

## **ENGINEERING EXHIBIT**

### **Incentive Auction Channel Reassignment**

#### **Application for Digital Television Station Construction Permit**

prepared for

#### **Woods Communications Corporation**

WCOV-TV Montgomery, AL

Facility ID 73642

Ch. 22 505 kW 528 m

*Woods Communications Corporation* (“*Woods*”) is the licensee of digital television station WCOV-TV, Channel 20, Facility ID 73642, Montgomery, AL. *Woods* herein proposes construction of the WCOV-TV post-auction facility on Channel 22. Reassignment of WCOV-TV from Channel 20 to Channel 22 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (“*CCRPN*”, DA 17-317, released April 13, 2017).

The proposed Channel 22 operation will employ a new antenna system to be side-mounted on the WCOV-TV tower in lieu of the existing Channel 20 antenna. The tower structure corresponds to FCC Antenna Structure Registration number 1036432. No change to the overall structure height will result.

The proposed antenna is a horizontally polarized directional Dielectric model TFU-30DSC-R S190. *Woods* proposes to operate WCOV-TV with an effective radiated power (“ERP”) of 505 kW at 528 meters antenna height above average terrain (“HAAT”). The directional antenna’s azimuthal pattern is supplied in Figure 1 and the elevation pattern is depicted in Figure 2.

A map is supplied as Figure 3 which depicts the standard predicted coverage contours. This map includes the location of Montgomery, WCOV-TV’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1) as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed noise limited service contour (“NLSC”) extends beyond that of the *CCRPN* parameters of 482 kW ERP and 518 meters HAAT.<sup>1</sup> The proposal complies with §73.3700(b)(ii) as described in the following.

The *CCRPN* facility specifies the directional antenna pattern corresponding to WCOV-TV’s licensed Channel 20. The antenna manufacturer cannot provide the exact pattern on the new channel due to the change in frequency and corresponding mechanical limitations of antenna construction. The directional pattern proposed herein replicates the reassignment pattern as closely as possible. The proposal results in a slightly larger coverage contour in some directions in an attempt to achieve the *CCRPN* coverage contour. Due to the difference in directional pattern, WCOV-TV qualifies under §73.3700(b)(ii)(A) for a contour extension due to the loss of coverage area resulting from the new channel assignment.

Interference study per FCC OET Bulletin 69<sup>2</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassignments as required by §73.616. The interference study output report is provided as Table 1. This satisfies §73.3700(b)(ii)(C) for the proposed NLSC extension.

The amount of NLSC extension does not exceed one percent in any direction. Figure 4 supplies a coverage contour comparison of the proposed WCOV-TV facility to the reassignment facility’s contour and a one percent extension distance of the reassignment facility’s contour. Here, the contour level is adjusted with the dipole factor to match FCC application processing. Table 1’s results also demonstrate that the proposed contour is within the baseline contour plus one percent. Therefore the proposed contour extension complies with §73.3700(b)(ii)(B).

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<sup>1</sup>There is no change in antenna height above ground or above mean sea level. The proposed WCOV-TV antenna HAAT is recalculated to be 527.6 meters, based on FCC 30 meter terrain data developed by OET.

<sup>2</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). This analysis employed the FCC’s current “TVStudy” software with the default application processing template settings, 2 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC’s implementation of TVStudy show excellent correlation.

The proposed WCOV-TV facility's terrain-limited population provides a 100.6 percent match of the *CCRPN* baseline facility, as detailed in the following table. The OET Bulletin 69 report summary in Table 1 also concludes that the proposed service area population is more than 95 percent of the baseline population.

**Terrain Limited Population - Match of Reassignment**

Population Summary (2010 Census) OET Bulletin 69: TVStudy	Reassignment Parameters	Proposed
Within Noise Limited Contour	862,899	868,189
Not affected by terrain losses	858,839	863,935
Match of Reassignment	---	<b>100.59%</b>

The proposed 505 kW ERP exceeds the maximum permitted by §73.622(f)(8)(i) for the proposed antenna HAAT of 528 meters. Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. As demonstrated in Figure 5, the total area within the proposed WCOV-TV NLSC is 32,738 square kilometers, which does not exceed the NLSC area of WSFA(DT) (48,301 sq. km, Ch. 12, Montgomery AL, BLCDDT-20090622ABN). Thus, the 505 kW ERP specified herein is in compliance with §73.622(f)(5) of the FCC's Rules.

The nearest FCC monitoring station is 529 km distant at Kingsville, TX. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). The site location is beyond the border areas requiring international coordination. There are no authorized AM stations within 3 kilometers of the site.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 10 percent antenna relative field in downward elevations (pattern data shows less than 10 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $0.7 \mu\text{W}/\text{cm}^2$ , which is 0.2 percent of the general population/uncontrolled maximum

permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

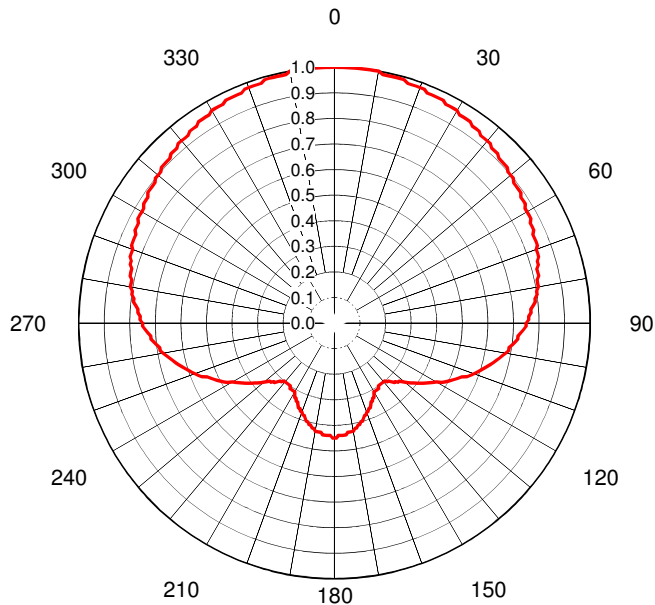
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

*List of Attachments*

Figure 1	Antenna Azimuthal Pattern
Figure 2	Antenna Elevation Pattern
Figure 3	Proposed Coverage Contours
Figure 4	Proposed Contour Expansion
Figure 5	Maximum ERP per §73.622(f)
Table 1	OET Bulletin 69 Interference Study
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.	June 27, 2017	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



## AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70600-1**  
Date **2-Jun-17**  
Call Letters **WCOV**  
Channel **22**  
Frequency **521 MHz**  
Antenna Type **TFU-30DSC-R S190**  
Gain **1.9 (2.79dB)**  
Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.940	72	0.840	108	0.600	144	0.300	180	0.450	216	0.300	252	0.600	288	0.840
1	1.000	37	0.940	73	0.830	109	0.590	145	0.300	181	0.450	217	0.300	253	0.610	289	0.840
2	1.000	38	0.930	74	0.830	110	0.580	146	0.310	182	0.440	218	0.300	254	0.620	290	0.840
3	1.000	39	0.930	75	0.820	111	0.570	147	0.310	183	0.440	219	0.300	255	0.630	291	0.850
4	1.000	40	0.930	76	0.820	112	0.560	148	0.310	184	0.440	220	0.300	256	0.640	292	0.850
5	1.000	41	0.930	77	0.820	113	0.540	149	0.310	185	0.440	221	0.300	257	0.650	293	0.850
6	1.000	42	0.920	78	0.810	114	0.530	150	0.310	186	0.440	222	0.310	258	0.660	294	0.850
7	1.000	43	0.920	79	0.810	115	0.520	151	0.320	187	0.430	223	0.310	259	0.670	295	0.860
8	1.000	44	0.920	80	0.810	116	0.510	152	0.330	188	0.430	224	0.320	260	0.680	296	0.860
9	1.000	45	0.910	81	0.800	117	0.500	153	0.330	189	0.430	225	0.330	261	0.690	297	0.860
10	1.000	46	0.910	82	0.800	118	0.490	154	0.340	190	0.430	226	0.330	262	0.690	298	0.870
11	0.990	47	0.910	83	0.790	119	0.480	155	0.340	191	0.420	227	0.340	263	0.700	299	0.870
12	0.990	48	0.910	84	0.790	120	0.460	156	0.350	192	0.420	228	0.340	264	0.710	300	0.870
13	0.990	49	0.900	85	0.780	121	0.450	157	0.360	193	0.410	229	0.350	265	0.720	301	0.870
14	0.990	50	0.900	86	0.770	122	0.440	158	0.360	194	0.410	230	0.360	266	0.720	302	0.880
15	0.990	51	0.900	87	0.770	123	0.430	159	0.370	195	0.400	231	0.370	267	0.730	303	0.880
16	0.990	52	0.890	88	0.760	124	0.420	160	0.370	196	0.400	232	0.380	268	0.740	304	0.880
17	0.980	53	0.890	89	0.760	125	0.410	161	0.380	197	0.390	233	0.390	269	0.750	305	0.890
18	0.980	54	0.890	90	0.750	126	0.400	162	0.380	198	0.380	234	0.400	270	0.750	306	0.890
19	0.980	55	0.890	91	0.750	127	0.390	163	0.390	199	0.380	235	0.410	271	0.760	307	0.890
20	0.980	56	0.880	92	0.740	128	0.380	164	0.400	200	0.370	236	0.420	272	0.760	308	0.890
21	0.980	57	0.880	93	0.730	129	0.370	165	0.400	201	0.370	237	0.430	273	0.770	309	0.900
22	0.970	58	0.880	94	0.720	130	0.360	166	0.410	202	0.360	238	0.440	274	0.770	310	0.900
23	0.970	59	0.870	95	0.720	131	0.350	167	0.410	203	0.360	239	0.450	275	0.780	311	0.900
24	0.970	60	0.870	96	0.710	132	0.340	168	0.420	204	0.350	240	0.460	276	0.790	312	0.910
25	0.970	61	0.870	97	0.700	133	0.340	169	0.420	205	0.340	241	0.480	277	0.790	313	0.910
26	0.970	62	0.870	98	0.690	134	0.330	170	0.430	206	0.340	242	0.490	278	0.800	314	0.910
27	0.960	63	0.860	99	0.690	135	0.330	171	0.430	207	0.330	243	0.500	279	0.800	315	0.910
28	0.960	64	0.860	100	0.680	136	0.320	172	0.430	208	0.330	244	0.510	280	0.810	316	0.920
29	0.960	65	0.860	101	0.670	137	0.310	173	0.430	209	0.320	245	0.520	281	0.810	317	0.920
30	0.960	66	0.850	102	0.660	138	0.310	174	0.440	210	0.310	246	0.530	282	0.810	318	0.920
31	0.950	67	0.850	103	0.650	139	0.300	175	0.440	211	0.310	247	0.540	283	0.820	319	0.930
32	0.950	68	0.850	104	0.640	140	0.300	176	0.440	212	0.310	248	0.560	284	0.820	320	0.930
33	0.950	69	0.850	105	0.630	141	0.300	177	0.440	213	0.310	249	0.570	285	0.820	321	0.930
34	0.950	70	0.840	106	0.620	142	0.300	178	0.440	214	0.310	250	0.580	286	0.830	322	0.930
35	0.940	71	0.840	107	0.610	143	0.300	179	0.450	215	0.300	251	0.590	287	0.830	323	0.940

**Figure 1**  
**Antenna Azimuthal Pattern**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 505 kW 528 m**

prepared for  
**Woods Communications Corporation**

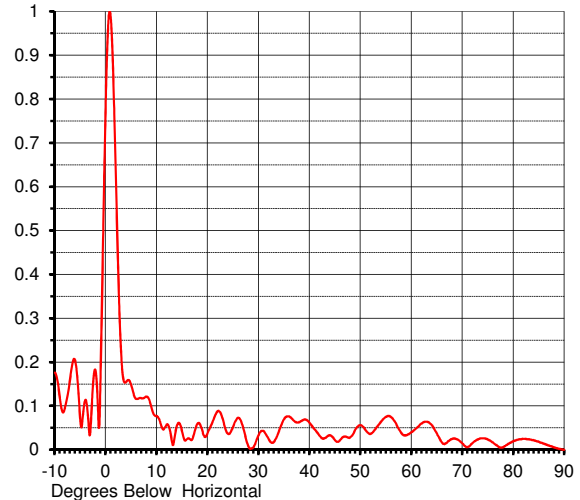
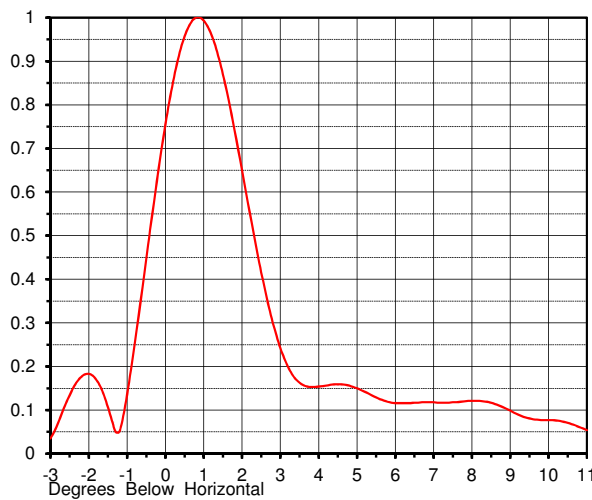
June, 2017

## ELEVATION PATTERN

Proposal No. **C-70600-1**  
 Date **2-Jun-17**  
 Call Letters **WCOV**  
 Channel **22**  
 Frequency **521 MHz**  
 Antenna Type **TFU-30DSC-R S190**

RMS Directivity at Main Lobe **25.5 ( 14.07 dB )**  
 RMS Directivity at Horizontal **16.6 ( 12.20 dB )**  
**Calculated**

Beam Tilt **0.75 deg**  
 Pattern Number **30Q255075**



Angle	Field
-10.0	0.176
-9.0	0.116
-8.0	0.097
-7.0	0.163
-6.0	0.202
-5.0	0.065
-4.0	0.114
-3.0	0.051
-2.0	0.179
-1.0	0.193
0.0	0.807
1.0	0.980
2.0	0.601
3.0	0.219
4.0	0.155
5.0	0.146
6.0	0.116
7.0	0.117
8.0	0.121
9.0	0.094

Angle	Field
10.0	0.077
11.0	0.051
12.0	0.058
13.0	0.017
14.0	0.057
15.0	0.040
16.0	0.025
17.0	0.025
18.0	0.060
19.0	0.040
20.0	0.039
21.0	0.066
22.0	0.088
23.0	0.067
24.0	0.036
25.0	0.054
26.0	0.073
27.0	0.047
28.0	0.007
29.0	0.006

Angle	Field
30.0	0.034
31.0	0.042
32.0	0.023
33.0	0.018
34.0	0.044
35.0	0.071
36.0	0.076
37.0	0.065
38.0	0.063
39.0	0.069
40.0	0.061
41.0	0.046
42.0	0.031
43.0	0.027
44.0	0.033
45.0	0.021
46.0	0.023
47.0	0.030
48.0	0.029
49.0	0.047

Angle	Field
50.0	0.056
51.0	0.044
52.0	0.037
53.0	0.049
54.0	0.064
55.0	0.075
56.0	0.074
57.0	0.058
58.0	0.038
59.0	0.033
60.0	0.040
61.0	0.050
62.0	0.060
63.0	0.064
64.0	0.055
65.0	0.036
66.0	0.016
67.0	0.017
68.0	0.025
69.0	0.023

Angle	Field
70.0	0.014
71.0	0.006
72.0	0.016
73.0	0.024
74.0	0.026
75.0	0.023
76.0	0.016
77.0	0.007
78.0	0.006
79.0	0.014
80.0	0.020
81.0	0.023
82.0	0.025
83.0	0.024
84.0	0.021
85.0	0.018
86.0	0.014
87.0	0.009
88.0	0.005
89.0	0.002
90.0	0.000



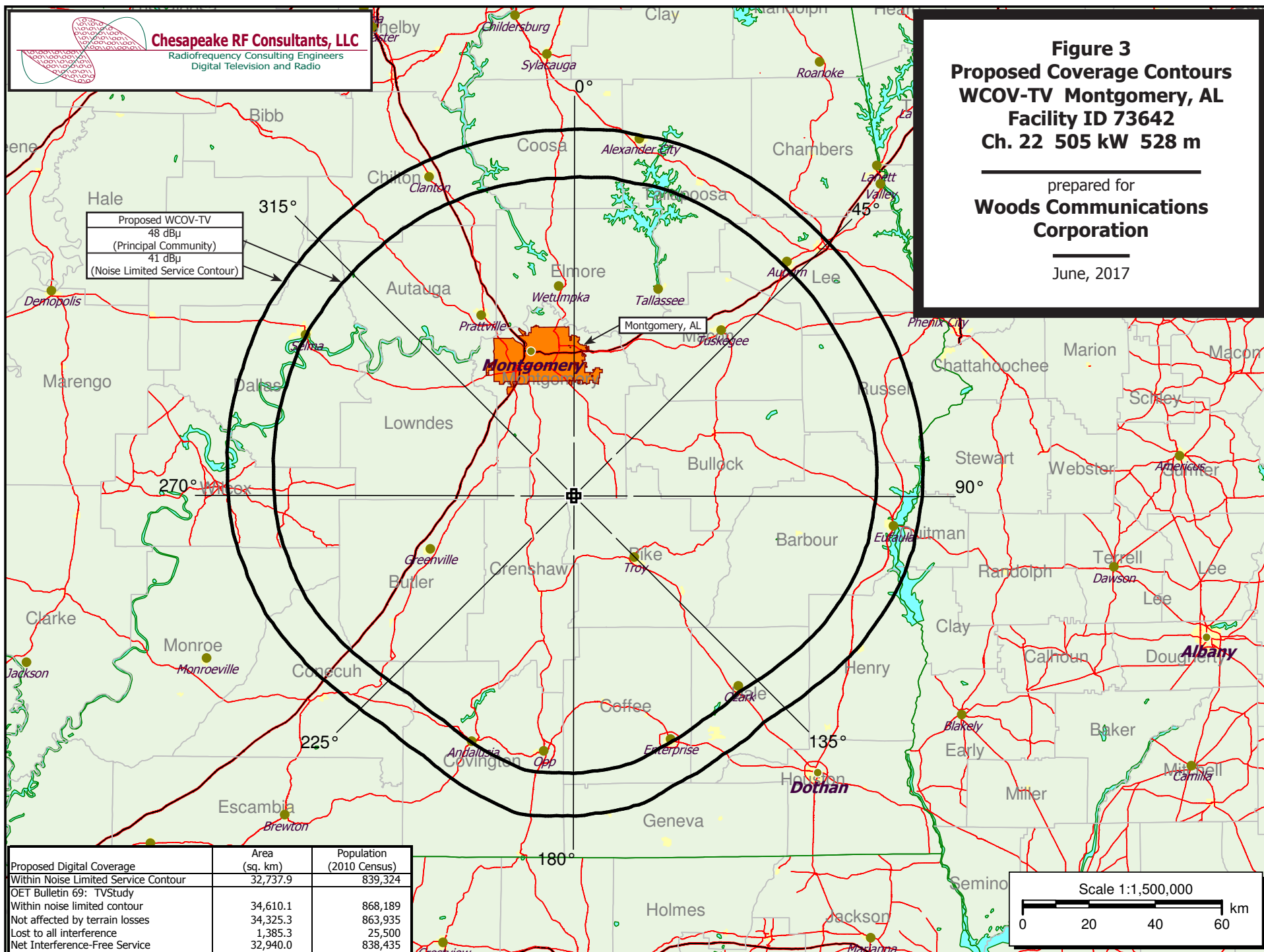
**Figure 2**  
**Antenna Elevation Pattern**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 505 kW 528 m**

prepared for  
**Woods Communications Corporation**

June, 2017



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Radiofrequency Consulting Engineers  
Digital Television and Radio

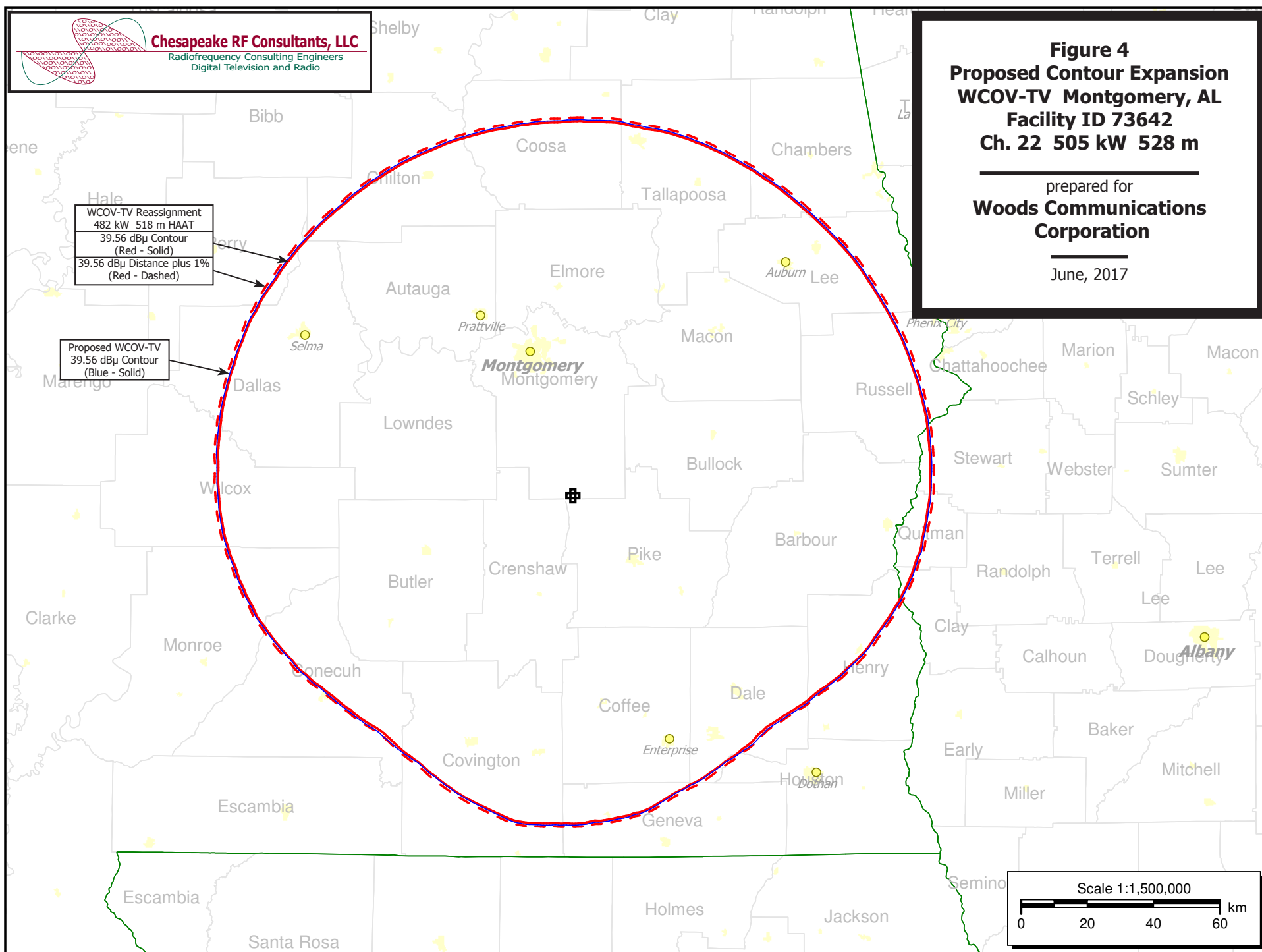
**Figure 4**  
**Proposed Contour Expansion**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 505 kW 528 m**

prepared for  
**Woods Communications Corporation**

June, 2017

WCOV-TV Reassignment  
482 kW 518 m HAAT  
39.56 dBμ Contour  
(Red - Solid)  
39.56 dBμ Distance plus 1%  
(Red - Dashed)

Proposed WCOV-TV  
39.56 dBμ Contour  
(Blue - Solid)







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Radiofrequency Consulting Engineers  
Digital Television and Radio

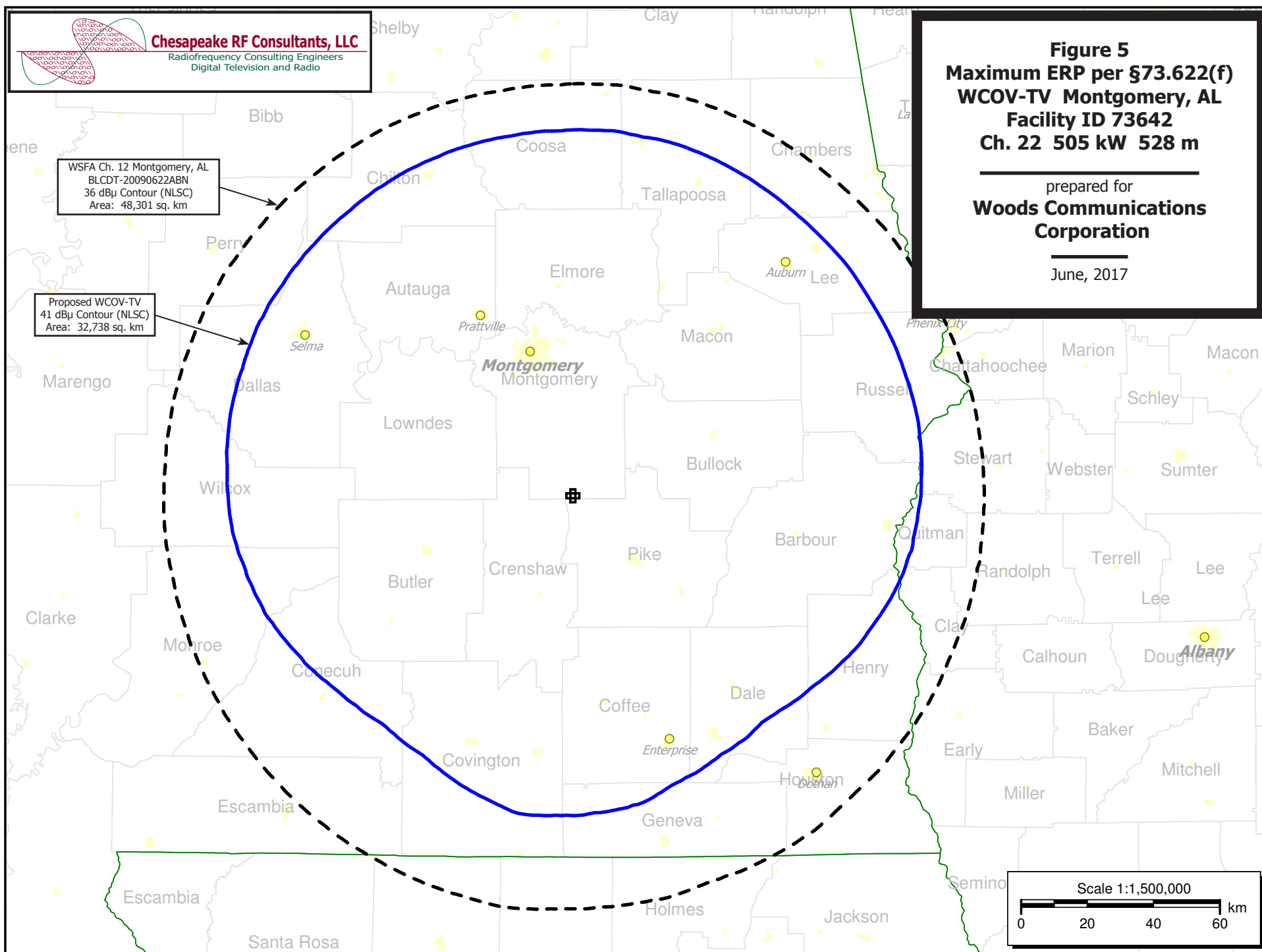
**Figure 5**  
**Maximum ERP per §73.622(f)**  
**WCOV-TV Montgomery, AL**  
**Facility ID 73642**  
**Ch. 22 505 kW 528 m**

prepared for  
**Woods Communications Corporation**

June, 2017

WSFA Ch. 12 Montgomery, AL  
BLCOT-20090622ABN  
36 dBu Contour (NLSC)  
Area: 48,301 sq. km

Proposed WCOV-TV  
41 dBu Contour (NLSC)  
Area: 32,738 sq. km



**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
(page 1 of 11)



tvstudy v2.2.2

Database: localhost, Study: WCOV-TV 505KW PROP, Model: Longley-Rice  
Start: 2017.06.27 15:58:43

Study created: 2017.06.27 15:58:37

Study build station data: LMS TV 2017-06-26 LMSTV

Proposal: WCOV-TV D22 DT APP MONTGOMERY, AL  
File number: WCOV-TV 505KW  
Facility ID: 73642  
Station data: User record  
Record ID: 613  
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	114.6 km
WTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	178.3
WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	261.6
WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	326.2
WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	178.4
WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	202.7
WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	252.8
WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	252.8
WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	265.4
WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	454.7
WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	297.6
WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	297.6
WDFM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	204.5
WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	159.8
WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	182.8
WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	259.3

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: 31 58 29.00 N (NAD83)  
Longitude: 86 9 44.00 W  
Height AMSL: 659.0 m  
HAAT: 527.6 m  
Peak ERP: 505 kW  
Antenna: TFU-30DSC S190 20170413 0.0 deg

39.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	505 kW	531.5 m	113.3 km
45.0	423	522.6	111.1
90.0	284	528.3	107.8
135.0	55.0	520.9	92.8
180.0	102	534.8	99.1
225.0	55.0	529.9	93.5
270.0	284	517.7	107.0
315.0	423	534.7	111.9

ERP exceeds maximum

ERP: 505 kW ERP maximum: 445 kW

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

Distance to Canadian border: 1121.7 km

Distance to Mexican border: 1239.8 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 32.2 degrees Distance: 249.1 km  
ERP: 459 kW Field strength: 19.9 dBu, 0.0 mV/m

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
(page 2 of 11)



Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 303.3 degrees Distance: 1931.8 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 BLCDT20090303ACR LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	114.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	114.6
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	145.3
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	286.2
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	373.6
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	294.5
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	147.7
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	125.9
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	142.0
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	22899.1	452,377	22746.1	451,978	22381.1	450,347	22381.1 449,638 -0.00 0.16
-----							
Undesired			Total IX		Unique IX, before		Unique IX, after
WCOV-TV D22 DT BL	264.5		1,226		208.2	1,136	
WCOV-TV D22 DT APP	264.4		1,935				208.1 1,845
WCTV D20 DT BL	11.9		30		0.0	0	0.0 0
WTTO D21 DT BL	121.0		251		52.5	120	52.5 120
WPBA D21 DT LIC	16.2		41		0.0	0	0.0 0
WTWC-TV D22 DT CP	35.8		244		23.9	214	23.9 214

-----  
Interference to BLCDT20090303ACR LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	114.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	114.6
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	145.3
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	286.2
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	373.6
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	294.5
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	147.7
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	125.9
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	142.0
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	22899.1	452,377	22746.1	451,978	22381.1	450,347	22381.1 449,638 -0.00 0.16
-----							
Undesired			Total IX		Unique IX, before		Unique IX, after
WCOV-TV D22 DT BL	264.5		1,226		208.2	1,136	
WCOV-TV D22 DT APP	264.4		1,935				208.1 1,845
WCTV D20 DT BL	11.9		30		0.0	0	0.0 0
WTTO D21 DT BL	121.0		251		52.5	120	52.5 120
WPBA D21 DT LIC	16.2		41		0.0	0	0.0 0
WTWC-TV D22 DT CP	35.8		244		23.9	214	23.9 214

-----  
Interference to BLCDT20090303ACR LIC, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	114.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	114.6
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	145.3
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	286.2
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	373.6
	WPBA	D21	DT	LIC	ATLANTA, GA	BLED20041013ABK	294.5
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	147.7
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	125.9
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	142.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
22899.1 452,377	22746.1 451,978	22381.1 450,347	22381.1 449,638	-0.00 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	264.5 1,226	208.2 1,136	
WCOV-TV D22 DT APP	264.4 1,935		208.1 1,845
WCTV D20 DT BL	11.9 30	0.0 0	0.0 0
WTTO D21 DT BL	121.0 251	52.5 120	52.5 120
WPBA D21 DT LIC	16.2 41	0.0 0	0.0 0
WTWC-TV D22 DT BL	35.8 244	23.9 214	23.9 214

-----  
Interference to BLCDT20090303ACR LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	114.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	114.6
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	145.3
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	286.2
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	373.6
	WPBA	D21	DT	LIC	ATLANTA, GA	BLED20041013ABK	294.5
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	147.7
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	125.9
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	142.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
22899.1 452,377	22746.1 451,978	22381.1 450,347	22381.1 449,638	-0.00 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	264.5 1,226	208.2 1,136	
WCOV-TV D22 DT APP	264.4 1,935		208.1 1,845
WCTV D20 DT BL	11.9 30	0.0 0	0.0 0
WTTO D21 DT BL	121.0 251	52.5 120	52.5 120
WPBA D21 DT LIC	16.2 41	0.0 0	0.0 0
WTWC-TV D22 DT BL	35.8 244	23.9 214	23.9 214

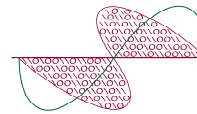
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Interference to DTVBL74138 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	178.3 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	178.3
	WABM	D20	DT	BL	BIRMINGHAM, AL	DTVBL16820	0.0
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	286.2
	WPBA	D21	DT	LIC	ATLANTA, GA	BLED20041013ABK	230.8
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	352.0
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	331.3
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	308.9
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLED20060718ACG	151.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32777.6 1,817,300	31704.5 1,788,191	30686.8 1,761,705	30682.7 1,761,680	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	285.2 5,088	96.4 1,282	
WCOV-TV D22 DT APP	281.2 5,344		100.5 1,307
WDHN D21 DT LIC	613.4 11,847	336.5 6,298	344.6 6,067
WPBA D21 DT LIC	131.9 4,339	68.0 1,825	68.0 1,825

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
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WAPT D21 DT LIC	128.1	2,546	88.0	2,434	88.0	2,434
WJKT D21 DT BL	32.0	165	24.0	127	24.0	127
WUXP-TV D21 DT LIC	124.0	8,955	107.9	8,066	107.9	8,066

-----  
Interference to BLEDT20041013ABK LIC, scenario 1  
Proposal causes no interference.

-----  
Interference to BLEDT20041013ABK LIC, scenario 2  
Proposal causes no interference.

-----  
Interference to BLEDT20041013ABK LIC, scenario 3  
Proposal causes no interference.

-----  
Interference to BLEDT20041013ABK LIC, scenario 4  
Proposal causes no interference.

-----  
Interference to BLEDT20060718ACG LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	326.2 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	326.2
	WTTD	D21	DT	BL	HOMESWOOD, AL	DTVBL74138	151.2
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	180.3
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	328.0
	WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	377.8
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	283.5
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	159.6
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20448.9	546,563	20252.8	544,258	20112.5	541,458	20108.5 541,451	0.02 0.00
-----							
Undesired	Total IX		Unique IX, before		Unique IX, after		
WCOV-TV D22 DT BL	88.2	1,910	52.1	1,037			
WCOV-TV D22 DT APP	96.2	2,014			56.1	1,044	
WTTD D21 DT BL	72.1	1,584	36.1	799	32.1	702	
WHSG-TV D22 DT BL	16.0	189	0.0	0	0.0	0	
WCTE D22 DT LIC	12.0	91	8.0	32	8.0	32	

-----  
Interference to BLEDT20060718ACG LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	326.2 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	326.2
	WTTD	D21	DT	BL	HOMESWOOD, AL	DTVBL74138	151.2
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	180.3
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	328.0
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	377.7
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	283.5
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	159.6
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20448.9	546,563	20252.8	544,258	20112.5	541,458	20108.5 541,451	0.02 0.00
-----							
Undesired	Total IX		Unique IX, before		Unique IX, after		
WCOV-TV D22 DT BL	88.2	1,910	52.1	1,037			
WCOV-TV D22 DT APP	96.2	2,014			56.1	1,044	
WTTD D21 DT BL	72.1	1,584	36.1	799	32.1	702	
WHSG-TV D22 DT BL	16.0	189	0.0	0	0.0	0	
WCTE D22 DT LIC	12.0	91	8.0	32	8.0	32	

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Interference to DTVBL4353 BL, scenario 1  
Proposal causes no interference.

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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Interference to DTVBL4353 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL4353 BL, scenario 3  
Proposal causes no interference.

-----  
Interference to DTVBL4353 BL, scenario 4  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 1  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 2  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 3  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 4  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 5  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 6  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 7  
Proposal causes no interference.

-----  
Interference to BLDTA20141222AAC LIC, scenario 8  
Proposal causes no interference.

-----  
Interference to BLANK0000025125 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	252.8 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	252.8
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDDT20090303ACR	142.0
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	244.7
	WOTF-DT	D22	DT	BL	MELBOURNE, FL	DTVBL5802	363.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	181.8
	WARP-CD	D22	DC	CP	TAMPA-ST. PETERSBURG, FL	BLANK0000025105	338.9
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDDT20091013AFS	293.1
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40034.3	1,032,942	40034.3	1,032,942	39783.5	1,031,183	39779.5	1,031,183
-----							
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCOV-TV D22 DT BL				35.8	145	8.0	51
WCOV-TV D22 DT APP				39.7	145	11.9	51
WDHN D21 DT LIC				179.2	1,353	179.2	1,353
WPFN-CD D22 DC LIC				24.1	269	16.0	232
WHSG-TV D22 DT BL				27.7	57	0.0	0
WJCL D22 DT LIC				23.8	49	11.9	29

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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Interference to BLANK0000025125 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	252.8 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	252.8
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	142.0
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	244.7
	WOTF-DT	D22	DT	BL	MELBOURNE, FL	DTVBL5802	363.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	181.8
	WARP-CD	D22	DC	BL	TAMPA-ST. PETERSBURG, FL	DTVBL55106	339.0
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	293.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40034.3 1,032,942		40034.3 1,032,942		39783.5 1,031,183		39779.5 1,031,183	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WCOV-TV D22 DT BL		35.8 145		8.0 51			
WCOV-TV D22 DT APP		39.7 145				11.9 51	
WDHN D21 DT LIC		179.2 1,353		179.2 1,353		179.2 1,353	
WPFN-CD D22 DC LIC		24.1 269		16.0 232		16.0 232	
WHSG-TV D22 DT BL		27.7 57		0.0 0		0.0 0	
WJCL D22 DT LIC		23.8 49		11.9 29		11.9 29	

Interference to DTVBL66908 BL, scenario 1

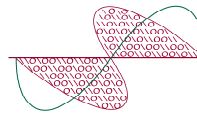
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	252.8 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	252.8
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	142.0
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	244.7
	WOTF-DT	D22	DT	BL	MELBOURNE, FL	DTVBL5802	363.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	181.8
	WARP-CD	D22	DC	CP	TAMPA-ST. PETERSBURG, FL	BLANK0000025105	339.0
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	293.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40034.3 1,032,942		40034.3 1,032,942		39787.5 1,031,183		39779.5 1,031,183	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WCOV-TV D22 DT BL		31.8 145		4.0 51			
WCOV-TV D22 DT APP		39.7 145				11.9 51	
WDHN D21 DT LIC		179.2 1,353		179.2 1,353		179.2 1,353	
WPFN-CD D22 DC LIC		24.1 269		16.0 232		16.0 232	
WHSG-TV D22 DT BL		27.7 57		0.0 0		0.0 0	
WJCL D22 DT LIC		23.8 49		11.9 29		11.9 29	

Interference to DTVBL66908 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	252.8 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	252.8
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	142.0
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	244.7
	WOTF-DT	D22	DT	BL	MELBOURNE, FL	DTVBL5802	363.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	181.8
	WARP-CD	D22	DC	BL	TAMPA-ST. PETERSBURG, FL	DTVBL55106	339.0
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	293.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40034.3 1,032,942		40034.3 1,032,942		39787.5 1,031,183		39779.5 1,031,183	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	



**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

WCOV-TV D22 DT BL	31.8	145	4.0	51		
WCOV-TV D22 DT APP	39.7	145			11.9	51
WDHN D21 DT LIC	179.2	1,353	179.2	1,353	179.2	1,353
WPFN-CD D22 DC LIC	24.1	269	16.0	232	16.0	232
WHSG-TV D22 DT BL	27.7	57	0.0	0	0.0	0
WJCL D22 DT LIC	23.8	49	11.9	29	11.9	29

-----  
Interference to DTVBL68058 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	265.4 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	265.4
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	5.4
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	328.0
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDDT20091013AFS	340.8
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	331.4
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	278.5
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	341.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	178.4
	WKTB-CD	D23	DC	CP	NORCROSS, GA	BLANK0000025118	17.6
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	138.1
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	178.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
29440.9		5,900,872		28302.7		5,802,157	0.07
						5,801,719	0.01

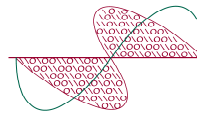
Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	344.2	13,990	288.1
WCOV-TV D22 DT APP	376.2	15,613	9,935
WPBA D21 DT LIC	4.0	0	0
WFIQ D22 DT LIC	76.1	3,471	32.0
WTWC-TV D22 DT CP	40.0	2,276	8.0
WJCL D22 DT LIC	40.0	2,178	16.0
WACH D22 DT BL	56.1	4,560	48.0
WCTE D22 DT LIC	171.5	8,776	127.6
WKTB-CD D23 DC CP	16.0	2,523	16.0
WFLI-TV D23 DT BL	19.9	379	8.0
			91
			8.0
			91

-----  
Interference to DTVBL68058 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	265.4 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	265.4
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	5.4
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	328.0
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDDT20091013AFS	340.8
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	331.4
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	278.5
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	341.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	178.4
	WKTB-CD	D23	DC	BL	NORCROSS, GA	DTVBL35418	17.6
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	138.1
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	178.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
29440.9		5,900,872		28302.7		5,802,157	0.07
						5,801,719	0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	344.2	13,990	288.1
WCOV-TV D22 DT APP	376.2	15,613	9,935
WPBA D21 DT LIC	4.0	0	0
WFIQ D22 DT LIC	76.1	3,471	32.0
WTWC-TV D22 DT CP	40.0	2,276	8.0
WJCL D22 DT LIC	40.0	2,178	16.0
WACH D22 DT BL	56.1	4,560	48.0
			4,287
			48.0
			4,287

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WCTE D22 DT LIC	171.5	8,776	127.6	7,381	123.6	6,771
WKTG-CD D23 DC BL	16.0	2,523	16.0	2,523	16.0	2,523
WFLI-TV D23 DT BL	19.9	379	8.0	91	8.0	91

Interference to DTVBL68058 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSB-TV	D22	DT	BL	MONROE, GA	DTVBL68058	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	265.4 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	265.4
	WPBA	D21	DT	LIC	ATLANTA, GA	BLD20041013ABK	5.4
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLD20060718ACG	328.0
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	340.8
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	331.4
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLD20110413ACS	278.5
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLD20120420ACJ	341.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	178.4
	WKTG-CD	D23	DC	CP	NORCROSS, GA	BLANK0000025118	17.6
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	138.1
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	178.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29440.9 5,900,872	28302.7 5,833,041	27655.0 5,802,157	27635.0 5,801,719	0.07 0.01
Undesired	Total IX	Unique IX, before	Unique IX, after	
WCOV-TV D22 DT BL	344.2 13,990	284.1 9,924		
WCOV-TV D22 DT APP	376.2 15,613		304.1 10,362	
WPBA D21 DT LIC	4.0 0	0.0 0	0.0 0	
WFIQ D22 DT LIC	76.1 3,471	32.0 955	28.0 422	
WTWC-TV D22 DT BL	44.0 2,287	8.0 368	8.0 368	
WJCL D22 DT LIC	40.0 2,178	16.0 101	16.0 101	
WACH D22 DT BL	56.1 4,560	48.0 4,287	48.0 4,287	
WCTE D22 DT LIC	171.5 8,776	127.6 7,381	123.6 6,771	
WKTG-CD D23 DC CP	16.0 2,523	16.0 2,523	16.0 2,523	
WFLI-TV D23 DT BL	19.9 379	8.0 91	8.0 91	

Interference to DTVBL68058 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSB-TV	D22	DT	BL	MONROE, GA	DTVBL68058	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	265.4 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	265.4
	WPBA	D21	DT	LIC	ATLANTA, GA	BLD20041013ABK	5.4
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLD20060718ACG	328.0
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	349.2
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLCDT20091013AFS	340.8
	WACH	D22	DT	BL	COLUMBIA, SC	DTVBL19199	331.4
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLD20110413ACS	278.5
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLD20120420ACJ	341.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	178.4
	WKTG-CD	D23	DC	BL	NORCROSS, GA	DTVBL35418	17.6
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	138.1
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	178.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29440.9 5,900,872	28302.7 5,833,041	27655.0 5,802,157	27635.0 5,801,719	0.07 0.01
Undesired	Total IX	Unique IX, before	Unique IX, after	
WCOV-TV D22 DT BL	344.2 13,990	284.1 9,924		
WCOV-TV D22 DT APP	376.2 15,613		304.1 10,362	
WPBA D21 DT LIC	4.0 0	0.0 0	0.0 0	
WFIQ D22 DT LIC	76.1 3,471	32.0 955	28.0 422	
WTWC-TV D22 DT BL	44.0 2,287	8.0 368	8.0 368	
WJCL D22 DT LIC	40.0 2,178	16.0 101	16.0 101	
WACH D22 DT BL	56.1 4,560	48.0 4,287	48.0 4,287	
WCTE D22 DT LIC	171.5 8,776	127.6 7,381	123.6 6,771	
WKTG-CD D23 DC BL	16.0 2,523	16.0 2,523	16.0 2,523	
WFLI-TV D23 DT BL	19.9 379	8.0 91	8.0 91	

**Table 1 WCOV-TV OET Bulletin 69 Interference Study**  
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Interference to BLCDT20091013AFS LIC, scenario 1  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 2  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 3  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 4  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 5  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 6  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 7  
Proposal causes no interference.

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Interference to BLCDT20091013AFS LIC, scenario 8  
Proposal causes no interference.

-----  
Interference to BLANK0000002705 APP, scenario 1

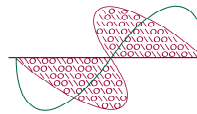
	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	297.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	297.6
	WHNO	D21	DT	LIC	NEW ORLEANS, LA	BLCDT20050413AAK	181.4
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	139.2
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	377.8
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	283.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	357.2
	KWBJ-CD	D22	DC	LIC	MORGAN CITY, LA	BLDTA20090512AAZ	265.5
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	181.1
	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	285.6
	KMCT-TV	D22	DT	BL	WEST MONROE, LA	DTVBL38584	300.6
	WDPM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	178.6
	WLAE-TV	D23	DT	BL	NEW ORLEANS, LA	DTVBL18819	172.3
	WWJX	D23	DT	LIC	JACKSON, MS	BLCDT20110824ABD	126.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26536.0	484,432	26318.8	483,532	0.02
		25929.1	477,288	0.01
Undesired		Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL	127.8	1,306	123.8	1,302
WCOV-TV D22 DT APP	131.8	1,363		127.7 1,359
WAPT D21 DT LIC	217.9	3,187	217.9	3,187
WFIQ D22 DT LIC	4.0	4	0.0	0
WTNO-LP D22 DC LIC	36.0	1,650	36.0	1,650
WDPM-DT D23 DT LIC	8.0	101	8.0	101

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Interference to BLCDT20091216AAL LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	
Undesireds:	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	297.6 km
	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	297.6

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WHNO	D21	DT	LIC	NEW ORLEANS, LA	BLCDT20050413AAK	181.5
WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	139.2
WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	377.7
WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	283.4
WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	357.1
KWBJ-CD	D22	DC	LIC	MORGAN CITY, LA	BLDTA20090512AAZ	265.6
WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	181.1
KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	285.6
KMCT-TV	D22	DT	BL	WEST MONROE, LA	DTVBL38584	300.6
WDPM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	178.6
WLAE-TV	D23	DT	BL	NEW ORLEANS, LA	DTVBL18819	172.3
WWJX	D23	DT	LIC	JACKSON, MS	BLCDT20110824ABD	126.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26548.1 484,404	26331.1 483,571	25989.5 478,097	25989.5 478,097	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WCOV-TV D22 DT BL 79.7	816	75.7	816
WCOV-TV D22 DT APP 79.7	816	75.7	816
WAPT D21 DT LIC 221.9	3,229	221.9	3,229
WFIQ D22 DT LIC 4.0	0	0.0	0
WTNO-LP D22 DC LIC 36.0	1,397	36.0	1,397
WDPM-DT D23 DT LIC 4.0	32	4.0	32

Interference to BLCDT20090420AAD LIC, scenario 1  
Proposal causes no interference.

Interference to BLCDT20090420AAD LIC, scenario 2  
Proposal causes no interference.

Interference to DTVBL31649 BL, scenario 1  
Proposal causes no interference.

Interference to DTVBL31649 BL, scenario 2  
Proposal causes no interference.

Interference to DTVBL31649 BL, scenario 3  
Proposal causes no interference.

Interference to DTVBL31649 BL, scenario 4  
Proposal causes no interference.

Interference to BLANK0000001646 LIC, scenario 1  
Proposal causes no interference.

Interference to BLANK0000001646 LIC, scenario 2  
Proposal causes no interference.

Interference to DTVBL54728 BL, scenario 1  
Proposal causes no interference.

Interference to DTVBL54728 BL, scenario 2  
Proposal causes no interference.

Interference to DTVBL54728 BL, scenario 3  
Proposal causes no interference.

Interference to DTVBL54728 BL, scenario 4  
Proposal causes no interference.

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Interference to DTVBL54728 BL, scenario 5  
Proposal causes no interference.

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Interference to DTVBL54728 BL, scenario 6  
Proposal causes no interference.

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Interference to DTVBL54728 BL, scenario 7  
Proposal causes no interference.

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Interference to DTVBL54728 BL, scenario 8  
Proposal causes no interference.

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Interference to proposal, scenario 1  
\*\*MX: 2.95% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCOV-TV	D22	DT	APP	MONTGOMERY, AL	WCOV-TV 505KW	
Undesireds:	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDDT20090303ACR	114.6 km
	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	178.3
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	326.2
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	178.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	202.7
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000025125	252.8
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	265.4
	WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	297.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	159.8
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	182.8

	Service area	Terrain-limited	IX-free	Percent IX
34610.1	868,189	34325.3	863,935	32940.0
				838,435
				4.04
				2.95

Undesired	Total IX	Unique IX	Prcnt Unique IX
WDHN D21 DT LIC	396.5	12,215	222.0
WTTO D21 DT BL	16.0	248	12.0
WFIQ D22 DT LIC	60.3	433	16.1
WPFN-CD D22 DC LIC	4.0	0	4.0
WTWC-TV D22 DT CP	455.7	11,180	160.3
WHSG-TV D22 DT BL	442.4	8,031	293.4
WHLT D22 DT APP	378.0	2,368	333.9

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	73642
	State	Alabama
	City	MONTGOMERY
	DTV Channel	22
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	3

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1036432
Coordinates (NAD83)	Latitude	31° 58' 29.0" N+
	Longitude	086° 09' 44.0" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	589.8 meters
	Support Structure Height	564.8 meters
	Ground Elevation (AMSL)	162.2 meters
Antenna Data	Height of Radiation Center Above Ground Level	496.8 meters
	Height of Radiation Center Above Average Terrain	527.6 meters
	Height of Radiation Center Above Mean Sea Level	659.0 meters
	Effective Radiated Power	505 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-30DSC-R S190
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)
0	1.000	90	0.750	180	0.450	270	0.750
10	1.000	100	0.680	190	0.430	280	0.810
20	0.980	110	0.580	200	0.370	290	0.840
30	0.960	120	0.460	210	0.310	300	0.870
40	0.930	130	0.360	220	0.300	310	0.900
50	0.900	140	0.300	230	0.360	320	0.930
60	0.870	150	0.310	240	0.460	330	0.960
70	0.840	160	0.370	250	0.580	340	0.980
80	0.810	170	0.430	260	0.680	350	1.000

Additional Azimuths

Degree	V <sub>A</sub>
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Construction  
Permit  
Certifications

Section	Question	Response
Post-Incentive Auction Expedited Processing	It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.	Yes
	It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.	No
	It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.	Yes
	The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	Yes
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
Broadcast Facility	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C. F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes