W20AB ALLOCATION STUDY

FCC DTV Allocation Software Interference Analysis

FEBRUARY 16, 2016

ELLIS ENGINEEREING
121 Merlot Drive, Lafayette, LA 70503

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

 Date: 02-17-2016   Time: 06:00:10

 Record Selected for Analysis

 W20AB   USERRECORD-01   OLEAN   NY US
 Channel 20 ERP 15.   kW   HAAT 166. m RCAMSL 00712 m STRINGENT MASK
 Latitude 042-03-04 Longitude 0078-25-11
 Status APP   Zone 1   Border   Site number: 01
 Dir Antenna Make CDB Model 00000000018123 Beam tilt N Ref Azimuth 355.
 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   14.627   201.8   49.8
     45.0   14.114   183.1   48.5
     90.0   1.218   184.4   35.9
    135.0   0.600   139.3   29.5
    180.0   0.919   176.8   34.0
    225.0   0.693   68.9   23.1
    270.0   2.709   164.2   38.9
    315.0   14.406   210.3   50.2

Contour Overlap to Proposed Station

Station
W20AB 20 OLEAN NY BLTTL19870120IA

Station inside contour of Digital LPTV station
W20AB 20 OLEAN NY USERRECORD01

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 = 97.3km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Proposed Station

Channel	Call	City/State	ARN
20	W20AB	OLEAN NY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WSYT	SYRACUSE NY	204.0	LIC	BLCDT -20050705AAM
19	W19EI-D	DUBOIS PA	66.9	CP	BNPDTL -20100609AGG
20	WQAW-LP	LAKE SHORE MD	371.0	CP	BDISDTL -20090629AAY
20	WQAW-LP	LAKE SHORE MD	371.0	APP	BESTA -20131031ABS
20	WHNE-LD	FLINT MI	393.5	CP	BDISDTL -20101223ACD
20	W20BL-D	BATH NY	102.8	LIC	BLDTL -20120315AAG
20	WBGH-CD	BINGHAMTON NY	204.4	LIC	BLTTA -20050505AAV
20	WBGH-CD	BINGHAMTON NY	204.4	LIC	BLANK -0000004524
20	WNYI	ITHACA NY	210.0	LIC	BLCDT -20100520AEA
20	WNGJ-LP	OGDENSBURG NY	375.2	LIC	BLTTL -20110318AEZ
20	WNGJ-LP	OGDENSBURG NY	375.2	CP	BDFCDTL -20111222AWT
20	W20CM	PORT JERVIS NY	319.7	LIC	BLTTL -20071129AIS
20	WAWW-LP	ROCHESTER NY	138.5	LIC	BLTTL -20121029AAV
20	WFMJ-TV	YOUNGSTOWN OH	213.9	LIC	BLCDT -20061013ABM
20	W20CP-D	MANSFIELD PA	127.8	LIC	BLDTT -20081128ABW
20	WWLM-CD	WASHINGTON PA	256.5	LIC	BLANK -0000001454
20	W20AD-D	WILLIAMSPORT PA	145.7	LIC	BLDTT -20090810AAD
20	WAZF-CD	FRONT ROYAL VA	312.2	LIC	BLANK -0000001155
20	WAZF-CD	FRONT ROYAL VA	312.2	LIC	BLANK -0000001577
20	W20DY-D	ROANOKE WV	387.0	CP	BNPDTL -20100514AAR
21	WPXI	DERRY PA	201.9	CP	BDRTCT -20090610ABT
21	W21DO-D	DUBOIS PA	66.9	CP	BNPDTL -20100609AGH

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	WSYT	SYRACUSE NY	BLCDT -20050705AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WETM-TV	ELMIRA NY	102.2	LIC	BLCDT -20090622AFJ
19	WGBH-TV	BOSTON MA	410.9	LIC	BLEDT -20021219AAM
20	WNYI	ITHACA NY	18.5	LIC	BLCDT -20100520AEA
20	W20AB	OLEAN NY	204.0	APP	USERRECORD-01

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.
19	W19EI-D	DUBOIS PA	BNPDTL -20100609AGG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WSYT	SYRACUSE NY	256.9	LIC	BLCDT -20050705AAM
19	WYFX-LD	YOUNGSTOWN OH	170.6	LIC	BLDTL -20110329AAF
19	WEMW-CD	GREENSBURG PA	149.6	LIC	BLDTA -20140702ABT
19	WEMW-CD	GREENSBURG PA	157.8	APP	BSTA -20140122ABA
19	WCAV	CHARLOTTESVILLE VA	389.2	LIC	BLCDT -20090522ADB
20	W20AB	OLEAN NY	66.9	APP	USERRECORD-01

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.
20	WQAW-LP	LAKE SHORE MD	BDISDTL -20090629AAY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WUND-TV	EDENTON NC	346.5	LIC	BMLEDT -20101027ABX
20	WAZF-CD	FRONT ROYAL VA	99.6	LIC	BLANK -0000001155
20	WAZF-CD	FRONT ROYAL VA	99.6	LIC	BLANK -0000001577
20	WWCW	LYNCHBURG VA	324.1	LIC	BLCDT -20090619ABM
21	WBOC-TV	SALISBURY MD	100.8	LIC	BLCDT -20090618ABK
20	W20AB	OLEAN NY	371.0	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.
20	WQAW-LP	LAKE SHORE MD	BESTA	-20131031ABS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WUND-TV	EDENTON NC	346.5	LIC	BMLEDT	-20101027ABX
20	WAZF-CD	FRONT ROYAL VA	99.6	LIC	BLANK	-0000001155
20	WAZF-CD	FRONT ROYAL VA	99.6	LIC	BLANK	-0000001577
20	WWCW	LYNCHBURG VA	324.1	LIC	BLCDT	-20090619ABM
21	WBOC-TV	SALISBURY MD	100.8	LIC	BLCDT	-20090618ABK
20	W20AB	OLEAN NY	371.0	APP	USERRECORD	-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
20	WHNE-LD	FLINT MI	BDISDTL	-20101223ACD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	WPXD-DR	ANN ARBOR MI	12.1	APP	BPRM	-20080619ALV
19	WUDL-LD	DETROIT MI	17.1	CP	BDISDTT	-20120720ABC
19	WUDL-LD	DETROIT MI	0.0	APP	BLANK	-0000007974
20	WHMB-TV	INDIANAPOLIS IN	380.7	LIC	BLCDT	-20120503AAT
20	WHMB-DR	INDIANAPOLIS IN	380.7	APP	BPRM	-20080619AEU
20	WOTV	BATTLE CREEK MI	188.6	LIC	BLCDT	-20130207AAQ
20	DWJND-LD	FINDLAY OH	205.6	APP	BDCCDTL	-20061026AGA
20	WFMJ-TV	YOUNGSTOWN OH	259.2	LIC	BLCDT	-20061013ABM
21	WMYD	DETROIT MI	0.0	LIC	BLCDT	-20040524AOG
20	W20AB	OLEAN NY	393.5	APP	USERRECORD	-01

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.
20	W20BL-D	BATH NY	BLDTL -20120315AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WSYT	SYRACUSE NY	105.0	LIC	BLCDT -20050705AAM
20	WCCT-TV	WATERBURY CT	368.6	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	368.6	APP	BMPCDT -20080620AHG
20	WBGH-CD	BINGHAMTON NY	108.8	LIC	BLTTA -20050505AAV
20	WBGH-CD	BINGHAMTON NY	108.8	LIC	BLANK -0000004524
20	WNYI	ITHACA NY	108.4	LIC	BLCDT -20100520AEA
20	W20AB	OLEAN NY	102.8	LIC	BLTTL -19870120IA
20	WAWW-LP	ROCHESTER NY	96.5	LIC	BLTTL -20121029AAV
20	WFMJ-TV	YOUNGSTOWN OH	314.9	LIC	BLCDT -20061013ABM
20	W20CP-D	MANSFIELD PA	65.8	LIC	BLDTT -20081128ABW
20	W20AB	OLEAN NY	102.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 6
Before Analysis

Results for: 20A NY BATH BLDTL 20120315AAG LIC
HAAT 241.0 m, ATV ERP 0.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	88154	3174.9
not affected by terrain losses	67033	2791.8
lost to NTSC IX	390	20.8
lost to additional IX by ATV	5146	426.8
lost to ATV IX only	5352	440.7
lost to all IX	5536	447.6

Potential Interfering Stations Included in above Scenario 1

20N NY BINGHAMTON	BLTTA	20050505AAV	LIC
20N NY ROCHESTER	BLTTL	20121029AAV	LIC
19A NY SYRACUSE	BLCDT	20050705AAM	LIC
20A NY BINGHAMTON	BLANK	0000004524	LIC
20A NY ITHACA	BLCDT	20100520AEA	LIC
20A PA MANSFIELD	BLDTT	20081128ABW	LIC
20N NY OLEAN	BLTTL	19870120IA	LIC

After Analysis

Results for: 20A NY BATH BLDTL 20120315AAG LIC
HAAT 241.0 m, ATV ERP 0.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	88154	3174.9
not affected by terrain losses	67033	2791.8
lost to NTSC IX	390	20.8
lost to additional IX by ATV	5180	429.7
lost to ATV IX only	5386	443.6
lost to all IX	5570	450.6

Potential Interfering Stations Included in above Scenario 1

20N NY BINGHAMTON	BLTTA	20050505AAV	LIC
20N NY ROCHESTER	BLTTL	20121029AAV	LIC
19A NY SYRACUSE	BLCDT	20050705AAM	LIC
20A NY BINGHAMTON	BLANK	0000004524	LIC
20A NY ITHACA	BLCDT	20100520AEA	LIC
20A PA MANSFIELD	BLDTT	20081128ABW	LIC
20A NY OLEAN	USERRECORD01		APP

Percent new IX = 0.0553%

Worst case new IX 0.0553% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
20	WBGH-CD	BINGHAMTON NY	BLTTA	-20050505AAV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WSYR-TV	SYRACUSE NY	98.5	LIC	BLCDT	-20030812ABK
18	WETM-TV	ELMIRA NY	76.7	LIC	BLCDT	-20090622AFJ
19	WSYT	SYRACUSE NY	93.5	LIC	BLCDT	-20050705AAM
20	WCCT-TV	WATERBURY CT	260.5	LIC	BLCDT	-20090911ABK
20	WCCT-TV	WATERBURY CT	260.5	APP	BMPCDT	-20080620AHG
20	WCVB-TV	BOSTON MA	388.5	LIC	BLCDT	-20020102AAH
20	WNYI	ITHACA NY	78.0	LIC	BLCDT	-20100520AEA
20	W20CP-D	MANSFIELD PA	87.9	LIC	BLDTT	-20081128ABW
24	WSTM-TV	SYRACUSE NY	99.3	LIC	BLCDT	-20090622AEM
27	WFXV	UTICA NY	135.9	LIC	BLCDT	-20090331ADG
34	WIVT	BINGHAMTON NY	0.0	LIC	BLCDT	-20090819AGR
20	W20AB	OLEAN NY	204.4	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.
20	WBGH-CD	BINGHAMTON NY	BLANK -0000004524

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WSYT	SYRACUSE NY	93.5	LIC	BLCDT -20050705AAM
20	WCCT-TV	WATERBURY CT	260.5	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	260.5	APP	BMPCDT -20080620AHG
20	WCVB-TV	BOSTON MA	388.5	LIC	BLCDT -20020102AAH
20	W20BL-D	BATH NY	108.8	LIC	BLDTL -20120315AAG
20	WNYI	ITHACA NY	78.0	LIC	BLCDT -20100520AEA
20	WAWW-LP	ROCHESTER NY	179.7	LIC	BLTTL -20121029AAV
20	W20CP-D	MANSFIELD PA	87.9	LIC	BLDTT -20081128ABW
20	W20AB	OLEAN NY	204.4	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.
20	WNYI	ITHACA NY	BLCDT -20100520AEA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WSYT	SYRACUSE NY	18.5	LIC	BLCDT -20050705AAM
20	WCCT-TV	WATERBURY CT	289.3	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	289.3	APP	BMPCDT -20080620AHG
20	WCVB-TV	BOSTON MA	397.0	LIC	BLCDT -20020102AAH
20	WFMJ-TV	YOUNGSTOWN OH	423.2	LIC	BLCDT -20061013ABM
21	WWTI	WATERTOWN NY	127.4	LIC	BLCDT -20040128AFQ
20	W20AB	OLEAN NY	210.0	APP	USERRECORD-01

Total scenarios = 2

Result key: 2
Scenario 1 Affected station 9

Before Analysis

Results for: 20A NY ITHACA BLCDT 20100520AEA LIC
HAAT 237.0 m, ATV ERP 110.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1061421	13816.3
not affected by terrain losses	956163	12724.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	384994	3475.2
lost to ATV IX only	384994	3475.2
lost to all IX	384994	3475.2

Potential Interfering Stations Included in above Scenario 1

19A NY SYRACUSE	BLCDT	20050705AAM LIC
20A CT WATERBURY	BLCDT	20090911ABK LIC

After Analysis

Results for: 20A NY ITHACA BLCDT 20100520AEA LIC
HAAT 237.0 m, ATV ERP 110.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1061421	13816.3
not affected by terrain losses	956163	12724.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	385118	3481.1
lost to ATV IX only	385118	3481.1
lost to all IX	385118	3481.1

Potential Interfering Stations Included in above Scenario 1

19A NY SYRACUSE	BLCDT	20050705AAM LIC
20A CT WATERBURY	BLCDT	20090911ABK LIC
20A NY OLEAN	USERRECORD01	APP

Percent new IX = 0.0217%

Result key: 3
Scenario 2 Affected station 9
Before Analysis

Results for: 20A NY ITHACA BLCDT 20100520AEA LIC
HAAT 237.0 m, ATV ERP 110.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1061421	13816.3
not affected by terrain losses	956163	12724.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	386143	3491.0
lost to ATV IX only	386143	3491.0
lost to all IX	386143	3491.0

Potential Interfering Stations Included in above Scenario 2

19A NY SYRACUSE	BLCDT	20050705AAM	LIC
20A CT WATERBURY	BMPCDT	20080620AHG	APP

After Analysis

Results for: 20A NY ITHACA BLCDT 20100520AEA LIC
HAAT 237.0 m, ATV ERP 110.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1061421	13816.3
not affected by terrain losses	956163	12724.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	386267	3495.9
lost to ATV IX only	386267	3495.9
lost to all IX	386267	3495.9

Potential Interfering Stations Included in above Scenario 2

19A NY SYRACUSE	BLCDT	20050705AAM	LIC
20A CT WATERBURY	BMPCDT	20080620AHG	APP
20A NY OLEAN	USERRECORD01		APP

Percent new IX = 0.0218%

Worst case new IX 0.0218% Scenario 2

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	WNGJ-LP	OGDENSBURG NY	BLTTL -20110318AEZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WCCT-TV	WATERBURY CT	390.4	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	390.4	APP	BMPCDT -20080620AHG
20	WNYI	ITHACA NY	215.5	LIC	BLCDT -20100520AEA
21	WWTI	WATERTOWN NY	88.2	LIC	BLCDT -20040128AFQ
23	WNPI-DT	NORWOOD NY	50.6	LIC	BLEDT -20050715ABZ
20	W20AB	OLEAN NY	375.2	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.
20	WNGJ-LP	OGDENSBURG NY	BDFCDTL -20111222AWT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WCCT-TV	WATERBURY CT	390.4	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	390.4	APP	BMPCDT -20080620AHG
20	WNYI	ITHACA NY	215.5	LIC	BLCDT -20100520AEA
21	WWTI	WATERTOWN NY	88.2	LIC	BLCDT -20040128AFQ
20	W20AB	OLEAN NY	375.2	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.
20	W20CM	PORT JERVIS NY	BLTTL -20071129AIS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WMBC-TV	NEWTON NJ	68.4	LIC	BLCDT -20101130AAX
18	WMBC-TV	NEWTON NJ	89.7	LIC	BLCDT -20101130AAX
19	W19DC-D	PORT JERVIS NY	31.9	CP MOD	BMPDTL -20080214ADY
20	WCCT-TV	WATERBURY CT	158.1	LIC	BLCDT -20090911ABK
20	WCCT-TV	WATERBURY CT	158.1	APP	BMPCDT -20080620AHG
20	WCVB-TV	BOSTON MA	303.7	LIC	BLCDT -20020102AAH
20	WNYI	ITHACA NY	191.8	LIC	BLCDT -20100520AEA
21	WLIW	GARDEN CITY NY	121.0	APP	BMPEDT -20080620AID
21	WLIW	GARDEN CITY NY	121.0	LIC	BLEDT -20090612AEP
24	WNYE-TV	NEW YORK NY	89.0	LIC	BLEDT -20071228ABM
27	WTBY-TV	POUGHKEEPSIE NY	62.4	LIC	BLCDT -20090902ACZ
28	WNBC	NEW YORK NY	89.7	LIC	BLCDT -20080409AAM
28	WNBC	NEW YORK NY	89.7	APP	BLANK -0000003184
34	WIVT	BINGHAMTON NY	130.5	LIC	BLCDT -20090819AGR
20	W20AB	OLEAN NY	319.7	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	WAWW-LP	ROCHESTER NY	BLTTL -20121029AAV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
16	WXXI-TV	ROCHESTER NY	0.1	LIC	BLEDT -20140612AAV
17	WSYR-TV	SYRACUSE NY	128.5	LIC	BLCDT -20030812ABK
18	WETM-TV	ELMIRA NY	128.4	LIC	BLCDT -20090622AFJ
19	WSYT	SYRACUSE NY	116.1	LIC	BLCDT -20050705AAM
20	W20BL-D	BATH NY	96.5	LIC	BLDTL -20120315AAG
20	WNYI	ITHACA NY	132.0	LIC	BLCDT -20100520AEA
20	W20AB	OLEAN NY	136.1	LIC	BLTTL -19870120IA
20	WFMJ-TV	YOUNGSTOWN OH	340.0	LIC	BLCDT -20061013ABM
23	WPXJ-TV	BATAVIA NY	44.0	LIC	BLCDT -20090612AHY
24	WSTM-TV	SYRACUSE NY	121.0	LIC	BLCDT -20090622AEM
28	WUHF	ROCHESTER NY	0.1	LIC	BLCDT -20050316AAK
20	W20AB	OLEAN NY	138.5	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.
20	WFMJ-TV	YOUNGSTOWN OH	BLCDT -20061013ABM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WNYI	ITHACA NY	423.2	LIC	BLCDT -20100520AEA
20	WWCW	LYNCHBURG VA	426.8	LIC	BLCDT -20090619ABM
20	W20AB	OLEAN NY	213.9	APP	USERRECORD-01

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.
20	W20CP-D	MANSFIELD PA	BLDTT	-20081128ABW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WCCT-TV	WATERBURY CT	339.5	LIC	BLCDT	-20090911ABK
20	WCCT-TV	WATERBURY CT	339.5	APP	BMPCDT	-20080620AHG
20	W20BL-D	BATH NY	65.8	LIC	BLDTL	-20120315AAG
20	WBGH-CD	BINGHAMTON NY	87.9	LIC	BLTTA	-20050505AAV
20	WBGH-CD	BINGHAMTON NY	87.9	LIC	BLANK	-0000004524
20	WNYI	ITHACA NY	132.5	LIC	BLCDT	-20100520AEA
20	W20AB	OLEAN NY	129.5	LIC	BLTTL	-19870120IA
20	WAWW-LP	ROCHESTER NY	162.2	LIC	BLTTL	-20121029AAV
20	WFMJ-TV	YOUNGSTOWN OH	318.7	LIC	BLCDT	-20061013ABM
20	W20AD-D	WILLIAMSPORT PA	57.5	LIC	BLDTT	-20090810AAD
20	W20AB	OLEAN NY	127.8	APP	USERRECORD-01	

Total scenarios = 1

Result key: 4
Scenario 1 Affected station 15
Before Analysis

Results for: 20A PA MANSFIELD BLDTT 20081128ABW LIC
HAAT 336.0 m, ATV ERP 1.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	143136	4477.5
not affected by terrain losses	80027	3703.1
lost to NTSC IX	1484	38.1
lost to additional IX by ATV	4117	208.3
lost to ATV IX only	5053	233.7
lost to all IX	5601	246.4

Potential Interfering Stations Included in above Scenario 1

20N NY BINGHAMTON	BLTTA	20050505AAV	LIC
20N NY ROCHESTER	BLTTL	20121029AAV	LIC
20A NY BATH	BLDTL	20120315AAG	LIC
20A NY BINGHAMTON	BLANK	0000004524	LIC
20A NY ITHACA	BLCDT	20100520AEA	LIC
20A OH YOUNGSTOWN	BLCDT	20061013ABM	LIC
20N NY OLEAN	BLTTL	19870120IA	LIC

After Analysis

Results for: 20A PA MANSFIELD BLDTT 20081128ABW LIC
HAAT 336.0 m, ATV ERP 1.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	143136	4477.5
not affected by terrain losses	80027	3703.1
lost to NTSC IX	1417	35.2
lost to additional IX by ATV	4176	210.2
lost to ATV IX only	5053	233.7
lost to all IX	5593	245.4

Potential Interfering Stations Included in above Scenario 1

20N NY BINGHAMTON	BLTTA	20050505AAV	LIC
20N NY ROCHESTER	BLTTL	20121029AAV	LIC
20A NY BATH	BLDTL	20120315AAG	LIC
20A NY BINGHAMTON	BLANK	0000004524	LIC
20A NY ITHACA	BLCDT	20100520AEA	LIC
20A OH YOUNGSTOWN	BLCDT	20061013ABM	LIC
20A NY OLEAN	USERRECORD01		APP

Percent new IX = -0.0107%

Worst case new IX -0.0107% Scenario 1

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	WWLM-CD	WASHINGTON PA	BLANK -0000001454

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	WYFX-LD	YOUNGSTOWN OH	102.4	LIC	BLDTL -20110329AAF
19	WEMW-CD	GREENSBURG PA	58.1	LIC	BLDTA -20140702ABT
19	WEMW-CD	GREENSBURG PA	46.4	APP	BSTA -20140122ABA
20	WFMJ-TV	YOUNGSTOWN OH	104.7	LIC	BLCDT -20061013ABM
20	WWCW	LYNCHBURG VA	323.1	LIC	BLCDT -20090619ABM
20	W20DY-D	ROANOKE WV	139.0	CP	BNPDTL -20100514AAR
21	WSSS-LP	STEUBENVILLE OH	36.1	CP	BDISDTL -20121022AAR
21	WPXI	DERRY PA	86.3	CP	BDRTCT -20090610ABT
20	W20AB	OLEAN NY	256.5	APP	USERRECORD-01

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.
20	W20AD-D	WILLIAMSPORT PA	BLDTT	-20090810AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WCCT-TV	WATERBURY CT	353.4	LIC	BLCDT	-20090911ABK
20	WCCT-TV	WATERBURY CT	353.4	APP	BMPCDT	-20080620AHG
20	W20BL-D	BATH NY	119.0	LIC	BLDTL	-20120315AAG
20	WNYI	ITHACA NY	186.6	LIC	BLCDT	-20100520AEA
20	W20AB	OLEAN NY	148.4	LIC	BLTTL	-19870120IA
20	WFMJ-TV	YOUNGSTOWN OH	302.4	LIC	BLCDT	-20061013ABM
20	W20CP-D	MANSFIELD PA	57.5	LIC	BLDTT	-20081128ABW
21	WHP-TV	HARRISBURG PA	101.3	LIC	BLCDT	-20130703ACZ
20	W20AB	OLEAN NY	145.7	APP	USERRECORD-01	

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.
20	WAZF-CD	FRONT ROYAL VA	BLANK	-0000001155

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WQAW-LP	LAKE SHORE MD	99.6	CP	BDISDTL	-20090629AAY
20	WQAW-LP	LAKE SHORE MD	99.6	APP	BESTA	-20131031ABS
20	WFMJ-TV	YOUNGSTOWN OH	318.5	LIC	BLCDT	-20061013ABM
20	WWCW	LYNCHBURG VA	276.5	LIC	BLCDT	-20090619ABM
21	WVPY	FRONT ROYAL VA	128.6	LIC	BLEDT	-20140714AAV
21	WVPY	FRONT ROYAL VA	65.7	LIC	BLEDT	-20140714AAV
21	WVPY	FRONT ROYAL VA	111.3	LIC	BLEDT	-20140714AAV
21	WVPY	FRONT ROYAL VA	109.7	LIC	BLEDT	-20140714AAV
20	W20AB	OLEAN NY	312.2	APP	USERRECORD-01	

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.
20	WAZF-CD	FRONT ROYAL VA	BLANK -0000001577

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WQAW-LP	LAKE SHORE MD	99.6	CP	BDISDTL -20090629AAY
20	WQAW-LP	LAKE SHORE MD	99.6	APP	BESTA -20131031ABS
20	WFMJ-TV	YOUNGSTOWN OH	318.5	LIC	BLCDT -20061013ABM
20	WWCW	LYNCHBURG VA	276.5	LIC	BLCDT -20090619ABM
21	WVPY	FRONT ROYAL VA	128.6	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	65.7	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	111.3	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	109.7	LIC	BLEDT -20140714AAV
20	W20AB	OLEAN NY	312.2	APP	USERRECORD-01

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.
20	W20DY-D	ROANOKE WV	BNPDTL -20100514AAR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	W19DU-D	CLARKSBURG WV	40.4	CP	BNPDTL -20100330AEP
20	WFMJ-TV	YOUNGSTOWN OH	235.7	LIC	BLCDT -20061013ABM
20	WWLM-CD	WASHINGTON PA	139.0	LIC	BLANK -0000001454
20	WWCW	LYNCHBURG VA	198.5	LIC	BLCDT -20090619ABM
20	W20AB	OLEAN NY	387.0	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application Ref. No.
21	WPXI	DERRY PA	BDRTCT -20090610ABT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	WWLM-CD	WASHINGTON PA	86.3	LIC	BLANK -0000001454
21	WBOC-TV	SALISBURY MD	369.7	LIC	BLCDT -20090618ABK
21	WJW	CANTON OH	154.8	CP	BDRTCDT -20101123AOJ
21	WBNS-TV	COLUMBUS OH	324.9	LIC	BLCDT -20021025ABK
21	WSSS-LP	STEUBENVILLE OH	114.8	CP	BDISDTL -20121022AAR
21	W21DO-D	DUBOIS PA	135.0	CP	BNPDTL -20100609AGH
21	WHP-TV	HARRISBURG PA	200.3	LIC	BLCDT -20130703ACZ
21	WVPY	FRONT ROYAL VA	194.7	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	171.9	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	200.2	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	218.6	LIC	BLEDT -20140714AAV
22	WJAC-TV	ALTOONA PA	71.7	LIC	BLCDT -20110105ABC
22	WJAC-TV	ALTOONA PA	71.3	LIC	BLCDT -20101105AAU
22	WTAE-TV	PITTSBURGH PA	62.9	LIC	BLCDT -20091223AKV
20	W20AB	OLEAN NY	201.9	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application Ref. No.
21	W21DO-D	DUBOIS PA	BNPDTL -20100609AGH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	WMYD	DETROIT MI	386.2	LIC	BLCDT -20040524AOG
21	WWTI	WATERTOWN NY	360.0	LIC	BLCDT -20040128AFQ
21	WJW	CANTON OH	197.0	CP	BDRTCDT -20101123AOJ
21	WPXI	DERRY PA	135.0	CP	BDRTCT -20090610ABT
21	WHP-TV	HARRISBURG PA	198.0	LIC	BLCDT -20130703ACZ
21	WVPY	FRONT ROYAL VA	319.9	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	281.9	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	320.2	LIC	BLEDT -20140714AAV
21	WVPY	FRONT ROYAL VA	334.6	LIC	BLEDT -20140714AAV
22	WFXP	ERIE PA	130.5	LIC	BLCDT -20081023ABA
20	W20AB	OLEAN NY	66.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	W20AB	OLEAN NY	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	W19EI-D	DUBOIS PA	66.9	CP	BNPDTL -20100609AGG
20	W20BL-D	BATH NY	102.8	LIC	BLDTL -20120315AAG
20	WNYI	ITHACA NY	210.0	LIC	BLCDT -20100520AEA
20	WAWW-LP	ROCHESTER NY	138.5	LIC	BLTTL -20121029AAV
20	WFMJ-TV	YOUNGSTOWN OH	213.9	LIC	BLCDT -20061013ABM
20	W20CP-D	MANSFIELD PA	127.8	LIC	BLDTT -20081128ABW
21	W21DO-D	DUBOIS PA	66.9	CP	BNPDTL -20100609AGH

Total scenarios = 1

Result key: 5
Scenario 1 Affected station 23
Before Analysis

Results for: 20A NY OLEAN USERRECORD01 APP
HAAT 166.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	138872	5535.2
not affected by terrain losses	116965	5045.4
lost to NTSC IX	1820	50.8
lost to additional IX by ATV	4298	121.5
lost to ATV IX only	4492	146.3
lost to all IX	6118	172.2

Potential Interfering Stations Included in above Scenario 1

20N NY ROCHESTER	BLTTL	20121029AAV	LIC
20A NY BATH	BLDTL	20120315AAG	LIC
20A NY ITHACA	BLCDT	20100520AEA	LIC
20A OH YOUNGSTOWN	BLCDT	20061013ABM	LIC
20A PA MANSFIELD	BLDTT	20081128ABW	LIC

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