

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 01-23-2012 Time: 12:55:43

Record Selected for Analysis

WNCF-DT USERRECORD-01 MONTGOMERY AL US
Channel 31 ERP 720. kW HAAT 473. m RCAMSL 00554 m
Latitude 032-08-58 Longitude 0086-46-51
Status APP Zone 3 Border Site number: 01
Dir Antenna Make CDB Model 00000000076203 Beam tilt N Ref Azimuth 45.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) does not meet maximum height/power limits
Channel 31 ERP = 720.00 HAAT = 473.

Site number 1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	701.402	472.5	108.9
45.0	576.738	499.1	109.1
90.0	697.853	483.7	109.8
135.0	432.450	459.3	103.0
180.0	81.285	473.0	89.9
225.0	47.555	484.7	86.8
270.0	81.043	462.8	89.3
315.0	435.804	451.5	102.4

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

Class A Evaluation Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
31	WNCF-DT	MONTGOMERY AL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WIAT	BIRMINGHAM AL	148.4	LIC	BLCDT	20021219AAV
30	WLGA-DR	OPELIKA AL	188.0	APP	BPRM	20090722ACP
30	WLGA	OPELIKA AL	188.0	CP	BPCDT	20091105ADF
31	WSRE	PENSACOLA FL	188.1	LIC	BLEDT	20060621AAS
31	WDMA-CA	MACON GA	301.4	APP	BDISDTA	20110826ADW
31	WDMA-CA	MACON GA	301.4	LIC	BLTTA	20060321ABK
31	WLAE-TV	NEW ORLEANS LA	386.2	LIC	BLEDT	20090205AAL
31	WGBC	MERIDIAN MS	180.8	LIC	BLCDT	20071024AAK

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WIAT	BIRMINGHAM AL	BLCDT	-20021219AAV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WBIH	SELMA AL	105.0	LIC	BLCDT	-20090619AAY
30	WLGA-DR	OPELIKA AL	228.3	APP	BPRM	-20090722ACP
30	WLGA	OPELIKA AL	228.3	CP	BPCDT	-20091105ADF
30	WLBT	JACKSON MS	362.5	LIC	BLCDT	-20100119AEE
30	WLBT-DR	JACKSON MS	362.5	APP	BPRM	-20090813ADM
30	WVLT-TV	KNOXVILLE TN	381.7	LIC	BLCDT	-20040420AAF
30	WVLT-TV	KNOXVILLE TN	381.7	CP	BPCDT	-20080618AAM
31	WNCF-DR	MONTGOMERY AL	148.4	APP	BPRM	-20110531ATU
31	WGBC	MERIDIAN MS	217.9	LIC	BLCDT	-20071024AAK
31	WNCF-DT	MONTGOMERY AL	148.4	APP	USERRECORD-01	

Total scenarios = 18

Result key: 2
Scenario 2 Affected station 1

Before Analysis

Results for: 30A AL BIRMINGHAM BLC DT 20021219AAV LIC
HAAT 426.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1724395	32961.0
not affected by terrain losses	1693417	31764.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22247	1466.7
lost to ATV IX only	22247	1466.7
lost to all IX	22247	1466.7

Potential Interfering Stations Included in above Scenario 2

29A AL SELMA	BLC DT	20090619AAV	LIC
30A AL OPELIKA	BPC DT	20091105ADF	CP
30A MS JACKSON	BLC DT	20100119AEE	LIC
30A TN KNOXVILLE	BPC DT	20080618AAM	CP

After Analysis

Results for: 30A AL BIRMINGHAM BLC DT 20021219AAV LIC
HAAT 426.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1724395	32961.0
not affected by terrain losses	1693417	31764.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22469	1519.1
lost to ATV IX only	22469	1519.1
lost to all IX	22469	1519.1

Potential Interfering Stations Included in above Scenario 2

29A AL SELMA	BLC DT	20090619AAV	LIC
30A AL OPELIKA	BPC DT	20091105ADF	CP
30A MS JACKSON	BLC DT	20100119AEE	LIC
30A TN KNOXVILLE	BPC DT	20080618AAM	CP
31A AL MONTGOMERY	USERRECORD01		APP

Percent new IX = 0.0133%

Worst case new IX 0.0133% Scenario 2

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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30 WLGA-DR OPELIKA AL BPRM -20090722ACP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WBIH	SELMA AL	194.0	LIC	BLCDT	-20090619AAY
30	WIAT	BIRMINGHAM AL	228.3	LIC	BLCDT	-20021219AAV
30	WLGA	OPELIKA AL	0.0	CP	BPCDT	-20091105ADF
30	WAGT	AUGUSTA GA	301.3	LIC	BLCDT	-20030530AON
30	WVLT-TV	KNOXVILLE TN	415.6	LIC	BLCDT	-20040420AAF
30	WVLT-TV	KNOXVILLE TN	415.6	CP	BPCDT	-20080618AAM
31	WNCF-DR	MONTGOMERY AL	188.0	APP	BPRM	-20110531ATU
31	WNCF-DT	MONTGOMERY AL	188.0	APP	USERRECORD	-01

Total scenarios = 3

Result key: 19
Scenario 1 Affected station 2
Before Analysis

Results for: 30A AL OPELIKA BPRM 20090722ACP APP
HAAT 532.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1223474	42287.5
not affected by terrain losses	1208716	41767.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1117195	38074.4
lost to ATV IX only	1117195	38074.4
lost to all IX	1117195	38074.4

Potential Interfering Stations Included in above Scenario 1

29A AL SELMA	BLCDT	20090619AAY	LIC
30A AL BIRMINGHAM	BLCDT	20021219AAV	LIC
30A AL OPELIKA	BPCDT	20091105ADF	CP
30A GA AUGUSTA	BLCDT	20030530AON	LIC

After Analysis

Results for: 30A AL OPELIKA BPRM 20090722ACP APP
HAAT 532.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1223474	42287.5
not affected by terrain losses	1208716	41767.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1117195	38074.4
lost to ATV IX only	1117195	38074.4
lost to all IX	1117195	38074.4

Potential Interfering Stations Included in above Scenario 1

29A AL SELMA	BLCDT	20090619AAY	LIC
30A AL BIRMINGHAM	BLCDT	20021219AAV	LIC
30A AL OPELIKA	BPCDT	20091105ADF	CP
30A GA AUGUSTA	BLCDT	20030530AON	LIC
31A AL MONTGOMERY	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WLGA	OPELIKA AL	BPCDT	-20091105ADF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WBIH	SELMA AL	194.0	LIC	BLCDT	-20090619AAY
30	WIAT	BIRMINGHAM AL	228.3	LIC	BLCDT	-20021219AAV
30	WLGA-DR	OPELIKA AL	0.0	APP	BPRM	-20090722ACP
30	WAGT	AUGUSTA GA	301.3	LIC	BLCDT	-20030530AON
30	WVLT-TV	KNOXVILLE TN	415.6	LIC	BLCDT	-20040420AAF
30	WVLT-TV	KNOXVILLE TN	415.6	CP	BPCDT	-20080618AAM
31	WNCF-DR	MONTGOMERY AL	188.0	APP	BPRM	-20110531ATU
31	WNCF-DT	MONTGOMERY AL	188.0	APP	USERRECORD-01	

Total scenarios = 5

Result key: 22

Scenario 1 Affected station 3

Before Analysis

Results for: 30A AL OPELIKA BPCDT 20091105ADF CP

HAAT 532.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1223474	42287.5
not affected by terrain losses	1208716	41767.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	29687	927.3
lost to ATV IX only	29687	927.3
lost to all IX	29687	927.3

Potential Interfering Stations Included in above Scenario 1

29A AL SELMA	BLCDT	20090619AAY	LIC
30A AL BIRMINGHAM	BLCDT	20021219AAV	LIC
30A GA AUGUSTA	BLCDT	20030530AON	LIC

After Analysis

Results for: 30A AL OPELIKA BPCDT 20091105ADF CP
HAAT 532.0 m, ATV ERP 800.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1223474	42287.5
not affected by terrain losses	1208716	41767.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	30152	975.6
lost to ATV IX only	30152	975.6
lost to all IX	30152	975.6

Potential Interfering Stations Included in above Scenario 1

29A AL SELMA	BLCDT	20090619AAY	LIC
30A AL BIRMINGHAM	BLCDT	20021219AAV	LIC
30A GA AUGUSTA	BLCDT	20030530AON	LIC
31A AL MONTGOMERY	USERRECORD01		APP

Percent new IX = 0.0394%

Worst case new IX 0.0394% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	WSRE	PENSACOLA FL	BLEDT	-20060621AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
31	WNCF-DR	MONTGOMERY AL	188.1	APP	BPRM	-20110531ATU
31	WLAE-TV	NEW ORLEANS LA	235.6	LIC	BLEDT	-20090205AAL
31	WGBC	MERIDIAN MS	216.7	LIC	BLCDT	-20071024AAK
32	WNCF	MONTGOMERY AL	188.8	LIC	BLCDT	-20090428ABG
32	WNCF	MONTGOMERY AL	188.8	CP MOD	BMPCDT	-20080619AHK
31	WNCF-DT	MONTGOMERY AL	188.1	APP	USERRECORD-01	

Total scenarios = 3

Result key: 33

Scenario 1 Affected station 5

Before Analysis

Results for: 31A FL PENSACOLA BLEDT 20060621AAS LIC
HAAT 549.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1254908	33537.8
not affected by terrain losses	1254675	33485.8

lost to NTSC IX	0	0.0
lost to additional IX by ATV	473	116.0
lost to ATV IX only	473	116.0
lost to all IX	473	116.0

Potential Interfering Stations Included in above Scenario 1

31A MS MERIDIAN BLCDT 20071024AAK LIC

After Analysis

Results for: 31A FL PENSACOLA BLEDT 20060621AAS LIC

HAAT 549.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1254908	33537.8
not affected by terrain losses	1254675	33485.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5705	744.0
lost to ATV IX only	5705	744.0
lost to all IX	5705	744.0

Potential Interfering Stations Included in above Scenario 1

31A MS MERIDIAN BLCDT 20071024AAK LIC

31A AL MONTGOMERY USERRECORD01 APP

Percent new IX = 0.4172%

Worst case new IX 0.4172% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	WDMA-CA	MACON GA	BDISDTA -20110826ADW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
30	WLGA-DR	OPELIKA AL	119.7	APP	BPRM -20090722ACP
30	WLGA	OPELIKA AL	119.7	CP	BPCDT -20091105ADF
31	WAXC-LD	ALEXANDER CITY AL	212.3	LIC	BLDTL -20110329ABN
31	WNCF-DR	MONTGOMERY AL	301.4	APP	BPRM -20110531ATU
31	W31DS-D	ASHBURN GA	122.1	CP	BNPDTL -20100510ABE
31	WSB-TV	ATHENS GA	121.6	LIC	BLCDT -20100429ADZ
31	WANN-CA	ATLANTA GA	124.0	APP	BDISDTL -20091015ABG
31	WANN-CA	ATLANTA GA	124.0	CP	BDISTTL -20091125AFY
31	WFXG-DR	AUGUSTA GA	182.5	APP	BPRM -20080620AON
31	WRDW-DR	AUGUSTA GA	181.5	APP	BPRM -20110503AER
31	WFXG	AUGUSTA GA	182.5	CP	BPCDT -20090303ABA

32	WPGA-TV	PERRY GA	14.6	APP	BPCDT	-20111125IEF
32	WPGA-TV	PERRY GA	14.6	LIC	BLCDT	-20071213AAD
32	WPGA-TV	PERRY GA	14.6	CP MOD	BMPCDT	-20080619AER
31	WNCF-DT	MONTGOMERY AL	301.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	WDMA-CA	MACON GA	BLTTA -20060321ABK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	WJSP-TV	COLUMBUS GA	96.1	LIC	BLEDT -20080521AAH
27	WAGA-TV	ATLANTA GA	122.7	LIC	BLCDT -20060728AEL
30	WLGA-DR	OPELIKA AL	119.7	APP	BPRM -20090722ACP
30	WLGA	OPELIKA AL	119.7	CP	BPCDT -20091105ADF
31	WNCF-DR	MONTGOMERY AL	301.4	APP	BPRM -20110531ATU
31	WSB-TV	ATHENS GA	121.5	LIC	BLCDT -20100429ADZ
31	WANN-CA	ATLANTA GA	123.9	APP	BDISDTL -20091015ABG
31	WANN-CA	ATLANTA GA	123.9	CP	BDISTTL -20091125AFY
31	WFXG-DR	AUGUSTA GA	182.5	APP	BPRM -20080620AON
31	WRDW-DR	AUGUSTA GA	181.5	APP	BPRM -20110503AER
31	WFXG	AUGUSTA GA	182.5	CP	BPCDT -20090303ABA
32	WPGA-TV	PERRY GA	14.7	APP	BPCDT -20111125IEF
32	WPGA-TV	PERRY GA	14.7	LIC	BLCDT -20071213AAD
32	WPGA-TV	PERRY GA	14.7	CP MOD	BMPCDT -20080619AER
35	WLTZ	COLUMBUS GA	121.3	LIC	BLCDT -20060627ABT
39	WSB-TV	ATLANTA GA	120.9	LIC	BLCDT -20100129ADE
45	WGNM	MACON GA	13.6	LIC	BLCDT -20050621CRQ
31	WNCF-DT	MONTGOMERY AL	301.4	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	WLAE-TV	NEW ORLEANS LA	BLEDT -20090205AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	WNCF-DR	MONTGOMERY AL	386.2	APP	BPRM -20110531ATU
31	WSRE	PENSACOLA FL	235.6	LIC	BLEDT -20060621AAS
31	KLAX-TV	ALEXANDRIA LA	304.1	LIC	BLCDT -20090622AGN

31 WGBC MERIDIAN MS 286.9 LIC BLCDT -20071024AAK
31 WNCF-DT MONTGOMERY AL 386.2 APP USERRECORD-01
Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	WGBC	MERIDIAN MS	BLCDT	-20071024AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WIAT	BIRMINGHAM AL	217.9	LIC	BLCDT	-20021219AAV
30	WLBT	JACKSON MS	159.4	LIC	BLCDT	-20100119AEE
30	WLBT-DR	JACKSON MS	159.4	APP	BPRM	-20090813ADM
31	WNCF-DR	MONTGOMERY AL	180.8	APP	BPRM	-20110531ATU
31	WSRE	PENSACOLA FL	216.7	LIC	BLEDT	-20060621AAS
31	KLAX-TV	ALEXANDRIA LA	373.6	LIC	BLCDT	-20090622AGN
31	WLAE-TV	NEW ORLEANS LA	286.9	LIC	BLEDT	-20090205AAL
31	WLMT	MEMPHIS TN	342.7	LIC	BLCDT	-20050427ABN
32	WNCF	MONTGOMERY AL	184.2	LIC	BLCDT	-20090428ABG
32	WNCF	MONTGOMERY AL	184.2	CP MOD	BMPCDT	-20080619AHK
32	WABG-TV	GREENWOOD MS	208.0	LIC	BLCDT	-20051024ABR
31	WNCF-DT	MONTGOMERY AL	180.8	APP	USERRECORD-01	

Total scenarios = 5

Result key: 36
Scenario 1 Affected station 9
Before Analysis

Results for: 31A MS MERIDIAN BLCDT 20071024AAK LIC
HAAT 165.0 m, ATV ERP 828.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	250034	17941.4
not affected by terrain losses	249818	17852.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	800	141.0
lost to ATV IX only	800	141.0
lost to all IX	800	141.0

Potential Interfering Stations Included in above Scenario 1

30A MS JACKSON	BLCDT	20100119AEE	LIC
31A FL PENSACOLA	BLEDT	20060621AAS	LIC
31A TN MEMPHIS	BLCDT	20050427ABN	LIC

After Analysis

Results for: 31A MS MERIDIAN BLCDT 20071024AAK LIC
HAAT 165.0 m, ATV ERP 828.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	250034	17941.4
not affected by terrain losses	249818	17852.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2037	580.3
lost to ATV IX only	2037	580.3
lost to all IX	2037	580.3

Potential Interfering Stations Included in above Scenario 1

30A MS JACKSON	BLCDT	20100119AEE	LIC
31A FL PENSACOLA	BLEDT	20060621AAS	LIC
31A TN MEMPHIS	BLCDT	20050427ABN	LIC
31A AL MONTGOMERY	USERRECORD01		APP

Percent new IX = 0.4968%

Worst case new IX 0.4968% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
31	WNCF-DT	MONTGOMERY AL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
30	WIAT	BIRMINGHAM AL	148.4	LIC	BLCDT -20021219AAV
30	WLGA	OPELIKA AL	188.0	CP	BPCDT -20091105ADF
31	WSRE	PENSACOLA FL	188.1	LIC	BLEDT -20060621AAS
31	WLAE-TV	NEW ORLEANS LA	386.2	LIC	BLEDT -20090205AAL
31	WGBC	MERIDIAN MS	180.8	LIC	BLCDT -20071024AAK

Total scenarios = 1

Result key: 54

Scenario 1 Affected station 12

Before Analysis

Results for: 31A AL MONTGOMERY USERRECORD01 APP
HAAT 473.0 m, ATV ERP 720.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	642358	32253.1
not affected by terrain losses	637322	31962.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	35915	2490.3

lost to ATV IX only	35915	2490.3
lost to all IX	35915	2490.3

Potential Interfering Stations Included in above Scenario 1

30A AL BIRMINGHAM	BLCDT	20021219AAV	LIC
30A AL OPELIKA	BPCDT	20091105ADF	CP
31A FL PENSACOLA	BLEDT	20060621AAS	LIC
31A MS MERIDIAN	BLCDT	20071024AAK	LIC

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