

ENGINEERING EXHIBIT

Incentive Auction Channel Reassignment

Application for Digital Television Station Construction Permit

prepared for

Stainless Broadcasting, L.P.

WICZ-TV Binghamton, NY

Facility ID 62210

Ch. 7 8.7 kW 370 m

Stainless Broadcasting, L.P. (“*Stainless*”) is the licensee of digital television station WICZ-TV, Channel 8, Facility ID 62210, Binghamton, NY. *Stainless* herein proposes construction of the WICZ-TV post-auction facility on Channel 7. Reassignment of WICZ-TV from Channel 8 to Channel 7 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (“*CCRPN*”, DA 17-317, released April 13, 2017).

The proposed Channel 7 operation will employ the existing broadband antenna system utilized by the licensed WICZ-TV facility. The antenna is situated on a tower structure which corresponds to FCC Antenna Structure Registration number 1065310. No change to the overall structure height will result.

The antenna is a horizontally polarized directional Kathrein model K5234517 4x2. *Stainless* proposes to operate WICZ-TV with an effective radiated power (“ERP”) of 8.7 kW at 370 meters antenna height above average terrain (“HAAT”). The directional antenna’s azimuthal pattern is supplied in Figure 1 and the elevation pattern is depicted in Figure 2.

A map is supplied as Figure 3 which depicts the standard predicted coverage contours. This map includes the location of Binghamton, WICZ-TV’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1) as the entire principal community will be encompassed by the 43 dB μ contour.

Along some azimuths the proposed noise limited service contour (“NLSC”) extends slightly beyond that of the *CCRPN* parameters of 7.9 kW ERP and 371 meters HAAT.¹ The proposal complies with §73.3700(b)(ii) as described in the following.

The *CCRPN* facility specifies the directional antenna pattern corresponding to WICZ-TV’s licensed Channel 8. The antenna’s actual pattern on the reassignment Channel 7 varies from the Channel 8 pattern due to the change in frequency. Pursuant to §73.3700(b)(ii)(A), the proposal results in a slightly larger coverage contour in some directions in order reduce the amount of loss from the *CCRPN* coverage contour.

Interference study per FCC OET Bulletin 69² shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassignments as required by §73.616. The interference study output report is provided as Table 1. This satisfies §73.3700(b)(ii)(C) for the proposed NLSC extension.

The amount of NLSC extension does not exceed one percent in any direction. Figure 4 supplies a coverage contour comparison of the proposed WICZ-TV facility to the reassignment facility’s contour and a one percent extension distance of the reassignment facility’s contour. Table 1’s results also demonstrate that the proposed contour is within the baseline contour plus one percent. Therefore the proposed contour extension complies with §73.3700(b)(ii)(B).

The proposed WICZ-TV facility’s terrain-limited population provides a 98.7 percent match of the *CCRPN* baseline facility, as detailed in the following table. The OET Bulletin 69

¹There is no change in antenna height above ground or above mean sea level. The proposed WICZ-TV antenna HAAT is recalculated to be 369.8 meters, based on FCC 30 meter terrain data developed by OET.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). This analysis employed the FCC’s current “TVStudy” software with the default application processing template settings, 2 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC’s implementation of TVStudy show excellent correlation.

report summary in Table 1 also concludes that the proposed service area population is more than 95 percent of the baseline population.

Terrain Limited Population - Match of Reassignment

Population Summary (2010 Census) OET Bulletin 69: TVStudy	Reassignment Parameters	Proposed
Within Noise Limited Contour	976,536	938,620
Not affected by terrain losses	785,640	775,612
Match of Reassignment	---	98.72%

The site location is within the Canadian coordination zone (189 km to the Canada border). According to “TVStudy” analysis including non-US records from current FCC LMS data, no Canadian station would receive any interference from the proposed WICZ-TV facility. For that reason, and compliance with the one percent contour extension limit, further international coordination should not be necessary beyond that which established *CCRPN* parameters.³

Directional AM station WNBF (Fac ID 72372, 1290 kHz, Binghamton, NT) is located 0.8 km from the WICZ-TV site. The WICZ-TV tower structure is not base insulated or detuned at an AM frequency and the proposal will not result in a change in overall tower height. Further, the proposal does not involve any tower or antenna work. Thus, pursuant to §1.30002(d), construction of the proposed WICZ-TV facility is not considered to be a significant modification with respect to possible pattern distortion to WNBF, and *Stainless* is not required notify WNBF or install detuning apparatus to the existing tower.

The nearest FCC monitoring station is 145 km distant at Canandaigua, NY. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with “quiet” zones specified in §73.1030(a) and (b).

³See “*Incentive Auction Task Force and Media Bureau Announce Procedures for the Post-Incentive Auction Broadcast Transition*,” Public Notice, DA 17-106, released January 27, 2017, at para 38. “Applications in the U.S.-Canada border zone may not require additional coordination if they do not expand the noise-limited contour by more than one percent in any direction beyond that predicted by the technical parameters listed in the *Closing and Reassignment Public Notice*, provided that the proposed facilities would not cause more than 0.5 percent new station-to-station interference to Canadian assignments or allotments.”

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 25 percent antenna relative field in downward elevations (pattern data shows less than 25 percent relative field at angles 15 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $0.26 \mu\text{W}/\text{cm}^2$, which is 0.1 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No tower or antenna work is required to carry out this proposal.

List of Attachments

Figure 1	Antenna Azimuthal Pattern
Figure 2	Antenna Elevation Pattern
Figure 3	Proposed Coverage Contours
Figure 4	Proposed Contour Expansion
Table 1	OET Bulletin 69 Interference Study
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E.	June 29, 2017	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600

**Azimuth Pattern - Relative Field
(True North)**

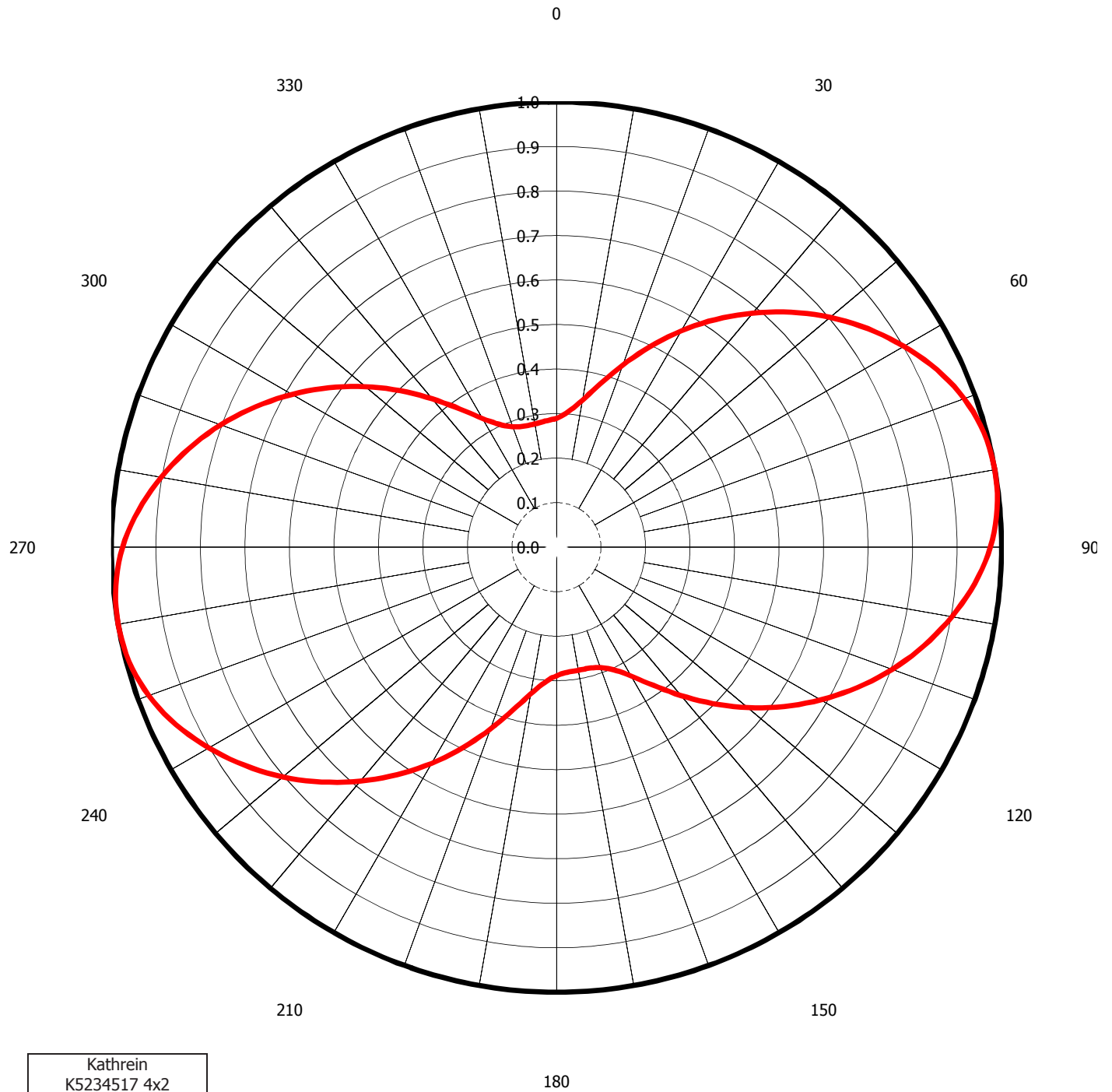
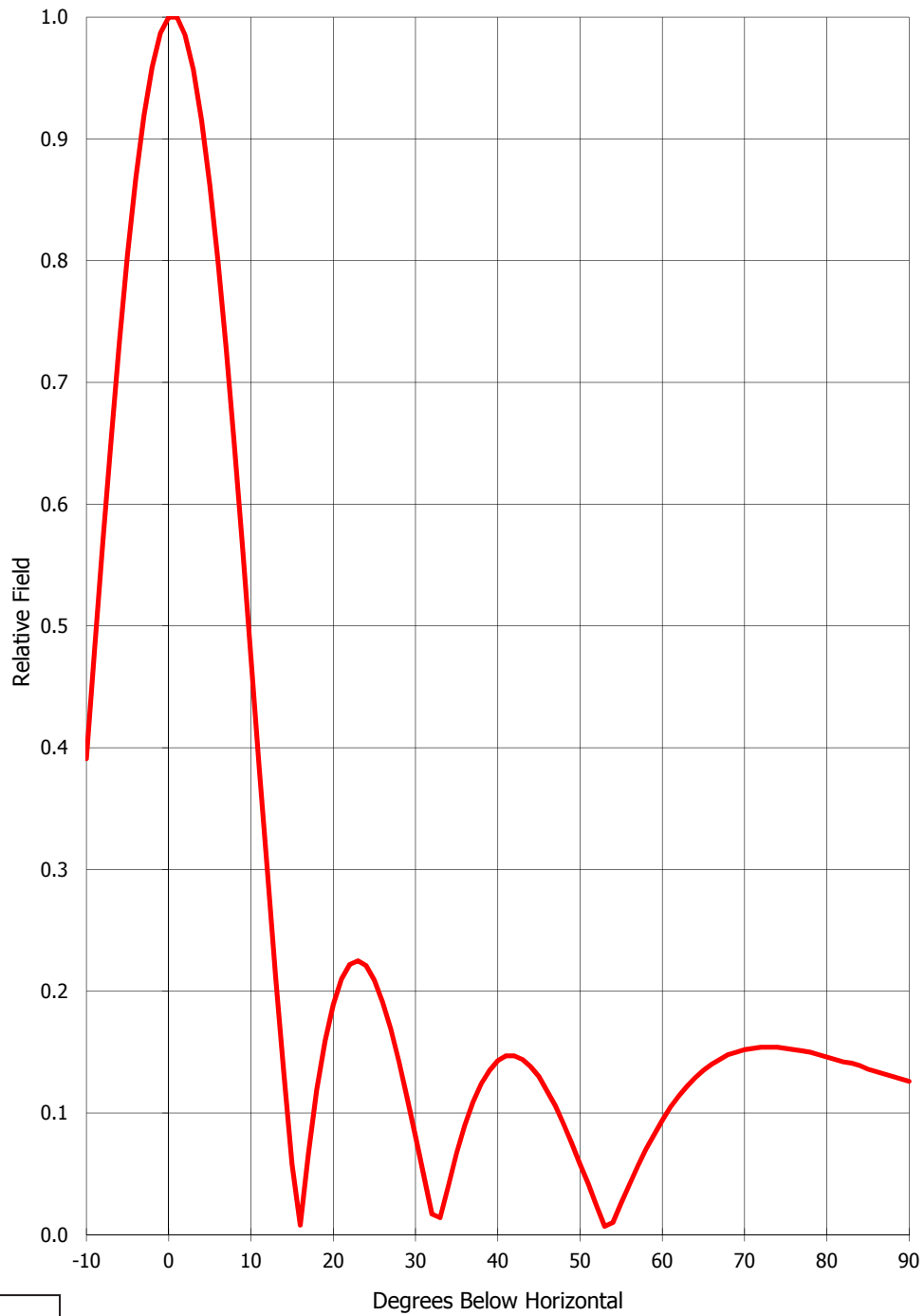


Figure 1
Antenna Azimuthal Pattern
WICZ-TV Binghamton, NY
Facility ID 62210
Ch. 7 8.7 kW 370 m

prepared for
Stainless Broadcasting, L.P.

June, 2017

Antenna Elevation Pattern



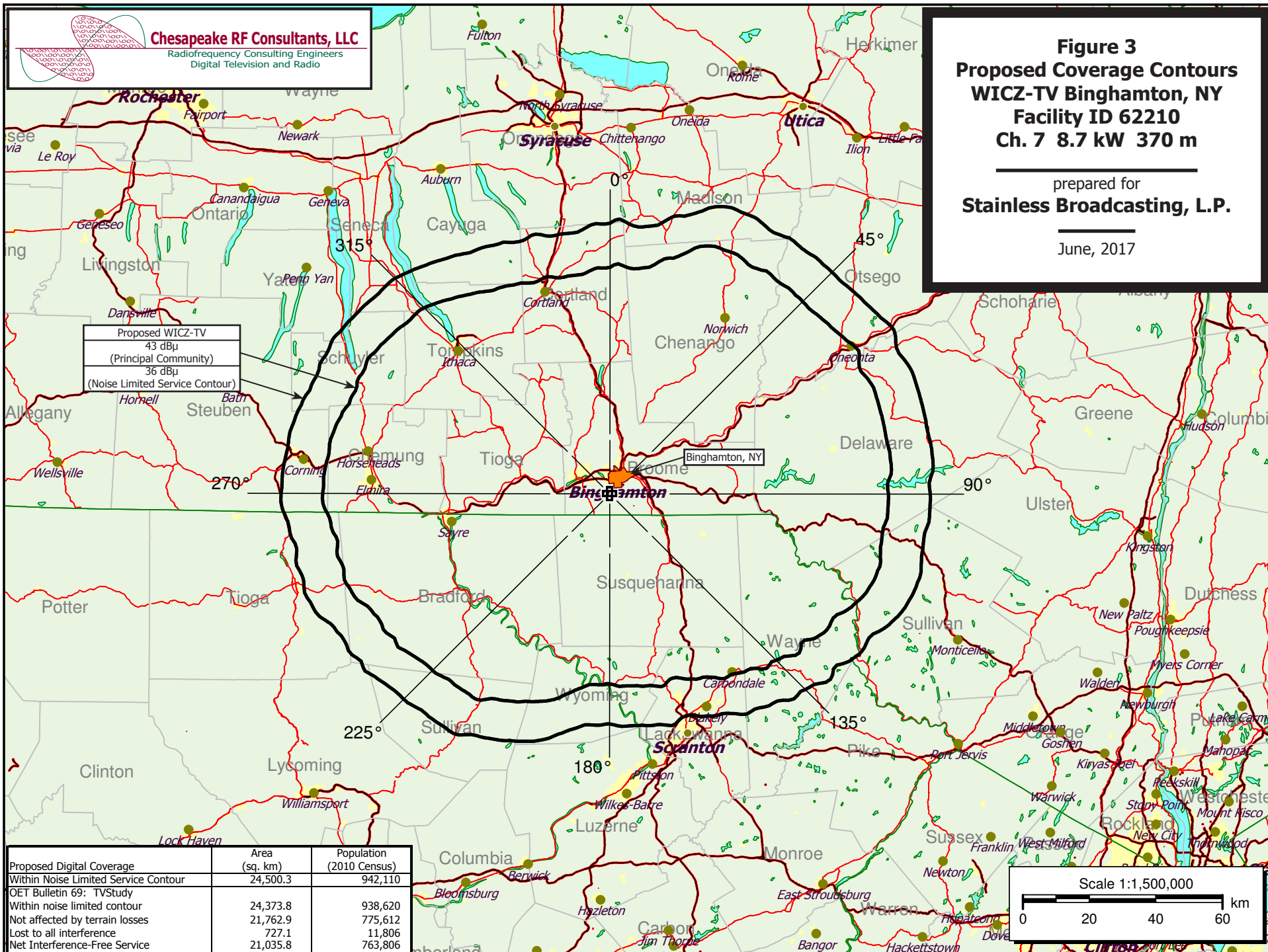
Kathrein
K5234517 4x2
0.5° Beamtilt



Figure 2
Antenna Elevation Pattern
WICZ-TV Binghamton, NY
Facility ID 62210
Ch. 7 8.7 kW 370 m

prepared for
Stainless Broadcasting, L.P.

June, 2017





Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 4
Proposed Contour Expansion
WICZ-TV Binghamton, NY
Facility ID 62210
Ch. 7 8.7 kW 370 m

prepared for
Stainless Broadcasting, L.P.

June, 2017

WICZ-TV Reassignment
7.9 kW 371 m HAAT
36 dBu Contour
(Red - Solid)
36 dBu Distance plus 1%
(Red - Dashed)

Proposed WICZ-TV
36 dBu Contour
(Blue - Solid)

Contours plotted per FCC TVStudy
method utilizing 8 radials for HAAT

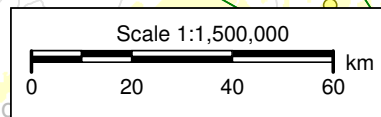


Table 1 WICZ-TV OET Bulletin 69 Interference Study
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tvstudy v2.2.2

Database: localhost, Study: WICZ-TV 8.70KW_PROP, Model: Longley-Rice
Start: 2017.06.29 19:29:46

Study created: 2017.06.29 19:29:41

Study build station data: LMS TV 2017-06-28 LMSTV

Proposal: WICZ-TV D7 DT APP BINGHAMTON, NY
File number: WICZ-TV 8.70KW_PROP
Facility ID: 62210
Station data: User record
Record ID: 689
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDT20110706ABC	358.3 km
WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	172.6
WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDT20121031ABC	218.6
WABC-TV	D7	DT	CP	NEW YORK, NY	BMPCDT20080620AMV	219.6
WBBZ-TV	D7	DT	LIC	SPRINGVILLE, NY	BLCDT20100525AEW	235.4
WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	385.7
WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	373.3
WTRF-TV	D7	DT	LIC	WHEELING, WV	BLCDT20090227ABV	459.8
WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLCDT20110427ABF	199.7
WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	171.0
WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	0.7
WWNY-TV	D8	DT	CP	CARTHAGE, NY	BLANK0000024680	211.7
WWNY-TV	D8	DT	BL	CARTHAGE, NY	DTVBL68851	211.7
WGAL	D8	DT	APP	LANCASTER, PA	BPCDT20110516ACI	231.7
WGAL	D8	DT	LIC	LANCASTER, PA	BLCDT20110323ABF	231.7

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WNBF 1290 L DAN D BINGHAMTON, NY BL19991018AAO
WNBF 1290 L DAN N BINGHAMTON, NY BL19991018AAO

Record parameters as studied:

Channel: D7
Latitude: 42 3 22.00 N (NAD83)
Longitude: 75 56 38.00 W
Height AMSL: 765.3 m
HAAT: 369.8 m
Peak ERP: 8.70 kW
Antenna: KAT K52-34-517 4x2 Ch-7 20170626 0.0 deg

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.727 kW	429.5 m	81.2 km
45.0	4.82	404.4	94.1
90.0	8.27	370.6	96.1
135.0	2.16	333.7	83.1
180.0	0.727	244.6	69.2
225.0	4.82	308.2	87.4
270.0	8.27	408.4	98.6
315.0	2.16	458.5	91.1

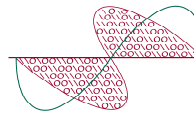
Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

**Proposal is within coordination distance of Canadian border
Distance to Canadian border: 188.4 km

Distance to Mexican border: 2619.1 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 311.8 degrees Distance: 144.3 km
ERP: 2.52 kW Field strength: 11.8 dBu, 0.0 mV/m

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Digital Television and Radio

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 274.9 degrees Distance: 2449.5 km

Study cell size: 2.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLCDT20110706ABC LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 2
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 3
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 4
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 5
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 6
Proposal causes no interference.

Interference to BLCDT20110706ABC LIC, scenario 7
Proposal causes no interference.

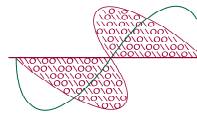
Interference to BLCDT20110706ABC LIC, scenario 8
Proposal causes no interference.

Interference to DTVBL136751 BL, scenario 1

Desired:	Call WNYA	Chan D7	Svc DT	Status BL	City, State PITTSFIELD, MA	File Number DTVBL136751	Distance			
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	172.6 km			
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW PROP	172.6			
	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDT20121031ABC	209.9			
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	238.7			
	WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	230.4			
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	1.8			
	WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	173.0			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
26390.2	1,540,430	22562.8	1,420,142	20954.0	1,381,743	20941.9	1,381,500	0.06	0.02	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WICZ-TV	D7	DT	BL	240.3	2,610	96.2	1,287			
WICZ-TV	D7	DT	APP	264.3	2,881			108.3	1,530	
WABC-TV	D7	DT	LIC	499.7	13,676	235.9	8,322	231.9	8,322	
WPRI-TV	D7	DT	BL	456.2	6,048	248.0	2,631	248.0	2,631	
WVNY	D7	DT	BL	573.0	14,172	397.3	10,624	389.3	10,596	
WXXA-TV	D8	DT	BL	307.5	10,819	259.5	9,251	259.5	9,251	

Interference to DTVBL136751 BL, scenario 2

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Radiofrequency Consulting Engineers
Digital Television and Radio

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	172.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	172.6
	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDT20121031ABC	209.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	238.7
	WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	230.4
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	1.8
	WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	173.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26390.2	1,540,430	22562.8	1,420,142	20954.0	1,381,743	20941.9 1,381,500	0.06 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
WICZ-TV D7 DT BL	240.3 2,610	96.2 1,287	
WICZ-TV D7 DT APP	264.3 2,881		108.3 1,530
WABC-TV D7 DT LIC	499.7 13,676	235.9 8,322	231.9 8,322
WPRI-TV D7 DT BL	456.2 6,048	248.0 2,631	248.0 2,631
WVNY D7 DT BL	573.0 14,172	397.3 10,624	389.3 10,596
WXXA-TV D8 DT BL	307.5 10,819	259.5 9,251	259.5 9,251

Interference to DTVBL136751 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	172.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	172.6
	WABC-TV	D7	DT	CP	NEW YORK, NY	BMPCDT20080620AMV	213.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	238.7
	WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	230.4
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	1.8
	WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	173.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26390.2	1,540,430	22562.8	1,420,142	20957.9	1,383,383	20949.9 1,383,320	0.04 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WICZ-TV D7 DT BL	240.3 2,610	104.2 1,380	
WICZ-TV D7 DT APP	264.3 2,881		112.3 1,443
WABC-TV D7 DT CP	459.9 11,115	231.9 6,682	223.9 6,502
WPRI-TV D7 DT BL	456.2 6,048	260.1 2,737	260.1 2,737
WVNY D7 DT BL	573.0 14,172	401.2 11,352	397.3 11,346
WXXA-TV D8 DT BL	307.5 10,819	259.5 8,999	259.5 8,999

Interference to DTVBL136751 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	172.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	172.6
	WABC-TV	D7	DT	CP	NEW YORK, NY	BMPCDT20080620AMV	213.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	238.7
	WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	230.4
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	1.8
	WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	173.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26390.2	1,540,430	22562.8	1,420,142	20957.9	1,383,383	20949.9 1,383,320	0.04 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WICZ-TV D7 DT BL	240.3 2,610	104.2 1,380	
WICZ-TV D7 DT APP	264.3 2,881		112.3 1,443
WABC-TV D7 DT CP	459.9 11,115	231.9 6,682	223.9 6,502
WPRI-TV D7 DT BL	456.2 6,048	260.1 2,737	260.1 2,737
WVNY D7 DT BL	573.0 14,172	401.2 11,352	397.3 11,346
WXXA-TV D8 DT BL	307.5 10,819	259.5 8,999	259.5 8,999

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Interference to BLCDDT20121031ABC LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDDT20121031ABC	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	218.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	218.6
	WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDDT20110706ABC	331.1
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	209.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	258.2
	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLEDT20110427ABF	45.9
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	208.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
38337.9 22,032,680		35828.6 21,405,046		34631.4 21,130,476		34631.4 21,130,476	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WICZ-TV D7 DT BL		52.5 5,610		44.4 2,942			
WICZ-TV D7 DT APP		52.5 5,610				44.4 2,942	
WJLA-TV D7 DT LIC		277.5 69,157		253.4 63,865		253.4 63,865	
WNYA D7 DT BL		282.3 48,350		242.0 40,475		242.0 40,475	
WPRI-TV D7 DT BL		260.8 71,316		224.5 65,189		224.5 65,189	
WNJB D8 DT LIC		392.5 94,224		368.4 88,932		368.4 88,932	

Interference to BLCDDT20121031ABC LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDDT20121031ABC	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	218.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	218.6
	WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDDT20110706ABC	331.1
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	209.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	258.2
	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLEDT20110427ABF	45.9
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	208.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
38337.9 22,032,680		35828.6 21,405,046		34631.4 21,130,476		34631.4 21,130,476	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WICZ-TV D7 DT BL		52.5 5,610		44.4 2,942			
WICZ-TV D7 DT APP		52.5 5,610				44.4 2,942	
WJLA-TV D7 DT LIC		277.5 69,157		253.4 63,865		253.4 63,865	
WNYA D7 DT BL		282.3 48,350		242.0 40,475		242.0 40,475	
WPRI-TV D7 DT BL		260.8 71,316		224.5 65,189		224.5 65,189	
WNJB D8 DT LIC		392.5 94,224		368.4 88,932		368.4 88,932	

Interference to BMPDDT20080620AMV CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WABC-TV	D7	DT	CP	NEW YORK, NY	BMPDDT20080620AMV	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	219.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	219.6
	WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDDT20110706ABC	326.9
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	213.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	262.2
	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLEDT20110427ABF	42.6
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	212.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
43773.9 23,294,392		40878.3 22,582,663		39723.9 22,196,315		39719.9 22,196,308	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WICZ-TV D7 DT BL		92.8 3,752		72.7 1,894			
WICZ-TV D7 DT APP		96.9 3,759				76.7 1,901	
WJLA-TV D7 DT LIC		450.2 200,326		438.1 199,647		438.1 199,647	
WNYA D7 DT BL		394.9 81,768		286.3 68,755		286.3 68,755	
WPRI-TV D7 DT BL		221.0 82,187		136.6 71,034		136.6 71,034	
WNJB D8 DT LIC		112.1 32,005		104.0 31,328		104.0 31,328	

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Interference to BMPCDT20080620AMV CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WABC-TV	D7	DT	CP	NEW YORK, NY	BMPCDT20080620AMV	
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	219.6 km
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	219.6
	WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDT20110706ABC	326.9
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	213.9
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	262.2
	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLEDT20110427ABF	42.6
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	212.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
43773.9 23,294,392		40878.3 22,582,663		39723.9 22,196,315		39719.9 22,196,308	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WICZ-TV D7 DT BL		92.8 3,752		72.7 1,894			
WICZ-TV D7 DT APP		96.9 3,759				76.7 1,901	
WJLA-TV D7 DT LIC		450.2 200,326		438.1 199,647		438.1 199,647	
WNYA D7 DT BL		394.9 81,768		286.3 68,755		286.3 68,755	
WPRI-TV D7 DT BL		221.0 82,187		136.6 71,034		136.6 71,034	
WNJB D8 DT LIC		112.1 32,005		104.0 31,328		104.0 31,328	

Interference to BLCDT20100525AEW LIC, scenario 1

Desired:	Call WBBZ-TV	Chan D7	Svc DT	Status LIC	City, State SPRINGVILLE, NY	File Number BLCDT20100525AEW	Distance		
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	235.4 km		
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	235.4		
	WTRF-TV	D7	DT	LIC	WHEELING, WV	BLCDT20090227ABV	326.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
9380.2	1,269,256	8916.6	1,260,686	8900.6	1,260,354	8896.6	1,260,158	0.04	0.02
2482.3	383,331	2466.4	377,574	2466.4	377,574	2466.4	377,574	0.00	0.00
(in Canada)									
Undesired				Total IX		Unique IX, before		Unique IX, after	
WICZ-TV	D7	DT	BL	12.0	279	12.0	279		
WICZ-TV	D7	DT	APP	16.0	475			16.0	475
WTRF-TV	D7	DT	LIC	4.0	53	4.0	53	4.0	53

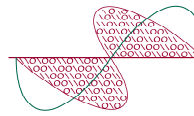
Interference to BLCDT20100525AEW LIC, scenario 2

Desired:	Call WBBZ-TV	Chan D7	Svc DT	Status LIC	City, State SPRINGVILLE, NY	File Number BLCDT20100525AEW	Distance		
Undesireds:	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	235.4 km		
	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	235.4		
	WTRF-TV	D7	DT	LIC	WHEELING, WV	BLCDT20090227ABV	326.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
9380.2	1,269,256	8916.6	1,260,686	8900.6	1,260,354	8896.6	1,260,158	0.04	0.02
2482.3	383,331	2466.4	377,574	2466.4	377,574	2466.4	377,574	0.00	0.00
(in Canada)									
Undesired				Total IX	Unique IX, before		Unique IX, after		
WICZ-TV	D7	DT	BL	12.0	279	12.0	279		
WICZ-TV	D7	DT	APP	16.0	475		16.0	475	
WTRF-TV	D7	DT	LIC	4.0	53	4.0	53	4.0	53

Interference to DTVBL47404 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL47404 BL, scenario 2
Proposal causes no interference.

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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Interference to DTVBL11259 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL11259 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL11259 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL11259 BL, scenario 4
Proposal causes no interference.

Interference to BLCDT20090227ABV LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 2
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 3
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 4
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 5
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 6
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 7
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 8
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 9
Proposal causes no interference.

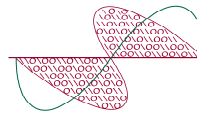
Interference to BLEDT20110427ABF LIC, scenario 10
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 11
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 12
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 13
Proposal causes no interference.

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Interference to BLEDT20110427ABF LIC, scenario 14
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 15
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 16
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 17
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 18
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 19
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 20
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 21
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 22
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 23
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 24
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 25
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 26
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 27
Proposal causes no interference.

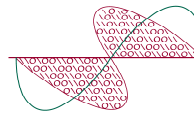
Interference to BLEDT20110427ABF LIC, scenario 28
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 29
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 30
Proposal causes no interference.

Interference to BLEDT20110427ABF LIC, scenario 31
Proposal causes no interference.

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Interference to BLEDT20110427ABF LIC, scenario 32
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 9
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 14
Proposal causes no interference.

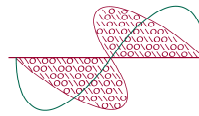
Interference to DTVBL11970 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL11970 BL, scenario 16
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 2

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 9
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL23337 BL, scenario 16
Proposal causes no interference.

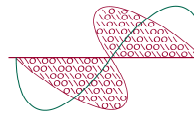
Interference to BLANK0000024680 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000024680 CP, scenario 2
Proposal causes no interference.

Interference to DTVBL68851 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL68851 BL, scenario 2
Proposal causes no interference.

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Interference to BPCDT20110516ACI APP, scenario 1
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 2
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 3
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 4
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 5
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 6
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 7
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 8
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 9
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 10
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 11
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 12
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 13
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 14
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 15
Proposal causes no interference.

Interference to BPCDT20110516ACI APP, scenario 16
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 2
Proposal causes no interference.

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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Interference to BLCDT20110323ABF LIC, scenario 3
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 4
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 5
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 6
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 7
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 8
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 9
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 10
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 11
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 12
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 13
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 14
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 15
Proposal causes no interference.

Interference to BLCDT20110323ABF LIC, scenario 16
Proposal causes no interference.

Interference to proposal, scenario 1
1.52% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WICZ-TV	D7	DT	APP	BINGHAMTON, NY	WICZ-TV 8.70KW_PROP	
Undesireds:	WJLA-TV	D7	DT	LIC	WASHINGTON, DC	BLCDT20110706ABC	358.3 km
	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	172.6
	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDT20121031ABC	218.6
	WBBZ-TV	D7	DT	LIC	SPRINGVILLE, NY	BLCDT20100525AEW	235.4
	WPRI-TV	D7	DT	BL	PROVIDENCE, RI	DTVBL47404	385.7
	WVNY	D7	DT	BL	BURLINGTON, VT	DTVBL11259	373.3
	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	171.0
	WBNG-TV	D8	DT	BL	BINGHAMTON, NY	DTVBL23337	0.7

Service area

Terrain-limited

IX-free

Percent IX

Table 1 WICZ-TV OET Bulletin 69 Interference Study
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24373.8	938,620	21762.9	775,612	21035.8	763,806	3.34	1.52
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WJLA-TV D7 DT LIC	16.1	20	0.0	0	0.00	0.00	
WNYA D7 DT BL	172.6	2,300	108.2	1,637	0.50	0.21	
WABC-TV D7 DT LIC	394.1	7,220	313.6	6,392	1.44	0.82	
WVNY D7 DT BL	4.0	49	0.0	0	0.00	0.00	
WBNG-TV D8 DT BL	248.8	3,177	212.7	2,847	0.98	0.37	

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	62210
	State	New York
	City	BINGHAMTON
	DTV Channel	7
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1065310
Coordinates (NAD83)	Latitude	42° 03' 22.0" N+
	Longitude	075° 56' 38.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	284.6 meters
	Support Structure Height	265.4 meters
	Ground Elevation (AMSL)	495.3 meters
Antenna Data	Height of Radiation Center Above Ground Level	270 meters
	Height of Radiation Center Above Average Terrain	369.8 meters
	Height of Radiation Center Above Mean Sea Level	765.3 meters
	Effective Radiated Power	8.7 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	KAT
	Model	K5234517 4x2
	Rotation	0 degrees
	Electrical Beam Tilt	0.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)
0	0.289	90	0.975	180	0.289	270	0.975
10	0.335	100	0.902	190	0.335	280	0.902
20	0.435	110	0.803	200	0.435	290	0.803
30	0.561	120	0.686	210	0.561	300	0.686
40	0.686	130	0.561	220	0.686	310	0.561
50	0.803	140	0.435	230	0.803	320	0.435
60	0.902	150	0.334	240	0.902	330	0.334
70	0.975	160	0.288	250	0.975	340	0.288
80	1.000	170	0.281	260	1.000	350	0.281

Additional Azimuths

Degree	V _A
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Construction
Permit
Certifications

Section	Question	Response
Post-Incentive Auction Expedited Processing	It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.	Yes
	It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.	No
	It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.	Yes
	The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	Yes
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
Broadcast Facility	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C. F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes