



ENGINEERING EXHIBIT

Incentive Auction Channel Reassignment

Application for Digital Television Station Construction Permit

prepared for

Syracuse Broadcasting, Inc.

WNYS-TV Syracuse, NY
Facility ID 58725
Ch. 15 590 kW 393 m

Syracuse Broadcasting, Inc. (“*SBI*”) is the licensee of digital television station WNYS-TV, Channel 44, Facility ID 58725, Syracuse, NY. *SBI* herein proposes construction of the WNYS-TV post-auction facility on Channel 15. Reassignment of WNYS-TV from Channel 44 to Channel 15 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (“*CCRPN*”, DA 17-317, released April 13, 2017).

The proposed Channel 15 operation will employ a new antenna system to be side-mounted on the WNYS-TV tower. The tower structure corresponds to FCC Antenna Structure Registration number 1006348. No change to the overall structure height will result.

The proposed antenna is an elliptically polarized directional Dielectric model TFU-17JSC/VP-R C170 (30 percent vertical polarization). *SBI* proposes to operate WNYS-TV with an effective radiated power (“ERP”) of 590 kW at 393 meters antenna height above average terrain (“HAAT”). The maximum horizontally polarized ERP is 590 kW and the maximum vertically polarized ERP is 177 kW. The vertically polarized component will not exceed the horizontally polarized component at any azimuth. The directional antenna’s azimuthal patterns are depicted in Figures 1 and 1A for horizontal and vertical polarization, respectively. The antenna’s 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 Syracuse, WNYS-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 48 dB μ contour.

The proposed noise limited service contour (“NLSC”) extends beyond that of the *CCRPN* parameters of 366 kW ERP and 445 meters HAAT. The proposed antenna will be side-mounted on the tower at an elevation 50.4 meters lower than that specified in the *CCRPN*. Although directional operation is proposed with the exact pattern as specified for WNYS-TV in the *CCRPN*, the change in antenna height and an offsetting adjustment in ERP result in variations in NLSC locations due to non-uniform terrain. Thus, the proposed Channel 15 NLSC cannot precisely match the *CCRPN* NLSC and some contour extension is necessary to minimize loss of contour coverage area.

Therefore, WNYS-TV qualifies under §73.3700(b)(ii)(A) for a contour extension due to the contour variations brought about by the antenna height resulting from the new channel assignment. The proposal complies with §73.3700(b)(ii) as described in the following.

Interference study per FCC OET Bulletin 69¹ 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 reassessments 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 WNYS-TV facility to the reassignment facility’s contour and a one percent extension distance of the reassignment facility’s contour. Here, the contour level is adjusted with the dipole factor to match FCC application processing.

¹FCC 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 FCCs implementation of TVStudy show excellent correlation.

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 WNYS-TV facility's terrain-limited population provides a 100.1 percent match of the CCRPN baseline facility, as detailed in the following table. The OET Bulletin 69 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	1,690,696	1,694,353
Not affected by terrain losses	1,461,300	1,462,280
Match of Reassignment	---	100.07%

The site location is within the Canadian coordination zone (97 km to the Canada border). According to "TVStudy" analysis including non-US records from current FCC LMS data, no Canadian station would receive any new interference in excess of 0.5 percent within Canada from the proposed WNYS-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.²

The nearest FCC monitoring station is 87 km distant at Canandaigua, NY. This exceeds 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). There are no authorized AM stations within 3 kilometers of the site.

²See "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 Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 15 percent antenna relative field in downward elevations (pattern data shows relative field does not exceed 15 percent 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 $9.2 \mu\text{W}/\text{cm}^2$, which is 2.9 percent of the general population/uncontrolled maximum permitted exposure limit ("MPE"). This is 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.

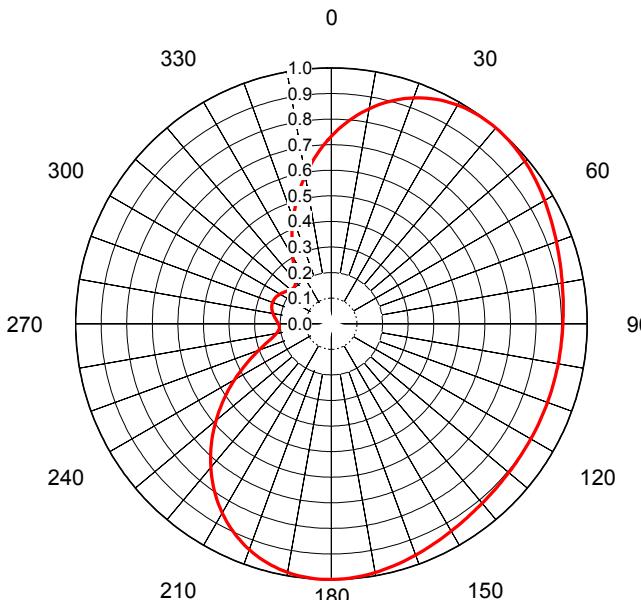
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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 increase in structure height is proposed.

List of Attachments

- Figure 1, 1A 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. July 2, 2017
207 Old Dominion Road Yorktown, VA 23692 703-650-9600



AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. C-70582-1
 Date 29-Jun-17
 Call Letters WNYS
 Channel 15
 Frequency 479 MHz
 Antenna Type TFU-17JSC/VP-R C170
 Gain 1.7 (2.31dB)
 Calculated

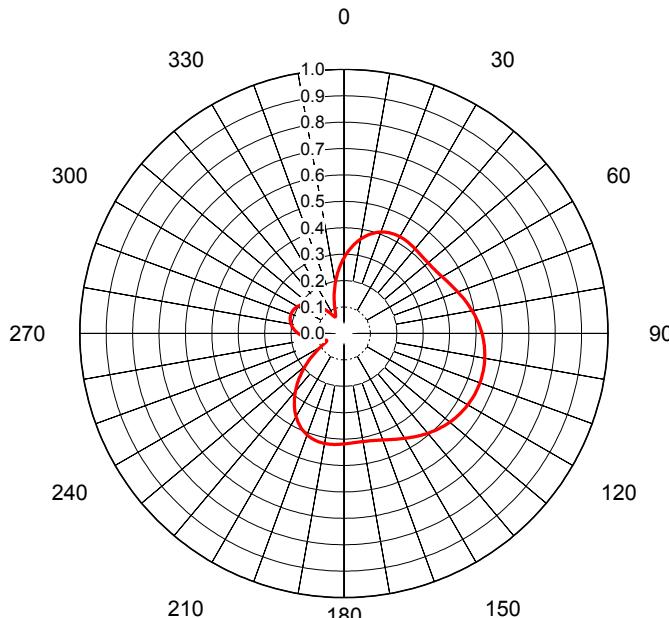
Deg	Value																		
0	0.733	36	0.998	72	0.932	108	0.899	144	0.924	180	1.000	216	0.785	252	0.280	288	0.244	324	0.243
1	0.747	37	0.999	73	0.930	109	0.899	145	0.926	181	1.000	217	0.773	253	0.269	289	0.244	325	0.251
2	0.760	38	1.000	74	0.928	110	0.899	146	0.928	182	1.000	218	0.760	254	0.260	290	0.245	326	0.260
3	0.773	39	1.000	75	0.926	111	0.899	147	0.930	183	0.999	219	0.747	255	0.251	291	0.244	327	0.269
4	0.785	40	1.000	76	0.924	112	0.899	148	0.932	184	0.998	220	0.733	256	0.243	292	0.244	328	0.280
5	0.797	41	1.000	77	0.922	113	0.899	149	0.934	185	0.997	221	0.720	257	0.235	293	0.243	329	0.290
6	0.809	42	0.999	78	0.920	114	0.899	150	0.936	186	0.996	222	0.706	258	0.229	294	0.242	330	0.302
7	0.821	43	0.998	79	0.918	115	0.900	151	0.939	187	0.994	223	0.692	259	0.223	295	0.241	331	0.313
8	0.832	44	0.997	80	0.917	116	0.900	152	0.941	188	0.992	224	0.677	260	0.218	296	0.240	332	0.326
9	0.843	45	0.996	81	0.915	117	0.900	153	0.944	189	0.990	225	0.663	261	0.214	297	0.238	333	0.338
10	0.854	46	0.995	82	0.914	118	0.900	154	0.946	190	0.987	226	0.648	262	0.210	298	0.236	334	0.352
11	0.864	47	0.993	83	0.912	119	0.900	155	0.949	191	0.984	227	0.634	263	0.207	299	0.234	335	0.365
12	0.874	48	0.992	84	0.911	120	0.900	156	0.952	192	0.981	228	0.619	264	0.206	300	0.232	336	0.379
13	0.883	49	0.990	85	0.910	121	0.901	157	0.954	193	0.977	229	0.604	265	0.204	301	0.229	337	0.393
14	0.893	50	0.988	86	0.909	122	0.901	158	0.957	194	0.973	230	0.588	266	0.204	302	0.227	338	0.407
15	0.901	51	0.986	87	0.908	123	0.901	159	0.960	195	0.968	231	0.573	267	0.204	303	0.224	339	0.422
16	0.910	52	0.983	88	0.907	124	0.902	160	0.963	196	0.963	232	0.558	268	0.205	304	0.222	340	0.437
17	0.918	53	0.981	89	0.906	125	0.902	161	0.965	197	0.958	233	0.543	269	0.206	305	0.219	341	0.451
18	0.925	54	0.978	90	0.905	126	0.903	162	0.968	198	0.952	234	0.527	270	0.207	306	0.216	342	0.466
19	0.933	55	0.976	91	0.905	127	0.903	163	0.971	199	0.946	235	0.512	271	0.209	307	0.214	343	0.482
20	0.940	56	0.973	92	0.904	128	0.904	164	0.973	200	0.940	236	0.497	272	0.211	308	0.211	344	0.497
21	0.946	57	0.971	93	0.903	129	0.905	165	0.976	201	0.933	237	0.482	273	0.214	309	0.209	345	0.512
22	0.952	58	0.968	94	0.903	130	0.905	166	0.978	202	0.925	238	0.466	274	0.216	310	0.207	346	0.527
23	0.958	59	0.965	95	0.902	131	0.906	167	0.981	203	0.918	239	0.451	275	0.219	311	0.206	347	0.543
24	0.963	60	0.963	96	0.902	132	0.907	168	0.983	204	0.910	240	0.437	276	0.222	312	0.205	348	0.558
25	0.968	61	0.960	97	0.901	133	0.908	169	0.986	205	0.901	241	0.422	277	0.224	313	0.204	349	0.573
26	0.973	62	0.957	98	0.901	134	0.909	170	0.988	206	0.893	242	0.407	278	0.227	314	0.204	350	0.588
27	0.977	63	0.954	99	0.901	135	0.910	171	0.990	207	0.883	243	0.393	279	0.229	315	0.204	351	0.604
28	0.981	64	0.952	100	0.900	136	0.911	172	0.992	208	0.874	244	0.379	280	0.232	316	0.206	352	0.619
29	0.984	65	0.949	101	0.900	137	0.912	173	0.993	209	0.864	245	0.365	281	0.234	317	0.207	353	0.634
30	0.987	66	0.946	102	0.900	138	0.914	174	0.995	210	0.854	246	0.352	282	0.236	318	0.210	354	0.648
31	0.990	67	0.944	103	0.900	139	0.915	175	0.996	211	0.843	247	0.338	283	0.238	319	0.214	355	0.663
32	0.992	68	0.941	104	0.900	140	0.917	176	0.997	212	0.832	248	0.326	284	0.240	320	0.218	356	0.677
33	0.994	69	0.939	105	0.900	141	0.918	177	0.998	213	0.821	249	0.313	285	0.241	321	0.223	357	0.692
34	0.996	70	0.936	106	0.899	142	0.920	178	0.999	214	0.809	250	0.302	286	0.242	322	0.229	358	0.706
35	0.997	71	0.934	107	0.899	143	0.922	179	1.000	215	0.797	251	0.290	287	0.243	323	0.235	359	0.720

Figure 1
Antenna Azimuthal Pattern
Horizontal Polarization
WNYS-TV Syracuse, NY
Facility ID 58725
Ch. 15 590 kW 393 m

prepared for
Syracuse Broadcasting, Inc.

July, 2017





AZIMUTH PATTERN Vertical Polarization

In Free Space

Proposal No. C-70582-1
 Date 29-Jun-17
 Call Letters WNYS
 Channel 15
 Frequency 479 MHz
 Antenna Type TFU-17JSC/VP-R C170
 Gain 2.23 (3.48dB)
 Calculated

Deg	Value																		
0	0.286	36	0.421	72	0.466	108	0.547	144	0.480	180	0.419	216	0.320	252	0.082	288	0.213	324	0.102
1	0.294	37	0.421	73	0.469	109	0.548	145	0.476	181	0.419	217	0.311	253	0.086	289	0.213	325	0.097
2	0.303	38	0.420	74	0.473	110	0.548	146	0.473	182	0.420	218	0.303	254	0.091	290	0.213	326	0.091
3	0.311	39	0.419	75	0.476	111	0.548	147	0.469	183	0.421	219	0.294	255	0.097	291	0.213	327	0.086
4	0.320	40	0.419	76	0.480	112	0.547	148	0.466	184	0.421	220	0.286	256	0.102	292	0.213	328	0.082
5	0.327	41	0.418	77	0.483	113	0.547	149	0.462	185	0.422	221	0.277	257	0.108	293	0.212	329	0.078
6	0.335	42	0.417	78	0.487	114	0.547	150	0.459	186	0.422	222	0.268	258	0.113	294	0.212	330	0.074
7	0.342	43	0.417	79	0.490	115	0.546	151	0.455	187	0.423	223	0.258	259	0.119	295	0.211	331	0.072
8	0.349	44	0.416	80	0.493	116	0.545	152	0.452	188	0.423	224	0.249	260	0.125	296	0.210	332	0.070
9	0.356	45	0.416	81	0.497	117	0.545	153	0.449	189	0.423	225	0.239	261	0.130	297	0.208	333	0.071
10	0.363	46	0.415	82	0.500	118	0.544	154	0.446	190	0.423	226	0.230	262	0.135	298	0.207	334	0.071
11	0.369	47	0.415	83	0.503	119	0.543	155	0.443	191	0.423	227	0.220	263	0.141	299	0.205	335	0.073
12	0.374	48	0.415	84	0.506	120	0.541	156	0.440	192	0.422	228	0.210	264	0.146	300	0.203	336	0.077
13	0.380	49	0.415	85	0.509	121	0.540	157	0.437	193	0.421	229	0.200	265	0.151	301	0.201	337	0.081
14	0.385	50	0.416	86	0.512	122	0.539	158	0.434	194	0.420	230	0.190	266	0.156	302	0.199	338	0.087
15	0.390	51	0.416	87	0.515	123	0.537	159	0.432	195	0.419	231	0.181	267	0.160	303	0.196	339	0.093
16	0.394	52	0.417	88	0.518	124	0.535	160	0.429	196	0.418	232	0.171	268	0.165	304	0.194	340	0.100
17	0.398	53	0.418	89	0.520	125	0.534	161	0.427	197	0.416	233	0.161	269	0.169	305	0.191	341	0.108
18	0.402	54	0.419	90	0.523	126	0.532	162	0.425	198	0.414	234	0.152	270	0.173	306	0.188	342	0.116
19	0.405	55	0.420	91	0.525	127	0.530	163	0.423	199	0.411	235	0.143	271	0.177	307	0.184	343	0.125
20	0.409	56	0.421	92	0.527	128	0.527	164	0.421	200	0.409	236	0.133	272	0.181	308	0.181	344	0.133
21	0.411	57	0.423	93	0.530	129	0.525	165	0.420	201	0.405	237	0.125	273	0.184	309	0.177	345	0.143
22	0.414	58	0.425	94	0.532	130	0.523	166	0.419	202	0.402	238	0.116	274	0.188	310	0.173	346	0.152
23	0.416	59	0.427	95	0.534	131	0.520	167	0.418	203	0.398	239	0.108	275	0.191	311	0.169	347	0.161
24	0.418	60	0.429	96	0.535	132	0.518	168	0.417	204	0.394	240	0.100	276	0.194	312	0.165	348	0.171
25	0.419	61	0.432	97	0.537	133	0.515	169	0.416	205	0.390	241	0.093	277	0.196	313	0.160	349	0.181
26	0.420	62	0.434	98	0.539	134	0.512	170	0.416	206	0.385	242	0.087	278	0.199	314	0.156	350	0.190
27	0.421	63	0.437	99	0.540	135	0.509	171	0.415	207	0.380	243	0.081	279	0.201	315	0.151	351	0.200
28	0.422	64	0.440	100	0.541	136	0.506	172	0.415	208	0.374	244	0.077	280	0.203	316	0.146	352	0.210
29	0.423	65	0.443	101	0.543	137	0.503	173	0.415	209	0.369	245	0.073	281	0.205	317	0.141	353	0.220
30	0.423	66	0.446	102	0.544	138	0.500	174	0.415	210	0.363	246	0.071	282	0.207	318	0.135	354	0.230
31	0.423	67	0.449	103	0.545	139	0.497	175	0.416	211	0.356	247	0.070	283	0.208	319	0.130	355	0.239
32	0.423	68	0.452	104	0.545	140	0.493	176	0.416	212	0.349	248	0.070	284	0.210	320	0.125	356	0.249
33	0.423	69	0.455	105	0.546	141	0.490	177	0.417	213	0.342	249	0.072	285	0.211	321	0.119	357	0.258
34	0.422	70	0.459	106	0.547	142	0.487	178	0.417	214	0.335	250	0.074	286	0.212	322	0.113	358	0.268
35	0.422	71	0.462	107	0.547	143	0.483	179	0.418	215	0.327	251	0.078	287	0.212	323	0.108	359	0.277

Figure 1A
Antenna Azimuthal Pattern
Vertical Polarization
WNYS-TV Syracuse, NY
Facility ID 58725
Ch. 15 590 kW 393 m

prepared for
Syracuse Broadcasting, Inc.

July, 2017



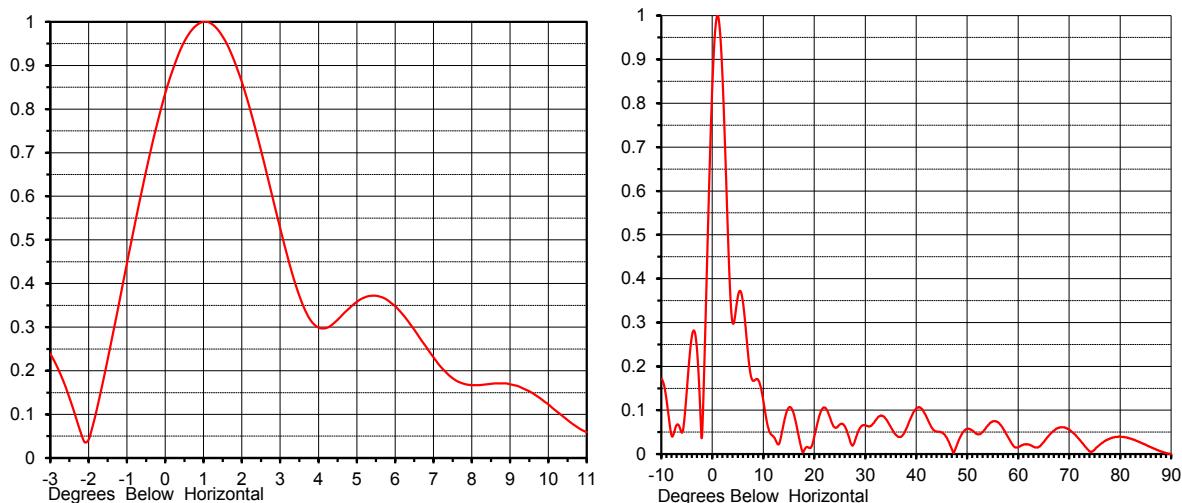
ELEVATION PATTERN

Proposal No. **C-70582-1**
 Date **29-Jun-17**
 Call Letters **WNYS**
 Channel **15**
 Frequency **479 MHz**
 Antenna Type **TFU-17JSC/VP-R C170**

RMS Directivity at Main Lobe
 RMS Directivity at Horizontal

16.4 (12.15 dB)
12.3 (10.90 dB)
 Calculated

Beam Tilt **1.00 deg**
 Pattern Number **17J164100**



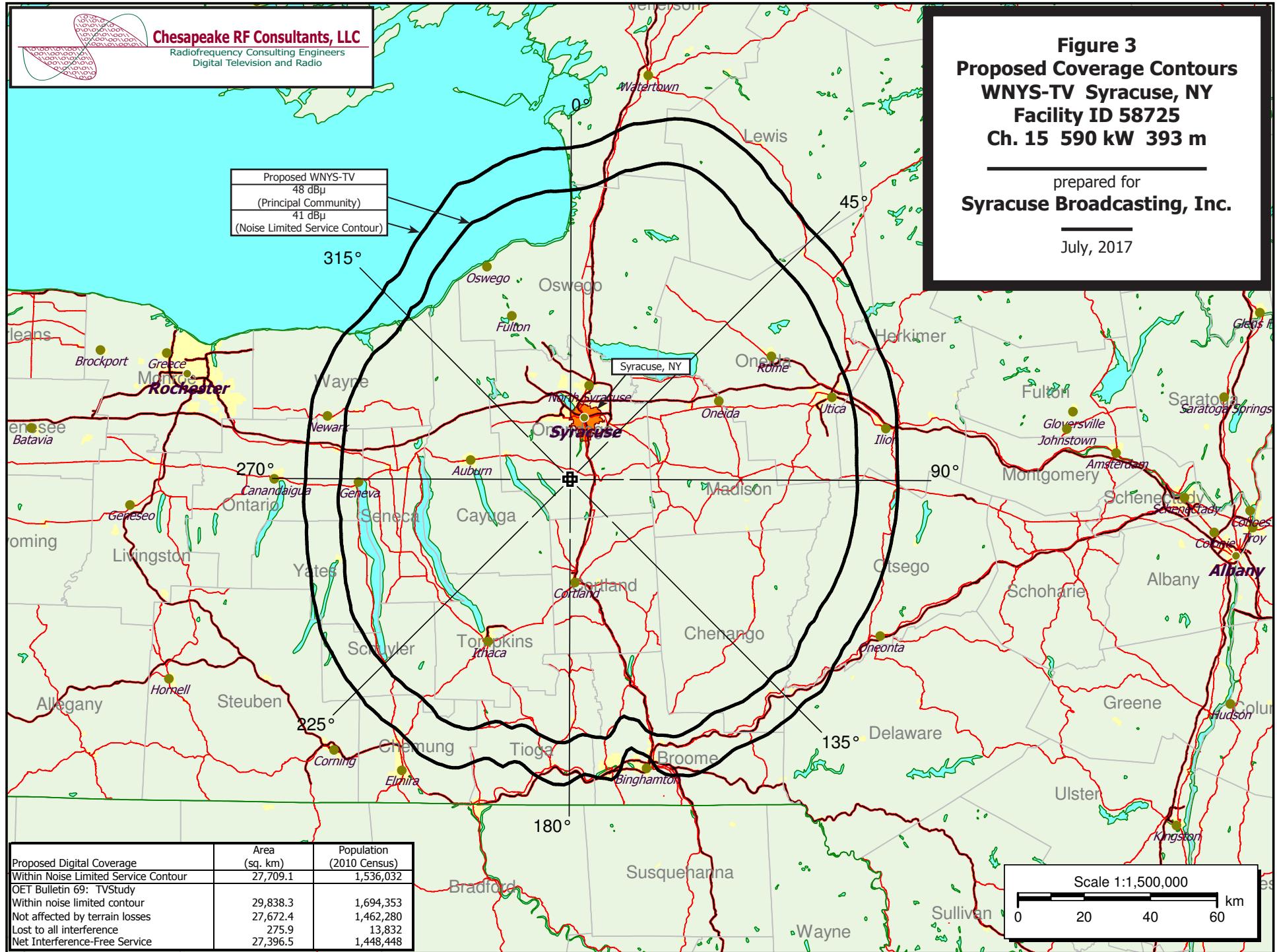
Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.171	10.0	0.115	30.0	0.065	50.0	0.058
-9.0	0.117	11.0	0.055	31.0	0.064	51.0	0.053
-8.0	0.040	12.0	0.038	32.0	0.078	52.0	0.045
-7.0	0.067	13.0	0.023	33.0	0.088	53.0	0.051
-6.0	0.049	14.0	0.074	34.0	0.079	54.0	0.066
-5.0	0.159	15.0	0.107	35.0	0.060	55.0	0.075
-4.0	0.275	16.0	0.087	36.0	0.043	56.0	0.072
-3.0	0.223	17.0	0.033	37.0	0.040	57.0	0.057
-2.0	0.071	18.0	0.010	38.0	0.059	58.0	0.037
-1.0	0.490	19.0	0.014	39.0	0.086	59.0	0.018
0.0	0.865	20.0	0.044	40.0	0.105	60.0	0.016
1.0	1.000	21.0	0.090	41.0	0.103	61.0	0.022
2.0	0.834	22.0	0.106	42.0	0.083	62.0	0.022
3.0	0.492	23.0	0.083	43.0	0.060	63.0	0.016
4.0	0.297	24.0	0.060	44.0	0.051	64.0	0.017
5.0	0.364	25.0	0.068	45.0	0.049	65.0	0.029
6.0	0.339	26.0	0.061	46.0	0.035	66.0	0.043
7.0	0.219	27.0	0.027	47.0	0.008	67.0	0.054
8.0	0.167	28.0	0.034	48.0	0.024	68.0	0.060
9.0	0.167	29.0	0.061	49.0	0.048	69.0	0.061

Figure 2
Antenna Elevation Pattern
WNYS-TV Syracuse, NY
Facility ID 58725
Ch. 15 590 kW 393 m

prepared for
Syracuse Broadcasting, Inc.

July, 2017





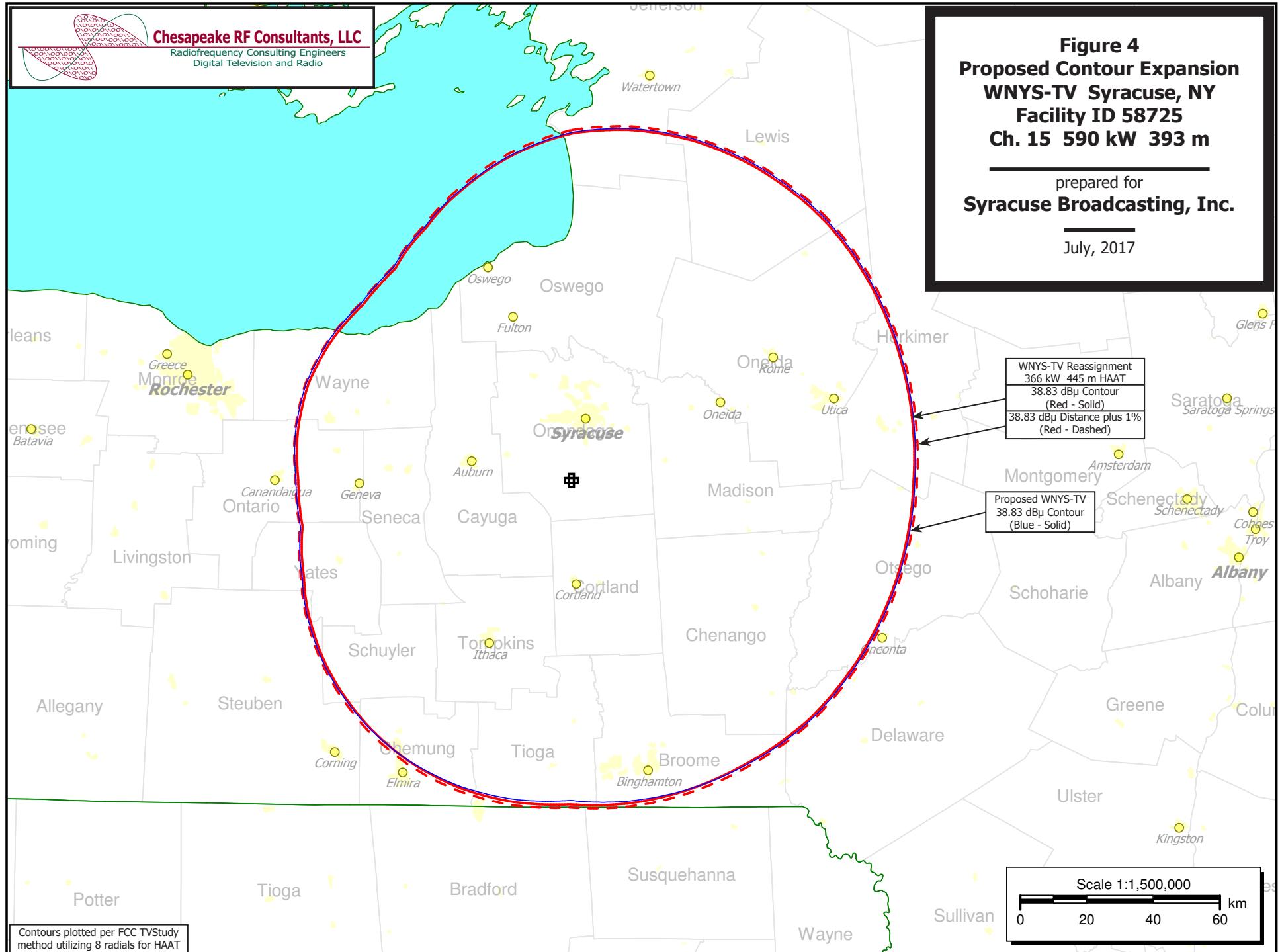


Table 1 WNYS-TV OET Bulletin 69 Interference Study
(page 1 of 3)



tvstudy v2.2.2
Database: localhost, Study: WNYS-TV 590KW PROP, Model: Longley-Rice
Start: 2017.07.02 16:27:46

Study created: 2017.07.02 16:27:40

Study build station data: LMS TV 2017-06-30 LMSTV

Proposal: WNYS-TV D15 DT APP SYRACUSE, NY
File number: WNYS-TV 590KW PROP
Facility ID: 58725
Station data: User record
Record ID: 730
Country: U.S.
Zone: I

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WSYT	D14	DT	BL	SYRACUSE, NY	DTVBL40758	0.0 km
WBNF-CD	D15	DC	LIC	BUFFALO, NY	BLDTA20111130LWW	222.6
WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	269.2
WFDC-DT	D15	DT	LIC	ARLINGTON, VA	BLCDT20120515ABF	444.2
WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	184.4
WFNY-CD	D16	DC	BL	GLOVERSVILLE, NY	DTVBL167948	150.7
W16AX-D	D16	DC	LIC	ITHACA, NY	BLANK0000001083	55.7
WNEP-TV	D16	DT	BL	SCRANTON, PA	DTVBL73318	190.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Latitude: 42 52 50.20 N (NAD83)
Longitude: 76 11 58.70 W
Height AMSL: 748.6 m
HAAT: 392.6 m
Peak ERP: 590 kW
Antenna: TFU-17JSC C170 20170629 0.0 deg

38.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	317 kW	456.3 m	104.6 km
45.0	583	440.2	109.4
90.0	483	388.8	102.9
135.0	490	367.9	101.3
180.0	590	293.9	95.8
225.0	257	349.5	94.4
270.0	25.3	423.1	82.7
315.0	26.6	421.1	83.0

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: 96.4 km

Distance to Mexican border: 2658.0 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 272.8 degrees Distance: 86.9 km
ERP: 27.0 kW Field strength: 69.0 dBu, 2.8 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 272.7 degrees Distance: 2422.4 km

No land mobile station failures found

Table 1 WNYS-TV OET Bulletin 69 Interference Study
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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 DTVBL40758 BL, scenario 1
Proposal causes no interference.

Interference to BLDTA20111130LWW LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20130614ACC LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	
Undesireds:	WNYS-TV	D15	DT	BL	SYRACUSE, NY	DTVBL58725	269.2 km
	WNYS-TV	D15	DT	APP	SYRACUSE, NY	WNYS-TV 590KW PROP	269.2
	WBNF-CD	D15	DC	LIC	BUFFALO, NY	BLDTA20111130LWW	215.3
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	275.2
	WFDC-DT	D15	DT	LIC	ARLINGTON, VA	BLCDT20120515ABF	268.8
	WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	184.6
	WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	148.5
Service area					Terrain-limited	IX-free, before	IX-free, after
36299.1	1,055,133	32592.1	868,013	31603.5	840,766	31591.4	840,585
Undesired					Total IX	Unique IX, before	Unique IX, after
WNYS-TV D15 DT BL		88.4		108	68.3	102	
WNYS-TV D15 DT APP		116.6		289		80.3	283
WBNF-CD D15 DC LIC		12.0		105	0.0	0	0
WEWS-TV D15 DT LIC		522.3		11,079	466.3	9,836	466.3
WFDC-DT D15 DT LIC		410.1		16,438	365.9	15,828	349.8
WINP-TV D16 DT BL		35.9		766	8.0	232	8.0
							232

Interference to BLEDT20130614ACC LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	
Undesireds:	WNYS-TV	D15	DT	BL	SYRACUSE, NY	DTVBL58725	269.2 km
	WNYS-TV	D15	DT	APP	SYRACUSE, NY	WNYS-TV 590KW PROP	269.2
	WBNF-CD	D15	DC	LIC	BUFFALO, NY	BLDTA20111130LWW	215.3
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	275.2
	WFDC-DT	D15	DT	LIC	ARLINGTON, VA	BLCDT20120515ABF	268.8
	WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	184.6
	WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	148.5
Service area					Terrain-limited	IX-free, before	IX-free, after
36299.1	1,055,133	32592.1	868,013	31603.5	840,766	31591.4	840,585
Undesired					Total IX	Unique IX, before	Unique IX, after
WNYS-TV D15 DT BL		88.4		108	68.3	102	
WNYS-TV D15 DT APP		116.6		289		80.3	283
WBNF-CD D15 DC LIC		12.0		105	0.0	0	0
WEWS-TV D15 DT LIC		522.3		11,079	466.3	9,836	466.3
WFDC-DT D15 DT LIC		410.1		16,438	365.9	15,828	349.8
WINP-TV D16 DT BL		35.9		766	8.0	232	8.0
							232

Interference to BLCDT20120515ABF LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20120515ABF LIC, scenario 2
Proposal causes no interference.

Table 1 WNYS-TV OET Bulletin 69 Interference Study
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Interference to BLCDT20120515ABF LIC, scenario 3
Proposal causes no interference.

Interference to BLCDT20120515ABF LIC, scenario 4
Proposal causes no interference.

Interference to DTVBL67784 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL167948 BL, scenario 1
Proposal causes no interference.

Interference to BLANK0000001083 LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W16AX-D	D16	DC	LIC	ITHACA, NY	BLANK0000001083	
Undesireds:	WNYS-TV	D15	DT	BL	SYRACUSE, NY	DTVBL58725	55.7 km
	WNYS-TV	D15	DT	APP	SYRACUSE, NY	WNYS-TV 590KW PROP	55.7
	WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	165.1
	WFNY-CD	D16	DC	BL	GLOVERSVILLE, NY	DTVBL167948	188.9
	WNEP-TV	D16	DT	BL	SCRANTON, PA	DTVBL73318	148.0
	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLCDT20030812ABK	69.1
	Service area				Terrain-limited	IX-free, before	IX-free, after
594.5	594.5	79,725	570.3	78,445	562.3	77,944	566.3
							78,129
							Percent New IX
							-0.71 -0.24
Undesired					Total IX	Unique IX, before	Unique IX, after
WNYS-TV D15 DT BL			4.0	185	4.0	185	
WNYS-TV D15 DT APP			0.0	0		0.0	0
WNEP-TV D16 DT BL			4.0	316	4.0	316	4.0
							316

Interference to DTVBL73318 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
0.95% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYS-TV	D15	DT	APP	SYRACUSE, NY	WNYS-TV 590KW PROP	
Undesireds:	WSYT	D14	DT	BL	SYRACUSE, NY	DTVBL40758	0.0 km
	WBNF-CD	D15	DC	LIC	BUFFALO, NY	BLDTA20111130LWW	222.6
	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	269.2
	WFNY-CD	D16	DC	BL	GLOVERSVILLE, NY	DTVBL167948	150.7
	W16AX-D	D16	DC	LIC	ITHACA, NY	BLANK0000001083	55.7
	WNEP-TV	D16	DT	BL	SCRANTON, PA	DTVBL73318	190.7
	Service area				Terrain-limited	IX-free	Percent IX
29838.3	29838.3	1,694,353	27672.4	1,462,280	27396.5	1,448,448	1.00 0.95
Undesired					Total IX	Unique IX	Prcnt Unique IX
WSYT D14 DT BL			71.6	2,949	71.6	2,949	0.26 0.20
WPSU-TV D15 DD LIC			200.2	4,123	200.2	4,123	0.72 0.28
W16AX-D D16 DC LIC			4.0	6,760	4.0	6,760	0.01 0.46

Channel and Facility Information	Section	Question	Response
	Proposed Community of License	Facility ID	58725
		State	New York
		City	SYRACUSE
		DTV Channel	15
	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	1006348
	Coordinates (NAD83)	Latitude	42° 52' 50.2" N+
		Longitude	076° 11' 58.7" W-
		Structure Type	TOWER-A free standing or guyed struct
		Overall Structure Height	310.6 meters
		Support Structure Height	299.9 meters
		Ground Elevation (AMSL)	496.8 meters
	Antenna Data	Height of Radiation Center Above Ground Level	251.8 meters
		Height of Radiation Center Above Average Terrain	392.6 meters
		Height of Radiation Center Above Mean Sea Level	748.6 meters
		Effective Radiated Power	590 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:	DIE
		Model	TFU-17JSC/VP-R C170
		Rotation	0 degrees
		Electrical Beam Tilt	1.0
		Mechanical Beam Tilt	Not Applicable
		toward azimuth	
		Polarization	Elliptical
	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)						
0	0.733	90	0.905	180	1.000	270	0.207
10	0.854	100	0.900	190	0.987	280	0.232
20	0.940	110	0.899	200	0.940	290	0.245
30	0.987	120	0.900	210	0.854	300	0.232
40	1.000	130	0.905	220	0.733	310	0.207
50	0.988	140	0.917	230	0.588	320	0.218
60	0.963	150	0.936	240	0.437	330	0.302
70	0.936	160	0.963	250	0.302	340	0.437
80	0.917	170	0.988	260	0.218	350	0.588

Additional Azimuths

Degree	V _A
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Construction Permit Certifications	Section	Question	Response
	Post-Incentive Auction Expedited Processing	<p>It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.</p> <p>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.</p> <p>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.</p> <p>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.</p>	Yes No Yes 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