Second Filing Window Expanded Facility Application

In connection with the Broadcast Television Incentive Auction (Auction 1000) the Commission initiated a transition period during which the facilities of broadcast television stations that received new channel assignments in the post-incentive auction repacking process will be reauthorized and relicensed. The first filing window closed on September 15, 2017. This application is filed in accordance with the second filing window, which will close on November 2, 2017.

During the second filing window, any reassigned station or band changing station may file an amendment to its initial construction permit application, if still pending, or a modification to its construction permit, if granted, to seek an alternate channel or expanded facilities from that specified in the *Closing and Channel Reassignment Public Notice*.[1] The instant proposal, a minor change under the Commission's rules, expands the assigned technical facility beyond that applied for in the first filing window.

Post-Transition DTV Considerations

A study was performed using the FCC's software program, *tvstudy, v.2.2.3*, to ensure that the technical facility proposed herein protects the facilities proposed in the first priority filing window, whether those stations' applications have been granted or remain pending while protecting the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day filing window, whether those

[1] See *Incentive Auction Closing and Channel Reassignment Public Notice: The Broadcast Television Incentive Auction Closes; Reverse Auction and Forward Auction Results Announced; Final Television Band Channel Assignments Announced; Post-Auction Deadlines Announced*, Public Notice, 32 FCC Rcd 2786 (2017) (*Closing and Channel Reassignment Public Notice*).

stations' applications have been granted or remain pending. Further, the instant proposal protects the facilities specified in applications filed before the April 2013 freeze with "cut-off" protection.

As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any of the relevant protections discussed above. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.

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tvstudy v2.2.3 (DAezu1)
Database: localhost, Study: WACH-CP-DA-425kW, Model: Longley-Rice
Start: 2017.10.10 15:21:35

Study created: 2017.10.10 15:21:00

Study build station data: LMS TV 2017-10-02 (15)

    Proposal: WACH D22 DT CP COLUMBIA, SC
 File number: WACH-CP-DA-425kW
 Facility ID: 19199
Station data: User record
   Record ID: 808
     Country: U.S.
        Zone: II

Search options:
Non-U.S. records included
Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000025213	138.8 km
WEBA-TV	D21	DT	CP	ALLENDALE, SC	BLANK0000025022	118.7
WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000028032	334.2
WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	234.9
WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000025149	225.0
WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	144.0

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: 34 6 58.40 N (NAD83)
  Longitude: 80 45 49.90 W
Height AMSL: 615.7 m
       HAAT: 532.0 m
   Peak ERP: 425 kW
    Antenna: DIE-TFU-24DSB-M-R (ID 1001614) 230.0 deg
Elev Pattrn: Generic
  Elec Tilt: 1.00

39.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	65.3 kW	526.3 m	94.6 km
45.0	24.8	554.0	88.6
90.0	32.8	567.7	91.8
135.0	228	540.0	106.6

180.0	423	530.1	111.6
225.0	343	501.5	107.5
270.0	403	510.5	109.8
315.0	286	523.6	107.5

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 852.4 km

Distance to Mexican border: 1795.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 266.7 degrees Distance: 366.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 294.3 degrees Distance: 2260.0 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 BLANK0000025213 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000025213	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	138.8 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	138.8
	WUNF-TV	D20	DD	CP	ASHEVILLE, NC	BLANK0000029742	176.6
	WUNC-TV	D20	DT	CP	CHAPEL HILL, NC	BLANK0000025215	142.1
	WUNJ-TV	D21	DT	CP	WILMINGTON, NC	BLANK0000025131	246.0
	WEBA-TV	D21	DT	CP	ALLENDALE, SC	BLANK0000025022	251.9
	WWCW	D21	DT	CP	LYNCHBURG, VA	BLANK0000027725	235.0
	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000025149	148.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26275.1	3,311,143	25986.9	3,301,200	24466.4	3,183,948	24438.5	3,183,527	0.11	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	43.8	632	27.9	363		
WACH D22 DT CP	79.6	1,236			55.7	784
WUNF-TV D20 DD CP	139.7	17,958	120.0	16,712	120.0	16,712

WUNC-TV D20 DT CP	443.6	28,958	44.4	2,758	44.4	2,758
WUNJ-TV D21 DT CP	931.6	40,554	452.8	11,565	444.8	11,382
WEBA-TV D21 DT CP	15.9	184	7.9	9	7.9	9
WWCW D21 DT CP	686.4	73,833	256.2	49,242	256.2	49,242
WUVC-DT D22 DT CP	399.4	14,985	16.2	353	16.2	353

Interference to BLANK0000025022 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEBA-TV	D21	DT	CP	ALLENDALE, SC	BLANK0000025022	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	118.7 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	118.7
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	279.7
	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000025213	251.9
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	125.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
15462.4	645,039	15410.1	635,967	15337.8	634,219	15301.6	633,243	0.24	0.15

Undesired	Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	28.1	825	28.1	825		
WACH D22 DT CP	64.3	1,801			64.3	1,801
WPBA D21 DT LIC	12.0	766	4.0	0	4.0	0
WUNG-TV D21 DT CP	20.1	831	12.1	65	12.1	65
WJCL D22 DT LIC	20.1	92	20.1	92	20.1	92

Interference to BLANK0000028032 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000028032	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	334.2 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	334.2
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	2.8
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	328.2
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000025355	258.9
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	342.5
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	338.6
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	284.5
	WKTB-CD	D23	DC	CP	NORCROSS, GA	BLANK0000025118	24.1
	WFLI-TV	D23	DT	CP	CLEVELAND, TN	BLANK0000027931	183.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26719.3	5,701,077	25864.4	5,654,070	25308.7	5,625,239	25276.6	5,624,309	0.13	0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	48.1	2,939	40.1	2,637		

WACH D22 DT CP	80.1	3,869			72.1	3,567	
WPBA D21 DT LIC	12.0	566	4.0	0	4.0	0	
WFIQ D22 DT LIC	80.0	3,470	16.0	761	16.0	761	
WCOV-TV D22 DT CP	288.0	9,027	236.0	7,312	236.0	7,312	
WTWC-TV D22 DT CP	20.0	457	0.0	0	0.0	0	
WJCL D22 DT LIC	40.0	923	16.0	236	16.0	236	
WCTE D22 DT LIC	143.6	6,477	87.7	4,346	87.7	4,346	
WKTB-CD D23 DC CP	43.9	9,703	35.9	9,137	35.9	9,137	
WFLI-TV D23 DT CP	12.0	256	8.0	256	8.0	256	

Interference to BLANK0000029019 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	234.9 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	234.9
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	293.1
	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000028032	338.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32206.9	938,086	32206.9	938,086	32138.6	937,431	31950.2	933,856	0.59	0.38

Undesired	Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	40.1	345	32.1	221		
WACH D22 DT CP	228.5	3,920			220.4	3,796
WTWC-TV D22 DT CP	32.2	423	28.2	310	28.2	310
WHSG-TV D22 DT CP	8.0	124	0.0	0	0.0	0

Interference to BLANK0000025149 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000025149	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	225.0 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	225.0
	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000025213	148.8
	WUNJ-TV	D21	DT	CP	WILMINGTON, NC	BLANK0000025131	149.0
	WCVE-TV	D22	DT	CP	RICHMOND, VA	BLANK0000027467	254.1
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	200.7
	WARZ-CD	D23	DC	CP	SMITHFIELD-SELMA, NC	BLANK0000026452	44.0
	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000025214	169.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34122.0	3,524,371	33749.1	3,509,217	32963.7	3,476,191	32931.9	3,472,444	0.10	0.11

Undesired	Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	111.5	3,365	91.5	3,330		

WACH D22 DT CP	151.4	7,391			123.4	7,077	
WUNG-TV D21 DT CP	196.7	7,453	164.6	7,135	156.6	6,856	
WUNJ-TV D21 DT CP	47.7	341	23.8	120	23.8	120	
WCVE-TV D22 DT CP	155.6	7,462	155.6	7,462	155.6	7,462	
WBTV D23 DT LIC	12.1	283	0.0	0	0.0	0	
WARZ-CD D23 DC CP	289.8	14,255	289.8	14,255	289.8	14,255	
WECT D23 DT CP	27.8	406	4.0	185	4.0	185	

Interference to BLCDT19991025AEB LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	
Undesireds:	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	144.0 km
	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	144.0
	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000025149	200.7
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	180.5
	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000025330	244.8
	WARZ-CD	D23	DC	CP	SMITHFIELD-SELMA, NC	BLANK0000026452	242.3
	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000025214	306.2
	WFLI-TV	D23	DT	CP	CLEVELAND, TN	BLANK0000027931	371.6
	WAPW-CD	D23	DC	CP	ABINGDON, ETC., VA	BLANK0000026135	173.8
	WCNC-TV	D24	DT	CP	CHARLOTTE, NC	BLANK0000028033	2.4
	WETP-TV	D24	DT	APP	SNEEDVILLE, TN	BLANK0000029748	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	43230.1	4,273,756	43066.6	4,272,069	0.38	0.04

Undesired		Total IX		Unique IX, before		Unique IX, after	
WACH D22 DT BL	259.3	3,165		255.3	3,165		
WACH D22 DT CP	422.8	4,852				418.8	4,852
WUVC-DT D22 DT CP	36.3	1,140		12.1	375	12.1	375
WKPT-CD D22 DC LIC	4.0	183		4.0	183	4.0	183
WKPI-TV D23 DT CP	12.0	204		4.0	0	4.0	0
WARZ-CD D23 DC CP	4.0	177		0.0	0	0.0	0
WECT D23 DT CP	344.2	9,362		315.9	8,597	315.9	8,597
WFLI-TV D23 DT CP	12.0	526		12.0	526	12.0	526
WAPW-CD D23 DC CP	28.0	351		20.0	147	20.0	147
WCNC-TV D24 DT CP	215.7	8,244		215.7	8,244	215.7	8,244

Interference to proposal, scenario 1
5.79% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACH	D22	DT	CP	COLUMBIA, SC	WACH-CP-DA-425kW	
Undesireds:	WUNG-TV	D21	DT	CP	CONCORD, NC	BLANK0000025213	138.8 km
	WEBA-TV	D21	DT	CP	ALLENDALE, SC	BLANK0000025022	118.7

WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000028032	334.2
WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	234.9
WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000025149	225.0
WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	144.0

Service area		Terrain-limited		IX-free		Percent IX	
32913.8	1,593,182	32838.1	1,591,688	31414.3	1,499,506	4.34	5.79

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WUNG-TV D21 DT CP	83.2	17,553	0.0	0	0.00	0.00	
WEBA-TV D21 DT CP	135.5	2,977	27.9	547	0.08	0.03	
WHSG-TV D22 DT CP	44.1	574	12.0	58	0.04	0.00	
WJCL D22 DT LIC	387.6	5,836	247.9	2,890	0.75	0.18	
WUVC-DT D22 DT CP	365.6	23,295	286.4	3,292	0.87	0.21	
WBTV D23 DT LIC	698.0	81,568	602.8	57,485	1.84	3.61	