

Special Displacement Window Application

LPTV or Translator Facility: WECP-LD Facility ID 182840 Panama City, FL
Licensed Ch. 29 File# 0000001670

Nature of Displacement: Interference caused to WFSG Repack Ch. 28 Panama City FL
Interference caused to WFBD Repack Ch. 29 Destin FL
TVStudy Displacement summary in Table 1

Proposed Facility: Ch. 35 15 kW ERP directional (azimuth pattern in Figure 1)

Modification Compliance: 0.0 km from licensed site
Contour comparison in Figure 2
TVStudy Analysis report in Table 2

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.1 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 25 percent relative field at downward angles (from antenna elevation pattern data). 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.

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. April 5, 2018
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

AZIMUTH PATTERN

Gain
 Calculated / Measured

1.60 (2.04 dB)
Calculated

Frequency **599 MHz**
 Drawing # **TLP-G**

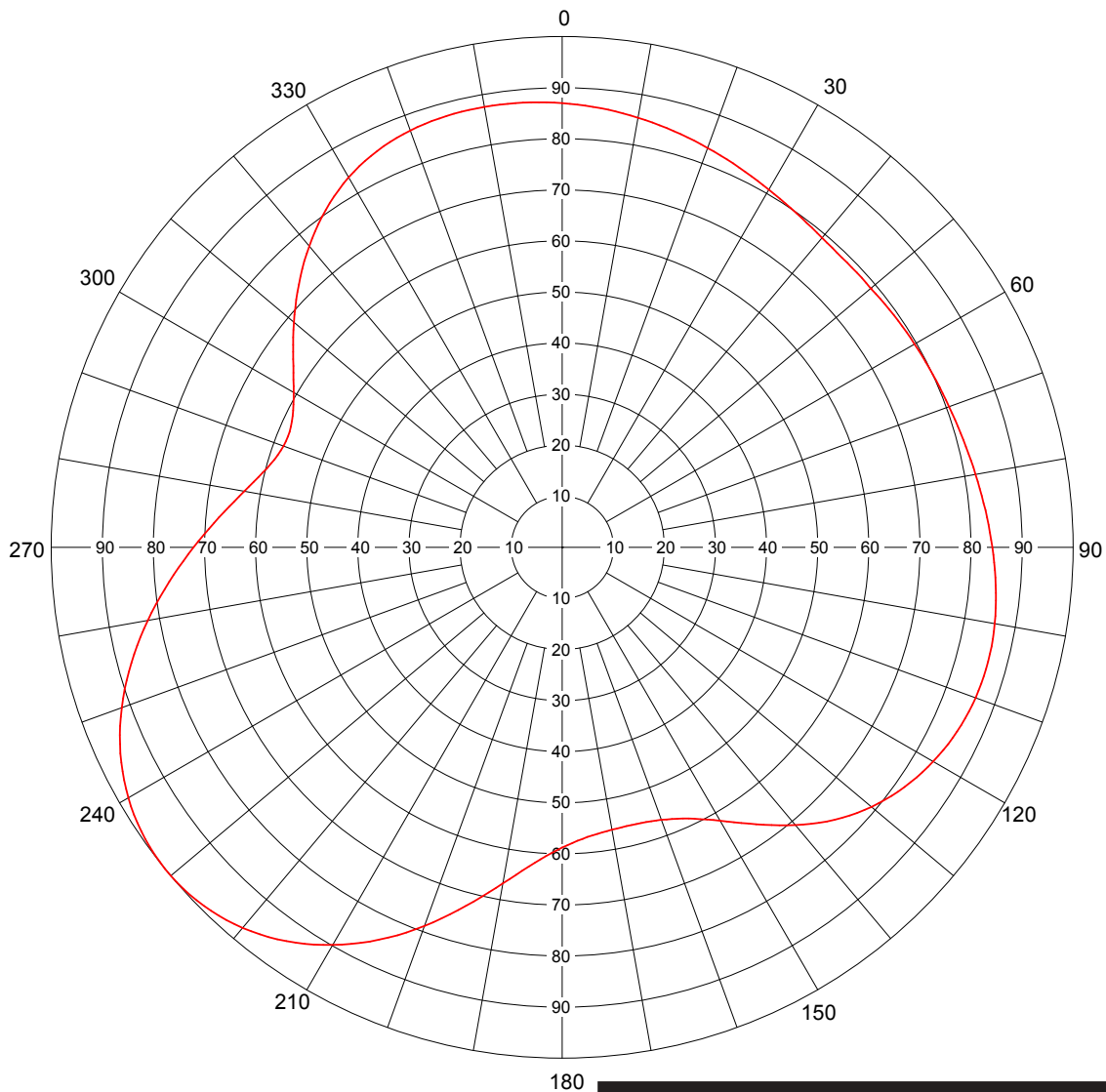
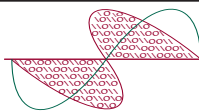


Figure 1
Antenna Azimuthal Pattern
WECP-LD Panama City, FL
Facility ID 182840
Ch. 35 (digital) 15 kW

prepared for
Gray Television Licensee, LLC

April, 2018



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

Figure 2
WECP-LD Panama City, FL
Facility ID 182840
Ch. 35 (digital) 15 kW

prepared for
Gray Television Licensee, LLC

April, 2018

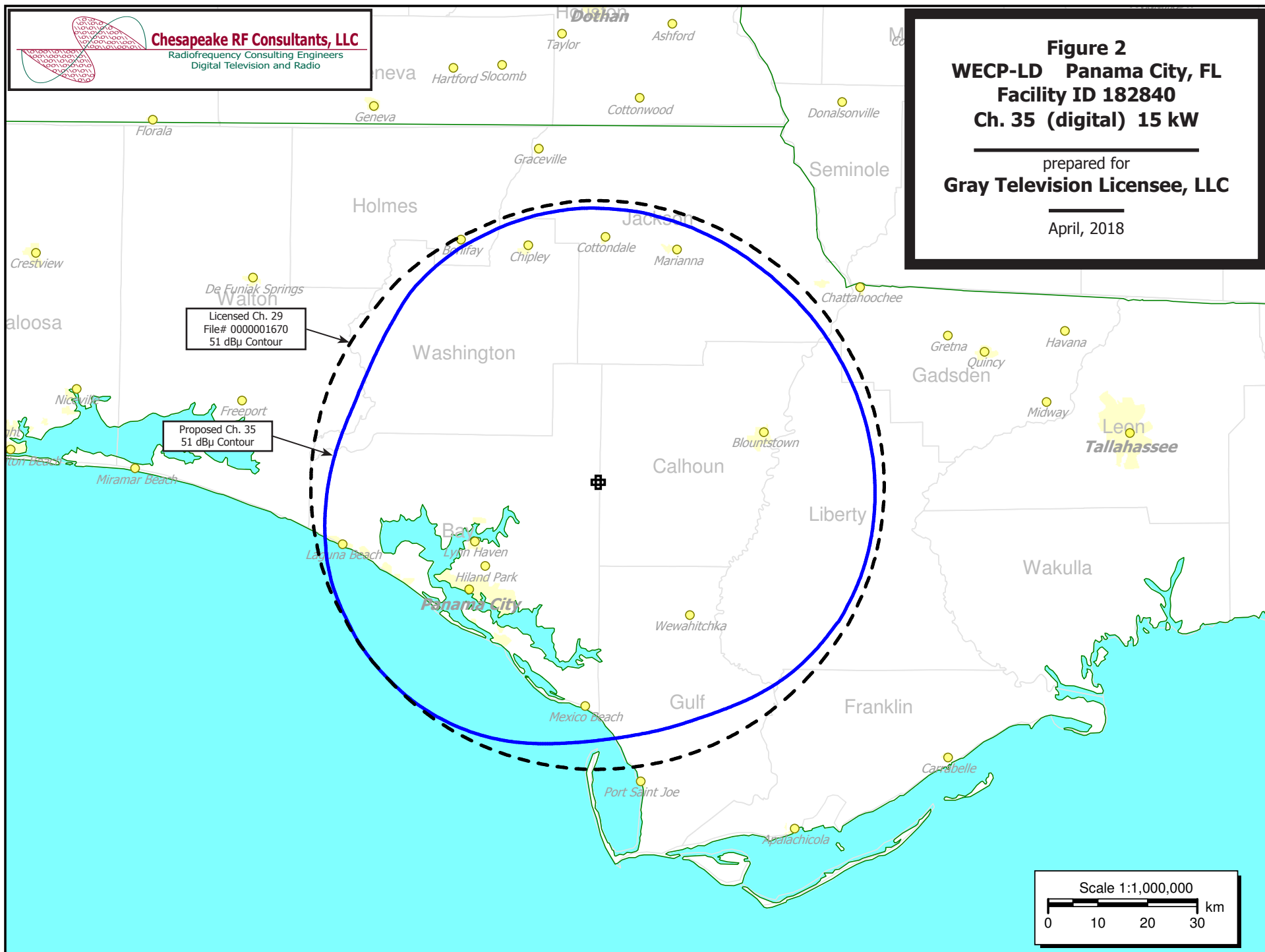


Table 1 WECP-LD Ch. 29 TVStudy Displacement Summary
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Interference caused to WFSG Repack Ch. 28 Panama City FL

Interference to BLANK0000024504 CP scenario 1

**IX: 2.37% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WFSG	D28	DT	CP	PANAMA CITY, FL	BLANK0000024504			
Undesireds:	WECP-LD	D29	LD	LIC	PANAMA CITY, FL	BLANK0000001670	51.2 km		
	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	227.8		
	WMAW-TV	D28	DT	CP	MERIDIAN, MS	BLANK0000026608	359.7		
	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	103.4		
Service area		Terrain-limited			IX-free, before		IX-free, after	Percent New IX	
14708.7	367,270	14675.5	367,135		14391.5	364,438	13431.3	355,785	6.67 2.37
Undesired				Total IX		Unique IX, before		Unique IX, after	
WECP-LD	D29	LD	LIC	1013.5	9,404		960.2	8,653	
WMCF-TV	D28	DT	CP	160.2	1,486		137.8	1,335	84.5 584
WMAW-TV	D28	DT	CP	3.1	0		1.0	0	1.0 0
WFBD	D29	DT	CP	145.2	1,362		121.8	1,211	121.8 1,211

Interference caused to WFBD Repack Ch. 29 Destin FL

Interference to BLANK0000027353 CP scenario 1

**IX: 1.99% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance	
Desired:	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353		
Undesireds:	WECP-LD	D29	LD	LIC	PANAMA CITY, FL	BLANK0000001670	145.9 km	
	WFSG	D28	DT	CP	PANAMA CITY, FL	BLANK0000024504	103.4	
	WBRC	D29	DT	CP	BIRMINGHAM, AL	BLANK0000034162	277.0	
	WVUE-DT	D29	DT	LIC	NEW ORLEANS, LA	BLCDT20110502AEC	330.4	
	WEIQ	D30	DT	CP	MOBILE, AL	BLANK0000027848	118.0	
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX	
24834.9	818,776	24675.7	818,258	24100.8	812,711	23080.7	796,572	4.23 1.99
Undesired				Total IX	Unique IX, before		Unique IX, after	
WECP-LD	D29	LD	LIC	1232.2	19,345	1020.1	16,139	
WFSG	D28	DT	CP	194.8	3,080	194.8	3,080	3.0 35
WBRC	D29	DT	CP	155.1	1,043	139.9	993	129.7 882
WVUE-DT	D29	DT	LIC	43.6	102	15.2	47	13.2 47
WEIQ	D30	DT	CP	210.7	1,377	196.6	1,372	195.6 1,372

Table 2 WECP-LD TVStudy Analysis of Proposal
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tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WECP-LD 35 TLP-G all, Model: Longley-Rice
Start: 2018.04.02 14:08:24

Study created: 2018.04.02 14:08:24

Study build station data: LMS TV 2018-04-01

Proposal: WECP-LD D35 LD APP PANAMA CITY, FL
File number: WECP-LD 35 TLP-G
Facility ID: 182840
Station data: User record
Record ID: 1694
Country: U.S.

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

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W34EU-D	D34	LD	CP	MIDLAND CITY, AL	BNPDTL20100510ALL	109.5 km
No	W34EC-D	D34	LD	CP	CHATTAHOOCHEE, FL	BNPDTL20090825AGO	56.9
No	WHBR	D34	DT	LIC	PENSACOLA, FL	BLCDT20060627AAV	217.8
No	NEW	D34	LD	APP	TALLAHASSEE, FL	BNPDTL20090825AMO	140.7
No	NEW	D34	LD	APP	TALLAHASSEE, FL	BNPDTL20090825AXT	105.6
No	NEW	D34	LD	APP	TALLAHASSEE, FL	BNPDTL20090825ALF	107.0
No	WSST-TV	D34	DT	CP	CORDELE, GA	BLANK0000025480	228.3
No	NEW	D35	LD	APP	GREENVILLE, AL	BNPDTL20090825BOU	207.5
No	WEAC-CD	D35	DC	CP	JACKSONVILLE, AL	BLANK0000028652	366.2
No	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	240.4
No	NEW	D35	LD	APP	SELMA, AL	BNPDTL20090825AOA	274.9
Yes	WDES-CD	D35	DC	LIC	DESTIN, FL	BLDTL20140117ANE	107.2
Yes	WDES-CD	D35	DC	LIC	DESTIN, FL	BLDTA20140205AAP	107.2
No	W35DH-D	D35	LD	CP	GREENVILLE, FL	BNPDTL20100513ALI	176.2
No	WRCZ-LD	D35	LD	LIC	OCALA, FL	BLANK0000013902	367.3
No	WFTV	D35	DT	CP	ORLANDO, FL	BLANK0000034714	464.1
Yes	WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000034771	208.8
No	WDTA-LD	D35	LD	LIC	ATLANTA, GA	BLDTL20100831ACE	390.6
No	WGSF	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	428.6
No	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	238.9
No	W35BB-D	D35	LD	LIC	DUBLIN, GA	BLDTL20141230AAP	343.9
No	W35DA-D	D35	LD	CP	MACON, GA	BNPDTL20100309ACC	318.2
No	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	212.6
No	WBVJ-CD	D35+	DC	CP	VALDOSTA, GA	BLANK0000035757	212.6
No	KGLA-DT	D35	DT	CP	HAMMOND, LA	BLANK0000028477	439.1
Yes	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	71.4
No	W36EA-D	D36	LD	CP	TALLAHASSEE, FL	BNPDTL20090825AMB	99.9
No	W36EG-D	D36	LD	CP	ALBANY, GA	BNPDTL20100218ADO	178.2
No	WBXT-LD	N43z	TX	LIC	TALLAHASSEE, FL	BLTTL20040628AAI	107.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 30 21 9.00 N (NAD83)
Longitude: 85 23 28.00 W
Height AMSL: 359.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE TLP-G 50.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

50.8 dBu contour:
Azimuth ERP HAAT Distance

Table 2 WECP-LD TVStudy Analysis of Proposal
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0.0 deg	11.4 kW	318.2 m	55.2 km
45.0	9.35	318.0	54.1
90.0	10.6	332.3	55.6
135.0	8.44	333.4	54.4
180.0	5.19	336.7	52.0
225.0	14.6	341.1	57.7
270.0	7.80	340.0	54.3
315.0	7.94	327.9	53.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 331 m

Distance to Canadian border: 1281.9 km

Distance to Mexican border: 1229.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 9.0 degrees Distance: 395.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 306.6 degrees Distance: 2095.3 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLDTL20140117ANE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDES-CD	D35	DC	LIC	DESTIN, FL	BLDTL20140117ANE	
Undesireds:	WECP-LD	D35	LD	APP	PANAMA CITY, FL	WECP-LD 35 TLP-G	107.2 km
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	314.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1575.3	142,453	1575.3	142,453	1575.3	142,453	1572.3 142,453	0.19 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
WECP-LD D35 LD APP			3.0	0		3.0 0	

Interference to BLDTA20140205AAP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDES-CD	D35	DC	LIC	DESTIN, FL	BLDTA20140205AAP	
Undesireds:	WECP-LD	D35	LD	APP	PANAMA CITY, FL	WECP-LD 35 TLP-G	107.2 km
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	314.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1575.3	142,453	1575.3	142,453	1575.3	142,453	1572.3 142,453	0.19 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
WECP-LD D35 LD APP			3.0	0		3.0 0	

Interference to BLANK0000034771 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000034771	
Undesireds:	WECP-LD	D35	LD	APP	PANAMA CITY, FL	WECP-LD 35 TLP-G	208.8 km
	WHBR	D34	DT	LIC	PENSACOLA, FL	BLCDT20060627AAV	9.2
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	327.2
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	409.6
	KGLA-DT	D35	DT	CP	HAMMOND, LA	BLANK0000028477	238.9

Table 2 WECP-LD TVStudy Analysis of Proposal
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WTWY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	177.0
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
35122.9 1,380,814	34870.0	1,378,817	34685.2	1,373,824	34619.2 1,367,253	0.19 0.48
Undesired	Total IX		Unique IX, before		Unique IX, after	
WECP-LD D35 LD APP	74.0	7,230			66.0 6,571	
WHBR D34 DT LIC	30.5	827	30.5	827	30.5 827	
WLTZ D35 DT LIC	3.1	0	2.0	0	2.0 0	
KGLA-DT D35 DT CP	81.4	749	81.4	749	81.4 749	
WTWY D36 DT LIC	70.9	3,417	69.9	3,417	61.9 2,758	

Interference to BLCDT20090901AAL LIC scenario 1

Desired:	Call WTVY	Chan D36	Svc DT	Status LIC	City, State DOTHAN, AL	File Number BLCDT20090901AAL	Distance			
Undesireds:	WECP-LD	D35	LD	APP	PANAMA CITY, FL	WECP-LD 35 TLP-G	71.4 km			
	WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000034771	177.0			
	WSES	D36	DT	CP	TUSCALOOSA, AL	BLANK0000034330	325.9			
	WUFT	D36	DT	LIC	GAINESVILLE, FL	BLEDT20040304AAF	348.2			
	WUPA	D36	DT	CP	ATLANTA, GA	BLANK0000033802	346.9			
Service area		Terrain-limited			IX-free, before	IX-free, after	Percent New IX			
44438.8	973,722	44099.0		972,550	43377.5	965,465	43347.4	965,444	0.07	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after				
WECP-LD	D35	LD	APP	30.1	21		30.1		21	
WJTC	D35	DT	CP	191.4	1,530	185.3	1,500	185.3	1,500	
WSES	D36	DT	CP	435.4	3,363	356.5	1,185	356.5	1,185	
WUFT	D36	DT	LIC	24.0	787	24.0	787	24.0	787	
WUPA	D36	DT	CP	149.6	3,583	76.9	1,435	76.9	1,435	

Interference to proposal scenario 1
3.73% interference received

Desired:	Call WECP-LD	Chan D35	Svc LD	Status APP	City, State PANAMA CITY, FL	File Number WECP-LD 35 TLP-G	Distance
Undesireds:	W34EC-D	D34	LD	CP	CHATTAHOOCHEE, FL	BNPDTL20090825AGO	56.9 km
	WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000034771	208.8
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	212.6
	WTWY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	71.4
Service area		Terrain-limited			IX-free	Percent IX	
9377.2	249,916	9377.2	249,916		9033.2	240,591	3.67 3.73
Undesired				Total IX	Unique IX	Prct Unique IX	
W34EC-D	D34	LD	CP	7.0 3	3.0 3	0.03	0.00
WJTC	D35	DT	CP	19.0 112	2.0 0	0.02	0.00
WTWY	D36	DT	LIC	338.0 9,322	320.1 9,210	3.41	3.69