

OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (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/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-25-2014

Record Selected for Analysis

WXMI-LD_ USERRECORD-01 BATTLE CREEK MI US
Channel 17 ERP 15. kW HAAT 37. m RCAMSL 00316 m STRINGENT MASK
Latitude 042-17-19 Longitude 0085-09-12
Status APP Zone 1 Border Site number: 01
Dir Antenna Make CDB Model 00000000019448 Beam tilt N Ref Azimuth 315.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1			
Azimuth	ERP	HAAT	51.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	13.254	44.1	32.701	
45.0	12.696	36.3	30.292	
90.0	2.166	36.9	22.084	
135.0	0.726	33.0	15.938	
180.0	2.166	33.0	20.966	
225.0	12.696	33.0	29.307	
270.0	13.254	33.0	29.504	
315.0	15.000	55.9	36.143	

Database HAAT does not agree with computed HAAT
Database HAAT: 37 Computed HAAT: 38

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station 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

Proposed facility is within the Canadian coordination distance
Distance to border = 165.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is 1.32km from AM station
BATTLE CREEK MI WOLY Status: L Antenna: DAD

Start of Interference Analysis

Channel	Proposed Station	ARN
	Call City/State	
17	WXMI-LD_ BATTLE CREEK MI	USERRECORD01

OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	W16CU-D	FORT WAYNE IN	146.6	APP	BMPDTL	-20140819ABP
16	W16CU-D	FORT WAYNE IN	146.6	CP MOD	BMPDTL	-20140528AIH
16	WEID-LP	SOUTH BEND IN	101.1	CP	BDISDTL	-20101109ADR
16	WSMH	FLINT MI	136.3	LIC	BLCDT	-20090804ABG
16	W16DM-D	LIMA OH	164.2	CP	BNPDTL	-20100609AFI
17	WAND	DECATUR IL	399.6	LIC	BLCDT	-20130709ABN
17	WAND-DR	DECATUR IL	402.8	APP	BPRM	-20101126ABC
17	WIDN-LD	ROCKFORD IL	331.8	CP	BNPDTL	-20091019ABZ
17	WYIN	GARY IN	213.4	LIC	BLEDT	-20040206AAA
17	WISH-TV	INDIANAPOLIS IN	280.8	LIC	BLCDT	-20110207ACU
17	WCMV	CADILLAC MI	273.5	LIC	BLEDT	-20050914AAI
17	W17DF-D	MUSKEGON MI	140.2	LIC	BLDTL	-20110215AAG
17	WKYC	CLEVELAND OH	303.9	LIC	BLCDT	-20090619ADC
17	WDEM-CD	COLUMBUS OH	313.1	LIC	BLDTA	-20090223ACT
17	WYTU-LD	MILWAUKEE WI	244.6	LIC	BLDTL	-20120731ALQ
18	WEID-LP	ELKHART IN	99.3	LIC	BLTT	-20001011AEF
18	WISE-DR	FORT WAYNE IN	131.9	APP	BPRM	-20080820AHU
18	WISE-TV	FORT WAYNE IN	131.9	LIC	BLCDT	-20091103ACK
18	WHNW-LD	GARY IN	196.0	LIC	BLDTL	-20110121ABI
18	WDWO-CD	DETROIT MI	152.7	LIC	BLDTA	-20130108ABZ
18	NEW	MT PLEASANT MI	124.4	APP	BDCCDTL	-20121130BNU
18	WLQP-LP	LIMA OH	200.0	LIC	BLTTL	-19990407JA
18	WLQP-LP	LIMA OH	193.7	APP	BDFCDTL	-20060331BFI
18	WDTJ-LD	TOLEDO OH	150.3	LIC	BLDTL	-20121219ABP

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	W16CU-D	FORT WAYNE IN	BMPDTL	-20140819ABP

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	W16CU-D	FORT WAYNE IN	BMPDTL	-20140528AIH

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	WEID-LP	SOUTH BEND IN	BDISDTL	-20101109ADR

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	WSMH	FLINT MI	BLCDT	-20090804ABG

Stations Potentially Affecting This Station

OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	W16DM-D	LIMA OH	BNPDTL -20100609AFI

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WAND	DECATUR IL	BLCDT -20130709ABN

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.
17	WAND-DR	DECATUR IL	BPRM -20101126ABC

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WIDN-LD	ROCKFORD IL	BNPDTL -20091019ABZ

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WYIN	GARY IN	BLEDT -20040206AAA

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WISH-TV	INDIANAPOLIS IN	BLCDT -20110207ACU

OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	WCMV	CADILLAC MI	BLEDT	-20050914AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	WSMH	FLINT MI	187.0	LIC	BLCDT	-20090804ABG
17	WYIN	GARY IN	422.6	LIC	BLEDT	-20040206AAA
17	WXMI-LD	BATTLE CREEK MI	273.5	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 17A MI CADILLAC BLEDT 20050914AAI LIC
HAAT 393.0 m, ATV ERP 338.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	402492	27568.3
not affected by terrain losses	392284	26847.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 17A MI CADILLAC BLEDT 20050914AAI LIC
HAAT 393.0 m, ATV ERP 338.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	402492	27568.3
not affected by terrain losses	392284	26847.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	272	24.9
lost to ATV IX only	272	24.9
lost to all IX	272	24.9

Potential Interfering Stations Included in above Scenario 1

17A MI BATTLE CREEK USERRECORD01 APP

Percent new IX = 0.0693%

Worst case new IX 0.0693% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	W17DF-D	MUSKEGON MI	BLDTL	-20110215AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	241.2	LIC	BLEDT	-20040206AAA
17	WCMV	CADILLAC MI	181.5	LIC	BLEDT	-20050914AAI
17	WYTU-LD	MILWAUKEE WI	145.6	LIC	BLDTL	-20120731ALQ
17	WXMI-LD	BATTLE CREEK MI	140.2	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 12

OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Before Analysis

Results for: 17A MI MUSKEGON BLDTL 20110215AAG LIC
HAAT 142.0 m, ATV ERP 15.0 kW
 POPULATION AREA (sq km)
within Noise Limited Contour 350453 7014.2
not affected by terrain losses 349815 7009.2
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1661 29.0
lost to ATV IX only 1661 29.0
lost to all IX 1661 29.0

Potential Interfering Stations Included in above Scenario 1

17A MI CADILLAC BLEDT 20050914AAI LIC
17A WI MILWAUKEE BLDTL 20120731ALQ LIC

After Analysis

Results for: 17A MI MUSKEGON BLDTL 20110215AAG LIC
HAAT 142.0 m, ATV ERP 15.0 kW
 POPULATION AREA (sq km)
within Noise Limited Contour 350453 7014.2
not affected by terrain losses 349815 7009.2
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1676 30.0
lost to ATV IX only 1676 30.0
lost to all IX 1676 30.0

Potential Interfering Stations Included in above Scenario 1

17A MI CADILLAC BLEDT 20050914AAI LIC
17A WI MILWAUKEE BLDTL 20120731ALQ LIC
17A MI BATTLE CREEK USERRECORD01 APP

Percent new IX = 0.0043%

Worst case new IX 0.0043% Scenario 1

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Analysis of Interference to Affected Station 13

Analysis of current record
Channel Call City/State Application Ref. No.
17 WKYC CLEVELAND OH BLCDT -20090619ADC

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record
Channel Call City/State Application Ref. No.
17 WDEM-CD COLUMBUS OH BLDTA -20090223ACT

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record
Channel Call City/State Application Ref. No.
17 WYTU-LD MILWAUKEE WI BLDTL -20120731ALQ

Stations Potentially Affecting This Station

Proposal causes no interference

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OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Analysis of Interference to Affected Station 16

Analysis of current record
Channel Call City/State Application Ref. No.
18 WEID-LP ELKHART IN BLTT -20001011AEF

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 17

Analysis of current record
Channel Call City/State Application Ref. No.
18 WISE-DR FORT WAYNE IN BPRM -20080820AHU

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record
Channel Call City/State Application Ref. No.
18 WISE-TV FORT WAYNE IN BLCDT -20091103ACK

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 19

Analysis of current record
Channel Call City/State Application Ref. No.
18 WHNW-LD GARY IN BLDTL -20110121ABI

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 20

Analysis of current record
Channel Call City/State Application Ref. No.
18 WDWQ-CD DETROIT MI BLDTA -20130108ABZ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 21

Analysis of current record
Channel Call City/State Application Ref. No.
18 NEW MT PLEASANT MI BDCCDTL -20121130BNU

Stations Potentially Affecting This Station

Proposal causes no interference

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OET-69 Interference Analysis (Proposed WXMI-LD, Battle Creek, MI, Ch. 17) (Summary Results)

Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WLQP-LP	LIMA OH	BLTTL	-19990407JA

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WLQP-LP	LIMA OH	BDFCDTL	-20060331BFI

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 24

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WDTJ-LD	TOLEDO OH	BLDTL	-20121219ABP

Stations Potentially Affecting This Station

Proposal causes no interference

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