

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
/space/software/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-03-2014 Time: 13:42:33

Record Selected for Analysis

WURO USERRECORD-01 US
Channel 18 ERP 15. kW HAAT 100. m RCAMSL 00464 m FULL SERVICE MASK
Latitude 044-29-23 Longitude 0084-25-04
Status APP Zone 2 Border Site number: 01
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	15.000	97.2	42.378
45.0	15.000	89.2	41.348
90.0	15.000	81.1	40.204
135.0	15.000	95.4	42.153
180.0	15.000	109.9	43.771
225.0	15.000	109.3	43.712
270.0	15.000	117.0	44.404
315.0	15.000	101.6	42.887

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

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 = 160.1km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
18	WURO		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	W15BP	PINCONNING MI	76.1	LIC	BLTTL	-20030609AAR
17	WCMV	CADILLAC MI	59.0	LIC	BLEDT	-20050914AAI
17	W17DF-D	MUSKEGON MI	190.9	LIC	BLDTL	-20110215AAG
18	WEID-LP	ELKHART IN	340.9	LIC	BLTT	-20001011AEF
18	WISE-TV	FORT WAYNE IN	381.7	LIC	BLCDDT	-20091103ACK
18	WISE-DR	FORT WAYNE IN	381.7	APP	BPRM	-20080820AHU
18	WHNW-LD	GARY IN	399.0	LIC	BLDTL	-20110121ABI
18	W18BT	ALPENA MI	105.5	LIC	BLTTL	-19981113JB
18	WDWO-CD	DETROIT MI	240.1	LIC	BLDTA	-20130108ABZ
18	NEW	MT PLEASANT MI	131.5	APP	BDCCDTL	-20121130BNU
18	W18EJ-D	STERLING MI	59.5	CP	BDCCDTL	-20120605AAC
18	WDTJ-LD	TOLEDO OH	323.1	LIC	BLDTL	-20121219ABP
18	WVTV	MILWAUKEE WI	319.8	LIC	BLCDDT	-20101012ADH
19	W19EA-D	ROSCOMMON MI	25.7	CP	BNPDTL	-20100223ACZ
19	W19DQ-D	TRAVERSE CITY MI	104.0	CP	BNPDTL	-20100301ACZ
22	WKNX-LP	PINCONNING MI	94.2	LIC	BLTTL	-20030714AEI
25	DW25CU	TRAVERSE CITY MI	104.0	LIC	BLTTL	-20010802AAI

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	W15BP	PINCONNING MI	BLTTL	-20030609AAR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WDCQ-TV	BAD AXE MI	48.4	LIC	BLEDT	-20030922ABG
15	WEWS-TV	CLEVELAND OH	336.5	LIC	BLCDDT	-20091211ACS
16	WSMH	FLINT MI	69.0	LIC	BLCDDT	-20090804ABG
17	WCMV	CADILLAC MI	126.8	LIC	BLEDT	-20050914AAI
22	WNEM-TV	BAY CITY MI	46.3	LIC	BLCDDT	-20050615ACI
29	WGTU	TRAVERSE CITY MI	126.8	LIC	BLCDDT	-20090622AFH

30	WEYI-TV	SAGINAW MI	76.0	LIC	BLCDT	-20040123ASH
18	WURO		76.1	APP	USERRECORD-01	

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.
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
18	WURO		59.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 2
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	865	134.5
lost to ATV IX only	865	134.5
lost to all IX	865	134.5

Potential Interfering Stations Included in above Scenario 1

18A USERRECORD01 APP

Percent new IX = 0.2205%

Worst case new IX 0.2205% Scenario 1

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Analysis of Interference to Affected Station 3

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	WXMI	BATTLE CREEK MI	149.4	APP	BMPCDT	-20130617AAT
17	WXMI	BATTLE CREEK MI	147.6	CP	BDRTCDT	-20110321ABG
17	WCMV	CADILLAC MI	181.5	LIC	BLEDT	-20050914AAI
17	WYTU-LD	MILWAUKEE WI	145.6	LIC	BLDTL	-20120731ALQ
18	WURO		190.9	APP	USERRECORD-01	

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.
18	WEID-LP	ELKHART IN	BLTT	-20001011AEF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	122.2	LIC	BLEDT	-20040206AAA
18	WISE-TV	FORT WAYNE IN	90.0	LIC	BLCDDT	-20091103ACK
18	WISE-DR	FORT WAYNE IN	90.0	APP	BPRM	-20080820AHU
18	WHNW-LD	GARY IN	112.4	LIC	BLDTL	-20110121ABI
18	WVTV	MILWAUKEE WI	225.4	LIC	BLCDDT	-20101012ADH
19	WXMI	GRAND RAPIDS MI	121.8	LIC	BLCDDT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	121.8	CP	BPCDDT	-20080619AKI
20	WOTV	BATTLE CREEK MI	111.4	LIC	BLCDDT	-20130207AAQ
21	WYCC	CHICAGO IL	138.6	LIC	BLEDT	-20030501ABC
22	WSBT-TV	SOUTH BEND IN	19.4	LIC	BLCDDT	-20090224ABF
18	WURO		340.9	APP	USERRECORD-01	

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.
18	WISE-TV	FORT WAYNE IN	BLCDDT	-20091103ACK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	187.3	LIC	BLEDT	-20040206AAA
18	WISE-DR	FORT WAYNE IN	0.0	APP	BPRM	-20080820AHU
18	WVTV	MILWAUKEE WI	315.3	LIC	BLCDDT	-20101012ADH
19	WGN-TV	CHICAGO IL	221.6	LIC	BMLCDDT	-20080201APP
19	WPXD-DR	ANN ARBOR MI	218.3	APP	BPRM	-20080619ALV
19	WXMI	GRAND RAPIDS MI	178.5	LIC	BLCDDT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	178.5	CP	BPCDDT	-20080619AKI
18	WURO		381.7	APP	USERRECORD-01	

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.
18	WISE-DR	FORT WAYNE IN	BPRM	-20080820AHU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	187.3	LIC	BLEDT	-20040206AAA
18	WISE-TV	FORT WAYNE IN	0.0	LIC	BLCDDT	-20091103ACK
18	WVTV	MILWAUKEE WI	315.3	LIC	BLCDDT	-20101012ADH
19	WGN-TV	CHICAGO IL	221.6	LIC	BMLCDDT	-20080201APP
19	WPXD-DR	ANN ARBOR MI	218.3	APP	BPRM	-20080619ALV
19	WXMI	GRAND RAPIDS MI	178.5	LIC	BLCDDT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	178.5	CP	BPCDDT	-20080619AKI
18	WURO		381.7	APP	USERRECORD-01	

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.
18	WHNW-LD	GARY IN	BLDDTL	-20110121ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	28.7	LIC	BLEDT	-20040206AAA
18	NEW	DELPHI IN	100.7	APP	BNPDDL	-20100510ADO
18	WEID-LP	ELKHART IN	112.4	LIC	BLTT	-20001011AEF
18	WISE-TV	FORT WAYNE IN	188.0	LIC	BLCDDT	-20091103ACK
18	WISE-DR	FORT WAYNE IN	188.0	APP	BPRM	-20080820AHU
18	WVTV	MILWAUKEE WI	172.3	LIC	BLCDDT	-20101012ADH
19	WGN-TV	CHICAGO IL	39.4	LIC	BMLCDDT	-20080201APP
18	WURO		399.0	APP	USERRECORD-01	

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.
18	W18BT	ALPENA MI	BLTTL -19981113JB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WURO		105.5	APP	USERRECORD-01

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.
18	WDWO-CD	DETROIT MI	BLDTA -20130108ABZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WEID-LP	ELKHART IN	239.5	LIC	BLTT -20001011AEF
18	WISE-TV	FORT WAYNE IN	218.3	LIC	BLCDDT -20091103ACK
18	WISE-DR	FORT WAYNE IN	218.3	APP	BPRM -20080820AHU
18	NEW	MT PLEASANT MI	176.6	APP	BDCCDTL -20121130BNU
18	WLQP-LP	LIMA OH	205.3	APP	BDFCDTL -20060331BFI
18	WDTJ-LD	TOLEDO OH	94.3	LIC	BLDTL -20121219ABP
18	WVTV	MILWAUKEE WI	380.7	LIC	BLCDDT -20101012ADH
19	WPXD-DR	ANN ARBOR MI	0.0	APP	BPRM -20080619ALV
19	W47DL-D	DETROIT MI	28.2	APP	BDISDTT -20120720ABC
18	WURO		240.1	APP	USERRECORD-01

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.
18	NEW	MT PLEASANT MI	BDCCDTL -20121130BNU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WEID-LP	ELKHART IN	209.5	LIC	BLTT -20001011AEF
18	WISE-TV	FORT WAYNE IN	256.3	LIC	BLCDDT -20091103ACK
18	WISE-DR	FORT WAYNE IN	256.3	APP	BPRM -20080820AHU
18	WDWO-CD	DETROIT MI	176.6	LIC	BLDTA -20130108ABZ
18	W18EJ-D	STERLING MI	109.8	CP	BDCCDTL -20120605AAC
18	WVTV	MILWAUKEE WI	231.4	LIC	BLCDDT -20101012ADH
19	WXMI	GRAND RAPIDS MI	88.0	LIC	BLCDDT -20030117ABD

19	WXMI	GRAND RAPIDS MI	88.0	CP	BPCDT	-20080619AKI
18	WURO		131.5	APP	USERRECORD-01	

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.
18	W18EJ-D	STERLING MI	BDCCDTL -20120605AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WCMV	CADILLAC MI	114.8	LIC	BLEDT -20050914AAI
18	WISE-TV	FORT WAYNE IN	339.5	LIC	BLCDT -20091103ACK
18	WISE-DR	FORT WAYNE IN	339.5	APP	BPRM -20080820AHU
18	W18BT	ALPENA MI	132.2	LIC	BLTTL -19981113JB
18	WDWO-CD	DETROIT MI	181.8	LIC	BLDTA -20130108ABZ
18	NEW	MT PLEASANT MI	109.8	APP	BDCCDTL -20121130BNU
18	WVTV	MILWAUKEE WI	329.5	LIC	BLCDT -20101012ADH
18	WURO		59.5	APP	USERRECORD-01

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.
18	WDTJ-LD	TOLEDO OH	BLDTL -20121219ABP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WEID-LP	ELKHART IN	202.5	LIC	BLTT -20001011AEF
18	WISE-TV	FORT WAYNE IN	149.6	LIC	BLCDT -20091103ACK
18	WISE-DR	FORT WAYNE IN	149.6	APP	BPRM -20080820AHU
18	WDWO-CD	DETROIT MI	94.3	LIC	BLDTA -20130108ABZ
18	WLQP-LP	LIMA OH	126.0	LIC	BLTTL -19990407JA
18	WLQP-LP	LIMA OH	112.2	APP	BDFCDTL -20060331BFI
18	WVTV	MILWAUKEE WI	391.9	LIC	BLCDT -20101012ADH
19	WPXD-DR	ANN ARBOR MI	94.3	APP	BPRM -20080619ALV
19	W47DL-D	DETROIT MI	86.0	APP	BDISDTT -20120720ABC
18	WURO		323.1	APP	USERRECORD-01

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.
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Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WYIN	GARY IN	198.5	LIC	BLED T	-20040206AAA
18	KYIN	MASON CITY IA	390.9	LIC	BLED T	-20090612AHJ
18	WISE-TV	FORT WAYNE IN	315.3	LIC	BLC DT	-20091103ACK
18	WISE-DR	FORT WAYNE IN	315.3	APP	BPRM	-20080820AHU
19	WGN-TV	CHICAGO IL	137.0	LIC	BMLC DT	-20080201APP
19	WXMI	GRAND RAPIDS MI	198.4	LIC	BLC DT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	198.4	CP	BPC DT	-20080619AKI
19	WMTV	MADISON WI	128.6	LIC	BLC DT	-20100413AAW
18	WURO		319.8	APP	USERRECORD-01	

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.
19	W19EA-D	ROSCOMMON MI	BNPDTL	-20100223ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	WGN-TV	CHICAGO IL	377.7	LIC	BMLC DT	-20080201APP
19	WPXD-DR	ANN ARBOR MI	255.6	APP	BPRM	-20080619ALV
19	WXMI	GRAND RAPIDS MI	215.6	LIC	BLC DT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	215.6	CP	BPC DT	-20080619AKI
19	WZMQ	MARQUETTE MI	314.8	LIC	BLC DT	-20100928AJX
19	W19DQ-D	TRAVERSE CITY MI	78.5	CP	BNPDTL	-20100301ACZ
20	W20DK-D	ROSCOMMON MI	0.0	CP	BNPDTL	-20100223ACY
20	W20DI-D	TRAVERSE CITY MI	78.5	CP	BNPDTL	-20100301ADA
18	WURO		25.7	APP	USERRECORD-01	

Total scenarios = 6

Result key: 2
 Scenario 1 Affected station 14
 Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
 HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	184	72.4
lost to ATV IX only	184	72.4
lost to all IX	184	72.4

Potential Interfering Stations Included in above Scenario 1

19A MI GRAND RAPIDS	BLC DT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP

HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	190	79.3
lost to ATV IX only	190	79.3
lost to all IX	190	79.3

Potential Interfering Stations Included in above Scenario 1

19A MI GRAND RAPIDS	BLCDT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0316%

Result key: 3
Scenario 2 Affected station 14
Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP

HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	498	82.2
lost to ATV IX only	498	82.2
lost to all IX	498	82.2

Potential Interfering Stations Included in above Scenario 2

19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP

HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	504	89.0
lost to ATV IX only	504	89.0
lost to all IX	504	89.0

Potential Interfering Stations Included in above Scenario 2

19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0321%

Result key: 4
Scenario 3 Affected station 14
Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	316	79.3
lost to ATV IX only	316	79.3
lost to all IX	316	79.3

Potential Interfering Stations Included in above Scenario 3

19A MI ANN ARBOR	BPRM	20080619ALV	APP
19A MI GRAND RAPIDS	BLCDT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	322	86.1
lost to ATV IX only	322	86.1
lost to all IX	322	86.1

Potential Interfering Stations Included in above Scenario 3

19A MI ANN ARBOR	BPRM	20080619ALV	APP
19A MI GRAND RAPIDS	BLCDT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0318%

Result key: 5
Scenario 4 Affected station 14
Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	630	89.0
lost to ATV IX only	630	89.0
lost to all IX	630	89.0

Potential Interfering Stations Included in above Scenario 4

19A MI ANN ARBOR	BPRM	20080619ALV	APP
19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	636	95.9
lost to ATV IX only	636	95.9
lost to all IX	636	95.9

Potential Interfering Stations Included in above Scenario 4

19A MI ANN ARBOR	BPRM	20080619ALV	APP
19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0323%

Result key: 6
Scenario 5 Affected station 14
Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	184	72.4
lost to ATV IX only	184	72.4
lost to all IX	184	72.4

Potential Interfering Stations Included in above Scenario 5

19A MI GRAND RAPIDS	BLCDT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	190	79.3
lost to ATV IX only	190	79.3
lost to all IX	190	79.3

Potential Interfering Stations Included in above Scenario 5

19A MI GRAND RAPIDS	BLCDT	20030117ABD	LIC
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0316%

Result key: 7
 Scenario 6 Affected station 14
 Before Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
 HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	498	82.2
lost to ATV IX only	498	82.2
lost to all IX	498	82.2

Potential Interfering Stations Included in above Scenario 6

19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP

After Analysis

Results for: 19A MI ROSCOMMON BNPDTL 20100223ACZ CP
 HAAT 32.0 m, ATV ERP 1.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19188	1153.6
not affected by terrain losses	19188	1153.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	504	89.0
lost to ATV IX only	504	89.0
lost to all IX	504	89.0

Potential Interfering Stations Included in above Scenario 6

19A MI GRAND RAPIDS	BPCDT	20080619AKI	CP
19A MI TRAVERSE CITY	BNPDTL	20100301ACZ	CP
18A	USERRECORD01		APP

Percent new IX = 0.0321%

Worst case new IX 0.0323% Scenario 4

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	W19DQ-D	TRAVERSE CITY MI	BNPDTL	-20100301ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	WGN-TV	CHICAGO IL	356.8	LIC	BMLCDT	-20080201APP
19	WPXD-DR	ANN ARBOR MI	316.3	APP	BPRM	-20080619ALV
19	WXMI	GRAND RAPIDS MI	230.2	LIC	BLCDT	-20030117ABD
19	WXMI	GRAND RAPIDS MI	230.2	CP	BPCDT	-20080619AKI
19	WZMQ	MARQUETTE MI	247.2	LIC	BLCDT	-20100928AJX

19	W19EA-D	ROSCOMMON MI	78.5	CP	BNPDTL	-20100223ACZ
19	WMTV	MADISON WI	359.0	LIC	BLCDDT	-20100413AAW
20	W20DI-D	TRAVERSE CITY MI	0.0	CP	BNPDTL	-20100301ADA
18	WURO		104.0	APP	USERRECORD-01	

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.
22	WKNX-LP	PINCONNING MI	BLTTL	-20030714AEI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	WKBD-TV	DETROIT MI	146.0	LIC	BLCDDT	-20090202AHW
14	WKBD-TV	DETROIT MI	146.0	CP	BPCDDT	-20080619ABE
15	WDCQ-TV	BAD AXE MI	31.7	LIC	BLEDDT	-20030922ABG
19	WPXD-DR	ANN ARBOR MI	146.0	APP	BPRM	-20080619ALV
22	WSBT-TV	SOUTH BEND IN	294.7	LIC	BLCDDT	-20090224ABF
22	WNEM-TV	BAY CITY MI	28.1	LIC	BLCDDT	-20050615ACI
22	WFXP	ERIE PA	368.7	LIC	BLCDDT	-20081023ABA
22	WVCY-TV	MILWAUKEE WI	323.3	LIC	BLCDDT	-20060619AAX
26	WCMU-TV	MOUNT PLEASANT MI	98.5	LIC	BLEDDT	-20130710ABN
29	WGTU	TRAVERSE CITY MI	144.8	LIC	BLCDDT	-20090622AFH
30	WEYI-TV	SAGINAW MI	57.9	LIC	BLCDDT	-20040123ASH
36	WLNS-TV	LANSING MI	116.8	LIC	BLCDDT	-20090720ADT
18	WURO		94.2	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	DW25CU	TRAVERSE CITY MI	BLTTL	-20010802AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WCMV	CADILLAC MI	48.1	LIC	BLEDDT	-20050914AAI
21	WCMW	MANISTEE MI	92.7	LIC	BLEDDT	-20090612ABH
24	WCML	ALPENA MI	126.6	LIC	BLEDDT	-20110707ABQ
25	W25DX	ESCANABA MI	157.5	LIC	BLTTL	-20110825ABZ
25	WCGV-TV	MILWAUKEE WI	256.5	LIC	BLCDDT	-20120405ACO
26	WCMU-TV	MOUNT PLEASANT MI	117.7	LIC	BLEDDT	-20130710ABN
29	WGTU	TRAVERSE CITY MI	48.1	LIC	BLCDDT	-20090622AFH
32	WFQX-TV	CADILLAC MI	73.8	LIC	BLCDDT	-20091217ACU
32	WFQX-DR	CADILLAC MI	73.8	APP	BPRM	-20080620AOP
18	WURO		104.0	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
18	WURO		USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WCMV	CADILLAC MI	59.0	LIC	BLEDT -20050914AAI
18	WISE-TV	FORT WAYNE IN	381.7	LIC	BLCDT -20091103ACK
18	WISE-DR	FORT WAYNE IN	381.7	APP	BPRM -20080820AHU
18	W18BT	ALPENA MI	105.5	LIC	BLTTL -19981113JB
18	NEW	MT PLEASANT MI	131.5	APP	BDCCDTL -20121130BNU
18	W18EJ-D	STERLING MI	59.5	CP	BDCCDTL -20120605AAC
18	WVTV	MILWAUKEE WI	319.8	LIC	BLCDT -20101012ADH
19	W19EA-D	ROSCOMMON MI	25.7	CP	BNPDTL -20100223ACZ

Total scenarios = 1

Result key: 8
Scenario 1 Affected station 18
Before Analysis

Results for: 18A USERRECORD01 APP

HAAT 100.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	73008	6311.0
not affected by terrain losses	72993	6302.2
lost to NTSC IX	14	23.5
lost to additional IX by ATV	14991	900.0
lost to ATV IX only	15001	906.9
lost to all IX	15005	923.5

Potential Interfering Stations Included in above Scenario 1

18N MI ALPENA	BLTTL	19981113JB	LIC
17A MI CADILLAC	BLEDT	20050914AAI	LIC
18A MI STERLING	BDCCDTL	20120605AAC	CP
19A MI ROSCOMMON	BNPDTL	20100223ACZ	CP

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