

## 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: 06-13-2013

Record Selected for Analysis

WXMI USERRECORD-01 BATTLE CREEK MI US  
Channel 17 ERP 15. kW HAAT 101. m RCAMSL 00385 m STRINGENT MASK  
Latitude 042-12-09 Longitude 0085-07-32  
Status APP Zone 1 Border Site number: 01  
Dir Antenna Make CDB Model 00000000019448 Beam tilt N Ref Azimuth 320.  
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	12.696	105.3	42.466
45.0	13.395	102.4	42.420
90.0	2.904	95.9	34.019
135.0	0.693	96.3	26.694
180.0	1.536	107.6	32.045
225.0	11.748	109.8	42.538
270.0	13.824	93.9	41.558
315.0	14.850	97.9	42.405

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 = 162.3km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

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

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

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	W16CU-D	FORT WAYNE IN	136.8	CP MOD	BMPDTL	-20110504ABE
16	WEID-LP	SOUTH BEND IN	96.8	CP	BDISDTL	-20101109ADR
16	WSMH	FLINT MI	142.4	CP	BPCDT	-20051115ADO
16	WSMH	FLINT MI	142.4	LIC	BLCDT	-20090804ABG
16	WSMH	FLINT MI	143.2	CP	BPCDT	-19991028ACK
16	W16DM-D	LIMA OH	154.4	CP	BNPDTL	-20100609AFI
17	WAND	DECATUR IL	398.7	LIC	BLCDT	-20111101AJG
17	WAND-DR	DECATUR IL	398.7	APP	BPRM	-20101126ABC
17	WAND	DECATUR IL	395.4	APP	BPCDT	-20120510AAU
17	WIDN-LD	ROCKFORD IL	333.4	CP	BNPDTL	-20091019ABZ
17	WYIN	GARY IN	211.1	LIC	BLEDT	-20040206AAA
17	WISH-TV	INDIANAPOLIS IN	272.5	LIC	BLCDT	-20110207ACU
17	WCMV	CADILLAC MI	283.0	LIC	BLEDT	-20050914AAI
17	W17DF-D	MUSKEGON MI	149.4	LIC	BLDTL	-20110215AAG
17	WKYC	CLEVELAND OH	298.8	LIC	BLCDT	-20090619ADC
17	WDEM-CD	COLUMBUS OH	303.9	LIC	BLDTA	-20090223ACT
17	WDEM-CD	COLUMBUS OH	303.9	CP	BPDTA	-20100222ABC
17	W17AY	SEAMAN OH	394.2	LIC	BLTTL	-19940810IB
17	WYTU-LD	MILWAUKEE WI	250.6	LIC	BLDTL	-20120731ALQ
18	WEID-LP	ELKHART IN	94.4	LIC	BLTT	-20001011AEF
18	WISE-DR	FORT WAYNE IN	122.4	APP	BPRM	-20080820AHU
18	WISE-TV	FORT WAYNE IN	122.4	LIC	BLCDT	-20091103ACK
18	WHNW-LD	GARY IN	194.7	LIC	BLDTL	-20110121ABI
18	WDWO-CD	DETROIT MI	152.2	LIC	BLDTA	-20130108ABZ
18	WDWO-CD	DETROIT MI	152.2	LIC	BLDTA	-20111115AEG
18	NEW	MT PLEASANT MI	133.9	APP	BDCCDTL	-20121130BNU
18	WLQP-LP	LIMA OH	190.4	LIC	BLTTL	-19990407JA
18	WLQP-LP	LIMA OH	184.2	APP	BDFCDTL	-20060331BFI
18	WDTJ-LD	TOLEDO OH	144.0	LIC	BLDTL	-20121219ABP

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## 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	-20110504ABE

## 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.
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 3

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	WSMH	FLINT MI	BPCDT	-20051115ADO

## 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 4

Analysis of current record

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

Stations Potentially Affecting This Station

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	WSMH	FLINT MI	BPCDT	-19991028ACK

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.
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 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	WAND	DECATUR IL	BLCDT	-20111101AJG

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	WAND-DR	DECATUR IL	BPRM	-20101126ABC

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 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	WAND	DECATUR IL	BPCDT	-20120510AAU

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	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 11

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 12

Analysis of current record

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

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 13

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	CP	BPCDT	-20051115ADO
16	WSMH	FLINT MI	187.0	LIC	BLCDT	-20090804ABG
16	WSMH	FLINT MI	188.1	CP	BPCDT	-19991028ACK

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

17	WYIN	GARY IN	422.6	LIC	BLEDT	-20040206AAA
17	WXMI	BATTLE CREEK MI	283.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 13  
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	54	8.0
lost to ATV IX only	54	8.0
lost to all IX	54	8.0

Potential Interfering Stations Included in above Scenario 1

16A MI FLINT BPCDT 19991028ACK CP

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	322	31.9
lost to ATV IX only	322	31.9
lost to all IX	322	31.9

Potential Interfering Stations Included in above Scenario 1

16A MI FLINT BPCDT 19991028ACK CP  
17A MI BATTLE CREEK USERRECORD01 APP

Percent new IX = 0.0683%

Worst case new IX 0.0683% Scenario 1

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Analysis of Interference to Affected Station 14

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	BATTLE CREEK MI	149.4	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2  
Scenario 1 Affected station 14  
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

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

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	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
17A MI BATTLE CREEK	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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### Analysis of Interference to Affected Station 15

#### 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 16

#### 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 17

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WDEM-CD	COLUMBUS OH	BPDTA -20100222ABC

#### Stations Potentially Affecting This Station

Proposal causes no interference

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

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### Analysis of Interference to Affected Station 18

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	W17AY	SEAMAN OH	BLTTL	-19940810IB

#### 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 19

#### 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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### Analysis of Interference to Affected Station 20

#### 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 21

#### 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 22

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

### Analysis of Interference to Affected Station 23

#### 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 24

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WDWO-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 25

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WDWO-CD	DETROIT MI	BLDTA	-20111115AEG

#### 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 26

#### Analysis of current record

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

#### 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 27

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

### Analysis of Interference to Affected Station 28

#### 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 29

#### 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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### Analysis of Interference to Affected Station 30

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WXMI	BATTLE CREEK MI	USERRECORD-01

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WYIN	GARY IN	211.1	LIC	BLEDT -20040206AAA
17	WCMV	CADILLAC MI	283.0	LIC	BLEDT -20050914AAI
17	W17DF-D	MUSKEGON MI	149.4	LIC	BLDTL -20110215AAG
17	WKYC	CLEVELAND OH	298.8	LIC	BLCDT -20090619ADC
18	WISE-DR	FORT WAYNE IN	122.4	APP	BPRM -20080820AHU
18	WISE-TV	FORT WAYNE IN	122.4	LIC	BLCDT -20091103ACK

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 30

Before Analysis

Results for: 17A MI BATTLE CREEK USERRECORD01 APP

HAAT 101.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	403798	5199.6
not affected by terrain losses	403798	5199.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	104	2.0
lost to ATV IX only	104	2.0
lost to all IX	104	2.0

Potential Interfering Stations Included in above Scenario 1

17A MI MUSKEGON BLDTL 20110215AAG LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED