



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN AMENDMENT TO  
AN APPLICATION FOR  
POST REPACK CONSTRUCTION PERMIT  
FILE # 0000024842  
WHDH - BOSTON, MASSACHUSETTS  
DTV - CH. 35 - 1000 kW - 304.1 m HAAT**

Prepared for: WHDH-TV

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by WHDH-TV, licensee of WHDH, channel 42, facility ID number 72145, licensed to Boston, Massachusetts, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for an amendment to an application for construction permit, in accordance with the Incentive Auction Closing and Channel Reassignment Public Notice, DA 17-314, and the technical information provided in the confidential reassignment letter from the FCC announcing the substitution of DTV channel 35 for DTV channel 42 to be used by WHDH for its post-reassignment broadcasting. The instant amendment seeks to maximize the channel 35 DTV facility in the 2<sup>nd</sup> priority window by increasing ERP to 1000 kW.

## **OMNI-DIRECTIONAL ANTENNA**

The applicant proposes to install a new Dielectric model TFU-28JTH/VP-R O6 elliptically polarized omni-directional transmitting antenna with its center of radiation located at a height above ground of 315.4 meters, and a height above average terrain of 304.1 meters. The antenna manufacturer's horizontal plane azimuth radiation pattern for the horizontally polarized component is shown and tabulated in exhibit 2. The manufacturer's horizontal plane azimuth pattern for the vertically polarized component is shown and tabulated in exhibit 3. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 4.

The former channel 7 analog antenna will be removed from the tower structure and the new antenna will be installed in its place, while maintaining the overall structure height of 356.9 meters Above Mean Sea Level (AMSL). (See ASR #1005862) Since the Height Above Average Terrain (HAAT) is to increase from 288 meters to 304.1 meters the applicant proposes a corresponding reduction in WHDH's Effective Radiated Power (ERP) from 873 kW to 725 kW to maintain its coverage contour within the 1% expansion allowed.

## **PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average

terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (40.77 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Boston, Massachusetts.

## **ALLOCATION CONSIDERATIONS**

### ***Post-Transition DTV Considerations***

A study was performed, using the FCC's software, tv\_study, v. 2.2.3, to determine if the instant application for construction permit is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for construction permit is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations. (See Appendix B)

### ***International DTV Considerations***

The WHDH site is located 291.3 kilometers from the nearest point on the US-Canadian border. The study, which included Canadian stations, confirms that the proposed facility for WHDH is predicted to have no effect on any Canadian DTV facility.

## **BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WHDH site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

## **RADIO FREQUENCY IMPACT**

The FCC's guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations, and for "uncontrolled" environments that apply in all other cases that might affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated transmitting facilities, operations or devices comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines.

The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate

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**WHDH - Boston, Massachusetts**  
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on a frequency between 30 MHz and 300 MHz is 200 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for an “uncontrolled” environment, and is 1000 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for a “controlled” environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHz and 1500 MHz, primarily UHF TV stations, is determined, in  $\mu\text{W}/\text{cm}^2$  for an “uncontrolled” environment by dividing the operating frequency in MHz by 1.5, and is similarly determined for a “controlled” environment by dividing the operating frequency in MHz by 0.3.

The predicted emissions of WHDH must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WHDH, which will operate on television Channel 35 (596-602 MHz), the MPE is 399.33 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an “uncontrolled” environment and 1,997.7  $\mu\text{W}/\text{cm}^2$  in a “controlled” environment. The proposed WHDH facility will operate with a maximum ERP of 1000 kW from an elliptically polarized omni-directional transmitting antenna with a centerline height of 315.4 meters above ground level (AGL). Considering a predicted vertical plane relative field factor of 0.300 the WHDH facility is predicted to produce a power density at two meters above ground level of 62.017  $\mu\text{W}/\text{cm}^2$ , which is 15.53% of the FCC guideline value for an “uncontrolled” environment, and 3.106% of the FCC’s guideline value for “controlled” environments. There are no other broadcast facilities that are located at the WHDH site. Therefore, the total estimated percentage of the ANSI value at the proposed site, including the cumulative radiation from all authorizations within the relevant proximity, is 15.53% of the limit applicable to “uncontrolled” environments, and 3.106% of the limit for “controlled” environments. (See Appendix A)

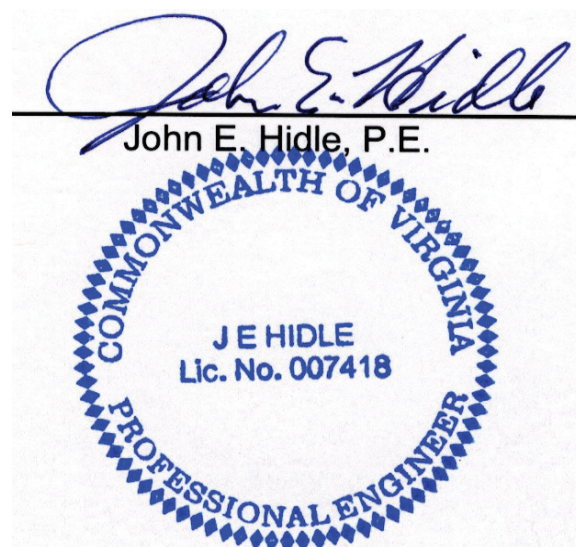
## **OCCUPATIONAL SAFETY**

The licensee of WHDH is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WHDH antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

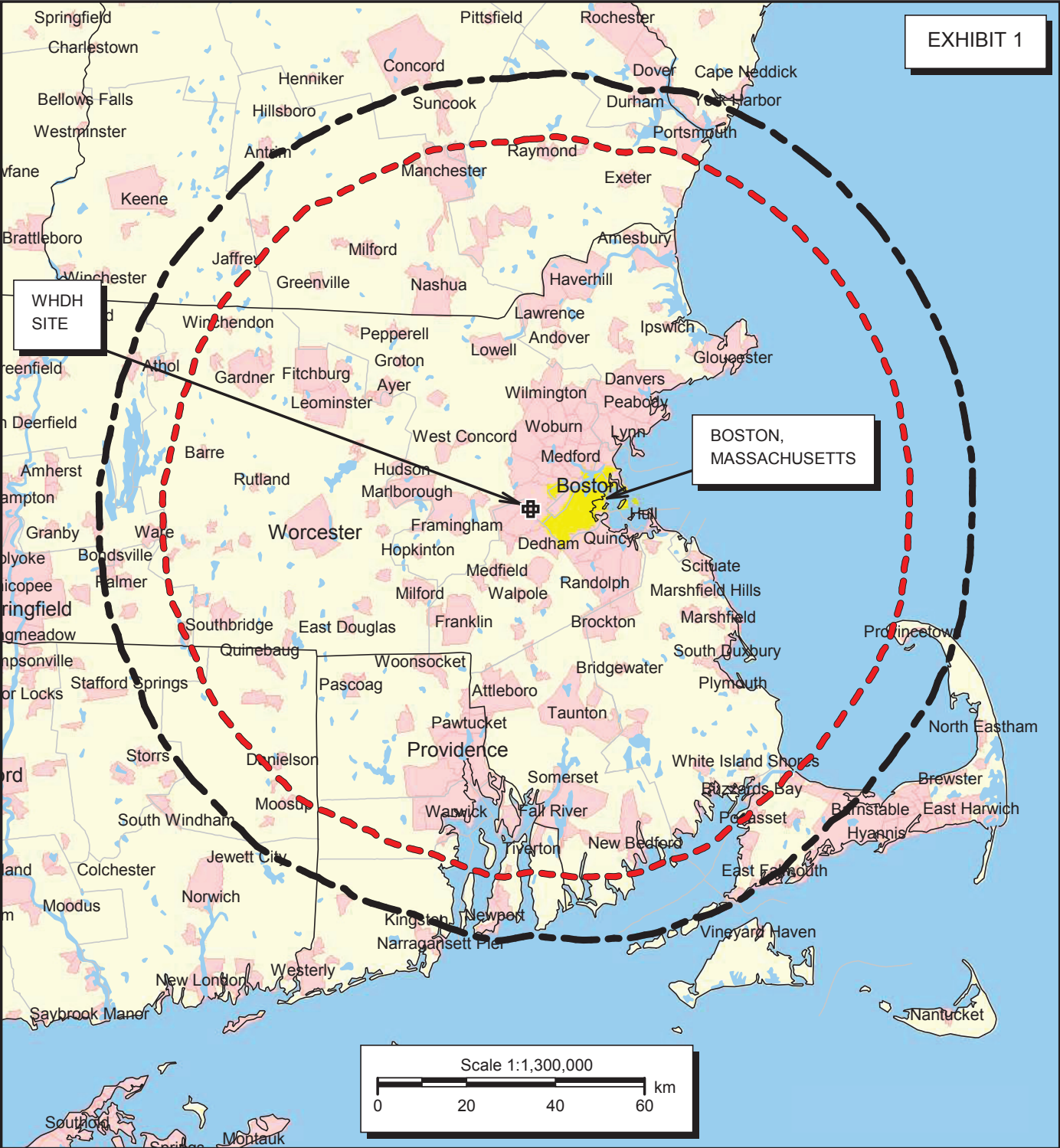
## **SUMMARY**

It is submitted that the instant application to amend WHDH's pending application for construction permit to change WHDH from channel 42 to channel 35 and to maximize its facility in the 2<sup>nd</sup> priority window, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: October 19, 2017







**PREDICTED COVERAGE CONTOURS**

**WHDH - BOSTON, MASSACHUSETTS**  
**DTV Channel 35 - 1000 kW ERP - 304.1 M HAAT**  
**OCTOBER, 2017**



Predicted Noise Limited 40.77  
F(50,90) Coverage Contour

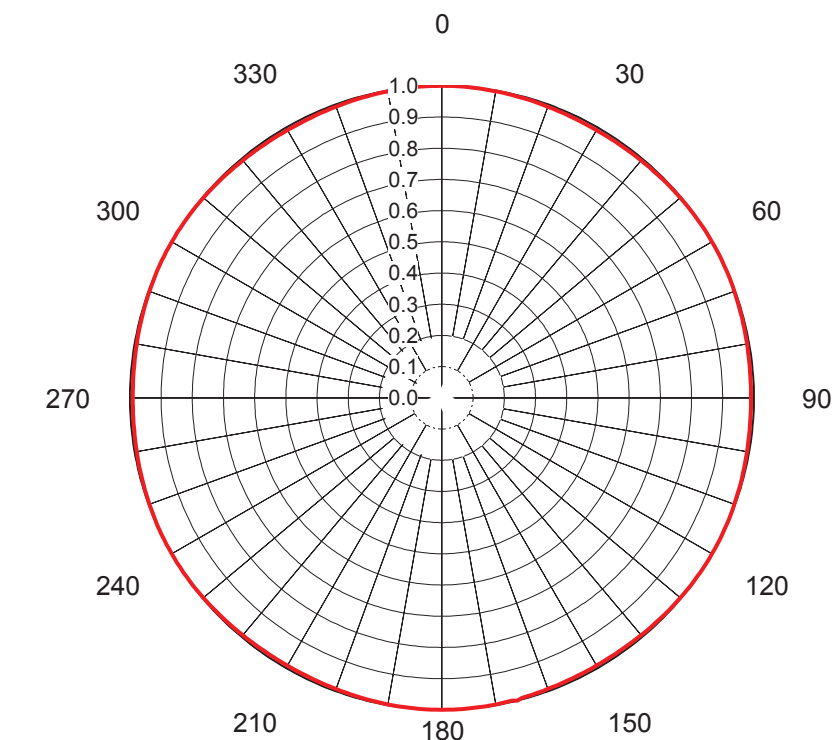


Predicted Principal Community 48 dBu  
F(50,90) Coverage Contour

## AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-70282**  
Date **23-Feb-17**  
Call Letters **WHDH 35**  
Frequency **599 MHz**  
Antenna Type **TFU-28JTH/VP-R 06**

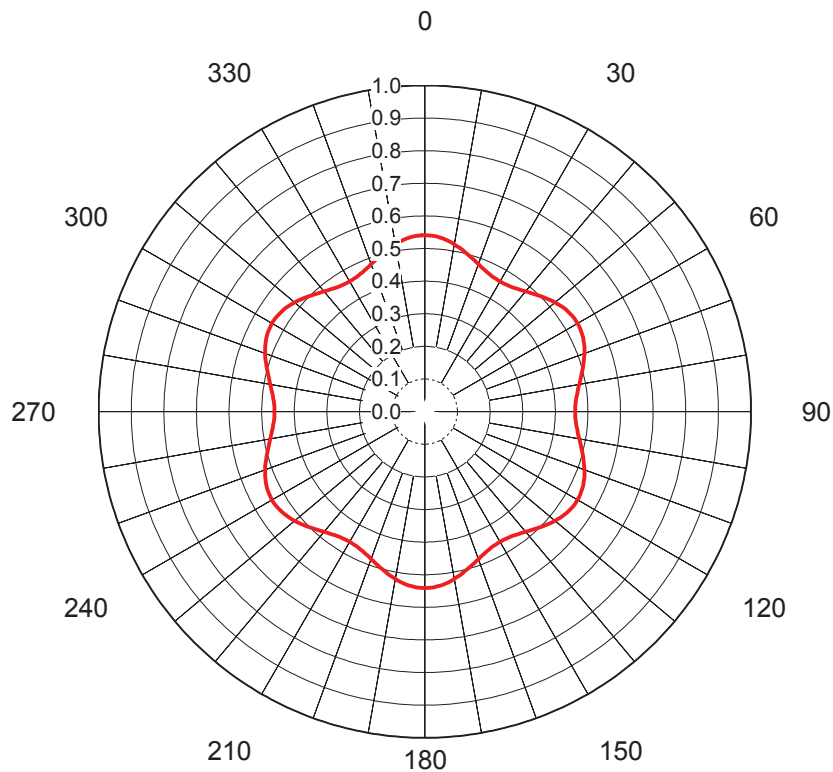
Gain **1.01 (0.04dB)**  
**Calculated**  
Circularity **+/- 1.0 dB**  
Drawing # **H14-O6-CH35**



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.992	72	0.997	108	0.997	144	0.992	180	1.000	216	0.992	252	0.997	288	0.992
1	1.000	37	0.992	73	0.996	109	0.997	145	0.991	181	1.000	217	0.992	253	0.996	289	0.991
2	1.000	38	0.992	74	0.996	110	0.998	146	0.991	182	1.000	218	0.992	254	0.996	290	0.991
3	1.000	39	0.993	75	0.995	111	0.998	147	0.991	183	1.000	219	0.993	255	0.995	291	0.991
4	1.000	40	0.993	76	0.995	112	0.998	148	0.991	184	1.000	220	0.993	256	0.995	292	0.991
5	0.999	41	0.994	77	0.994	113	0.999	149	0.991	185	0.999	221	0.994	257	0.994	293	0.991
6	0.999	42	0.994	78	0.994	114	0.999	150	0.991	186	0.999	222	0.994	258	0.994	294	0.991
7	0.999	43	0.994	79	0.994	115	0.999	151	0.991	187	0.999	223	0.994	259	0.994	295	0.991
8	0.998	44	0.995	80	0.993	116	1.000	152	0.991	188	0.998	224	0.995	260	0.993	296	0.991
9	0.998	45	0.995	81	0.993	117	1.000	153	0.991	189	0.998	225	0.995	261	0.993	297	0.991
10	0.998	46	0.996	82	0.992	118	1.000	154	0.991	190	0.998	226	0.996	262	0.992	298	0.991
11	0.997	47	0.996	83	0.992	119	1.000	155	0.991	191	0.997	227	0.996	263	0.992	299	0.991
12	0.997	48	0.997	84	0.992	120	1.000	156	0.992	192	0.997	228	0.997	264	0.992	300	0.992
13	0.996	49	0.997	85	0.991	121	1.000	157	0.992	193	0.996	229	0.997	265	0.991	301	0.992
14	0.996	50	0.998	86	0.991	122	1.000	158	0.992	194	0.996	230	0.998	266	0.991	302	0.992
15	0.995	51	0.998	87	0.991	123	1.000	159	0.993	195	0.995	231	0.998	267	0.991	303	0.993
16	0.995	52	0.998	88	0.991	124	1.000	160	0.993	196	0.995	232	0.998	268	0.991	304	0.993
17	0.994	53	0.999	89	0.991	125	0.999	161	0.994	197	0.994	233	0.999	269	0.991	305	0.994
18	0.994	54	0.999	90	0.991	126	0.999	162	0.994	198	0.994	234	0.999	270	0.991	306	0.994
19	0.994	55	0.999	91	0.991	127	0.999	163	0.994	199	0.994	235	0.999	271	0.991	307	0.994
20	0.993	56	1.000	92	0.991	128	0.998	164	0.995	200	0.993	236	1.000	272	0.991	308	0.995
21	0.993	57	1.000	93	0.991	129	0.998	165	0.995	201	0.993	237	1.000	273	0.991	309	0.995
22	0.992	58	1.000	94	0.991	130	0.998	166	1.000	202	0.992	238	1.000	274	0.991	310	0.996
23	0.992	59	1.000	95	0.991	131	0.997	167	0.996	203	0.992	239	1.000	275	0.991	311	0.996
24	0.992	60	1.000	96	0.992	132	0.997	168	0.997	204	0.992	240	1.000	276	0.992	312	0.997
25	0.991	61	1.000	97	0.992	133	0.996	169	0.997	205	0.991	241	1.000	277	0.992	313	0.997
26	0.991	62	1.000	98	0.992	134	0.996	170	0.998	206	0.991	242	1.000	278	0.992	314	0.998
27	0.991	63	1.000	99	0.993	135	0.995	171	0.998	207	0.991	243	1.000	279	0.993	315	0.998
28	0.991	64	1.000	100	0.993	136	0.995	172	0.998	208	0.991	244	1.000	280	0.993	316	0.998
29	0.991	65	0.999	101	0.994	137	0.994	173	0.999	209	0.991	245	0.999	281	0.994	317	0.999
30	0.991	66	0.999	102	0.994	138	0.994	174	0.999	210	0.991	246	0.999	282	0.994	318	0.999
31	0.991	67	0.999	103	0.994	139	0.994	175	0.999	211	0.991	247	0.999	283	0.994	319	0.999
32	0.991	68	0.998	104	0.995	140	0.993	176	1.000	212	0.991	248	0.998	284	0.995	320	1.000
33	0.991	69	0.998	105	0.995	141	0.993	177	1.000	213	0.991	249	0.998	285	0.995	321	1.000
34	0.991	70	0.998	106	0.996	142	0.992	178	1.000	214	0.991	250	0.998	286	0.996	322	1.000
35	0.991	71	0.997	107	0.996	143	0.992	179	1.000	215	0.991	251	0.997	287	0.996	323	1.000

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## AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-70282**  
 Date **23-Feb-17**  
 Call Letters **WHDH 35**  
 Frequency **599 MHz**  
 Antenna Type **TFU-28JTH/VP-R 06**  
  
 Gain **1.16 (0.65dB)**  
 Calculated  
 Circularity **+/- 1.0 dB**  
 Drawing # **V14-O6-CH35**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.541	36	0.469	72	0.513	108	0.513	144	0.469	180	0.541	216	0.469	252	0.513	288	0.513	324	0.469
1	0.541	37	0.471	73	0.509	109	0.517	145	0.466	181	0.541	217	0.471	253	0.509	289	0.517	325	0.466
2	0.540	38	0.474	74	0.505	110	0.521	146	0.464	182	0.540	218	0.474	254	0.505	290	0.521	326	0.464
3	0.539	39	0.477	75	0.501	111	0.524	147	0.463	183	0.539	219	0.477	255	0.501	291	0.524	327	0.463
4	0.538	40	0.481	76	0.497	112	0.528	148	0.462	184	0.538	220	0.481	256	0.497	292	0.528	328	0.462
5	0.536	41	0.485	77	0.493	113	0.531	149	0.461	185	0.536	221	0.485	257	0.493	293	0.531	329	0.461
6	0.533	42	0.489	78	0.489	114	0.533	150	0.461	186	0.533	222	0.489	258	0.489	294	0.533	330	0.461
7	0.531	43	0.493	79	0.485	115	0.536	151	0.461	187	0.531	223	0.493	259	0.485	295	0.536	331	0.461
8	0.528	44	0.497	80	0.481	116	0.538	152	0.462	188	0.528	224	0.497	260	0.481	296	0.538	332	0.462
9	0.524	45	0.501	81	0.477	117	0.539	153	0.463	189	0.524	225	0.501	261	0.477	297	0.539	333	0.463
10	0.521	46	0.505	82	0.474	118	0.540	154	0.464	190	0.521	226	0.505	262	0.474	298	0.540	334	0.464
11	0.517	47	0.509	83	0.471	119	0.541	155	0.466	191	0.517	227	0.509	263	0.471	299	0.541	335	0.466
12	0.513	48	0.513	84	0.469	120	0.541	156	0.469	192	0.513	228	0.513	264	0.469	300	0.541	336	0.469
13	0.509	49	0.517	85	0.466	121	0.541	157	0.471	193	0.509	229	0.517	265	0.466	301	0.541	337	0.471
14	0.505	50	0.521	86	0.464	122	0.540	158	0.474	194	0.505	230	0.521	266	0.464	302	0.540	338	0.474
15	0.501	51	0.524	87	0.463	123	0.539	159	0.477	195	0.501	231	0.524	267	0.463	303	0.539	339	0.477
16	0.497	52	0.528	88	0.462	124	0.538	160	0.481	196	0.497	232	0.528	268	0.462	304	0.538	340	0.481
17	0.493	53	0.531	89	0.461	125	0.536	161	0.485	197	0.493	233	0.531	269	0.461	305	0.536	341	0.485
18	0.489	54	0.533	90	0.461	126	0.533	162	0.489	198	0.489	234	0.533	270	0.461	306	0.533	342	0.489
19	0.485	55	0.536	91	0.461	127	0.531	163	0.493	199	0.485	235	0.536	271	0.461	307	0.531	343	0.493
20	0.481	56	0.538	92	0.462	128	0.528	164	0.497	200	0.481	236	0.538	272	0.462	308	0.528	344	0.497
21	0.477	57	0.539	93	0.463	129	0.524	165	0.501	201	0.477	237	0.539	273	0.463	309	0.524	345	0.501
22	0.474	58	0.540	94	0.464	130	0.521	166	0.505	202	0.474	238	0.540	274	0.464	310	0.521	346	0.505
23	0.471	59	0.541	95	0.466	131	0.517	167	0.509	203	0.471	239	0.541	275	0.466	311	0.517	347	0.509
24	0.469	60	0.541	96	0.469	132	0.513	168	0.513	204	0.469	240	0.541	276	0.469	312	0.513	348	0.513
25	0.466	61	0.541	97	0.471	133	0.509	169	0.517	205	0.466	241	0.541	277	0.471	313	0.509	349	0.517
26	0.464	62	0.540	98	0.474	134	0.505	170	0.521	206	0.464	242	0.540	278	0.474	314	0.505	350	0.521
27	0.463	63	0.539	99	0.477	135	0.501	171	0.524	207	0.463	243	0.539	279	0.477	315	0.501	351	0.524
28	0.462	64	0.538	100	0.481	136	0.497	172	0.528	208	0.462	244	0.538	280	0.481	316	0.497	352	0.528
29	0.461	65	0.536	101	0.485	137	0.493	173	0.531	209	0.461	245	0.536	281	0.485	317	0.493	353	0.531
30	0.461	66	0.533	102	0.489	138	0.489	174	0.533	210	0.461	246	0.533	282	0.489	318	0.489	354	0.533
31	0.461	67	0.531	103	0.493	139	0.485	175	0.536	211	0.461	247	0.531	283	0.493	319	0.485	355	0.536
32	0.462	68	0.528	104	0.497	140	0.481	176	0.538	212	0.462	248	0.528	284	0.497	320	0.481	356	0.538
33	0.463	69	0.524	105	0.501	141	0.477	177	0.539	213	0.463	249	0.524	285	0.501	321	0.477	357	0.539
34	0.464	70	0.521	106	0.505	142	0.474	178	0.540	214	0.464	250	0.521	286	0.505	322	0.474	358	0.540
35	0.466	71	0.517	107	0.509	143	0.471	179	0.541	215	0.466	251	0.517	287	0.509	323	0.471	359	0.541

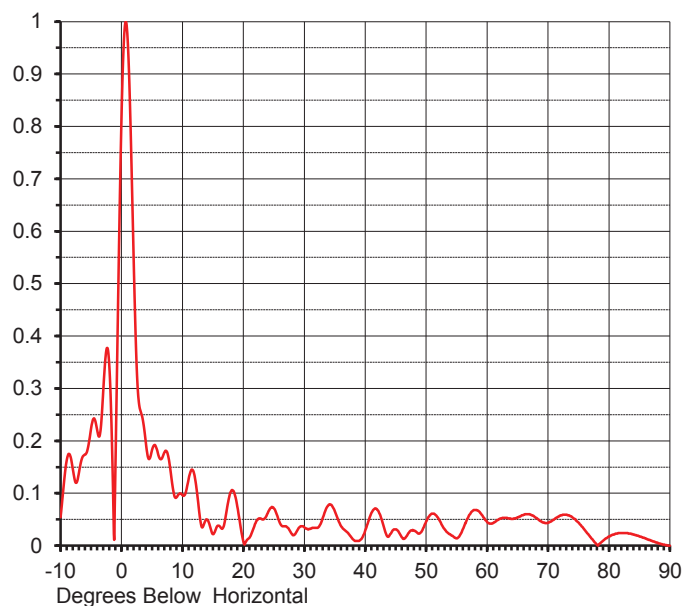
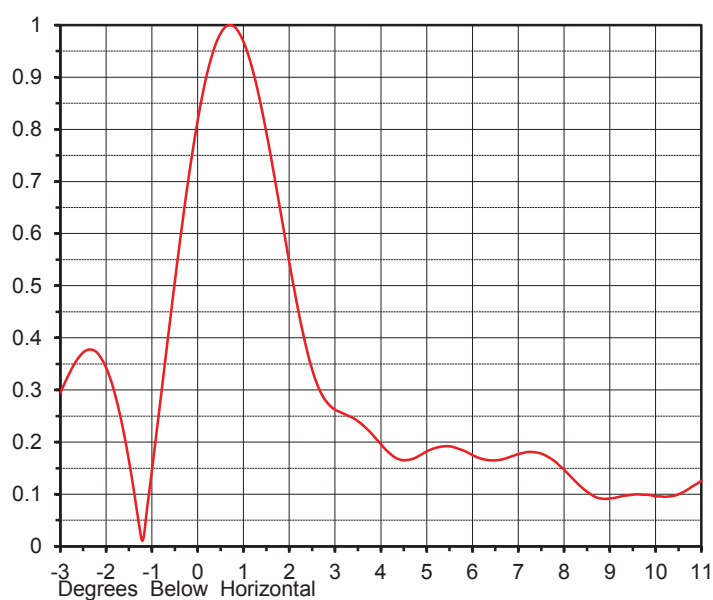
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## ELEVATION PATTERN

Proposal No. **C-70282**  
 Date **23-Feb-17**  
 Call Letters **WHDH 35**  
 Frequency **599 MHz**  
 Antenna Type **TFU-28JTH/VP-R 06**

RMS Directivity at Main Lobe **23.50 ( 13.71 dB )**  
 RMS Directivity at Horizontal **15.70 ( 11.96 dB )**  
**Calculated**

Beam Tilt **0.70 deg**  
 Drawing Number **28J235070**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.054	10.0	0.096	30.0	0.035	50.0	0.046	70.0	0.044
-9.0	0.162	11.0	0.126	31.0	0.032	51.0	0.061	71.0	0.050
-8.0	0.147	12.0	0.133	32.0	0.034	52.0	0.052	72.0	0.057
-7.0	0.138	13.0	0.044	33.0	0.052	53.0	0.032	73.0	0.059
-6.0	0.174	14.0	0.050	34.0	0.078	54.0	0.021	74.0	0.054
-5.0	0.223	15.0	0.022	35.0	0.066	55.0	0.014	75.0	0.044
-4.0	0.221	16.0	0.038	36.0	0.038	56.0	0.031	76.0	0.030
-3.0	0.294	17.0	0.049	37.0	0.026	57.0	0.057	77.0	0.016
-2.0	0.343	18.0	0.104	38.0	0.012	58.0	0.068	78.0	0.002
-1.0	0.145	19.0	0.075	39.0	0.009	59.0	0.061	79.0	0.009
0.0	0.817	20.0	0.008	40.0	0.029	60.0	0.045	80.0	0.017
1.0	0.968	21.0	0.015	41.0	0.062	61.0	0.043	81.0	0.022
2.0	0.545	22.0	0.043	42.0	0.068	62.0	0.051	82.0	0.024
3.0	0.262	23.0	0.051	43.0	0.038	63.0	0.053	83.0	0.024
4.0	0.196	24.0	0.062	44.0	0.020	64.0	0.051	84.0	0.021
5.0	0.182	25.0	0.071	45.0	0.031	65.0	0.054	85.0	0.018
6.0	0.175	26.0	0.043	46.0	0.016	66.0	0.059	86.0	0.014
7.0	0.177	27.0	0.037	47.0	0.022	67.0	0.060	87.0	0.009
8.0	0.147	28.0	0.022	48.0	0.029	68.0	0.053	88.0	0.005
9.0	0.092	29.0	0.032	49.0	0.024	69.0	0.045	89.0	0.002
								90.0	0.000

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**SUMMARY OF RADIOFREQUENCY  
RADIATION STUDY**  
WHDH, Boston, MA  
Channel 35, 1000 kW, 304.1 m HAAT  
October, 2017

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLAR- IZATION</u>	<u>ANTENNA HEIGHT</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY (<math>\mu\text{W}/\text{cm}^2</math>)</u>	<u>FCC UNCONTROLLED LIMIT (<math>\mu\text{W}/\text{cm}^2</math>)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WHDH	DT	35	599	H & V	313.4	1000.000	0.300	62.017	399.33	15.53%
<b>TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =</b>										<b>15.53%</b>

\* For television stations a very conservative vertical relative field factor of 0.3 was assumed pursuant to OET Bulletin 65.



## WHDH - BOSTON, MASSACHUSETTS Longley-Rice Interference Analysis

tvstudy v2.2.3 (Dxtpx3)

Database: localhost, Study: WHDH-35 OMNI 1MW 171019, Model: Longley-Rice

Start: 2017.10.19 11:21:09

Study created: 2017.10.19 11:20:47

Study build station data: LMS TV 2017-10-01 (38)

Proposal: WHDH D35 DT APP BOSTON, MA  
File number: WHDH-35 OMNI 1MW 171019  
Facility ID: 72145  
Station data: User record  
Record ID: 2131  
Country: U.S.  
Zone: I

Search options:

Non-U.S. records included

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.6 km
WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	0.9
WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	292.8
WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	144.1
WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000028034	127.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35  
Latitude: 42 18 41.00 N (NAD83)  
Longitude: 71 12 58.00 W  
Height AMSL: 348.5 m  
HAAT: 304.1 m  
Peak ERP: 1000 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.7

40.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	300.4 m	97.4 km
45.0	1000	330.4	100.5
90.0	1000	316.8	99.2
135.0	1000	302.6	97.6
180.0	1000	288.2	95.8
225.0	1000	297.3	97.0
270.0	1000	295.5	96.8
315.0	1000	299.6	97.3

\*\*Proposal service area extends beyond 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: 291.3 km

Distance to Mexican border: 2961.3 km

# **Appendix B - Interference Analysis** **WHDH - Boston, Massachusetts** **Channel 35 - 1000 kW - Page 2**

Conditions at FCC monitoring station: Belfast ME  
 Bearing: 35.3 degrees Distance: 293.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 276.7 degrees Distance: 2834.0 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 BLANK0000025068 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	149.6 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	149.6
	WCVB-TV	D33	DT	APP	BOSTON, MA	BLANK0000024905	148.0
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000027012	273.8
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	314.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	147.9
	WFXV	D34	DT	APP	UTICA, NY	BLANK0000029986	250.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000027930	242.7
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	147.9
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32572.7	5,318,753	28536.9	4,707,697	24345.6	3,955,287	0.00 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
WHDH D35 DT BL			312.7	68,169		8.0 595	
WHDH D35 DT APP			332.7	70,283		8.0 595	
WCVB-TV D33 DT APP			405.0	79,698		12.1 682	
WPPX-TV D34 DT CP			68.4	6,104		0.0 0	
WFXT D34 DT CP			2807.2	489,435		1745.3 177,269	
WPXT D34 DT CP			60.0	13,157		4.0 188	
WPXN-TV D34 DT CP			2021.4	527,820		1079.2 242,062	
WFXV D34 DT APP			224.5	7,672		103.9 1,491	
WSWB D34 DT CP			52.3	3,056		0.0 0	
WNJU D35 DT CP			250.3	83,425		0.0 0	

## ----- Interference to BLANK0000025068 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	149.6 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	149.6
	WCVB-TV	D33	DT	APP	BOSTON, MA	BLANK0000024905	148.0
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000027012	273.8
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	314.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	147.9
	WFXV	D34	DT	CP	UTICA, NY	BLANK0000028407	250.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000027930	242.7
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	147.9
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32572.7	5,318,753	28536.9	4,707,697	24401.5	3,955,936	0.00 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	



**Appendix B - Interference Analysis**  
**WHDH - Boston, Massachusetts**  
**Channel 35 - 1000 kW - Page 3**

WHDH D35 DT BL	312.7	68,169	8.0	595		
WHDH D35 DT APP	332.7	70,283			8.0	595
WCVB-TV D33 DT APP	405.0	79,698	12.1	682	12.1	682
WPPX-TV D34 DT CP	68.4	6,104	4.0	47	4.0	47
WFXT D34 DT CP	2807.2	489,435	1749.3	177,331	1745.2	176,718
WPXT D34 DT CP	60.0	13,157	4.0	188	4.0	188
WPXN-TV D34 DT CP	2021.4	527,820	1099.3	243,696	1099.3	243,696
WFXV D34 DT CP	104.2	2,025	47.9	842	47.9	842
WSWB D34 DT CP	52.3	3,056	0.0	0	0.0	0
WNJU D35 DT CP	250.3	83,425	0.0	0	0.0	0

-----  
Interference to BLANK0000025068 CP, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	149.6 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	149.6
	WCVB-TV	D33	DT	BL	BOSTON, MA	DTVBL65684	148.0
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000027012	273.8
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	314.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	147.9
	WFXV	D34	DT	APP	UTICA, NY	BLANK0000029986	250.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000027930	242.7
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	147.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32572.7 5,318,753	28536.9 4,707,697	24345.6 3,955,287	24345.6 3,955,287	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	312.7 68,169	8.0 595	
WHDH D35 DT APP	332.7 70,283		8.0 595
WCVB-TV D33 DT BL	393.0 78,608	12.1 682	12.1 682
WPPX-TV D34 DT CP	68.4 6,104	0.0 0	0.0 0
WFXT D34 DT CP	2807.2 489,435	1757.3 178,359	1749.2 177,397
WPXT D34 DT CP	60.0 13,157	4.0 188	4.0 188
WPXN-TV D34 DT CP	2021.4 527,820	1079.2 242,062	1079.2 242,062
WFXV D34 DT APP	224.5 7,672	103.9 1,491	103.9 1,491
WSWB D34 DT CP	52.3 3,056	0.0 0	0.0 0
WNJU D35 DT CP	250.3 83,425	0.0 0	0.0 0

-----  
Interference to BLANK0000025068 CP, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	149.6 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	149.6
	WCVB-TV	D33	DT	BL	BOSTON, MA	DTVBL65684	148.0
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000027012	273.8
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	314.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	147.9
	WFXV	D34	DT	CP	UTICA, NY	BLANK0000028407	250.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000027930	242.7
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	147.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32572.7 5,318,753	28536.9 4,707,697	24401.5 3,955,936	24401.5 3,955,936	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	312.7 68,169	8.0 595	
WHDH D35 DT APP	332.7 70,283		8.0 595
WCVB-TV D33 DT BL	393.0 78,608	12.1 682	12.1 682
WPPX-TV D34 DT CP	68.4 6,104	4.0 47	4.0 47

**Appendix B - Interference Analysis**  
**WHDH - Boston, Massachusetts**  
**Channel 35 - 1000 kW - Page 4**

WFXT D34 DT CP	2807.2	489,435	1761.3	178,421	1753.2	177,459
WPXT D34 DT CP	60.0	13,157	4.0	188	4.0	188
WPXN-TV D34 DT CP	2021.4	527,820	1099.3	243,696	1099.3	243,696
WFXV D34 DT CP	104.2	2,025	47.9	842	47.9	842
WSWB D34 DT CP	52.3	3,056	0.0	0	0.0	0
WNJU D35 DT CP	250.3	83,425	0.0	0	0.0	0

-----  
Interference to BLANK0000027179 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	1.0 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	0.9
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000025071	149.0
	WCVB-TV	D33	DT	APP	BOSTON, MA	BLANK0000024905	1.7
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	186.7
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	292.1
	WFXV	D34	DT	APP	UTICA, NY	BLANK0000029986	336.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26906.1		7,305,366		26248.2		6,920,100	0.14 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after	
WHDH D35 DT BL		132.2		37,221		36.0 14,851	
WHDH D35 DT APP		200.3		53,248		68.1 20,589	
WCCT-TV D33 DT CP		16.0		1,278		0.0 0	
WCVB-TV D33 DT APP		448.6		119,220		324.4 95,329	
WTIC-TV D34 DT CP		1770.4		173,280		1538.1 144,279	
WPXT D34 DT CP		679.1		49,210		506.9 23,656	
WPXN-TV D34 DT CP		56.2		2,951		4.0 251	
WFXV D34 DT APP		44.0		6,239		8.0 275	

-----  
Interference to BLANK0000027179 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	1.0 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	0.9
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000025071	149.0
	WCVB-TV	D33	DT	APP	BOSTON, MA	BLANK0000024905	1.7
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	186.7
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	292.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26906.1		7,305,366		26248.2		6,920,375	0.14 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after	
WHDH D35 DT BL		132.2		37,221		36.0 14,851	
WHDH D35 DT APP		200.3		53,248		68.1 20,589	
WCCT-TV D33 DT CP		16.0		1,278		0.0 0	
WCVB-TV D33 DT APP		448.6		119,220		324.4 95,329	
WTIC-TV D34 DT CP		1770.4		173,280		1554.1 144,844	
WPXT D34 DT CP		679.1		49,210		510.9 23,876	
WPXN-TV D34 DT CP		56.2		2,951		4.0 251	

-----  
Interference to BLANK0000027179 CP, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	1.0 km

**Appendix B - Interference Analysis**  
**WHDH - Boston, Massachusetts**  
**Channel 35 - 1000 kW - Page 5**

WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	0.9
WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000025071	149.0
WCVB-TV	D33	DT	BL	BOSTON, MA	DTVBL65684	1.7
WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.0
WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	186.7
WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	292.1
WFXV	D34	DT	APP	UTICA, NY	BLANK0000029986	336.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26906.1 7,305,366	26248.2 7,250,161	23518.4 6,923,465	23486.4 6,917,727	0.14 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	132.2 37,221	36.0 14,851	
WHDH D35 DT APP	200.3 53,248		68.1 20,589
WCCT-TV D33 DT CP	16.0 1,278	0.0 0	0.0 0
WCVB-TV D33 DT BL	436.6 117,835	308.3 91,964	280.4 85,359
WTIC-TV D34 DT CP	1770.4 173,280	1534.1 142,299	1526.1 138,615
WPXT D34 DT CP	679.1 49,210	506.9 23,656	506.9 23,656
WPXN-TV D34 DT CP	56.2 2,951	4.0 251	4.0 251
WFXV D34 DT APP	44.0 6,239	8.0 275	8.0 275

-----  
Interference to BLANK0000027179 CP, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	1.0 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	0.9
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000025071	149.0
	WCVB-TV	D33	DT	BL	BOSTON, MA	DTVBL65684	1.7
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000026107	186.7
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000027363	292.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26906.1 7,305,366	26248.2 7,250,161	23526.4 6,923,740	23494.4 6,918,002	0.14 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	132.2 37,221	36.0 14,851	
WHDH D35 DT APP	200.3 53,248		68.1 20,589
WCCT-TV D33 DT CP	16.0 1,278	0.0 0	0.0 0
WCVB-TV D33 DT BL	436.6 117,835	308.3 91,964	280.4 85,359
WTIC-TV D34 DT CP	1770.4 173,280	1550.1 142,864	1542.1 139,180
WPXT D34 DT CP	679.1 49,210	510.9 23,876	510.9 23,876
WPXN-TV D34 DT CP	56.2 2,951	4.0 251	4.0 251

-----  
Interference to BLANK0000027741 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	292.8 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	292.8
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000027012	127.6
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	300.7
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000025111	127.6
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000027028	326.9
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000024605	0.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35569.6 21,595,011	33251.7 21,063,365	32683.9 20,920,675	32671.7 20,917,278	0.04 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	185.3 39,917	185.3 39,917	
WHDH D35 DT APP	197.4 43,314		197.4 43,314
WPPX-TV D34 DT CP	221.3 86,043	44.2 10,768	44.2 10,768

**Appendix B - Interference Analysis**  
**WHDH - Boston, Massachusetts**  
**Channel 35 - 1000 kW - Page 6**

WENY-TV D35 DT CP	4.1	459	4.1	459	4.1	459
WFPA-CD D35 DC CP	286.3	78,356	105.1	2,828	105.1	2,828
WPXW-TV D35 DT CP	72.2	19,327	32.0	6,929	32.0	6,929
WCBS-TV D36 DT CP	16.1	6,261	16.1	6,261	16.1	6,261

-----  
Interference to BLANK0000024832 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	144.1 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	144.1
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	155.3
	WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000028034	245.1
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLCDT20060626ABE	338.0
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000024605	155.3
	WSPX-TV	D36	DT	APP	SYRACUSE, NY	BLANK0000029579	315.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26990.6	4,752,788	24251.4	4,370,519	19938.2	3,612,751	19930.2	3,612,114	0.04	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
WHDH D35 DT BL	128.1	28,880	28.0	6,201					
WHDH D35 DT APP	140.1	29,794			36.0	6,838			
WNJU D35 DT CP	294.3	124,491	0.0	0	0.0	0			
WMEA-TV D36 DT CP	16.0	1,100	0.0	0	0.0	0			
WMGM-TV D36 DT LIC	24.3	12,167	0.0	0	0.0	0			
WCBS-TV D36 DT CP	4265.1	751,209	3834.5	594,169	3830.5	593,892			
WSPX-TV D36 DT APP	48.1	888	20.0	358	20.0	358			

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Interference to BLANK0000024832 CP, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	144.1 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	144.1
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	155.3
	WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000028034	245.1
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLCDT20060626ABE	338.0
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000024605	155.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26990.6	4,752,788	24251.4	4,370,519	19958.3	3,613,109	19950.3	3,612,472	0.04	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
WHDH D35 DT BL	128.1	28,880	28.0	6,201					
WHDH D35 DT APP	140.1	29,794			36.0	6,838			
WNJU D35 DT CP	294.3	124,491	0.0	0	0.0	0			
WMEA-TV D36 DT CP	16.0	1,100	0.0	0	0.0	0			
WMGM-TV D36 DT LIC	24.3	12,167	0.0	0	0.0	0			
WCBS-TV D36 DT CP	4265.1	751,209	3862.6	594,699	3858.6	594,422			

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Interference to BLANK0000028034 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000028034	
Undesireds:	WHDH	D35	DT	BL	BOSTON, MA	DTVBL72145	127.4 km
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	127.4
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	245.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
12304.1	774,785	11495.5	747,838	11408.1	744,118	11404.1	743,994	0.04	0.02

**Appendix B - Interference Analysis**  
**WHDH - Boston, Massachusetts**  
**Channel 35 - 1000 kW - Page 7**

Undesired		Total IX	Unique IX, before	Unique IX, after
WHDH D35 DT BL	0.0	0	0.0	0
WHDH D35 DT APP	4.0	124		4.0 124
WFSB D36 DT CP	87.4	3,720	87.4 3,720	

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Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHDH	D35	DT	APP	BOSTON, MA	WHDH-35 OMNI 1MW 17101	
Undesireds:	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.6 km
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000027179	0.9
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000027741	292.8
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	144.1

	Service area	Terrain-limited	IX-free	Percent IX
29961.7	7,441,208	28700.0	7,343,735	28379.1 7,326,607
				1.12 0.23

Undesired	Total IX	Unique IX	Prcnt Unique IX
WTIC-TV D34 DT CP	96.3 4,283	24.1 1,123	0.08 0.02
WFXT D34 DT CP	56.1 1,967	56.1 1,967	0.20 0.03
WNJU D35 DT CP	212.7 12,809	144.5 9,112	0.50 0.12
WFSB D36 DT CP	68.0 4,006	20.0 859	0.07 0.01