

## **ENGINEERING EXHIBIT**

### **Incentive Auction Channel Reassignment**

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

prepared for

#### **Gray Television Licensee, LLC**

WTOK-TV Meridian, MS

Facility ID 4686

Ch. 13 104 kW 159 m

*Gray Television Licensee, LLC (“Gray”)* is the licensee of digital television station W TOK-TV, Channel 11, Facility ID 4686, Meridian MS. *Gray* herein proposes construction of the W TOK-TV post-auction facility on Channel 13. Reassignment of W TOK-TV from Channel 11 to Channel 13 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice (“CCRPN”, DA 17-317, released April 13, 2017)*.

*Gray* proposes to operate W TOK-TV with an effective radiated power (“ERP”) of 104 kW at 159 meters antenna height above average terrain (“HAAT”).

The proposed Channel 13 operation will employ a new antenna system to be top-mounted on the W TOK-TV tower in lieu of the existing Channel 11 antenna. The proposed antenna is a circularly polarized nondirectional Dielectric model THV-10A13/VP-R O4. The proposed antenna’s length is less than the existing antenna, resulting in a reduction of the antenna’s radiation center height above ground by 2.8 meters. The proposed HAAT is recalculated to be 159.1 meters, based on FCC 30 meter terrain data developed by OET.

The W TOK-TV tower structure corresponds to FCC Antenna Structure Registration number 1041065, having an overall structure height above ground of 96.3 meters. The antenna replacement will result in a reduction in the structure’s overall height to 90.8 meters. Following construction, the FAA will be notified of the reduction in height and the FCC ASR will be modified accordingly.

A map is supplied as Figure 1 which depicts the standard predicted coverage contours. This map includes the location of Meridian, WТОK-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 43 dBμ contour.

The proposed noise limited service contour ("NLSC") extends beyond that of the *CCRPN* parameters of 90 kW ERP and 160 meters HAAT. The proposal complies with §73.3700(b)(ii) as described in the following.

WTOK-TV's reassignment facility experiences a loss of interference-free coverage area within the NLSC when compared to that of its baseline<sup>1</sup> pre-auction facility. Detailed analysis shows that an area of 72.1 square kilometers having a population of 267 persons which received interference-free service from the baseline WТОK-TV facility does not receive interference-free service from the reassignment parameters. A map is supplied as Figure 2 which shows the interference-free results for the *CCRPN* parameters and the baseline interference-free individual cells that are lost at reassignment. Therefore, WТОK-TV qualifies under §73.3700(b)(ii)(A) for a contour extension due the loss of interference-free 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.

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<sup>1</sup>"*Final Digital Television Baseline Coverage Area And Population Served Information Related To Incentive Auction Repacking*," DA 15-1296, Public Notice, Released November 12, 2015.

<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 amount of NLSC extension does not exceed one percent in any direction. Figure 3 supplies a coverage contour comparison of the proposed WТОK-TV facility to the reassignment facility's contour and a one percent extension distance of the reassignment facility's contour. 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).

The proposed WТОK-TV facility's terrain-limited population provides a 101.1 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	410,182	413,693
Not affected by terrain losses	403,526	407,858
Match of Reassignment	---	<b>101.07%</b>

The nearest FCC monitoring station is 408 km distant at Powder Springs, GA. 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). There are no authorized nondirectional AM stations within 0.5 kilometers and no authorized directional AM stations within 3 kilometers of the site. The site location is beyond the border areas requiring international coordination.

### **Human Exposure to Radiofrequency Electromagnetic Field**

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 8 percent antenna relative field in downward elevations (pattern data shows less than 8 percent relative field at angles 30 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  $7.0 \mu\text{W}/\text{cm}^2$ , which is 3.5 percent of the general population/uncontrolled maximum permitted exposure limit. This is 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.

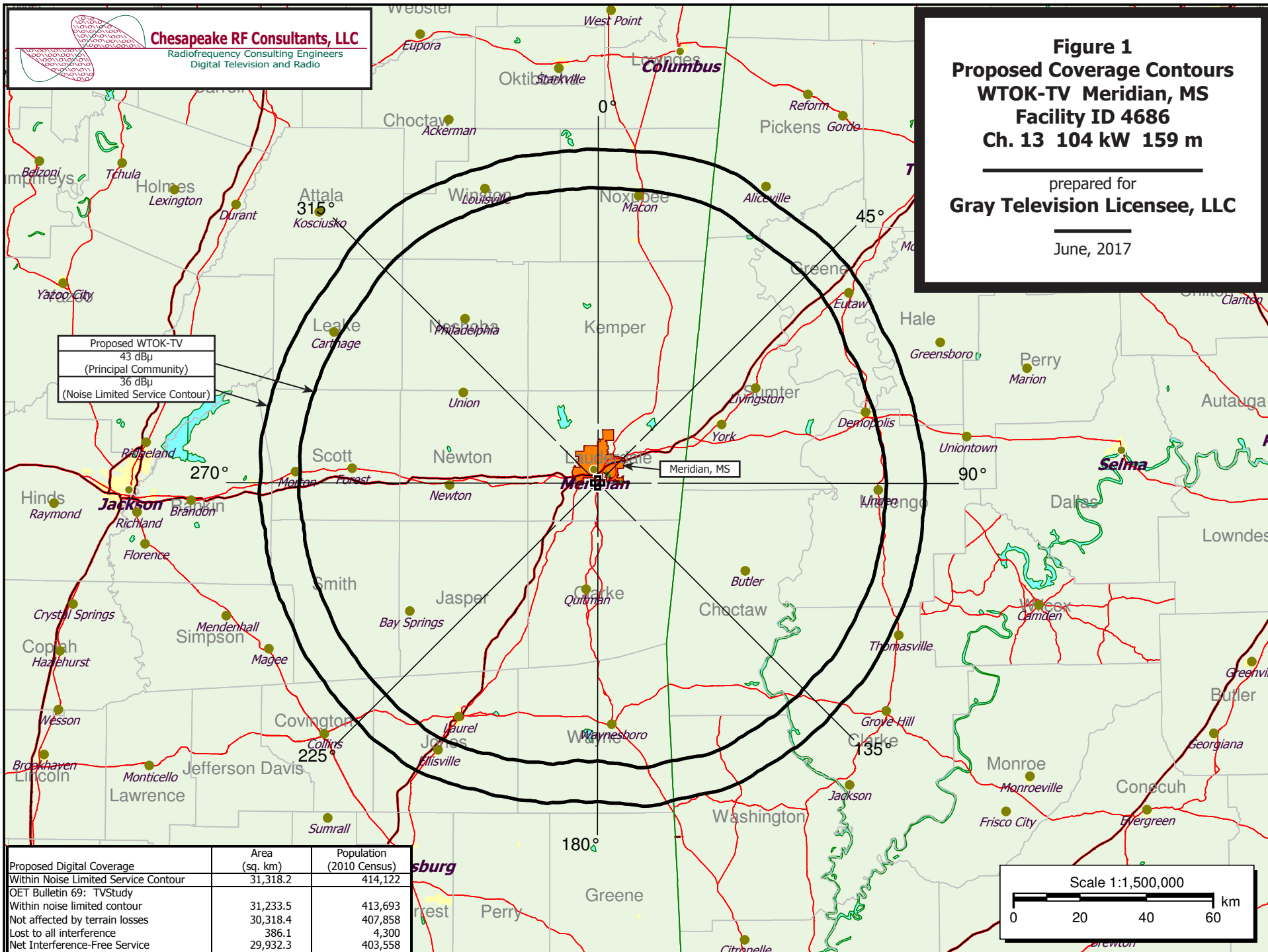
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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*

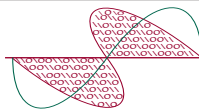
Figure 1	Proposed Coverage Contours
Figure 2	Reassignment Service Loss
Figure 3	Proposed Contour Expansion
Table 1	OET Bulletin 69 Interference Study
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.	June 26, 2017	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600





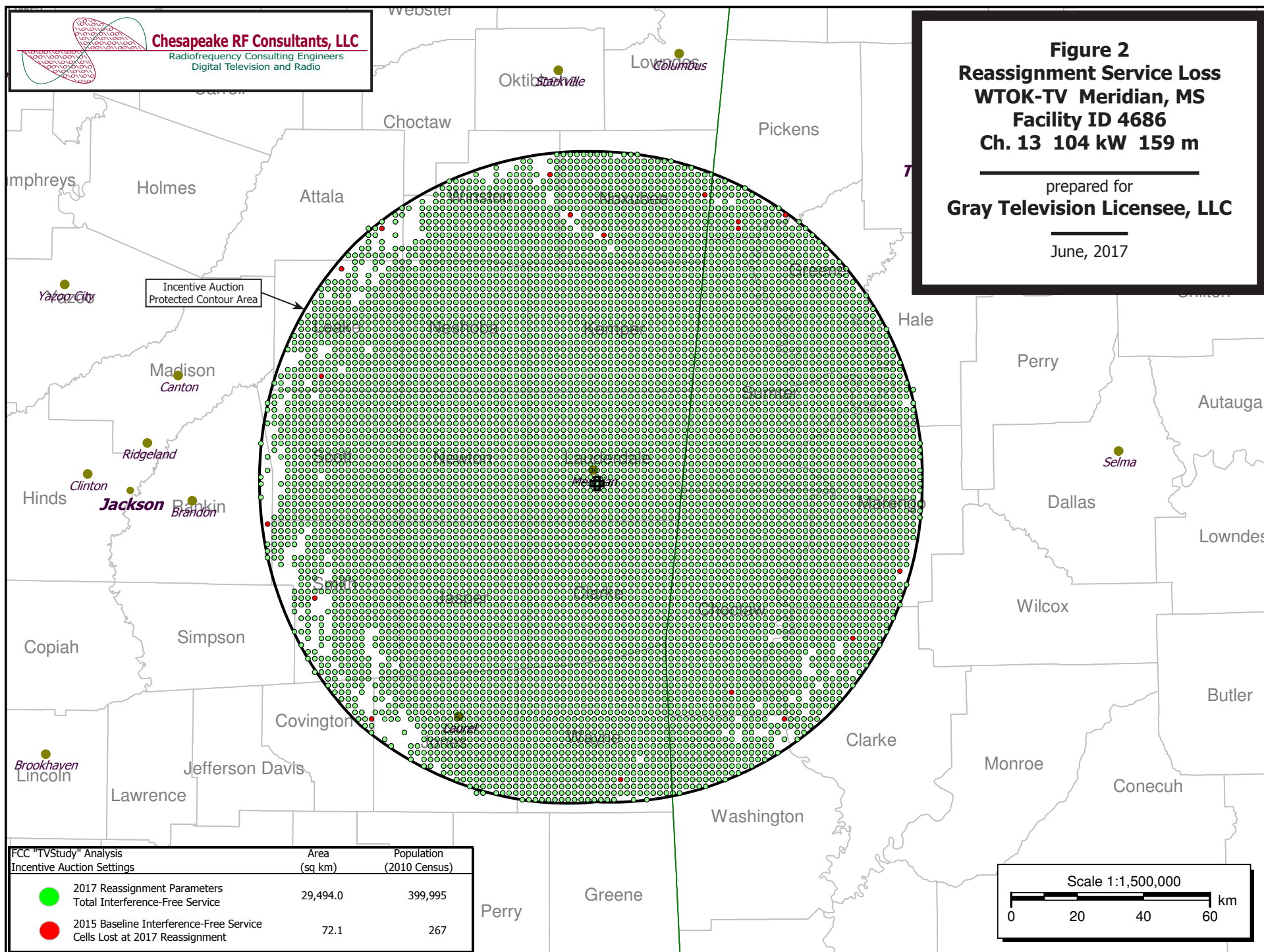


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Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 2**  
**Reassignment Service Loss**  
**WTOK-TV Meridian, MS**  
**Facility ID 4686**  
**Ch. 13 104 kW 159 m**

prepared for  
**Gray Television Licensee, LLC**

June, 2017





**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

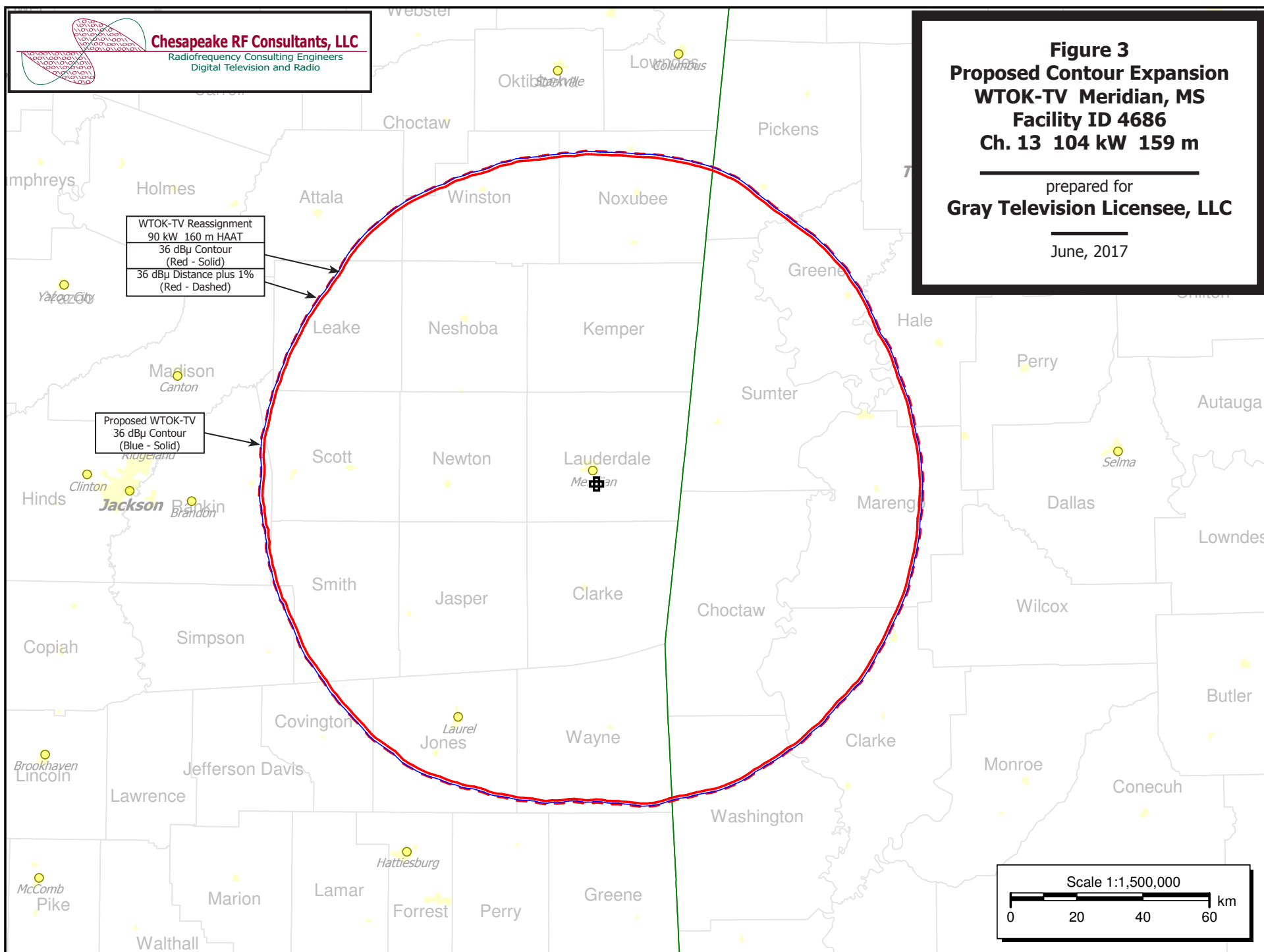
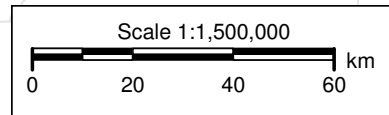
**Figure 3**  
**Proposed Contour Expansion**  
**WTOK-TV Meridian, MS**  
**Facility ID 4686**  
**Ch. 13 104 kW 159 m**

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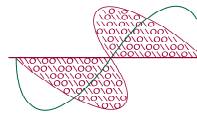
June, 2017

WTOK-TV Reassignment  
90 kW 160 m HAAT  
36 dBu Contour  
(Red - Solid)  
36 dBu Distance plus 1%  
(Red - Dashed)

Proposed WТОK-TV  
36 dBu Contour  
(Blue - Solid)



**Table 1 WTOK-TV OET Bulletin 69 Interference Study**  
(page 1 of 5)



**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

tvstudy v2.2.2

Database: localhost, Study: WTOK-TV 104KW\_PROP, Model: Longley-Rice  
Start: 2017.06.26 17:47:27

Study created: 2017.06.26 17:47:17

Study build station data: LMS TV 2017-06-23 LMSTV

Proposal: WTOK-TV D13 DT APP MERIDIAN, MS  
File number: WTOK-TV 104KW\_PROP  
Facility ID: 4686  
Station data: User record  
Record ID: 654  
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WJTV	D12	DT	LIC	JACKSON, MS	BLCDT20111014ABR	161.3 km
KETG	D13	DT	LIC	ARKADELPHIA, AR	BLEDT20100308ACO	447.5
WMBB	D13	DT	LIC	PANAMA CITY, FL	BLCDT20090220AAF	382.5
WBRZ-TV	D13	DT	LIC	BATON ROUGE, LA	BLCDT20110420ABI	327.7
KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	317.9
WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLCDT20110729ACZ	443.4
WHEQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	334.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D13  
Latitude: 32 19 39.00 N (NAD83)  
Longitude: 88 41 28.00 W  
Height AMSL: 285.3 m  
HAAT: 159.1 m  
Peak ERP: 104 kW  
Antenna: Omnidirectional

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	104 kW	162.8 m	100.2 km
45.0	104	156.2	99.4
90.0	104	144.5	98.1
135.0	104	149.3	98.6
180.0	104	124.4	95.5
225.0	104	177.4	101.9
270.0	104	174.3	101.5
315.0	104	183.8	102.6

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

Distance to Canadian border: 1167.4 km

Distance to Mexican border: 1065.7 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 64.1 degrees Distance: 406.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 305.0 degrees Distance: 1712.8 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%



**Table 1 WTOK-TV OET Bulletin 69 Interference Study**  
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Interference to BLCDT20111014ABR LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJTV	D12	DT	LIC	JACKSON, MS	BLCDT20111014ABR	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	161.3 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	161.3
	KMLU	D11	DT	LIC	COLUMBIA, LA	BLCDT20121106AAT	156.8
	WTVA	D11	DT	BL	TUPELO, MS	DTVBL74148	211.8
	KTHV	D12	DT	LIC	LITTLE ROCK, AR	BLCDT20041029AIX	344.3
	WBQP-CD	D12	DC	LIC	PENSACOLA, FL	BLDVA20120802AAK	357.6
	KBMT	D12	DT	LIC	BEAUMONT, TX	BLCDT20090610ACH	401.8
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	156.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
45792.3		987,206		44910.0		980,717	0.03 0.01
				44140.4		968,193	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTOK-TV D13 DT BL		177.4		5,281		177.4	5,281
WTOK-TV D13 DT APP		189.5		5,355		189.5	5,355
KMLU D11 DT LIC		419.6		5,794		0.0	0
KTHV D12 DT LIC		79.8		289		79.8	289
KLTM-TV D13 DT LIC		512.3		6,954		92.8	1,160

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Interference to BLEDT20100308ACO LIC, scenario 1  
Proposal causes no interference.

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Interference to BLCDT20090220AAF LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMBB	D13	DT	LIC	PANAMA CITY, FL	BLCDT20090220AAF	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	382.5 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	382.5
	WBQP-CD	D12	DC	LIC	PENSACOLA, FL	BLDVA20120802AAK	179.1
	WFXL	D12	DT	LIC	ALBANY, GA	BLCDT20070725AFF	182.0
	WTLV	D13	DT	LIC	JACKSONVILLE, FL	BLCDT20090702AAJ	368.3
	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	318.3
	WBFL-CD	D13-	DC	LIC	VALDOSTA, GA	BLANK0000004604	200.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35921.1		935,027		35654.1		914,607	0.01 0.00
				35478.8		906,659	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTOK-TV D13 DT BL		15.9		55		15.9	55
WTOK-TV D13 DT APP		19.9		55		19.9	55
WTLV D13 DT LIC		28.0		4,552		8.0	2,714
WMAZ-TV D13 DT LIC		151.3		5,179		131.3	3,341

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Interference to BLCDT20110420ABI LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBRZ-TV	D13	DT	LIC	BATON ROUGE, LA	BLCDT20110420ABI	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	327.7 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	327.7
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	227.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35795.3		2,223,336		35393.9		2,222,309	0.08 0.01
				34379.5		2,215,762	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTOK-TV D13 DT BL		167.0		1,359		47.8	828
WTOK-TV D13 DT APP		194.9		1,502		75.6	971
KLTM-TV D13 DT LIC		966.7		5,719		847.4	5,188

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Interference to BLEDT20090619ABS LIC, scenario 1

**Table 1 WTOK-TV OET Bulletin 69 Interference Study**  
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Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	317.9 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	317.9
	WJTV	D12	DT	LIC	JACKSON, MS	BLCDDT20111014ABR	156.8
	KETG	D13	DT	LIC	ARCADELPHIA, AR	BLEDT20100308ACO	213.4
	KEMV	D13	DT	LIC	MOUNTAIN VIEW, AR	BLEDT20100608ACU	402.4
	WBRZ-TV	D13	DT	LIC	BATON ROUGE, LA	BLCDDT20110420ABI	227.1
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDDT20100917AAC	389.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40813.7 694,280		40332.0 688,915		37848.1 666,573		37840.0 666,573	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WTOK-TV D13 DT BL	181.5 3,133	36.4 479	
WTOK-TV D13 DT APP	201.5 3,416		44.4 479
WJTV D12 DT LIC	161.9 1,657	40.4 333	36.4 245
KETG D13 DT LIC	1550.3 10,317	1550.3 10,317	1550.3 10,317
WBRZ-TV D13 DT LIC	824.5 10,916	691.5 8,377	683.6 8,182

Interference to BLCDDT20110729ACZ LIC, scenario 1  
Proposal causes no interference.

Interference to BLCDDT20110729ACZ LIC, scenario 2  
Proposal causes no interference.

Interference to BLCDDT20110729ACZ LIC, scenario 3  
Proposal causes no interference.

Interference to BLCDDT20110729ACZ LIC, scenario 4  
Proposal causes no interference.

Interference to BLCDDT20100917AAC LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDDT20100917AAC	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	334.0 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	334.0
	KETG	D13	DT	LIC	ARCADELPHIA, AR	BLEDT20100308ACO	330.7
	KEMV	D13	DT	LIC	MOUNTAIN VIEW, AR	BLEDT20100608ACU	232.4
	WPXS	D13	DT	CP	MOUNT VERNON, IL	BLANK0000025099	382.0
	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDDT20090423ABM	371.2
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	389.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33865.0 1,736,335		32826.8 1,708,345		31781.5 1,688,149		31741.7 1,687,691	0.13 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WTOK-TV D13 DT BL	259.0 4,813	251.0 4,780	
WTOK-TV D13 DT APP	298.9 5,271		290.9 5,238
KETG D13 DT LIC	19.9 691	4.0 273	4.0 273
KEMV D13 DT LIC	782.1 14,886	762.3 14,437	762.3 14,437
WBKO D13 DT LIC	8.1 257	8.1 257	8.1 257

Interference to BLCDDT20100917AAC LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDDT20100917AAC	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	334.0 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	334.0
	KETG	D13	DT	LIC	ARCADELPHIA, AR	BLEDT20100308ACO	330.7
	KEMV	D13	DT	LIC	MOUNTAIN VIEW, AR	BLEDT20100608ACU	232.4
	WPXS	D13	DT	CP	MOUNT VERNON, IL	BLANK0000025099	382.0

**Table 1 WTOK-TV OET Bulletin 69 Interference Study**  
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	WBKO	D13	DT	CP	BOWLING GREEN, KY		BPCDT20110218ABM		371.2	
	KLTM-TV	D13	DT	LIC	MONROE, LA		BLEDT20090619ABS		389.7	
Service area		Terrain-limited			IX-free, before		IX-free, after		Percent New IX	
33865.0	1,736,335	32826.8	1,708,345		31777.5	1,687,882	31737.6	1,687,424	0.13	0.03
Undesired				Total IX		Unique IX, before		Unique IX, after		
WTOK-TV	D13	DT	BL	259.0	4,813	251.0	4,780			
WTOK-TV	D13	DT	APP	298.9	5,271			290.9	5,238	
KETG	D13	DT	LIC	19.9	691	4.0	273	4.0	273	
KEMV	D13	DT	LIC	782.1	14,886	762.3	14,437	762.3	14,437	
WBKO	D13	DT	CP	12.1	524	12.1	524	12.1	524	

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Interference to BLCDT20100917AAC LIC, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	334.0 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	334.0
	KETG	D13	DT	LIC	ARCADELPHIA, AR	BLEDT20100308ACO	330.7
	KEMV	D13	DT	LIC	MOUNTAIN VIEW, AR	BLEDT20100608ACU	232.4
	WPXS	D13	DT	BL	MOUNT VERNON, IL	DTVBL40861	382.0
	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDT20090423ABM	371.2
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	389.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33865.0	1,736,335	32826.8	1,708,345	31781.5	1,688,149	31741.7 1,687,691	0.13 0.03
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTOK-TV D13 DT BL	259.0	4,813	251.0	4,780			
WTOK-TV D13 DT APP	298.9	5,271			290.9	5,238	
KETG D13 DT LIC	19.9	691	4.0	273	4.0	273	
KEMV D13 DT LIC	782.1	14,886	762.3	14,437	762.3	14,437	
WBKO D13 DT LIC	8.1	257	8.1	257	8.1	257	

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Interference to BLCDT20100917AAC LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	
Undesireds:	WTOK-TV	D13	DT	BL	MERIDIAN, MS	DTVBL4686	334.0 km
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	334.0
	KETG	D13	DT	LIC	ARCADELPHIA, AR	BLEDT20100308ACO	330.7
	KEMV	D13	DT	LIC	MOUNTAIN VIEW, AR	BLEDT20100608ACU	232.4
	WPXS	D13	DT	BL	MOUNT VERNON, IL	DTVBL40861	382.0
	WBKO	D13	DT	CP	BOWLING GREEN, KY	BPCDT20110218ABM	371.2
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	389.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33865.0	1,736,335	32826.8	1,708,345	31777.5	1,687,882	31737.6 1,687,424	0.13 0.03
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTOK-TV D13 DT BL	259.0	4,813	251.0	4,780			
WTOK-TV D13 DT APP	298.9	5,271			290.9	5,238	
KETG D13 DT LIC	19.9	691	4.0	273	4.0	273	
KEMV D13 DT LIC	782.1	14,886	762.3	14,437	762.3	14,437	
WBKO D13 DT CP	12.1	524	12.1	524	12.1	524	

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Interference to proposal, scenario 1  
1.05% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTOK-TV	D13	DT	APP	MERIDIAN, MS	WTOK-TV 104KW_PROP	
Undesireds:	WJTV	D12	DT	LIC	JACKSON, MS	BLCDT20111014ABR	161.3 km
	WMBB	D13	DT	LIC	PANAMA CITY, FL	BLCDT20090220AAF	382.5
	WBRZ-TV	D13	DT	LIC	BATON ROUGE, LA	BLCDT20110420ABI	327.7
	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	317.9
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	334.0

**Table 1 WTOK-TV OET Bulletin 69 Interference Study**  
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Service area		Terrain-limited		IX-free		Percent IX	
31233.5	413,693	30318.4	407,858	29932.3	403,558	1.27	1.05
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WJTV D12 DT LIC	96.7	1,641	24.2	381	0.08	0.09	
WMBB D13 DT LIC	28.3	93	28.3	93	0.09	0.02	
WBRZ-TV D13 DT LIC	64.4	1,130	8.1	24	0.03	0.01	
KLTM-TV D13 DT LIC	241.5	2,497	72.6	410	0.24	0.10	
WHBQ-TV D13 DT LIC	156.3	1,920	84.0	1,305	0.28	0.32	

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	4686
	State	Mississippi
	City	MERIDIAN
	DTV Channel	13
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	1041065
Coordinates (NAD83)	Latitude	32° 19' 39.0" N+
	Longitude	088° 41' 28.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	96.3 meters
	Support Structure Height	96.3 meters
	Ground Elevation (AMSL)	203.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	81.7 meters
	Height of Radiation Center Above Average Terrain	159.1 meters
	Height of Radiation Center Above Mean Sea Level	285.3 meters
	Effective Radiated Power	104 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	THV-10A13/VP-R O4
	Rotation	
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Circular
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	



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