

OET-69 Interference Analysis (WLAJ, Lansing, MI, Channel 25)(Summary Results)

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-13-2015

Record Selected for Analysis

WLAJ USERRECORD-01 LANSING MI US
Channel 25 ERP 483.29 kW HAAT 300. m RCAMSL 00589 m
Latitude 042-25-13 Longitude 0084-31-25
Status APP Zone 1 Border Site number: 01
Dir Antenna Make CDB Model 00000000120366 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	465.099	301.7	89.970	
45.0	126.444	293.6	79.216	
90.0	102.264	298.3	78.399	
135.0	126.197	303.1	80.169	
180.0	483.290	295.0	89.386	
225.0	276.218	295.5	84.729	
270.0	441.696	299.9	89.275	
315.0	276.583	313.3	86.982	

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

Class A Evaluation Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

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Proposed facility is within the Canadian coordination distance
 Distance to border = 116.5km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

	Proposed Station		
Channel	Call	City/State	ARN
25	WLAJ	LANSING MI	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPTA	FORT WAYNE IN	156.4	LIC	BLCDT	20031031AGU
24	WTLJ	MUSKEGON MI	127.4	LIC	BLCDT	20101007AAX
24	WTLJ	MUSKEGON MI	127.3	APP	BPCDT	20140210AAX
25	WRTV	INDIANAPOLIS IN	313.4	LIC	BLCDT	20090623ACJ
25	WOGC-CD	HOLLAND MI	125.1	LIC	BLDTA	20120316ADA
25	WCGV-TV	MILWAUKEE WI	285.9	LIC	BLCDT	20120405ACO
26	WCMU-TV	MOUNT PLEASANT MI	158.2	LIC	BLEDT	20130710ABN

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WPTA	FORT WAYNE IN	BLCDT	-20031031AGU

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WTLJ	MUSKEGON MI	BLCDT	-20101007AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPTA	FORT WAYNE IN	214.5	LIC	BLCDT	-20031031AGU
24	WCML	ALPENA MI	279.4	LIC	BLEDT	-20110707ABQ
24	WSFJ-TV	NEWARK OH	416.5	LIC	BLCDT	-20060620ABC
24	WHRM-TV	WAUSAU WI	373.6	LIC	BLEDT	-20051014AAW
25	WCGV-TV	MILWAUKEE WI	163.4	LIC	BLCDT	-20120405ACO
25	WLAJ	LANSING MI	127.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 2
 Before Analysis

OET-69 Interference Analysis (WLAJ, Lansing, MI, Channel 25)(Summary Results)

Results for: 24A MI MUSKEGON BLCDT 20101007AAX LIC
 HAAT 283.0 m, ATV ERP 310.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1534289	21138.8
not affected by terrain losses	1533200	21098.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26286	133.2
lost to ATV IX only	26286	133.2
lost to all IX	26286	133.2

Potential Interfering Stations Included in above Scenario 1

24A IN FORT WAYNE	BLCDT	20031031AGU	LIC
24A MI ALPENA	BLEDT	20110707ABQ	LIC
24A WI WAUSAU	BLEDT	20051014AAW	LIC

After Analysis

Results for: 24A MI MUSKEGON BLCDT 20101007AAX LIC
 HAAT 283.0 m, ATV ERP 310.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1534289	21138.8
not affected by terrain losses	1533200	21098.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27230	173.5
lost to ATV IX only	27230	173.5
lost to all IX	27230	173.5

Potential Interfering Stations Included in above Scenario 1

24A IN FORT WAYNE	BLCDT	20031031AGU	LIC
24A MI ALPENA	BLEDT	20110707ABQ	LIC
24A WI WAUSAU	BLEDT	20051014AAW	LIC
25A MI LANSING	USERRECORD01		APP

Percent new IX = 0.0626%

Worst case new IX 0.0626% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WTLJ	MUSKEGON MI	BPCDT	-20140210AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPTA	FORT WAYNE IN	214.3	LIC	BLCDT	-20031031AGU
24	WCML	ALPENA MI	279.5	LIC	BLEDT	-20110707ABQ
24	WSFJ-TV	NEWARK OH	416.4	LIC	BLCDT	-20060620ABC
24	WHRM-TV	WAUSAU WI	373.7	LIC	BLEDT	-20051014AAW
25	WCGV-TV	MILWAUKEE WI	163.5	LIC	BLCDT	-20120405ACO
25	WLAJ	LANSING MI	127.3	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 3
 Before Analysis

OET-69 Interference Analysis (WLAJ, Lansing, MI, Channel 25)(Summary Results)

Results for: 24A MI MUSKEGON BPCDT 20140210AAX APP
 HAAT 283.0 m, ATV ERP 310.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536554	21127.2
not affected by terrain losses	1535463	21099.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27147	145.3
lost to ATV IX only	27147	145.3
lost to all IX	27147	145.3

Potential Interfering Stations Included in above Scenario 1

24A IN FORT WAYNE BLCDT 20031031AGU LIC
 24A MI ALPENA BLEDT 20110707ABQ LIC

After Analysis

Results for: 24A MI MUSKEGON BPCDT 20140210AAX APP
 HAAT 283.0 m, ATV ERP 310.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536554	21127.2
not affected by terrain losses	1535463	21099.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28199	193.7
lost to ATV IX only	28199	193.7
lost to all IX	28199	193.7

Potential Interfering Stations Included in above Scenario 1

24A IN FORT WAYNE BLCDT 20031031AGU LIC
 24A MI ALPENA BLEDT 20110707ABQ LIC
 25A MI LANSING USERRECORD01 APP

Percent new IX = 0.0697%

Worst case new IX 0.0697% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WRTV	INDIANAPOLIS IN	BLCDT	-20090623ACJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPTA	FORT WAYNE IN	158.9	LIC	BLCDT	-20031031AGU
24	WCVN-TV	COVINGTON KY	174.5	LIC	BLEDT	-20020201ABJ
25	WEEK-TV	PEORIA IL	295.2	LIC	BLCDT	-20090413AER
25	WTVF-DR	NASHVILLE TN	406.8	APP	BPFS	-20100830ACL
25	WTVF	NASHVILLE TN	406.8	LIC	BLCDT	-20120913AAW
25	WCGV-TV	MILWAUKEE WI	382.6	LIC	BLCDT	-20120405ACO
26	WCCU	URBANA IL	152.9	LIC	BLCDT	-20050317ADS
26	WLKY	LOUISVILLE KY	173.1	LIC	BLCDT	-20030129AFL
26	WBDT	SPRINGFIELD OH	167.3	LIC	BLCDT	-20090619AAV
25	WLAJ	LANSING MI	313.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3

OET-69 Interference Analysis (WLAJ, Lansing, MI, Channel 25)(Summary Results)

Scenario 1 Affected station 4
Before Analysis

Results for: 25A IN INDIANAPOLIS BLCDT 20090623ACJ LIC
HAAT 294.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2645975	30446.7
not affected by terrain losses	2624028	30075.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6764	51.9
lost to ATV IX only	6764	51.9
lost to all IX	6764	51.9

Potential Interfering Stations Included in above Scenario 1

25A IL PEORIA	BLCDT	20090413AER	LIC
25A WI MILWAUKEE	BLCDT	20120405ACO	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC

After Analysis

Results for: 25A IN INDIANAPOLIS BLCDT 20090623ACJ LIC
HAAT 294.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2645975	30446.7
not affected by terrain losses	2624028	30075.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6879	59.9
lost to ATV IX only	6879	59.9
lost to all IX	6879	59.9

Potential Interfering Stations Included in above Scenario 1

25A IL PEORIA	BLCDT	20090413AER	LIC
25A WI MILWAUKEE	BLCDT	20120405ACO	LIC
26A KY LOUISVILLE	BLCDT	20030129AFL	LIC
25A MI LANSING	USERRECORD01		APP

Percent new IX = 0.0044%

Worst case new IX 0.0044% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WOGC-CD	HOLLAND MI	BLDTA -20120316ADA

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WCGV-TV	MILWAUKEE WI	BLCDT -20120405ACO

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Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	WCMU-TV	MOUNT PLEASANT MI	BLEDT	-20130710ABN

Stations Potentially Affecting This Station

Proposal causes no interference

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