Displacement Application Narrative

Applicant respectfully submits the attached displacement application pursuant to the terms set forth in the *Special Displacement Window Public Notice.*[1] The applicant has used the *TVStudy* software to identify an available channel and verify the proposed will not cause harmful interference.

The station is eligible to participate in the Special Displacement Window by qualifying as both "operating" and "displaced" under the FCC's eligibility criteria[2] and does not move the stations facility more than 30 miles.

The interference analysis completed utilizing the *TVStudy* software indicates the proposed will cause less that 0.5% interference to Full Power and Class A stations, and less than 2% interference to other Low Power TV (LPTV) stations, therefore, it is grantable.

WMJN is on channel 29 and is being displaced by WBRC, Channel 29, Birmingham, AL. See below. The station will not begin operation until WAAY ceases operation on channel 32.

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Study created: 2018.05.25 10:30:43
Study build station data: LMS TV 2018-05-24 (70)

    Proposal: WMJN-LD D29 LD LIC HUNTSVILLE, RI
 File number: BLDTL20150126ABT
 Facility ID: 10593
Station data: User record
   Record ID: 1725
     Country: U.S.

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

Stations potentially affected by proposal:
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IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WIIW-LP	N14z	TX	LIC	NASHVILLE, TN	BLANK0000010767	186.4 km
No	W15AZ	N15-	TX	LIC	ALABASTER, AL	BLTTL19940809IB	142.1
No	WNAL-LD	N27-	TX	LIC	SCOTTSBORO, AL	BLTT20060126AEL	78.9
No	WUOA-LD	D28	LD	APP	BIRMINGHAM, AL	BLANK0000051651	114.3
Yes	WTTO	D28	DT	LIC	HOMEWOOD, AL	BLCDT20060406AAG	114.3
No	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	242.0
No	WMCF-TV	D28	DT	BL	MONTGOMERY, AL	DTVBL60829	242.0
No	WELF-TV	D28	DT	CP	DALTON, GA	BLANK0000026361	135.2
No	WELF-TV	D28	DT	BL	DALTON, GA	DTVBL60825	135.2
Yes	WBRC	D29	DT	CP	BIRMINGHAM, AL	BLANK0000034162	113.8
Yes	WBRC	D29	DT	BL	BIRMINGHAM, AL	DTVBL71221	113.8

No	WQMK-LD	D29	LD	APP	CUSSETA, AL	BLANK0000053343	243.6
No	WBIH	D29	DT	LIC	SELMA, AL	BLCDT20090619AAY	219.1
No	W29DT-D	D29	LD	LIC	TUSCALOOSA, AL	BLDTL20140304ADJ	184.2
No	W29DT-D	D29	LD	CP	TUSCALOOSA, AL	BPDTL20140808ABJ	184.2
No	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	390.8
No	WFBD	D29	DT	BL	DESTIN, FL	DTVBL81669	390.8
No	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	348.3
No	W29DN-D	D29	LD	CP	ATHENS, GA	BPDTL20140228AEM	315.7
No	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000030674	244.3
No	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTA20120402AMZ	243.7
No	WYGA-CD	D29	DC	BL	ATLANTA, GA	DTVBL168094	244.3
No	W43CW-D	D29	LD	APP	COLUMBUS, GA	BLANK0000052929	309.4
No	NEW	D29	LD	APP	MACON, GA	BNPDTT20090825BMS	349.8
No	NEW	D29	LD	APP	BOWLING GREEN, KY	BNPDTL20090825BHZ	304.9
No	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000034655	287.2
No	WKGB-TV	D29	DT	BL	BOWLING GREEN, KY	DTVBL34177	287.1
No	NEW	D29	LD	APP	GLASGOW, KY	BNPDTL20090825AQM	299.3
No	W08AO-D	D29	LD	APP	CANTON, NC	BDISDTT20090928ACC	377.4
No	W29DE-D	D29	LD	LIC	HAYESVILLE, NC	BLDTT20090210AAS	278.3
No	WSQY-LP	D29	LD	CP	SPARTANBURG, SC	BDISDTL20110824BCU	408.1
Yes	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	162.5
No	WKOP-TV	D29	DT	CP	KNOXVILLE, TN	BLANK0000024513	310.0
No	WKOP-TV	D29	DT	BL	KNOXVILLE, TN	DTVBL18267	310.0
Yes	W29DM-D	D29	LD	LIC	LEWISBURG, TN	BLDTL20120628ABM	104.2
No	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	280.5
No	WIIW-LD	D29	LD	CP	NASHVILLE, TN	BDISDTL20110831ABK	195.2
Yes	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	114.3
No	WDGA-CD	D30	DC	CP	DALTON, GA	BLANK0000028635	169.3
No	WDGA-CD	D30	DC	BL	DALTON, GA	DTVBL49235	169.3
No	W30DV-D	D30	LD	CP	AUBURN, MS	BNPDTL20100510AFY	165.1
No	W21BZ	N30-	TX	LIC	COLLEGEDALE, TN	BLTTL19990802JH	171.8
No	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	194.8
No	WNAB	D30	DT	BL	NASHVILLE, TN	DTVBL73310	194.8
No	WWHL-LP	N33-	TX	LIC	DECATUR, AL	BLTT20060817AEG	25.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Mask: Full Service

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   Latitude:  34 30 43.30 N (NAD83)
  Longitude:  86 50 55.00 W
Height AMSL: 368.0 m
       HAAT: 0.0 m
   Peak ERP: 7.75 kW
    Antenna: AND-AL8 (ID 16352) 0.0 deg
Elev Pattrn: Generic

50.2 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   7.75 kW   191.1 m   46.8 km
 45.0       6.24      193.0     45.8
 90.0       3.71      171.1     41.8
135.0       3.31      171.5     41.3
180.0       3.90      142.9     40.3
225.0       3.31      157.6     40.4
270.0       3.71      175.2     42.1
315.0       6.24      192.8     45.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 174 m

Distance to Canadian border: 875.6 km

Distance to Mexican border: 1353.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 109.7 degrees   Distance: 208.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.4 degrees   Distance: 1735.8 km


Study cell size: 1.00 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%

**IX check failure to BLANK0000034162 CP scenario 1, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 2, 1.86% interference caused
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**IX check failure to BLANK0000034162 CP scenario 3, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 4, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 5, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 6, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 7, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 8, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 9, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 10, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 11, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 12, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 13, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 14, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 15, 1.86% interference caused
**IX check failure to BLANK0000034162 CP scenario 16, 1.86% interference caused
**IX check failure to DTVBL71221 BL scenario 1, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 2, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 3, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 4, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 5, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 6, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 7, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 8, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 9, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 10, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 11, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 12, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 13, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 14, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 15, 1.66% interference caused
**IX check failure to DTVBL71221 BL scenario 16, 1.66% interference caused

---- Below is IX received by proposal BLDTL20150126ABT ----

Proposal receives 12.33% interference from scenario 1
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[1] *See Incentive Auction Task Force and Media Bureau Announce Post-Incentive Auction Special Displacement Window April 10, 2018, through May 15, 2018, and Make Location and Channel Data Available*, Public Notice, DA 18-124 (IATF & MB Feb. 9, 2018) ("*Special Displacement Window Public Notice*").

[2] *See id.* ¶ 5.