

TECHNICAL EXHIBIT
DTV MAXIMIZATION APPLICATION
STATION WBIH(DT)
SELMA, ALABAMA
CH 29 1000 KW (MAX-DA) 408 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WBIH(DT) for its "maximized" DTV operation at Selma, Alabama. This application requests a construction permit (CP) for WBIH(DT) digital television operation on channel 29 at Selma with a directional effective radiated power of 1000 kilowatts. WBIH(DT) intends to reuse its authorized DTV construction permit facility directional transmitting antenna (Dielectric TFU-29JTT-RS360) for digital operation.

Proposed Facilities

Station WBIH(DT) proposes to operate DTV channel 29 from its authorized DTV facility. The antenna height above average terrain for the channel 29 DTV operation will be 408 meters. The proposed WBIH(DT) effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions for WBIH(DT).¹ Therefore, an allocation study was completed to ensure no prohibited interference would occur.

¹ See Seventh Report And Order And Eighth Further Notice Of Proposed Rule Making in the Matter of Advanced Television Systems and their Impact Upon the Existing Television Broadcast Service, MB Docket 87-268, Released August 6, 2007; Adopted August 1, 2007.

The proposed DTV transmitter site will be located atop the WBIH(DT) tower. Therefore, the proposed site location is:

32° 32' 26" North Latitude
86° 50' 33" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1.

The Appendix contains the vertical and horizontal plane radiation pattern for the proposed antenna system.

Figure 2 is a map showing the proposed DTV predicted coverage contour and the associated DTV appendix B Noise-Limited coverage contour. The extent of the contours have been calculated using the normal FCC prediction method.

Population Served

The herein proposed WBIH(DT) "maximized" facility is predicted to serve 625,385 persons, post-transition based upon the 2000 Census. WBIH(DT)'s associated Appendix B facility is predicted to serve 621,000 persons. Therefore, the herein proposed WBIH(DT) facility would serve more than 100% of WBIH(DT)'s Appendix B population.

Allocation Considerations

The proposed WBIH(DT) Channel 29 facility meets the requirements of Section 73.623 of the FCC Rules concerning

predicted interference to other Appendix B DTV allotments. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules; OET Bulletin No. 69; and published FCC guidelines for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the software developed by du Treil, Lundin & Rackley, Inc. based on the FCC published software routines.² Stations selected for analysis were determined pursuant to the distance requirements outlined in the FCC DTV Processing Guidelines Public Notice. The results of the interference analyses for the proposed WBIH(DT) facility are summarized herein at Figure 3. As indicated therein, the proposed facility will meet the 0.5% criterion outlined in the FCC Rules and published guidelines with respect to all considered stations.³

Radiofrequency Electromagnetic Field Exposure

The proposed WBIH(DT) facilities were evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level to workers and the general public. The radiation center for the proposed WBIH(DT) antenna is located 360 meters above ground level. The maximum effective radiated power is 1000. A "worst case" downward relative field value of 0.25 is assumed for the antenna's downward radiation. The calculated power density at a

2 The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed.

3 Interference analysis results reflect the net change in interference to a given station considering the interference predicted to occur from all other stations (i.e. "masking") including the allotment facility for WBIH(DT). This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

point 2 meters above ground level is 0.016 mW/cm^2 . This is less than 5 percent of the Commission's recommended limit of 0.38 mW/cm^2 for channel 29 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed WBIH(DT) operation appears to be otherwise categorically excluded from environmental processing.

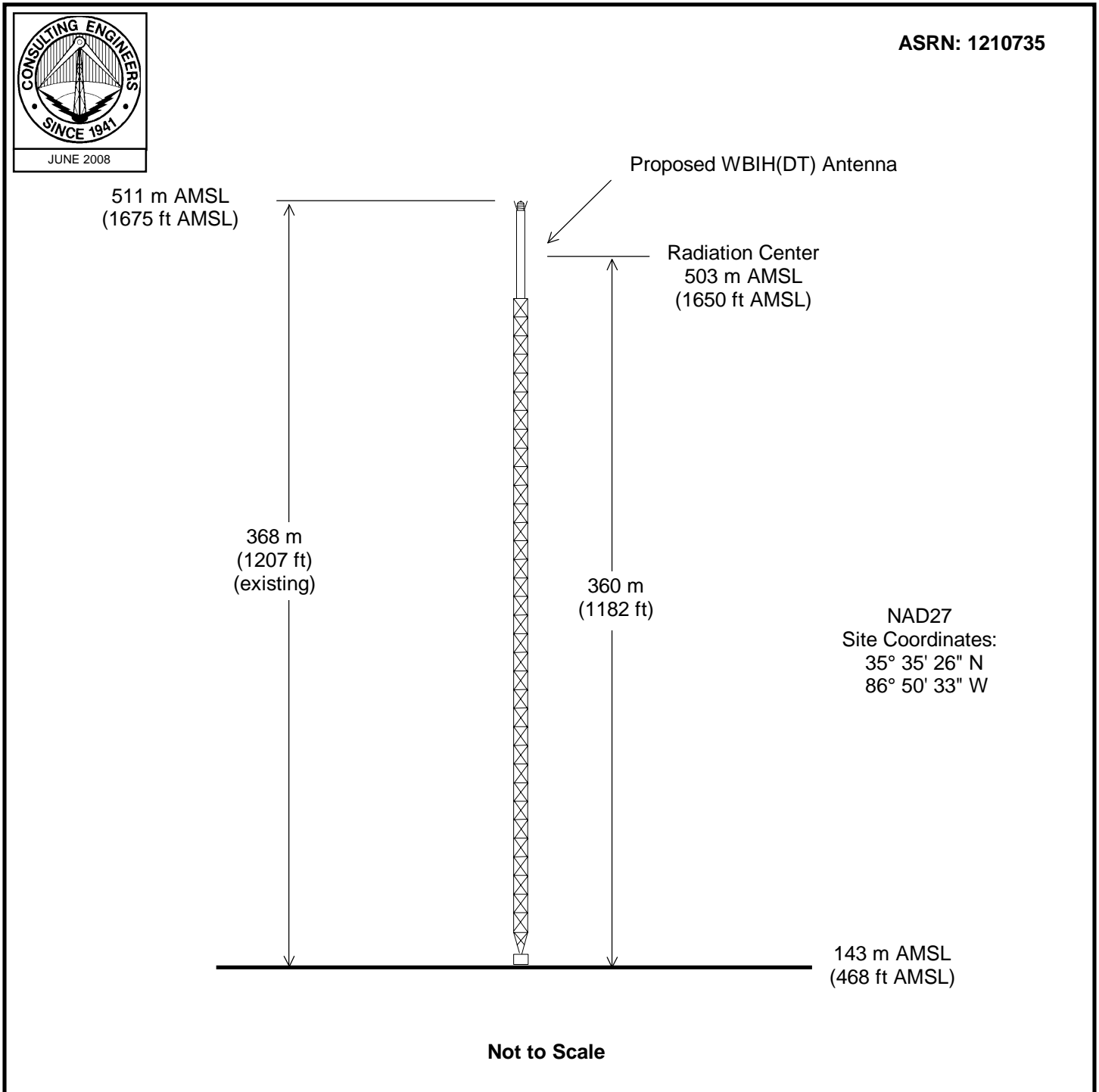
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

Charles Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
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June 16, 2008

Figure 1



ANTENNA AND SUPPORTING STRUCTURE

DTV STATION WBIH(DT)

SELMA, ALABAMA

CH 29 1000 KW (MAX-DA) 408 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2

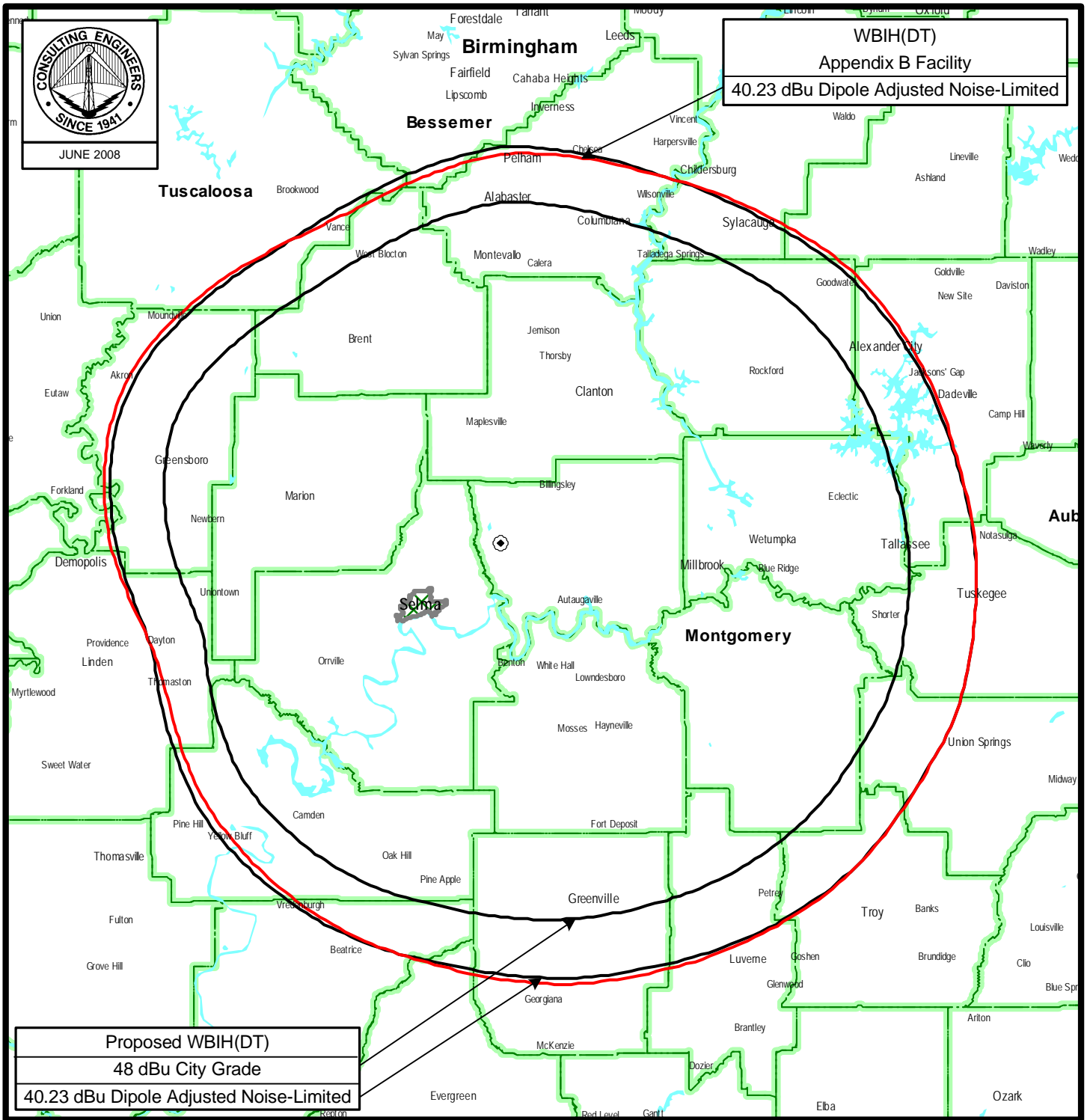


Figure 3

TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-16-2008 Time: 10:15:05

Record Selected for Analysis

WBIH USERRECORD-01 SELMA AL US
Channel 29 ERP 1000. kW HAAT 405. m RCAMSL 00503 m
Latitude 032-32-26 Longitude 0086-50-33
Status APP Zone 2 Border
Dir Antenna Make CDB Model 0000000084950 Beam tilt N Ref Azimuth 0.
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 does not meet maximum height/power limits
Channel 29 ERP = 1000.00 HAAT = 405.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	106.276	375.7	86.2
45.0	209.764	402.0	92.8
90.0	833.569	383.5	102.9
135.0	748.225	409.3	104.1
180.0	179.776	443.1	94.0
225.0	90.902	434.7	88.5
270.0	60.025	399.1	83.8
315.0	47.961	391.1	81.8

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Figure 3

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 1.99km from AM station
BRANTLEY AL NEW Status: Antenna: DA2

Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN
29	WBIH	SELMA AL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	W15AZ	ALABASTER AL	77.3	LIC	BLTTL	-19940809IB
25	WJMY-CA	DEMOPOLIS AL	81.4	LIC	BLTTA	-20050404ADB
25	WJMY-CA	DEMOPOLIS AL	81.4	APP	BSTA	-20060928AEP
28	WTTO	HOMEWOOD AL	105.0	CP MOD	BMPCDT	-20041104AMB
28	WTTO	HOMEWOOD AL	105.0	PLN	DTVPLN	-DTVP1027
29	WTCL	CHATTANOOGA TN	329.6	LIC	BLEDT	-20060629ACO
29	WTCL	CHATTANOOGA TN	329.6	PLN	DTVPLN	-DTVP1093
29	WKNO	MEMPHIS TN	400.0	CP MOD	BMPEDT	-20021112ACA
29	WKNO	MEMPHIS TN	400.0	PLN	DTVPLN	-DTVP1094
29	WKNO	MEMPHIS TN	400.0	LIC	BLEDT	-20060627ABE
30	WIAT	BIRMINGHAM AL	105.0	LIC	BLCDT	-20021219AAV
30	WIAT	BIRMINGHAM AL	105.0	PLN	DTVPLN	-DTVP1098

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	W15AZ	ALABASTER AL	BLTTL	-19940809IB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WHDF	FLORENCE AL	199.2	LIC	BLCT	-20050902ABG
15	W15AP	GADSDEN AL	95.8	LIC	BLTTL	-19901210JQ
15	WPML-TV	MOBILE AL	301.7	LIC	BLCT	-20050406ABY
15	WPML-TV	MOBILE AL	301.7	PLN	DTVPLN	-DTVP0517
15	WPML-TV	MOBILE AL	301.7	CP	BPCDT	-20080304AAB
15	WRBL	COLUMBUS GA	212.2	CP MOD	BMPCDT	-20060410AEC
15	WRBL	COLUMBUS GA	213.0	PLN	DTVPLN	-DTVP0526
15	WXVT	GREENVILLE MS	366.5	CP	BPCT	-20041124AEU
15	WXVT	GREENVILLE MS	366.5	PLN	DTVPLN	-DTVP0536
15	WXVT	GREENVILLE MS	366.5	CP	BPCDT	-20080303ACC

Figure 3

15	WZTV	NASHVILLE TN	336.8	LIC	BLCDDT	-20050309ACM
15	WZTV	NASHVILLE TN	336.8	PLN	DTVPLN	-DTVP0547
18	WDBB	BESSEMER AL	63.4	LIC	BLCDDT	-20060421ABG
18	WDBB	BESSEMER AL	63.4	PLN	DTVPLN	-DTVP0628
19	WIIQ	DEMOPOLIS AL	140.0	LIC	BLEDT	-20031023AAI
19	WIIQ	DEMOPOLIS AL	140.0	PLN	DTVPLN	-DTVP0663
29	WBIH	SELMA AL	77.2	LIC	BLCT	-20010928ACT
29	WBIH	SELMA AL	77.2	PLN	DTVPLN	-DTVP1064
29	WBIH	SELMA AL	77.3	CP	BPCDDT	-20080226ABK
30	WIAT	BIRMINGHAM AL	27.9	LIC	BLCDDT	-20021219AAV
30	WIAT	BIRMINGHAM AL	27.9	PLN	DTVPLN	-DTVP1098
29	WBIH	SELMA AL	77.3	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record
Channel Call City/State Application Ref. No.
25 WJMY-CA DEMOPOLIS AL BLTTA -20050404ADB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDDT -20060421ABG
18	WDBB	BESSEMER AL	69.9	PLN	DTVPLN -DTVP0628
23	WUOA	TUSCALOOSA AL	20.5	LIC	BLCT -20011109ACV
24	WMDN	MERIDIAN MS	117.9	LIC	BLCT -19811002KE
24	WMDN	MERIDIAN MS	117.9	PLN	DTVPLN -DTVP0891
24	920429KI	MERIDIAN MS	117.9	APP	BPCT -19920429KI
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL -20061226AAF
25	WBPB	GULF SHORES AL	251.9	CP	BPCDDT -20080313AAU
25	WBPB	GULF SHORES AL	251.9	PLN	DTVPLN -DTVP0913
25	WHIQ	HUNTSVILLE AL	229.7	LIC	BLEDT -20050228AAT
25	WHIQ	HUNTSVILLE AL	229.7	APP	BSTA -20071102ATA
25	W25DR	JASPER AL	111.2	LIC	BLTT -20070112AHS
25	WATL	ATLANTA GA	321.2	LIC	BLCDDT -20020716AAH
25	WATL	ATLANTA GA	321.2	PLN	DTVPLN -DTVP0919
25	WACS-TV	DAWSON GA	305.6	CP	BPET -20080219AFD
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT -20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	CP	BPEDT -20000501AHB
25	WMAO-TV	GREENWOOD MS	278.1	PLN	DTVPLN -DTVP0928
25	WXXV-TV	GULFPORT MS	273.3	LIC	BLCT -19870224KG
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDDT -20050628AAP
25	WPTY-TV	MEMPHIS TN	332.7	PLN	DTVPLN -DTVP0937
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT -20060706ACK
27	WAIQ	MONTGOMERY AL	135.5	PLN	DTVPLN -DTVP0986
28	WTTO	HOMWOOD AL	101.0	CP MOD	BMPDDT -20041104AMB
28	WTTO	HOMWOOD AL	101.0	PLN	DTVPLN -DTVP1027
29	WBIH	SELMA AL	81.4	LIC	BLCT -20010928ACT
29	WBIH	SELMA AL	81.4	PLN	DTVPLN -DTVP1064
29	WBIH	SELMA AL	81.4	CP	BPCDDT -20080226ABK

Figure 3

32	WNCF	MONTGOMERY AL	115.5	PLN	DTVPLN	-DTVP1167
33	WCFT-TV	TUSCALOOSA AL	69.1	CP	BPCDDT	-20080509ABU
33	WCFT-TV	TUSCALOOSA AL	69.1	PLN	DTVPLN	-DTVP1206
39	960724KV	TUSCALOOSA AL	69.9	APP	BPET	-19960724KV
40	WJSU-TV	ANNISTON AL	137.7	LIC	BLCT	-19971009KE
29	WBIH	SELMA AL	81.4	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record
Channel Call City/State Application Ref. No.
25 WJMY-CA DEMOPOLIS AL BSTA -20060928AEP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDDT -20060421ABG
18	WDBB	BESSEMER AL	69.9	PLN	DTVPLN -DTVP0628
24	WMDN	MERIDIAN MS	117.9	LIC	BLCT -19811002KE
24	WMDN	MERIDIAN MS	117.9	PLN	DTVPLN -DTVP0891
24	920429KI	MERIDIAN MS	117.9	APP	BPCT -19920429KI
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL -20061226AAF
25	WBPB	GULF SHORES AL	251.9	CP	BPCDDT -20080313AAU
25	WBPB	GULF SHORES AL	251.9	PLN	DTVPLN -DTVP0913
25	WHIQ	HUNTSVILLE AL	229.7	LIC	BLEDT -20050228AAT
25	WHIQ	HUNTSVILLE AL	229.7	APP	BSTA -20071102ATA
25	W25DR	JASPER AL	111.2	LIC	BLTT -20070112AHS
25	WATL	ATLANTA GA	321.2	LIC	BLCDDT -20020716AAH
25	WATL	ATLANTA GA	321.2	PLN	DTVPLN -DTVP0919
25	WACS-TV	DAWSON GA	305.6	CP	BPET -20080219AFD
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT -20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	CP	BPEDT -20000501AHB
25	WMAO-TV	GREENWOOD MS	278.1	PLN	DTVPLN -DTVP0928
25	WXXV-TV	GULFPORT MS	273.3	LIC	BLCT -19870224KG
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDDT -20050628AAP
25	WPTY-TV	MEMPHIS TN	332.7	PLN	DTVPLN -DTVP0937
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT -20060706ACK
27	WAIQ	MONTGOMERY AL	135.5	PLN	DTVPLN -DTVP0986
28	WTTO	HOMWOOD AL	101.0	CP MOD	BMPDDT -20041104AMB
28	WTTO	HOMWOOD AL	101.0	PLN	DTVPLN -DTVP1027
29	WBIH	SELMA AL	81.4	PLN	DTVPLN -DTVP1064
29	WBIH	SELMA AL	81.4	CP	BPCDDT -20080226ABK
32	WNCF	MONTGOMERY AL	115.5	PLN	DTVPLN -DTVP1167
33	WCFT-TV	TUSCALOOSA AL	69.1	CP	BPCDDT -20080509ABU
33	WCFT-TV	TUSCALOOSA AL	69.1	PLN	DTVPLN -DTVP1206
39	960724KV	TUSCALOOSA AL	69.9	APP	BPET -19960724KV
40	WJSU-TV	ANNISTON AL	137.7	LIC	BLCT -19971009KE
29	WBIH	SELMA AL	81.4	APP	USERRECORD-01

Proposed station is beyond the site to

Figure 3

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nearest cell evaluation distance

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Analysis of Interference to Affected Station  4

Analysis of current record
Channel      Call      City/State      Application Ref. No.
  28      WTTO      HOMEWOOD AL      BMPCDT      -20041104AMB

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
 27  WAIQ      MONTGOMERY AL      131.6  LIC      BLEDT      -20060706ACK
 27  WAIQ      MONTGOMERY AL      131.6  PLN      DTVPLN     -DTVP0986
 28  WDAM-TV   LAUREL MS         323.9  LIC      BLCDT      -20020426ABB
 28  WDAM-TV   LAUREL MS         323.9  PLN      DTVPLN     -DTVP1046
 28  WREG-TV   MEMPHIS TN         335.6  LIC      BLCDT      -20050513AAE
 28  WREG-TV   MEMPHIS TN         335.6  PLN      DTVPLN     -DTVP1057
 29  WBIH      SELMA AL          104.9  PLN      DTVPLN     -DTVP1064
 29  WBIH      SELMA AL          105.0  APP      USERRECORD-01

Total scenarios =  4

Result key:      1
Scenario      1  Affected station      4
Before Analysis

Results for: 28A AL HOMEWOOD      BMPCDT      20041104AMB  CP
  HAAT  427.0 m, ATV ERP  765.0 kW
                POPULATION  AREA (sq km)
  within Noise Limited Contour      1709362      33148.4
  not affected by terrain losses      1679575      32083.7
  lost to NTSC IX                      0           0.0
  lost to additional IX by ATV          15457      1274.3
  lost to ATV IX only                   15457      1274.3
  lost to all IX                       15457      1274.3

Potential Interfering Stations Included in above Scenario  1

27A AL MONTGOMERY      BLEDT      20060706ACK  LIC
28A TN MEMPHIS         BLCDT      20050513AAE  LIC
29A AL SELMA           DTVPLN     DTVP1064      PLN

After Analysis

Results for: 28A AL HOMEWOOD      BMPCDT      20041104AMB  CP
  HAAT  427.0 m, ATV ERP  765.0 kW
                POPULATION  AREA (sq km)
  within Noise Limited Contour      1709362      33148.4
  not affected by terrain losses      1679575      32083.7
  lost to NTSC IX                      0           0.0
  lost to additional IX by ATV          15113      1246.1
  lost to ATV IX only                   15113      1246.1

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Figure 3

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lost to all IX      15113      1246.1

Potential Interfering Stations Included in above Scenario  1

27A AL MONTGOMERY      BLEDT      20060706ACK  LIC
28A TN MEMPHIS         BLCDT      20050513AAE  LIC
29A AL SELMA           USERRECORD01      APP

Percent new IX =  -0.0207%

Result key:      2
Scenario      2  Affected station      4
Before Analysis

Results for: 28A AL HOMEWOOD      BMPCDT      20041104AMB  CP
  HAAT  427.0 m, ATV ERP  765.0 kW
                POPULATION  AREA (sq km)
  within Noise Limited Contour      1709362      33148.4
  not affected by terrain losses      1679575      32083.7
  lost to NTSC IX                      0           0.0
  lost to additional IX by ATV          15497      1278.3
  lost to ATV IX only                   15497      1278.3
  lost to all IX                       15497      1278.3

Potential Interfering Stations Included in above Scenario  2

27A AL MONTGOMERY      BLEDT      20060706ACK  LIC
28A TN MEMPHIS         DTVPLN     DTVP1057      PLN
29A AL SELMA           DTVPLN     DTVP1064      PLN

After Analysis

Results for: 28A AL HOMEWOOD      BMPCDT      20041104AMB  CP
  HAAT  427.0 m, ATV ERP  765.0 kW
                POPULATION  AREA (sq km)
  within Noise Limited Contour      1709362      33148.4
  not affected by terrain losses      1679575      32083.7
  lost to NTSC IX                      0           0.0
  lost to additional IX by ATV          15153      1250.1
  lost to ATV IX only                   15153      1250.1
  lost to all IX                       15153      1250.1

Potential Interfering Stations Included in above Scenario  2

27A AL MONTGOMERY      BLEDT      20060706ACK  LIC
28A TN MEMPHIS         DTVPLN     DTVP1057      PLN
29A AL SELMA           USERRECORD01      APP

Percent new IX =  -0.0207%

Result key:      3
Scenario      3  Affected station      4
Before Analysis

Results for: 28A AL HOMEWOOD      BMPCDT      20041104AMB  CP
  HAAT  427.0 m, ATV ERP  765.0 kW
                POPULATION  AREA (sq km)

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Figure 3

within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15457	1274.3
lost to ATV IX only	15457	1274.3
lost to all IX	15457	1274.3

Potential Interfering Stations Included in above Scenario 3

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 28A AL HOMEWOOD BMPCDDT 20041104AMB CP

HAAT 427.0 m, ATV ERP 765.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15113	1246.1
lost to ATV IX only	15113	1246.1
lost to all IX	15113	1246.1

Potential Interfering Stations Included in above Scenario 3

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0207%

Result key: 4

Scenario 4 Affected station 4

Before Analysis

Results for: 28A AL HOMEWOOD BMPCDDT 20041104AMB CP

HAAT 427.0 m, ATV ERP 765.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15497	1278.3
lost to ATV IX only	15497	1278.3
lost to all IX	15497	1278.3

Potential Interfering Stations Included in above Scenario 4

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	DTVPLN	DTVP1057	PLN
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 28A AL HOMEWOOD BMPCDDT 20041104AMB CP

HAAT 427.0 m, ATV ERP 765.0 kW

Figure 3

	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15153	1250.1
lost to ATV IX only	15153	1250.1
lost to all IX	15153	1250.1

Potential Interfering Stations Included in above Scenario 4

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	DTVPLN	DTVP1057	PLN
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0207%

Worst case new IX -0.0207% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	WTTO	HOMEWOOD AL	DTVPLN	-DTVP1027

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	WAIQ	MONTGOMERY AL	131.6	LIC	BLEDT	-20060706ACK
27	WAIQ	MONTGOMERY AL	131.6	PLN	DTVPLN	-DTVP0986
28	WDAM-TV	LAUREL MS	323.9	LIC	BLCDDT	-20020426ABB
28	WDAM-TV	LAUREL MS	323.9	PLN	DTVPLN	-DTVP1046
28	WREG-TV	MEMPHIS TN	335.6	LIC	BLCDDT	-20050513AAE
28	WREG-TV	MEMPHIS TN	335.6	PLN	DTVPLN	-DTVP1057
29	WBIH	SELMA AL	104.9	PLN	DTVPLN	-DTVP1064
29	WBIH	SELMA AL	105.0	APP	USERRECORD-01	

Total scenarios = 4

Result key: 5

Scenario 1 Affected station 5

Before Analysis

Results for: 28A AL HOMEWOOD DTVPLN DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15457	1274.3
lost to ATV IX only	15457	1274.3
lost to all IX	15457	1274.3

Figure 3

Potential Interfering Stations Included in above Scenario 1

27A AL MONTGOMERY	BLEDT	20060706ACK	LIC
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15113	1246.1
lost to ATV IX only	15113	1246.1
lost to all IX	15113	1246.1

Potential Interfering Stations Included in above Scenario 1

27A AL MONTGOMERY	BLEDT	20060706ACK	LIC
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0207%

Result key: 6

Scenario 2 Affected station 5

Before Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15497	1278.3
lost to ATV IX only	15497	1278.3
lost to all IX	15497	1278.3

Potential Interfering Stations Included in above Scenario 2

27A AL MONTGOMERY	BLEDT	20060706ACK	LIC
28A TN MEMPHIS	DTVPLN	DTVP1057	PLN
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15153	1250.1
lost to ATV IX only	15153	1250.1
lost to all IX	15153	1250.1

Figure 3

Potential Interfering Stations Included in above Scenario 2

27A AL MONTGOMERY	BLEDT	20060706ACK	LIC
28A TN MEMPHIS	DTVPLN	DTVP1057	PLN
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0207%

Result key: 7

Scenario 3 Affected station 5

Before Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15457	1274.3
lost to ATV IX only	15457	1274.3
lost to all IX	15457	1274.3

Potential Interfering Stations Included in above Scenario 3

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15113	1246.1
lost to ATV IX only	15113	1246.1
lost to all IX	15113	1246.1

Potential Interfering Stations Included in above Scenario 3

27A AL MONTGOMERY	DTVPLN	DTVP0986	PLN
28A TN MEMPHIS	BLCDDT	20050513AAE	LIC
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0207%

Result key: 8

Scenario 4 Affected station 5

Before Analysis

Results for: 28A AL HOMEWOOD DTVP1027 PLN

HAAT 427.0 m, ATV ERP 765.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4

Figure 3

not affected by terrain losses 1679575 32083.7
lost to NTSC IX 0 0.0
lost to additional IX by ATV 15497 1278.3
lost to ATV IX only 15497 1278.3
lost to all IX 15497 1278.3

Potential Interfering Stations Included in above Scenario 4

27A AL MONTGOMERY DTVPLN DTVP0986 PLN
28A TN MEMPHIS DTVPLN DTVP1057 PLN
29A AL SELMA DTVPLN DTVP1064 PLN

After Analysis

Results for: 28A AL HOMEWOOD DTVPLN DTVP1027 PLN
HAAT 427.0 m, ATV ERP 765.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1709362	33148.4
not affected by terrain losses	1679575	32083.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15153	1250.1
lost to ATV IX only	15153	1250.1
lost to all IX	15153	1250.1

Potential Interfering Stations Included in above Scenario 4

27A AL MONTGOMERY DTVPLN DTVP0986 PLN
28A TN MEMPHIS DTVPLN DTVP1057 PLN
29A AL SELMA USERRECORD01 APP

Percent new IX = -0.0207%

Worst case new IX -0.0207% Scenario 1

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WTCI	CHATTANOOGA TN	BLEDT -20060629ACO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WBIH	SELMA AL	329.5	PLN	DTVPLN -DTVP1064
29	WKNO	MEMPHIS TN	412.6	CP MOD	BMPEDT -20021112ACA
29	WKNO	MEMPHIS TN	412.6	PLN	DTVPLN -DTVP1094
29	WKNO	MEMPHIS TN	412.6	LIC	BLEDT -20060627ABE
30	WVLT-TV	KNOXVILLE TN	148.4	LIC	BLCDDT -20040420AAF
30	WVLT-TV	KNOXVILLE TN	148.4	PLN	DTVPLN -DTVP1121
29	WBIH	SELMA AL	329.6	APP	USERRECORD-01

Total scenarios = 2

Figure 3

Result key: 9
Scenario 1 Affected station 6
Before Analysis

Results for: 29A TN CHATTANOOGA BLEDT 20060629ACO LIC
HAAT 336.0 m, ATV ERP 200.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10609	268.3
lost to ATV IX only	10609	268.3
lost to all IX	10609	268.3

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE BLCDDT 20040420AAF LIC
29A AL SELMA DTVPLN DTVP1064 PLN

After Analysis

Results for: 29A TN CHATTANOOGA BLEDT 20060629ACO LIC
HAAT 336.0 m, ATV ERP 200.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9955	264.3
lost to ATV IX only	9955	264.3
lost to all IX	9955	264.3

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE BLCDDT 20040420AAF LIC
29A AL SELMA USERRECORD01 APP

Percent new IX = -0.0671%

Result key: 10
Scenario 2 Affected station 6
Before Analysis

Results for: 29A TN CHATTANOOGA BLEDT 20060629ACO LIC
HAAT 336.0 m, ATV ERP 200.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10609	268.3
lost to ATV IX only	10609	268.3
lost to all IX	10609	268.3

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE DTVPLN DTVP1121 PLN
29A AL SELMA DTVPLN DTVP1064 PLN

Figure 3

After Analysis

Results for: 29A TN CHATTANOOGA BLEDT 20060629ACO LIC
HAAT 336.0 m, ATV ERP 200.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9955	264.3
lost to ATV IX only	9955	264.3
lost to all IX	9955	264.3

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE	DTVPLN	DTVP1121	PLN
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0671%

Worst case new IX -0.0671% Scenario 1

#####

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	WTCI	CHATTANOOGA TN	DTVPLN	-DTVP1093

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WBIH	SELMA AL	329.5	PLN	DTVPLN	-DTVP1064
29	WKNO	MEMPHIS TN	412.6	CP MOD	BMPEDT	-20021112ACA
29	WKNO	MEMPHIS TN	412.6	PLN	DTVPLN	-DTVP1094
29	WKNO	MEMPHIS TN	412.6	LIC	BLEDT	-20060627ABE
30	WVLT-TV	KNOXVILLE TN	148.4	LIC	BLCDDT	-20040420AAF
30	WVLT-TV	KNOXVILLE TN	148.4	PLN	DTVPLN	-DTVP1121
29	WBIH	SELMA AL	329.6	APP	USERRECORD-01	

Total scenarios = 2

Result key: 11

Scenario 1 Affected station 7

Before Analysis

Results for: 29A TN CHATTANOOGA DTVPLN DTVP1093 PLN

	POPULATION	AREA (sq km)
HAAT 336.0 m, ATV ERP 200.0 kW		
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10609	268.3

Figure 3

lost to ATV IX only	10609	268.3
lost to all IX	10609	268.3

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE	BLCDDT	20040420AAF	LIC
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 29A TN CHATTANOOGA DTVPLN DTVP1093 PLN

	POPULATION	AREA (sq km)
HAAT 336.0 m, ATV ERP 200.0 kW		
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9955	264.3
lost to ATV IX only	9955	264.3
lost to all IX	9955	264.3

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE	BLCDDT	20040420AAF	LIC
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0671%

Result key: 12

Scenario 2 Affected station 7

Before Analysis

Results for: 29A TN CHATTANOOGA DTVPLN DTVP1093 PLN

	POPULATION	AREA (sq km)
HAAT 336.0 m, ATV ERP 200.0 kW		
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10609	268.3
lost to ATV IX only	10609	268.3
lost to all IX	10609	268.3

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE	DTVPLN	DTVP1121	PLN
29A AL SELMA	DTVPLN	DTVP1064	PLN

After Analysis

Results for: 29A TN CHATTANOOGA DTVPLN DTVP1093 PLN

	POPULATION	AREA (sq km)
HAAT 336.0 m, ATV ERP 200.0 kW		
within Noise Limited Contour	1084228	24150.0
not affected by terrain losses	984808	20437.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9955	264.3
lost to ATV IX only	9955	264.3
lost to all IX	9955	264.3

Figure 3

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE	DTVPLN	DTVP1121	PLN
29A AL SELMA	USERRECORD01		APP

Percent new IX = -0.0671%

Worst case new IX -0.0671% Scenario 1

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WKNO	MEMPHIS TN	BMPEDT -20021112ACA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	WREG-TV	MEMPHIS TN	3.1	LIC	BLCDDT -20050513AAE
28	WREG-TV	MEMPHIS TN	3.1	PLN	DTVPLN -DTVP1057
29	WBIH	SELMA AL	400.0	PLN	DTVPLN -DTVP1064
29	WTCI	CHATTANOOGA TN	412.6	LIC	BLEDT -20060629ACO
29	WTCI	CHATTANOOGA TN	412.6	PLN	DTVPLN -DTVP1093
29	WBIH	SELMA AL	400.0	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WKNO	MEMPHIS TN	DTVPLN -DTVP1094

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	WREG-TV	MEMPHIS TN	3.1	LIC	BLCDDT -20050513AAE
28	WREG-TV	MEMPHIS TN	3.1	PLN	DTVPLN -DTVP1057
29	WBIH	SELMA AL	400.0	PLN	DTVPLN -DTVP1064
29	WTCI	CHATTANOOGA TN	412.6	LIC	BLEDT -20060629ACO
29	WTCI	CHATTANOOGA TN	412.6	PLN	DTVPLN -DTVP1093
29	WBIH	SELMA AL	400.0	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

Figure 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WKNO	MEMPHIS TN	BLEDT -20060627ABE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	WREG-TV	MEMPHIS TN	3.1	LIC	BLCDDT -20050513AAE
28	WREG-TV	MEMPHIS TN	3.1	PLN	DTVPLN -DTVP1057
29	WBIH	SELMA AL	400.0	PLN	DTVPLN -DTVP1064
29	WTCI	CHATTANOOGA TN	412.6	LIC	BLEDT -20060629ACO
29	WTCI	CHATTANOOGA TN	412.6	PLN	DTVPLN -DTVP1093
29	WBIH	SELMA AL	400.0	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 11

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WBIH	SELMA AL	104.9	PLN	DTVPLN -DTVP1064
30	WVLT-TV	KNOXVILLE TN	381.7	LIC	BLCDDT -20040420AAF
30	WVLT-TV	KNOXVILLE TN	381.7	PLN	DTVPLN -DTVP1121
31	WGBC	MERIDIAN MS	217.9	CP MOD	BMPCDT -20070522AAR
31	WGBC	MERIDIAN MS	217.9	PLN	DTVPLN -DTVP1151
29	WBIH	SELMA AL	105.0	APP	USERRECORD-01

Total scenarios = 2

Result key: 13

Scenario 1 Affected station 11

Before Analysis

Results for: 30A AL BIRMINGHAM BLCDDT 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	6144	753.5
lost to ATV IX only	6144	753.5
lost to all IX	6144	753.5

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE	BLCDDT	20040420AAF	LIC
29A AL SELMA	DTVPLN	DTVP1064	PLN

Figure 3

After Analysis

Results for: 30A AL BIRMINGHAM BLCDT 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	6264	753.5
lost to ATV IX only	6264	753.5
lost to all IX	6264	753.5

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE BLCDT 20040420AAF LIC
29A AL SELMA USERRECORD01 APP

Percent new IX = 0.0071%

Result key: 14
Scenario 2 Affected station 11
Before Analysis

Results for: 30A AL BIRMINGHAM BLCDT 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	6144	753.5
lost to ATV IX only	6144	753.5
lost to all IX	6144	753.5

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE DTVPLN DTVP1121 PLN
29A AL SELMA DTVPLN DTVP1064 PLN

After Analysis

Results for: 30A AL BIRMINGHAM BLCDT 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	6264	753.5
lost to ATV IX only	6264	753.5
lost to all IX	6264	753.5

Potential Interfering Stations Included in above Scenario 2

30A TN KNOXVILLE DTVPLN DTVP1121 PLN
29A AL SELMA USERRECORD01 APP

Percent new IX = 0.0071%

Figure 3

Worst case new IX 0.0071% Scenario 1

#####

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	WIAT	BIRMINGHAM AL	DTVPLN -DTVP1098

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WBIH	SELMA AL	104.9	PLN	DTVPLN -DTVP1064
30	WVLT-TV	KNOXVILLE TN	381.7	LIC	BLCDT -20040420AAF
30	WVLT-TV	KNOXVILLE TN	381.7	PLN	DTVPLN -DTVP1121
31	WGBC	MERIDIAN MS	217.9	CP MOD	BMPCDT -20070522AAR
31	WGBC	MERIDIAN MS	217.9	PLN	DTVPLN -DTVP1151
29	WBIH	SELMA AL	105.0	APP	USERRECORD-01

Total scenarios = 2

Result key: 15
Scenario 1 Affected station 12
Before Analysis

Results for: 30A AL BIRMINGHAM DTVPLN DTVP1098 PLN
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	6144	753.5
lost to ATV IX only	6144	753.5
lost to all IX	6144	753.5

Potential Interfering Stations Included in above Scenario 1

30A TN KNOXVILLE BLCDT 20040420AAF LIC
29A AL SELMA DTVPLN DTVP1064 PLN

After Analysis

Results for: 30A AL BIRMINGHAM DTVPLN DTVP1098 PLN
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	6264	753.5
lost to ATV IX only	6264	753.5
lost to all IX	6264	753.5

Figure 3

Potential Interfering Stations Included in above Scenario 1

Station	City/State	Application	Ref. No.
30A TN KNOXVILLE	BLCDDT	20040420AAF	LIC
29A AL SELMA	USERRECORD01		APP

Percent new IX = 0.0071%

Result key: 16

Scenario 2 Affected station 12

Before Analysis

Results for: 30A AL BIRMINGHAM DTVP1098 PLN

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	6144	753.5	
lost to ATV IX only	6144	753.5	
lost to all IX	6144	753.5	

Potential Interfering Stations Included in above Scenario 2

Station	City/State	Application	Ref. No.
30A TN KNOXVILLE	DTVP1121		PLN
29A AL SELMA	DTVP1064		PLN

After Analysis

Results for: 30A AL BIRMINGHAM DTVP1098 PLN

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	6264	753.5	
lost to ATV IX only	6264	753.5	
lost to all IX	6264	753.5	

Potential Interfering Stations Included in above Scenario 2

Station	City/State	Application	Ref. No.
30A TN KNOXVILLE	DTVP1121		PLN
29A AL SELMA	USERRECORD01		APP

Percent new IX = 0.0071%

Worst case new IX 0.0071% Scenario 1

#####

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	WBIH	SELMA AL	USERRECORD-01	

Figure 3

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WTTO	HOMEWOOD AL	105.0	CP MOD	BMPCDT	-20041104AMB
28	WTTO	HOMEWOOD AL	105.0	PLN	DTVPLN	-DTVP1027
29	WTIC	CHATTANOOGA TN	329.6	LIC	BLEDT	-20060629ACO
29	WTIC	CHATTANOOGA TN	329.6	PLN	DTVPLN	-DTVP1093
29	WKNO	MEMPHIS TN	400.0	CP MOD	BMPEDT	-20021112ACA
29	WKNO	MEMPHIS TN	400.0	PLN	DTVPLN	-DTVP1094
29	WKNO	MEMPHIS TN	400.0	LIC	BLEDT	-20060627ABE
30	WIAT	BIRMINGHAM AL	105.0	LIC	BLCDDT	-20021219AAV
30	WIAT	BIRMINGHAM AL	105.0	PLN	DTVPLN	-DTVP1098

Total scenarios = 8

Result key: 17

Scenario 1 Affected station 13

Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP

HAAT	405.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8	
not affected by terrain losses	666376	27208.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	40991	527.1	
lost to ATV IX only	40991	527.1	
lost to all IX	40991	527.1	

Potential Interfering Stations Included in above Scenario 1

Station	City/State	Application	Ref. No.
28A AL HOMEWOOD	BMPCDT	20041104AMB	CP
29A TN CHATTANOOGA	BLEDT	20060629ACO	LIC
30A AL BIRMINGHAM	BLCDDT	20021219AAV	LIC

Result key: 18

Scenario 2 Affected station 13

Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP

HAAT	405.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8	
not affected by terrain losses	666376	27208.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	40991	527.1	
lost to ATV IX only	40991	527.1	
lost to all IX	40991	527.1	

Potential Interfering Stations Included in above Scenario 2

Station	City/State	Application	Ref. No.
28A AL HOMEWOOD	BMPCDT	20041104AMB	CP
29A TN CHATTANOOGA	BLEDT	20060629ACO	LIC
30A AL BIRMINGHAM	DTVPLN	DTVP1098	PLN

Result key: 19

Figure 3

Scenario 3 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 3

28A AL HOMEWOOD	BMPCDT	20041104AMB	CP
29A TN CHATTANOOGA	DTVPLN	DTVP1093	PLN
30A AL BIRMINGHAM	BLCDDT	20021219AAV	LIC

Result key: 20
Scenario 4 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 4

28A AL HOMEWOOD	BMPCDT	20041104AMB	CP
29A TN CHATTANOOGA	DTVPLN	DTVP1093	PLN
30A AL BIRMINGHAM	DTVPLN	DTVP1098	PLN

Result key: 21
Scenario 5 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 5

28A AL HOMEWOOD	DTVPLN	DTVP1027	PLN
29A TN CHATTANOOGA	BLEDT	20060629ACO	LIC

Figure 3

30A AL BIRMINGHAM BLCDDT 20021219AAV LIC

Result key: 22
Scenario 6 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 6

28A AL HOMEWOOD	DTVPLN	DTVP1027	PLN
29A TN CHATTANOOGA	BLEDT	20060629ACO	LIC
30A AL BIRMINGHAM	DTVPLN	DTVP1098	PLN

Result key: 23
Scenario 7 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 7

28A AL HOMEWOOD	DTVPLN	DTVP1027	PLN
29A TN CHATTANOOGA	DTVPLN	DTVP1093	PLN
30A AL BIRMINGHAM	BLCDDT	20021219AAV	LIC

Result key: 24
Scenario 8 Affected station 13
Before Analysis

Results for: 29A AL SELMA USERRECORD01 APP
HAAT 405.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	677129	27449.8
not affected by terrain losses	666376	27208.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	40991	527.1
lost to ATV IX only	40991	527.1
lost to all IX	40991	527.1

Potential Interfering Stations Included in above Scenario 8

Figure 3

28A AL HOMEWOOD	DTVPLN	DTVP1027	PLN
29A TN CHATTANOOGA	DTVPLN	DTVP1093	PLN
30A AL BIRMINGHAM	DTVPLN	DTVP1098	PLN

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

APPENDIX

TRANSMITTING ANTENNA VERTICAL AND HORIZONTAL PLANE PATTERN



Proposal Number	DCA-9031	Revision	
Date	24 Aug 2001		
Call Letters	WBIH	Channel	29
Location	Selma, AL		
Customer			
Antenna Type	TFU-29JTT-R S360		

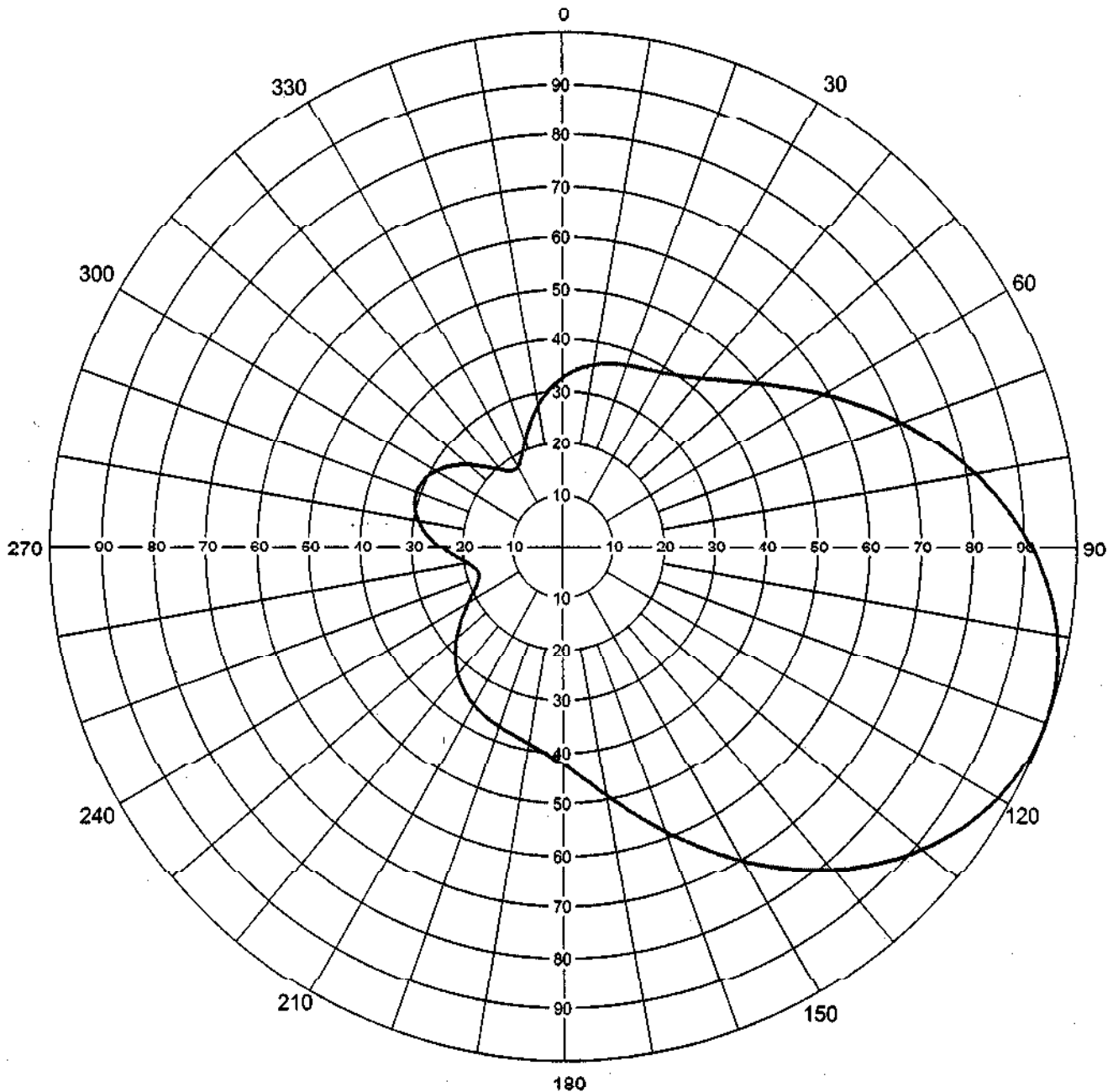
AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

3.60 (5.56 dB)
Calculated

Frequency
Drawing #

563 MHz
TFU-S360-29



Remarks:



Proposal Number **DCA-9031** Revision
 Date **24 Aug 2001**
 Call Letters **WBIH** Channel **29**
 Location **Selma, AL**
 Customer
 Antenna Type **TFU-29JTT-R S360**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **TFU-S360-29**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.326	414.5	26.18
10	0.356	494.3	26.94
20	0.372	539.7	27.32
30	0.388	587.1	27.69
40	0.424	701.1	28.46
50	0.492	944.0	29.75
60	0.589	1353.0	31.31
70	0.703	1927.4	32.85
80	0.817	2603.2	34.16
90	0.913	3250.9	35.12
100	0.977	3722.7	35.71
110	1.000	3900.0	35.91
120	0.977	3722.7	35.71
130	0.913	3250.9	35.12
140	0.817	2603.2	34.16
150	0.703	1927.4	32.85
160	0.589	1353.0	31.31
170	0.492	944.0	29.75
180	0.424	701.1	28.46
190	0.388	587.1	27.69
200	0.372	539.7	27.32
210	0.356	494.3	26.94
220	0.326	414.5	26.18
230	0.277	299.2	24.76
240	0.217	183.6	22.64
250	0.178	123.6	20.92
260	0.193	145.3	21.62
270	0.245	234.1	23.69
280	0.291	330.3	25.19
290	0.309	372.4	25.71
300	0.291	330.3	25.19
310	0.245	234.1	23.69
320	0.193	145.3	21.62
330	0.178	123.6	20.92
340	0.217	183.6	22.64
350	0.277	299.2	24.76

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
110	1.000	3900.0	35.91
290	0.309	372.4	25.71

Minima

Angle	Field	ERP (kW)	ERP (dBk)
252	0.176	120.8	20.82
328	0.176	120.8	20.82

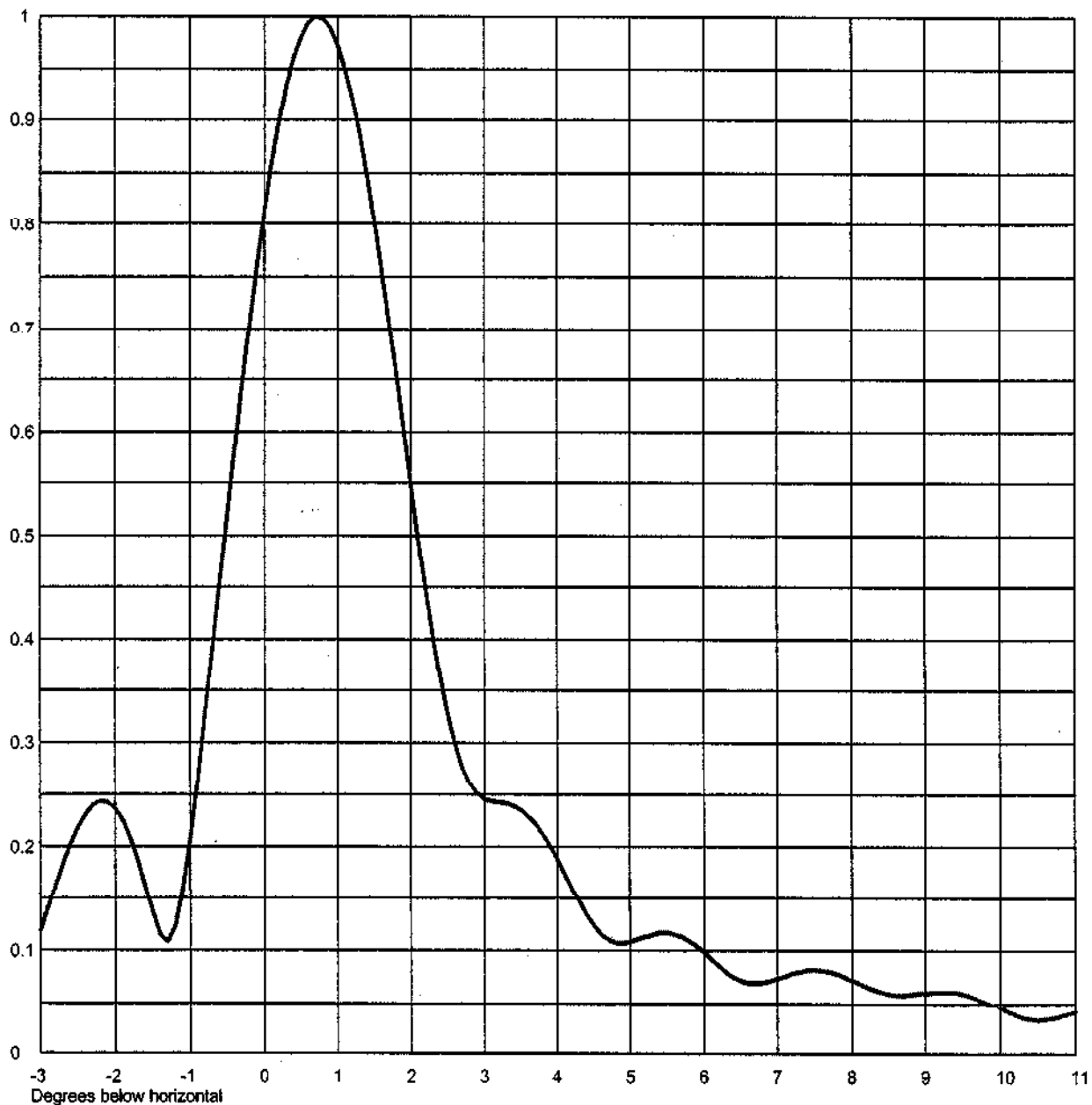
Remarks:



Proposal Number **DCA-9031** Revision
Date **24 Aug 2001**
Call Letters **WBIH** Channel **29**
Location **Selma, AL**
Customer
Antenna Type **TFU-29JTT-R S360**

ELEVATION PATTERN

RMS Gain at Main Lobe	28.5 (14.55 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	18.8 (12.74 dB)	Frequency	563.00 MHz
Calculated / Measured	Calculated	Drawing #	29N285075



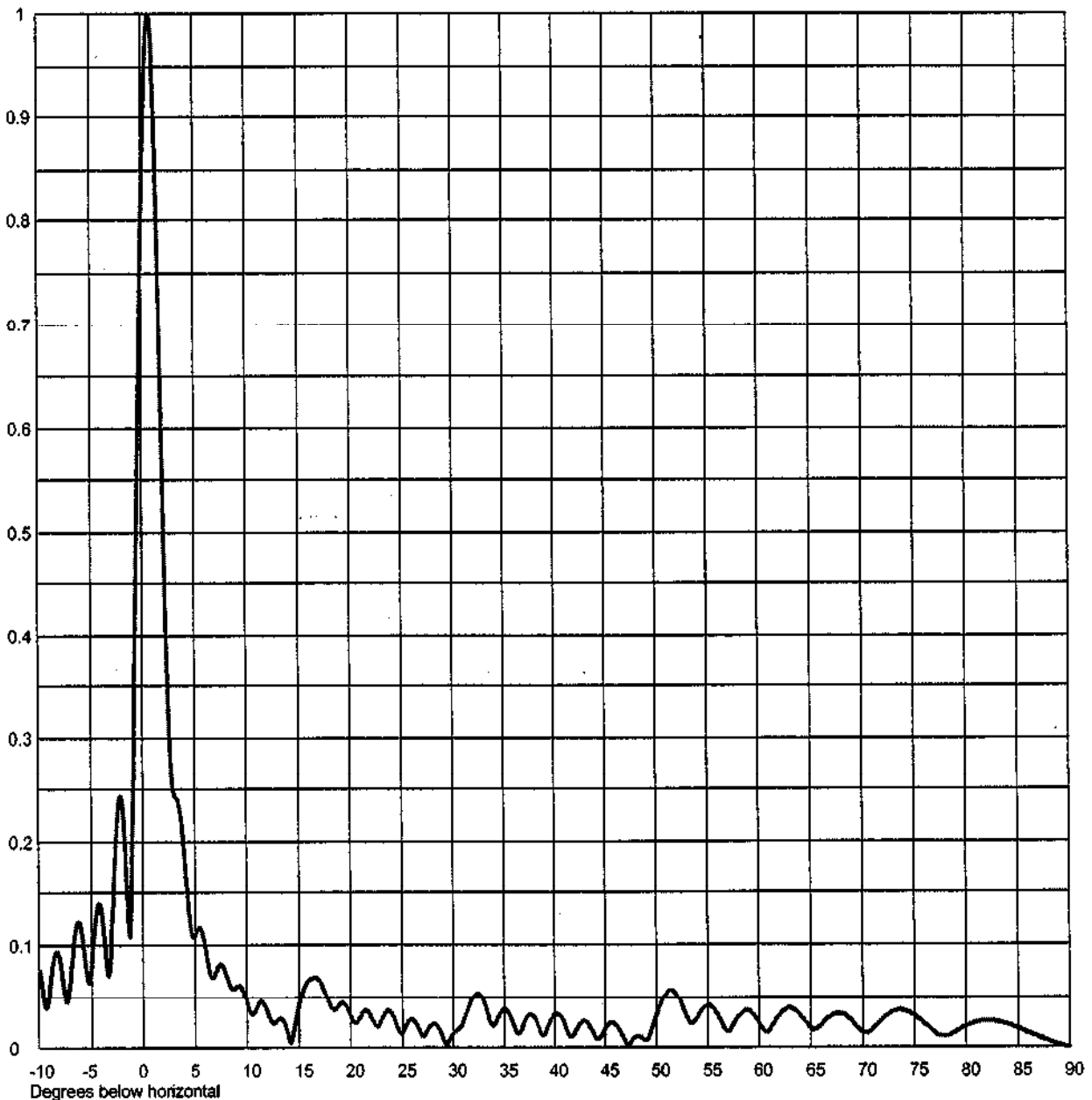
Remarks:



Proposal Number	DCA-9031	Revision	
Date	24 Aug 2001		
Call Letters	WBIH	Channel	29
Location	Selma, AL		
Customer			
Antenna Type	TFU-29JTT-R S360		

ELEVATION PATTERN

RMS Gain at Main Lobe	28.5 (14.55 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	18.8 (12.74 dB)	Frequency	563.00 MHz
Calculated / Measured	Calculated	Drawing #	29N285075-90



Remarks:



Proposal Number **DCA-9031** Revision
 Date **24 Aug 2001**
 Call Letters **WBIH** Channel **29**
 Location **Selma, AL**
 Customer
 Antenna Type **TFU-29JTT-R S360**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **Z9N285075**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.082	2.4	0.362	10.6	0.033	30.5	0.018	51.0	0.054	71.5	0.023
-9.5	0.045	2.6	0.296	10.8	0.036	31.0	0.025	51.5	0.057	72.0	0.028
-9.0	0.055	2.8	0.260	11.0	0.040	31.5	0.039	52.0	0.052	72.5	0.032
-8.5	0.090	3.0	0.245	11.5	0.044	32.0	0.051	52.5	0.041	73.0	0.035
-8.0	0.087	3.2	0.242	12.0	0.034	32.5	0.054	53.0	0.029	73.5	0.036
-7.5	0.049	3.4	0.239	12.5	0.023	33.0	0.045	53.5	0.023	74.0	0.035
-7.0	0.066	3.6	0.229	13.0	0.027	33.5	0.030	54.0	0.029	74.5	0.033
-6.5	0.113	3.8	0.212	13.5	0.026	34.0	0.021	54.5	0.037	75.0	0.030
-6.0	0.117	4.0	0.188	14.0	0.010	34.5	0.031	55.0	0.041	75.5	0.027
-5.5	0.077	4.2	0.160	14.5	0.017	35.0	0.037	55.5	0.038	76.0	0.022
-5.0	0.076	4.4	0.134	15.0	0.042	35.5	0.033	56.0	0.031	76.5	0.018
-4.5	0.129	4.6	0.115	15.5	0.059	36.0	0.020	56.5	0.021	77.0	0.014
-4.0	0.132	4.8	0.107	16.0	0.067	36.5	0.014	57.0	0.016	77.5	0.011
-3.5	0.077	5.0	0.108	16.5	0.069	37.0	0.025	57.5	0.022	78.0	0.011
-3.0	0.119	5.2	0.113	17.0	0.066	37.5	0.032	58.0	0.030	78.5	0.012
-2.8	0.163	5.4	0.117	17.5	0.055	38.0	0.029	58.5	0.035	79.0	0.015
-2.6	0.203	5.6	0.115	18.0	0.041	38.5	0.018	59.0	0.035	79.5	0.018
-2.4	0.231	5.8	0.109	18.5	0.037	39.0	0.012	59.5	0.031	80.0	0.020
-2.2	0.243	6.0	0.099	19.0	0.042	39.5	0.023	60.0	0.023	80.5	0.022
-2.0	0.236	6.2	0.086	19.5	0.041	40.0	0.032	60.5	0.016	81.0	0.024
-1.8	0.208	6.4	0.075	20.0	0.031	40.5	0.031	61.0	0.016	81.5	0.025
-1.6	0.162	6.6	0.069	20.5	0.024	41.0	0.022	61.5	0.023	82.0	0.025
-1.4	0.115	6.8	0.070	21.0	0.031	41.5	0.011	62.0	0.031	82.5	0.025
-1.2	0.123	7.0	0.074	21.5	0.036	42.0	0.014	62.5	0.036	83.0	0.024
-1.0	0.207	7.2	0.079	22.0	0.029	42.5	0.023	63.0	0.038	83.5	0.023
-0.8	0.325	7.4	0.082	22.5	0.021	43.0	0.025	63.5	0.036	84.0	0.022
-0.6	0.454	7.6	0.081	23.0	0.027	43.5	0.020	64.0	0.031	84.5	0.020
-0.4	0.583	7.8	0.078	23.5	0.035	44.0	0.011	64.5	0.024	85.0	0.018
-0.2	0.705	8.0	0.072	24.0	0.033	44.5	0.010	65.0	0.019	85.5	0.016
0.0	0.813	8.2	0.066	24.5	0.020	45.0	0.019	65.5	0.018	86.0	0.014
0.2	0.899	8.4	0.061	25.0	0.014	45.5	0.024	66.0	0.021	86.5	0.011
0.4	0.961	8.6	0.058	25.5	0.023	46.0	0.022	66.5	0.027	87.0	0.009
0.6	0.994	8.8	0.059	26.0	0.027	46.5	0.015	67.0	0.031	87.5	0.007
0.8	0.998	9.0	0.060	26.5	0.020	47.0	0.005	67.5	0.033	88.0	0.005
1.0	0.973	9.2	0.061	27.0	0.011	47.5	0.005	68.0	0.032	88.5	0.003
1.2	0.921	9.4	0.061	27.5	0.017	48.0	0.010	68.5	0.029	89.0	0.002
1.4	0.847	9.6	0.057	28.0	0.023	48.5	0.010	69.0	0.025	89.5	0.001
1.6	0.755	9.8	0.051	28.5	0.020	49.0	0.007	69.5	0.019	90.0	0.000
1.8	0.653	10.0	0.044	29.0	0.009	49.5	0.016	70.0	0.015		
2.0	0.548	10.2	0.037	29.5	0.004	50.0	0.031	70.5	0.014		
2.2	0.448	10.4	0.033	30.0	0.013	50.5	0.045	71.0	0.018		

Remarks: