440.2
WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	200.7
WARZ-CD	D23	DC	BL	SMITHFIELD-SELMA, NC	DTVBL71089	44.0
WECT	D23	DT	BL	WILMINGTON, NC	DTVBL48666	169.5
WTVR-TV	D23	DT	BL	RICHMOND, VA	DTVBL57832	254.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D22
   Latitude: 35 30 43.90 N (NAD83)
  Longitude: 78 58 39.80 W
Height AMSL: 643.8 m
       HAAT: 556.0 m
   Peak ERP: 235 kW
    Antenna: TFU-24GTH-R-4C140 20.0 deg

39.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	233 kW	568.8 m	108.6 km
45.0	140	533.7	101.8
90.0	35.4	547.9	91.1
135.0	125	570.9	103.3
180.0	235	545.4	107.2
225.0	190	535.2	104.6
270.0	225	558.7	107.7
315.0	188	585.8	107.6

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 746.6 km

Distance to Mexican border: 2010.6 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 24.5 degrees   Distance: 448.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.4 degrees   Distance: 2351.7 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 DTVBL69124 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNG-TV	D21	DT	BL	CONCORD, NC	DTVBL69124	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	148.8 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	148.8
	WUNC-TV	D20	DT	BL	CHAPEL HILL, NC	DTVBL69080	142.1
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	384.5
	WUNJ-TV	D21	DT	BL	WILMINGTON, NC	DTVBL69332	246.0
	WEBA-TV	D21	DT	BL	ALLENDALE, SC	DTVBL61003	251.9
	WWCW	D21	DT	BL	LYNCHBURG, VA	DTVBL24812	235.0
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	138.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25823.2	3,267,425	25554.9	3,257,901	24250.1	3,163,556	24254.1	3,163,583	-0.02	-0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	411.4	15,590	20.2	150		
WUVC-DT D22 DT APP	391.4	14,251			16.2	123
WUNC-TV D20 DT BL	439.7	28,895	20.2	897	40.3	2,789
WUNJ-TV D21 DT BL	843.6	36,337	381.2	8,791	385.2	8,791
WEBA-TV D21 DT BL	19.8	267	11.9	203	11.9	203
WWCW D21 DT BL	674.4	71,072	252.1	47,928	252.1	47,928
WACH D22 DT BL	39.8	458	23.9	189	23.9	189

Interference to DTVBL69332 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNJ-TV	D21	DT	BL	WILMINGTON, NC	DTVBL69332	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	149.0 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	149.0
	WUNC-TV	D20	DT	BL	CHAPEL HILL, NC	DTVBL69080	191.8
	WUNG-TV	D21	DT	BL	CONCORD, NC	DTVBL69124	246.0
	WEBA-TV	D21	DT	BL	ALLENDALE, SC	DTVBL61003	318.8
	WWCW	D21	DT	BL	LYNCHBURG, VA	DTVBL24812	356.6
	WVBT	D21	DT	BL	VIRGINIA BEACH, VA	DTVBL65387	318.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
30233.2	1,081,274	30233.2	1,081,274	30118.5	1,071,336	30142.2	1,072,645	-0.08	-0.12

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	114.7	9,938	114.7	9,938		
WUVC-DT D22 DT APP	91.0	8,629			91.0	8,629

Interference to DTVBL24812 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20091013AFS LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL19199 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	225.0 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	225.0
	WUNG-TV	D21	DT	BL	CONCORD, NC	DTVBL69124	138.8
	WEBA-TV	D21	DT	BL	ALLENDALE, SC	DTVBL61003	118.7
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	331.4
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	234.9
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	314.8
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	144.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27982.5	1,317,358	27910.8	1,316,777	27047.7	1,290,539	27071.6	1,290,924	-0.09	-0.03

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	242.6	3,983	214.8	2,130		
WUVC-DT D22 DT APP	214.8	3,040			190.9	1,745
WUNG-TV D21 DT BL	11.9	1,635	0.0	0	0.0	0

WEBA-TV D21 DT BL	8.1	91	0.0	0	0.0	0	
WHSG-TV D22 DT BL	32.0	247	8.0	20	8.0	20	
WJCL D22 DT LIC	168.0	1,927	136.0	1,683	136.0	1,683	
WBTV D23 DT LIC	472.2	21,806	440.5	19,819	444.5	20,377	

Interference to BLDTA20120420ACJ LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL9987 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCVE-TV	D22	DT	BL	RICHMOND, VA	DTVBL9987	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	254.1 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	254.1
	WWCW	D21	DT	BL	LYNCHBURG, VA	DTVBL24812	180.6
	WVBT	D21	DT	BL	VIRGINIA BEACH, VA	DTVBL65387	123.4
	WMPB	D22	DT	BL	BALTIMORE, MD	DTVBL65944	226.6
	WPHY-CD	D22	DC	BL	TRENTON, NJ	DTVBL74464	353.0
	WTOO-CD	D22	DC	BL	BOLIVAR, PA	DTVBL68403	319.7
	WWKH-CD	D22	DC	BL	UNIONTOWN, PA	DTVBL68409	315.6
	WITD-CD	D23	DC	LIC	CHESAPEAKE, VA	BLANK0000001500	123.4
	WTVR-TV	D23	DT	BL	RICHMOND, VA	DTVBL57832	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23114.6	1,579,289	23086.9	1,577,366	22871.4	1,571,925	22911.5	1,572,389	-0.18	-0.03

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	140.1	2,276	140.1	2,276		
WUVC-DT D22 DT APP	100.0	1,812			100.0	1,812
WVBT D21 DT BL	12.0	1,399	12.0	1,399	12.0	1,399
WMPB D22 DT BL	27.6	254	27.6	254	27.6	254
WTVR-TV D23 DT BL	35.7	1,512	35.7	1,512	35.7	1,512

Interference to DTVBL36912 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT19991025AEB LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	200.7 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	200.7
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	144.0
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	180.5
	WKTB-CD	D23	DC	BL	NORCROSS, GA	DTVBL35418	319.2
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	363.3
	WKPI-TV	D23	DT	BL	PIKEVILLE, KY	DTVBL34200	244.8
	WARZ-CD	D23	DC	BL	SMITHFIELD-SELMA, NC	DTVBL71089	242.3
	WECT	D23	DT	BL	WILMINGTON, NC	DTVBL48666	306.2
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	371.5
	WAPW-CD	D23	DC	BL	ABINGDON, ETC., VA	DTVBL77676	173.8
	WTVR-TV	D23	DT	BL	RICHMOND, VA	DTVBL57832	399.7
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	215.8
	WCNC-TV	D24	DT	BL	CHARLOTTE, NC	DTVBL32326	2.4
	WUBX-CD	D24	DC	BL	DURHAM, ETC., NC	DTVBL70423	221.4
	WETP-TV	D24	DT	BL	SNEEDVILLE, TN	DTVBL18252	212.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
46318.9	4,433,020	44105.4	4,295,962	43238.2	4,272,469	43234.2	4,272,238	0.01	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	32.3	909	8.1	144		
WUVC-DT D22 DT APP	36.3	1,140			12.1	375
WACH D22 DT BL	259.3	3,165	255.3	3,165	255.3	3,165
WKPT-CD D22 DC LIC	4.0	183	4.0	183	4.0	183
WKPI-TV D23 DT BL	12.0	204	4.0	0	4.0	0
WARZ-CD D23 DC BL	4.0	177	0.0	0	0.0	0
WECT D23 DT BL	340.1	9,342	311.9	8,577	311.9	8,577
WFLI-TV D23 DT BL	8.0	460	8.0	460	8.0	460
WAPW-CD D23 DC BL	23.9	272	16.0	68	16.0	68
WTVR-TV D23 DT BL	8.0	1,683	8.0	1,683	8.0	1,683
WCNC-TV D24 DT BL	215.7	8,244	215.7	8,244	215.7	8,244

Interference to DTVBL71089 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WARZ-CD	D23	DC	BL	SMITHFIELD-SELMA, NC	DTVBL71089	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	44.0 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	44.0
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	242.3
	WECT	D23	DT	BL	WILMINGTON, NC	DTVBL48666	174.6
	WAPW-CD	D23	DC	BL	ABINGDON, ETC., VA	DTVBL77676	301.9
	WITD-CD	D23	DC	LIC	CHESAPEAKE, VA	BLANK0000001500	221.6
	WTVR-TV	D23	DT	BL	RICHMOND, VA	DTVBL57832	220.5
	WUBX-CD	D24	DC	BL	DURHAM, ETC., NC	DTVBL70423	53.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4487.5	1,077,557	4463.4	1,063,066	4419.2	1,049,584	4423.2	1,049,695	-0.09	-0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	24.1	10,221	4.0	111		
WUVC-DT D22 DT APP	20.1	10,110			0.0	0
WBTV D23 DT LIC	16.1	7,911	0.0	0	0.0	0
WECT D23 DT BL	24.1	5,053	12.1	1,700	12.1	1,700
WTVR-TV D23 DT BL	4.0	984	4.0	984	4.0	984

Interference to DTVBL48666 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECT	D23	DT	BL	WILMINGTON, NC	DTVBL48666	
Undesireds:	WUVC-DT	D22	DT	BL	FAYETTEVILLE, NC	DTVBL16517	169.6 km
	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	169.5
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	306.2
	WARZ-CD	D23	DC	BL	SMITHFIELD-SELMA, NC	DTVBL71089	174.6
	WITD-CD	D23	DC	LIC	CHESAPEAKE, VA	BLANK0000001500	335.2
	WTVR-TV	D23	DT	BL	RICHMOND, VA	DTVBL57832	379.5
	WWAY	D24	DT	BL	WILMINGTON, NC	DTVBL12033	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37260.0	1,134,884	37260.0	1,134,884	37161.2	1,132,724	37165.1	1,132,912	-0.01	-0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUVC-DT D22 DT BL	11.9	531	4.0	188		
WUVC-DT D22 DT APP	4.0	101			0.0	0
WARZ-CD D23 DC BL	94.9	1,972	87.0	1,629	90.9	1,871

Interference to DTVBL57832 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
0.87% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUVC-DT	D22	DT	APP	FAYETTEVILLE, NC	WUVC 235 KW	
Undesireds:	WUNG-TV	D21	DT	BL	CONCORD, NC	DTVBL69124	148.8 km
	WUNJ-TV	D21	DT	BL	WILMINGTON, NC	DTVBL69332	149.0
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	225.0
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	343.5
	WCVE-TV	D22	DT	BL	RICHMOND, VA	DTVBL9987	254.1
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	200.7
	WARZ-CD	D23	DC	BL	SMITHFIELD-SELMA, NC	DTVBL71089	44.0
	WECT	D23	DT	BL	WILMINGTON, NC	DTVBL48666	169.5

Service area		Terrain-limited		IX-free		Percent IX	
34122.0	3,524,371	33749.1	3,509,217	33003.5	3,478,702	2.21	0.87

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WUNG-TV D21 DT BL	184.8	7,434	152.8	7,116	0.45	0.20
WUNJ-TV D21 DT BL	39.7	317	15.9	96	0.05	0.00
WACH D22 DT BL	111.5	3,365	91.5	3,330	0.27	0.09
WCVE-TV D22 DT BL	135.7	4,994	135.7	4,994	0.40	0.14
WBTV D23 DT LIC	12.1	283	0.0	0	0.00	0.00
WARZ-CD D23 DC BL	289.8	14,255	289.8	14,255	0.86	0.41
WECT D23 DT BL	27.8	406	4.0	185	0.01	0.01