INTERFERENCE ANALYSIS FOR PROPOSED W16CM-D, JASPER, AL, CHANNEL 25

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: w16cm25p4, Model: Longley-Rice

Study build station data: LMS TV 2018-04-17

    Proposal: W16CM25P4 D25 LD APP JASPER, AL
 File number: w16cm25p4
 Facility ID: 166986
Station data: User record
   Record ID: 2629
     Country: U.S.

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	61.2 km
No	WBXA-CD	D24	DC	CP	BIRMINGHAM, AL	BLANK0000035776	61.2
Yes	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	122.2
No	NEW	D24	LD	APP	MONTGOMERY, AL	BNPDTL20090825ANN	189.1
No	WXTX	D24	DT	CP	COLUMBUS, GA	BLANK0000034233	273.3
No	W39CA-D	D24	DC	CP	FULTON, MS	BLANK0000028855	90.9
No	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	212.3
No	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	212.3
No	WKNI-LP	N25-	TX	LIC	ANDALUSIA, AL	BLTTL20050131AAD	284.6
Yes	WJMY-CD	D25	DC	LIC	DEMOPOLIS, AL	BLANK0000001389	90.7
No	WFNA	D25	DT	LIC	GULF SHORES, AL	BLCDT20100614AQJ	353.9
No	NEW	D25	LD	APP	MONTGOMERY, AL	BNPDTL20090825BZR	197.9
Yes	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	194.8
No	WAWD	D25	DT	CP	FORT WALTON BEACH, FL	BLANK0000034185	379.2
No	W25ED-D	D25	LD	CP	ALBANY, GA	BLANK0000012039	399.3
No	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	274.1
No	W25EG-D	D25	LD	LIC	COLUMBUS, GA	BLDTL20121226AAY	262.8
No	W25EM-D	D25	LD	CP	COLUMBUS, GA	BNPDTL20090825AXS	289.1
No	W25EQ-D	D25	LD	CP	MACON, GA	BNPDTL20100427ABT	368.8
No	WDKA	D25	DT	CP	PADUCAH, KY	BLANK0000034371	421.2
No	W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	106.2
No	W25AD	D25	LD	CP	COLUMBUS, MS	BMPDTL20120206AAI	128.7
No	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	303.9
No	WXXV-TV	D25	DT	CP	GULFPORT, MS	BLANK0000026624	381.6
No	WUNF-TV	D25	DD	LIC	ASHEVILLE, NC	BLEDT20120615ACE	451.7
No	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000024558	239.5
No	WPDP-CD	D25-	DC	LIC	CLEVELAND, TN	BLANK0000004528	284.7
No	WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	270.1
Yes	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	276.4
Yes	WTVF	D25	DT	LIC	NASHVILLE, TN	BLCDT20120913AAW	273.4
Yes	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	79.3
No	WBUY-TV	D26	DT	CP	HOLLY SPRINGS, MS	BLANK0000034683	276.4
No	WWHL-LP	N33-	TX	LIC	DECATUR, AL	BLTT20060817AEG	84.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D25
       Mask: Full Service
   Latitude: 33 50 42.00 N (NAD83)
  Longitude: 87 18 26.00 W
Height AMSL: 280.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.75

49.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	119.0 m	45.9 km
45.0	15.0	126.2	46.4
90.0	15.0	153.4	48.3
135.0	15.0	174.2	49.6
180.0	15.0	152.1	48.2
225.0	15.0	141.4	47.5
270.0	15.0	152.8	48.2
315.0	15.0	123.3	46.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 143 m

Distance to Canadian border: 960.4 km

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Distance to Mexican border: 1273.0 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 88.8 degrees Distance: 238.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 298.9 degrees Distance: 1732.9 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing is requested.)

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

Interference to BLANK0000004828 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	122.2 km
	WOIL-CD	D23	DC	CP	TALLADEGA, AL	BLANK0000034660	150.2
	WFLI-TV	D23	DT	CP	CLEVELAND, TN	BLANK0000034902	120.0
	WJDE-LD	D23	DC	CP	NASHVILLE, TN	BLANK0000034264	167.8
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	141.5
	WXTX	D24	DT	CP	COLUMBUS, GA	BLANK0000034233	295.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	257.4
	W39CA-D	D24	DC	CP	FULTON, MS	BLANK0000028855	175.7
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	334.4
	WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	353.7
	WUWT-CD	D24	DC	CP	UNION CITY, TN	BLANK0000028231	295.7
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000024558	125.1
	WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	158.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28802.7	1,279,480	27347.1	1,219,767	27225.7	1,216,262	27223.7	1,216,161	0.01	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	11.8	339				2.0	101
WFLI-TV D23 DT CP	30.0	680		23.0	612	23.0	612
WXTX D24 DT CP	5.0	86		1.0	0	1.0	0
WGTA D24 DT LIC	7.0	100		3.0	78	3.0	78
WNKY D24 DT CP	25.8	1,271		23.9	1,271	23.9	1,271
W39CA-D D24 DC CP	2.0	0		1.0	0	1.0	0
WMDN D24 DT LIC	36.6	755		34.6	673	25.7	435
WETP-TV D24 DT CP	29.0	785		20.0	699	20.0	699
WJFB D25 DT CP	1.0	0		0.0	0	0.0	0

Interference to BLANK0000001389 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJMY-CD	D25	DC	LIC	DEMOPOLIS, AL	BLANK0000001389	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	90.7 km
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	83.9
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	134.0
	WFNA	D25	DT	LIC	GULF SHORES, AL	BLCDT20100614AQJ	264.0
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	280.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
9463.6	255,916	9361.1	255,103	9355.1	255,094	9308.4	254,872	0.50	0.09

Undesired		Total IX		Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	46.7	222				46.7	222
WFNA D25 DT LIC	1.0	2		1.0	2	1.0	2
WMAO-TV D25 DT LIC	5.0	7		5.0	7	5.0	7

Interference to BLANK0000034432 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	194.8 km
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	148.4
	WSRE	D24	DT	CP	PENSACOLA, FL	BLANK0000027900	188.2

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	WXTX	D24	DT	CP	COLUMBUS, GA	BLANK0000034233	181.8
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	181.0
	WAWD	D25	DT	CP	FORT WALTON BEACH, FL	BLANK0000034185	188.6
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	292.7
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	377.3
	WXXV-TV	D25	DT	CP	GULFPORT, MS	BLANK0000026624	266.5
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000024558	367.0
	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	187.6
	WYBU-CD	D26	DC	CP	COLUMBUS, GA	BLANK0000025321	165.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
42373.2	801,272	41481.8	791,790	41108.6	787,172	41100.6	786,992	0.02	0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	13.0	214			8.0	180
WSRE D24 DT CP	34.6	527	16.3	232	16.3	232
WXTX D24 DT CP	2.0	0	0.0	0	0.0	0
WMDN D24 DT APP	2.0	0	2.0	0	2.0	0
WAWD D25 DT CP	38.7	498	14.2	35	14.2	35
WATL D25 DT LIC	170.4	3,278	165.4	3,276	164.4	3,276
WMAO-TV D25 DT LIC	30.2	76	17.1	20	16.1	20
WXXV-TV D25 DT CP	143.1	999	98.5	400	98.5	400
WTJP-TV D26 DT LIC	11.0	56	9.0	54	9.0	54
WYBU-CD D26 DC CP	3.0	0	0.0	0	0.0	0

Interference to BLCDT20050628AAP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	276.4 km
	W39CA-D	D24	DC	CP	FULTON, MS	BLANK0000028855	193.8
	WUWT-CD	D24	DC	CP	UNION CITY, TN	BLANK0000028231	146.2
	KXNW	D25	DT	CP	EUREKA SPRINGS, AR	BLANK0000034210	396.9
	WDKA	D25	DT	CP	PADUCAH, KY	BLANK0000034371	247.2
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	222.5
	WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	321.8
	WBUY-TV	D26	DT	CP	HOLLY SPRINGS, MS	BLANK0000034683	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33327.2	1,785,466	33016.5	1,775,189	31767.7	1,744,395	31767.7	1,744,395	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	2.0	0			0.0	0
WDKA D25 DT CP	100.0	4,760	48.2	2,272	47.2	2,272
WMAO-TV D25 DT LIC	1137.9	25,734	1108.0	24,920	1106.9	24,920
WJFB D25 DT CP	89.7	3,602	25.9	859	25.9	859

Interference to BLCDT20120913AAW LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTVF	D25	DT	LIC	NASHVILLE, TN	BLCDT20120913AAW	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	273.4 km
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	171.8
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	352.8
	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	291.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37986.3	2,417,556	37014.6	2,402,959	36787.7	2,396,506	36787.7	2,396,506	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	1.0	0			0.0	0
WHIQ D24 DT LIC	27.9	898	24.9	884	24.9	884
WATL D25 DT LIC	9.0	466	9.0	466	9.0	466
WATN-TV D25 DT LIC	193.0	5,103	190.1	5,089	189.1	5,089

Interference to BLCDT20110304ACB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	
Undesireds:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	79.3 km
	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	187.6
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000024558	188.1
	WBIF	D26	DT	CP	MARIANNA, FL	BLANK0000031512	378.1
	WYBU-CD	D26	DC	CP	COLUMBUS, GA	BLANK0000025321	198.1
	WGXA	D26	DT	CP	MACON, GA	BLANK0000034372	293.4
	WBUY-TV	D26	DT	CP	HOLLY SPRINGS, MS	BLANK0000034683	345.3

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	WNEH	D26	DT	CP	GREENWOOD, SC	BLANK0000025027	398.8
	WATE-TV	D26	DT	LIC	KNOXVILLE, TN	BMLCDT20041203AEG	333.7
	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	159.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32981.1	1,942,033	31254.7	1,891,008	30882.3	1,881,486	30773.7	1,876,113	0.35	0.29

Undesired		Total IX	Unique IX, before		Unique IX, after	
W16CM25P4 D25 LD APP	108.7	5,373			108.7	5,373
WAKA D25 DT CP	19.0	1,777	17.0	1,765	17.0	1,765
WYBU-CD D26 DC CP	109.6	2,074	28.9	798	28.9	798
WGXA D26 DT CP	257.4	4,706	169.9	3,405	169.9	3,405
WBUY-TV D26 DT CP	18.1	1,229	18.1	1,229	18.1	1,229
WATE-TV D26 DT LIC	47.9	1,025	40.0	995	40.0	995
WAIQ D27 DT LIC	11.0	29	9.0	17	9.0	17

Interference to proposal scenario 1
4.12% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16CM25P4	D25	LD	APP	JASPER, AL	w16cm25p4	
Undesireds:	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	61.2 km
	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	194.8
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	274.1
	W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	106.2
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	303.9
	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	276.4
	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	79.3

Service area		Terrain-limited		IX-free		Percent IX	
7090.0	184,021	6840.7	175,993	6699.4	168,750	2.06	4.12

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WAKA D25 DT CP	102.6	3,104	90.7	1,799	1.33	1.02
WATL D25 DT LIC	1.0	166	0.0	0	0.00	0.00
WMAO-TV D25 DT LIC	1.0	29	0.0	0	0.00	0.00
WATN-TV D25 DT LIC	3.0	156	0.0	0	0.00	0.00
WTJP-TV D26 DT LIC	47.5	5,288	38.6	4,139	0.56	2.35
