



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
CONSTRUCTION PERMIT  
WJAR - PROVIDENCE, RHODE ISLAND  
DTV - CH. 50 - 1000 kW - 306 m HAAT**

Prepared for: WJAR Licensee LLC

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 WJAR Licensee LLC, licensee of WJAR, channel 51, licensed to Providence, Rhode Island, to prepare this statement, FCC Form 2100, its technical Sections, and the associated exhibits in support of an application for construction permit in accordance with the Report and Order in MB Docket No. 15-98, RM-11748, DA 15-481, to substitute DTV channel 50 for DTV channel 51 for post-transition use.

**DIRECTIONAL ANTENNA**

The applicant proposes to install a new Dielectric model TFU-24ETT/VP-R 4C160 elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 274.3 meters, and a height above average terrain of 306 meters. The antenna manufacturer's horizontal plane azimuth radiation pattern for the horizontally polarized component is shown in exhibit 1 and is tabulated in exhibit 2. The horizontal

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**PAGE 2**

plane azimuth pattern for the vertically polarized component is shown in exhibit 3 and is tabulated in exhibit 4. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane, due to electrical beam tilt, is shown in Exhibits 5 and 6, and is tabulated in Exhibit 7.

**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 8 shows the predicted Noise Limited (41 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Providence, Rhode Island.

**ALLOCATION CONSIDERATIONS**

**Post-Transition DTV Considerations**

A study was performed, using the FCC's software, tv\_process, to determine if the instant application for construction permit is predicted to cause new prohibited interference to DTV stations, construction permits or DTV allotments. Results indicate that the instant application for construction permit is predicted to cause no new interference exceeding 0.5% to the populations served by any DTV station, construction permit or allotment.

**International DTV Considerations**

The WJAR site is located 351.1 kilometers from the nearest point on the US-Canadian border. Since the nearest Canadian co-channel station is 394.8 km away and the nearest adjacent channel station is 445 km away, there is a vanishingly small probability that the current proposal will have any effect on any Canadian television facility.

**Class A Television Allocation Considerations**

As required in Section 73.616(f) of the FCC's Rules, a study was performed, using the FCC's application processing software. The study revealed No Spacing violations or contour overlap to Class A stations. The Longley-Rice section of the study results show that there are four Class A LPTV stations included in the list of potentially affected stations. The study reveals that only one of those four Class A stations is predicted to receive any interference from WJAR's instant proposal. WRIW-CD, that is co-located with WJAR, has agreed to relocate to channel 36, thereby removing the potential for it to receive any interference from WJAR on channel 50.

**AM station considerations**

The study also states that the "Proposed station is OK toward AM broadcast stations".

**BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WJAR 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**

Effective October 15, 1997 the FCC adopted new guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines 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 that apply in cases that 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 on a frequency between 30 MHz and 300 MHz is 0.2 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) for an "uncontrolled" environment, and is 1.0 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) 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 for an "uncontrolled" environment by dividing the operating frequency in MHz by 1500, and is similarly determined for a "controlled" environment by dividing the operating

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frequency in MHz by 300. The predicted emissions of WJAR operating on channel 50 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WJAR, which will operate on television Channel 50 (686-692 MHz), the MPE is 0.459 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) in an "uncontrolled" environment and  $2.300 \text{ mW}/\text{cm}^2$  in a "controlled" environment. The proposed WJAR facility will operate with a maximum ERP of 1000 kW from an elliptically polarized directional transmitting antenna with a centerline height of 274.3 meters above ground level (AGL). Considering a very conservative vertical plane relative field factor of 0.300, the WJAR facility is predicted to produce a power density at two meters above ground level of  $0.08108 \text{ mW}/\text{cm}^2$ , which is 17.65% of the FCC guideline value for an "uncontrolled" environment, and 3.53% of the FCC's guideline value for "controlled" environments (see Appendix A). There are two other full-service DTV stations, one Class A LPTV station, and one commercial Class B FM station, located within the relevant proximity of 315 meters. The total percentage of the ANSI value at the proposed site, including the cumulative radiation from all FM and DTV stations within the relevant proximity is 74.60% of the limit applicable to "uncontrolled" environments, and 14.92% of the limit for "controlled" environments.

**OCCUPATIONAL SAFETY**

The licensee of WJAR is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WJAR 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.

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**SUMMARY**

It is submitted that the instant application for construction permit to re-locate WJAR from channel 51 to channel 50, 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: May 21, 2015

  
\_\_\_\_\_  
John E. Hidle, P.E.





Proposal Number

**C-06227**

**Exhibit 1**

Date

**27-Mar-15**

Call Letters

**WJAR-DT**

Channel

**50**

Location

**Providence, RI**

Customer

**WJAR Licensee, LLC**

Antenna Type

**TFU-24ETT/VP-R 4C160**

## AZIMUTH PATTERN

Gain

**1.60**

**( 2.04 dB)**

Frequency

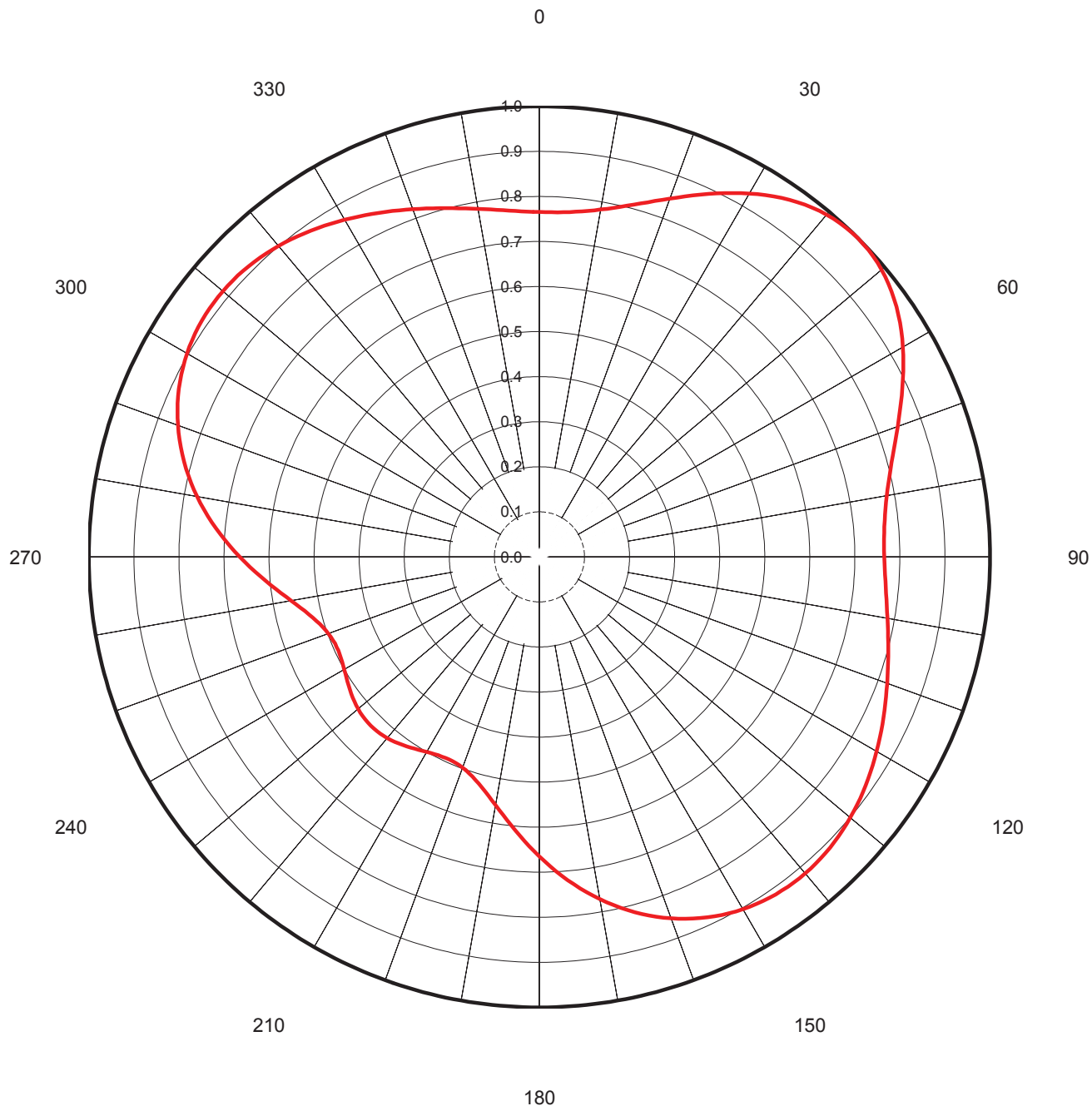
**689.00 MHz**

Calculated / Measured

**Calculated**

Drawing #

**TFU-4C160**



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Proposal Number

**C-06227****Exhibit 2**

Date

**27-Mar-15**

Call Letters

**WJAR-DT**

Channel

**50**

Location

**Providence, RI**

Customer

**WJAR Licensee, LLC**

Antenna Type

**TFU-24ETT/VP-R 4C160****TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **TFU-4C160**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.765	45	1.000	90	0.765	135	0.912	180	0.665	225	0.530	270	0.665	315	0.912
1	0.765	46	0.999	91	0.766	136	0.914	181	0.654	226	0.529	271	0.676	316	0.910
2	0.765	47	0.999	92	0.767	137	0.915	182	0.643	227	0.529	272	0.687	317	0.908
3	0.766	48	0.997	93	0.768	138	0.916	183	0.632	228	0.528	273	0.698	318	0.906
4	0.767	49	0.995	94	0.770	139	0.917	184	0.621	229	0.527	274	0.709	319	0.904
5	0.768	50	0.991	95	0.771	140	0.917	185	0.610	230	0.525	275	0.720	320	0.901
6	0.770	51	0.988	96	0.774	141	0.917	186	0.599	231	0.523	276	0.731	321	0.898
7	0.773	52	0.983	97	0.776	142	0.917	187	0.589	232	0.521	277	0.741	322	0.894
8	0.776	53	0.979	98	0.779	143	0.917	188	0.579	233	0.519	278	0.751	323	0.891
9	0.779	54	0.973	99	0.781	144	0.916	189	0.569	234	0.516	279	0.762	324	0.888
10	0.783	55	0.967	100	0.784	145	0.915	190	0.560	235	0.514	280	0.771	325	0.884
11	0.787	56	0.961	101	0.787	146	0.913	191	0.551	236	0.511	281	0.781	326	0.880
12	0.792	57	0.954	102	0.791	147	0.911	192	0.543	237	0.508	282	0.790	327	0.876
13	0.797	58	0.947	103	0.794	148	0.909	193	0.535	238	0.505	283	0.799	328	0.872
14	0.803	59	0.939	104	0.798	149	0.906	194	0.528	239	0.503	284	0.808	329	0.868
15	0.809	60	0.931	105	0.801	150	0.903	195	0.521	240	0.500	285	0.817	330	0.864
16	0.816	61	0.923	106	0.805	151	0.900	196	0.515	241	0.498	286	0.824	331	0.860
17	0.823	62	0.915	107	0.809	152	0.896	197	0.510	242	0.496	287	0.832	332	0.856
18	0.831	63	0.906	108	0.813	153	0.892	198	0.505	243	0.494	288	0.840	333	0.851
19	0.838	64	0.898	109	0.817	154	0.887	199	0.501	244	0.493	289	0.847	334	0.847
20	0.846	65	0.889	110	0.821	155	0.883	200	0.498	245	0.492	290	0.854	335	0.843
21	0.854	66	0.880	111	0.825	156	0.878	201	0.496	246	0.493	291	0.860	336	0.838
22	0.863	67	0.871	112	0.830	157	0.872	202	0.494	247	0.493	292	0.866	337	0.834
23	0.871	68	0.863	113	0.834	158	0.866	203	0.493	248	0.494	293	0.872	338	0.830
24	0.880	69	0.854	114	0.838	159	0.860	204	0.493	249	0.496	294	0.878	339	0.825
25	0.889	70	0.846	115	0.843	160	0.854	205	0.492	250	0.498	295	0.883	340	0.821
26	0.898	71	0.838	116	0.847	161	0.847	206	0.493	251	0.501	296	0.887	341	0.817
27	0.906	72	0.831	117	0.851	162	0.840	207	0.494	252	0.505	297	0.892	342	0.813
28	0.915	73	0.823	118	0.856	163	0.832	208	0.496	253	0.510	298	0.896	343	0.809
29	0.923	74	0.816	119	0.860	164	0.824	209	0.498	254	0.515	299	0.900	344	0.805
30	0.931	75	0.809	120	0.864	165	0.816	210	0.500	255	0.521	300	0.903	345	0.801
31	0.939	76	0.803	121	0.868	166	0.808	211	0.503	256	0.528	301	0.906	346	0.798
32	0.947	77	0.797	122	0.872	167	0.799	212	0.505	257	0.535	302	0.909	347	0.794
33	0.954	78	0.792	123	0.876	168	0.790	213	0.508	258	0.543	303	0.911	348	0.791
34	0.961	79	0.787	124	0.880	169	0.781	214	0.511	259	0.551	304	0.913	349	0.787
35	0.967	80	0.783	125	0.884	170	0.771	215	0.514	260	0.560	305	0.915	350	0.784
36	0.973	81	0.779	126	0.888	171	0.762	216	0.516	261	0.569	306	0.916	351	0.781
37	0.979	82	0.776	127	0.891	172	0.751	217	0.519	262	0.579	307	0.917	352	0.779
38	0.983	83	0.773	128	0.894	173	0.741	218	0.521	263	0.589	308	0.917	353	0.776
39	0.988	84	0.770	129	0.898	174	0.731	219	0.523	264	0.599	309	0.917	354	0.774
40	0.991	85	0.768	130	0.901	175	0.720	220	0.525	265	0.610	310	0.917	355	0.771
41	0.995	86	0.767	131	0.904	176	0.709	221	0.527	266	0.621	311	0.917	356	0.770
42	0.997	87	0.766	132	0.906	177	0.698	222	0.528	267	0.632	312	0.916	357	0.768
43	0.999	88	0.765	133	0.908	178	0.687	223	0.529	268	0.643	313	0.915	358	0.767
44	0.999	89	0.765	134	0.910	179	0.676	224	0.529	269	0.654	314	0.914	359	0.766

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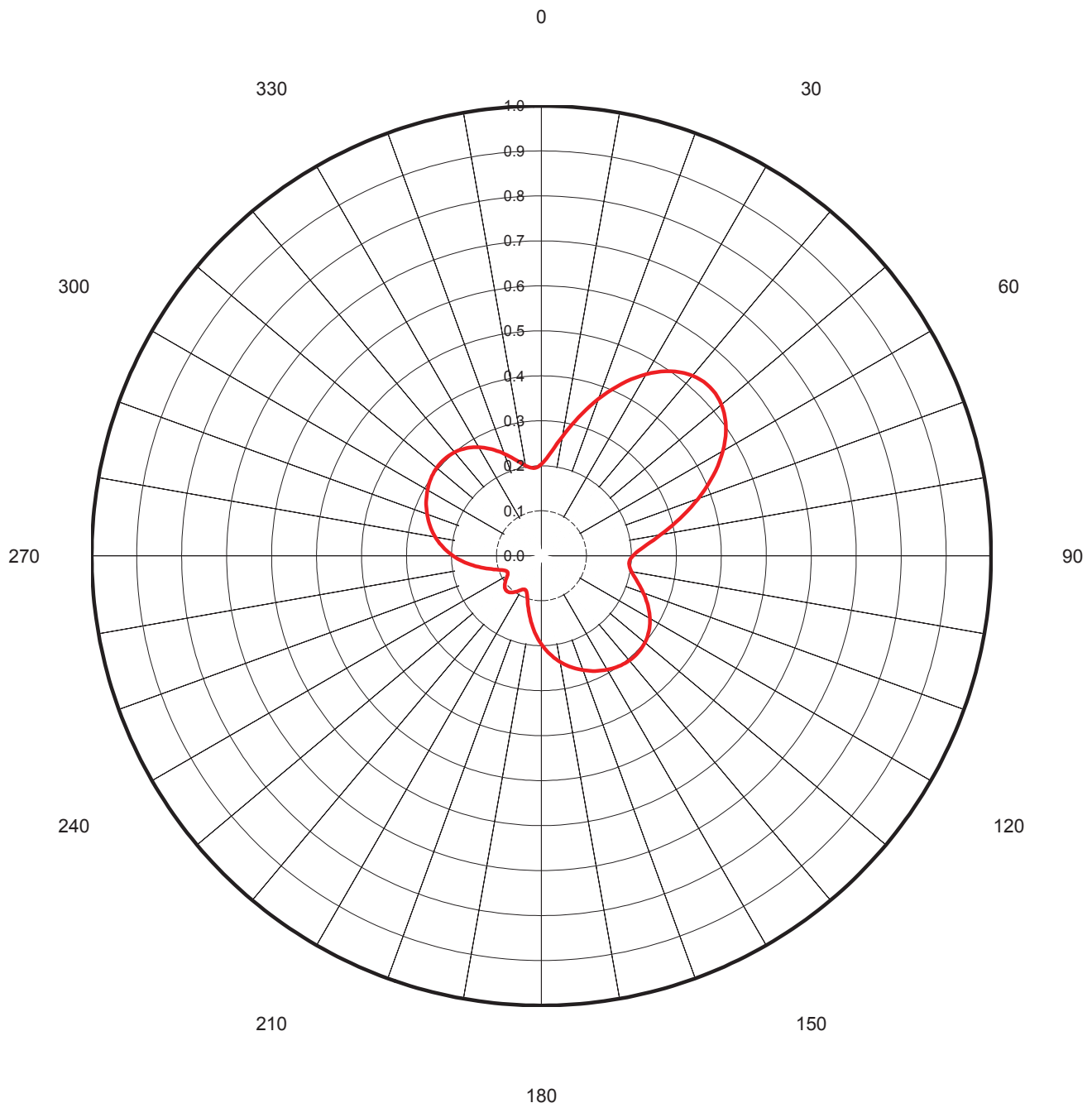


Proposal Number	<b>C-06227</b>	<b>Exhibit 3</b>
Date	<b>27-Mar-15</b>	
Call Letters	<b>WJAR-DT</b>	Channel <b>50</b>
Location	<b>Providence, RI</b>	
Customer	<b>WJAR Licensee, LLC</b>	
Antenna Type	<b>TFU-24ETT/VP-R 4C160</b>	

### AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	<b>3.60</b>	<b>( 5.56 dB)</b>
Calculated / Measured		<b>Calculated</b>

Frequency	<b>689.00 MHz</b>
Drawing #	<b>TFU-4C360 VP</b>





Proposal Number

**C-06227****Exhibit 4**

Date

**27-Mar-15**

Call Letters

**WJAR-DT**

Channel

**50**

Location

**Providence, RI**

Customer

**WJAR Licensee, LLC**

Antenna Type

**TFU-24ETT/VP-R 4C160****TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **TFU-4C360 VP**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.204	45	0.530	90	0.204	135	0.304	180	0.197	225	0.110	270	0.197	315	0.304
1	0.207	46	0.530	91	0.201	136	0.305	181	0.192	226	0.110	271	0.202	316	0.304
2	0.212	47	0.529	92	0.198	137	0.305	182	0.187	227	0.110	272	0.206	317	0.303
3	0.217	48	0.527	93	0.197	138	0.305	183	0.181	228	0.109	273	0.211	318	0.303
4	0.223	49	0.525	94	0.196	139	0.304	184	0.176	229	0.108	274	0.216	319	0.302
5	0.229	50	0.523	95	0.196	140	0.304	185	0.171	230	0.107	275	0.220	320	0.300
6	0.236	51	0.519	96	0.196	141	0.303	186	0.165	231	0.105	276	0.224	321	0.299
7	0.244	52	0.515	97	0.197	142	0.303	187	0.159	232	0.104	277	0.228	322	0.297
8	0.252	53	0.511	98	0.199	143	0.302	188	0.154	233	0.102	278	0.232	323	0.296
9	0.260	54	0.506	99	0.201	144	0.301	189	0.148	234	0.100	279	0.236	324	0.294
10	0.269	55	0.501	100	0.203	145	0.300	190	0.142	235	0.098	280	0.240	325	0.292
11	0.279	56	0.495	101	0.206	146	0.299	191	0.137	236	0.095	281	0.243	326	0.289
12	0.288	57	0.488	102	0.209	147	0.297	192	0.131	237	0.093	282	0.247	327	0.287
13	0.298	58	0.481	103	0.213	148	0.296	193	0.125	238	0.091	283	0.250	328	0.284
14	0.308	59	0.474	104	0.217	149	0.294	194	0.120	239	0.089	284	0.253	329	0.281
15	0.318	60	0.466	105	0.220	150	0.293	195	0.115	240	0.087	285	0.256	330	0.278
16	0.329	61	0.458	106	0.224	151	0.291	196	0.110	241	0.086	286	0.259	331	0.275
17	0.339	62	0.449	107	0.229	152	0.289	197	0.105	242	0.085	287	0.262	332	0.272
18	0.350	63	0.440	108	0.233	153	0.287	198	0.101	243	0.084	288	0.265	333	0.269
19	0.360	64	0.431	109	0.237	154	0.285	199	0.097	244	0.084	289	0.268	334	0.265
20	0.371	65	0.422	110	0.241	155	0.283	200	0.093	245	0.084	290	0.271	335	0.261
21	0.381	66	0.412	111	0.245	156	0.280	201	0.090	246	0.085	291	0.273	336	0.257
22	0.392	67	0.402	112	0.249	157	0.278	202	0.088	247	0.086	292	0.276	337	0.253
23	0.402	68	0.392	113	0.253	158	0.276	203	0.086	248	0.088	293	0.278	338	0.249
24	0.412	69	0.381	114	0.257	159	0.273	204	0.085	249	0.090	294	0.280	339	0.245
25	0.422	70	0.371	115	0.261	160	0.271	205	0.084	250	0.093	295	0.283	340	0.241
26	0.431	71	0.360	116	0.265	161	0.268	206	0.084	251	0.097	296	0.285	341	0.237
27	0.440	72	0.350	117	0.269	162	0.265	207	0.084	252	0.101	297	0.287	342	0.233
28	0.449	73	0.339	118	0.272	163	0.262	208	0.085	253	0.105	298	0.289	343	0.229
29	0.458	74	0.329	119	0.275	164	0.259	209	0.086	254	0.110	299	0.291	344	0.224
30	0.466	75	0.318	120	0.278	165	0.256	210	0.087	255	0.115	300	0.293	345	0.220
31	0.474	76	0.308	121	0.281	166	0.253	211	0.089	256	0.120	301	0.294	346	0.217
32	0.481	77	0.298	122	0.284	167	0.250	212	0.091	257	0.125	302	0.296	347	0.213
33	0.488	78	0.288	123	0.287	168	0.247	213	0.093	258	0.131	303	0.297	348	0.209
34	0.495	79	0.279	124	0.289	169	0.243	214	0.095	259	0.137	304	0.299	349	0.206
35	0.501	80	0.269	125	0.292	170	0.240	215	0.098	260	0.142	305	0.300	350	0.203
36	0.506	81	0.260	126	0.294	171	0.236	216	0.100	261	0.148	306	0.301	351	0.201
37	0.511	82	0.252	127	0.296	172	0.232	217	0.102	262	0.154	307	0.302	352	0.199
38	0.515	83	0.244	128	0.297	173	0.228	218	0.104	263	0.159	308	0.303	353	0.197
39	0.519	84	0.236	129	0.299	174	0.224	219	0.105	264	0.165	309	0.303	354	0.196
40	0.523	85	0.229	130	0.300	175	0.220	220	0.107	265	0.171	310	0.304	355	0.196
41	0.525	86	0.223	131	0.302	176	0.216	221	0.108	266	0.176	311	0.304	356	0.196
42	0.527	87	0.217	132	0.303	177	0.211	222	0.109	267	0.181	312	0.305	357	0.197
43	0.529	88	0.212	133	0.303	178	0.206	223	0.110	268	0.187	313	0.305	358	0.198
44	0.530	89	0.207	134	0.304	179	0.202	224	0.110	269	0.192	314	0.305	359	0.201

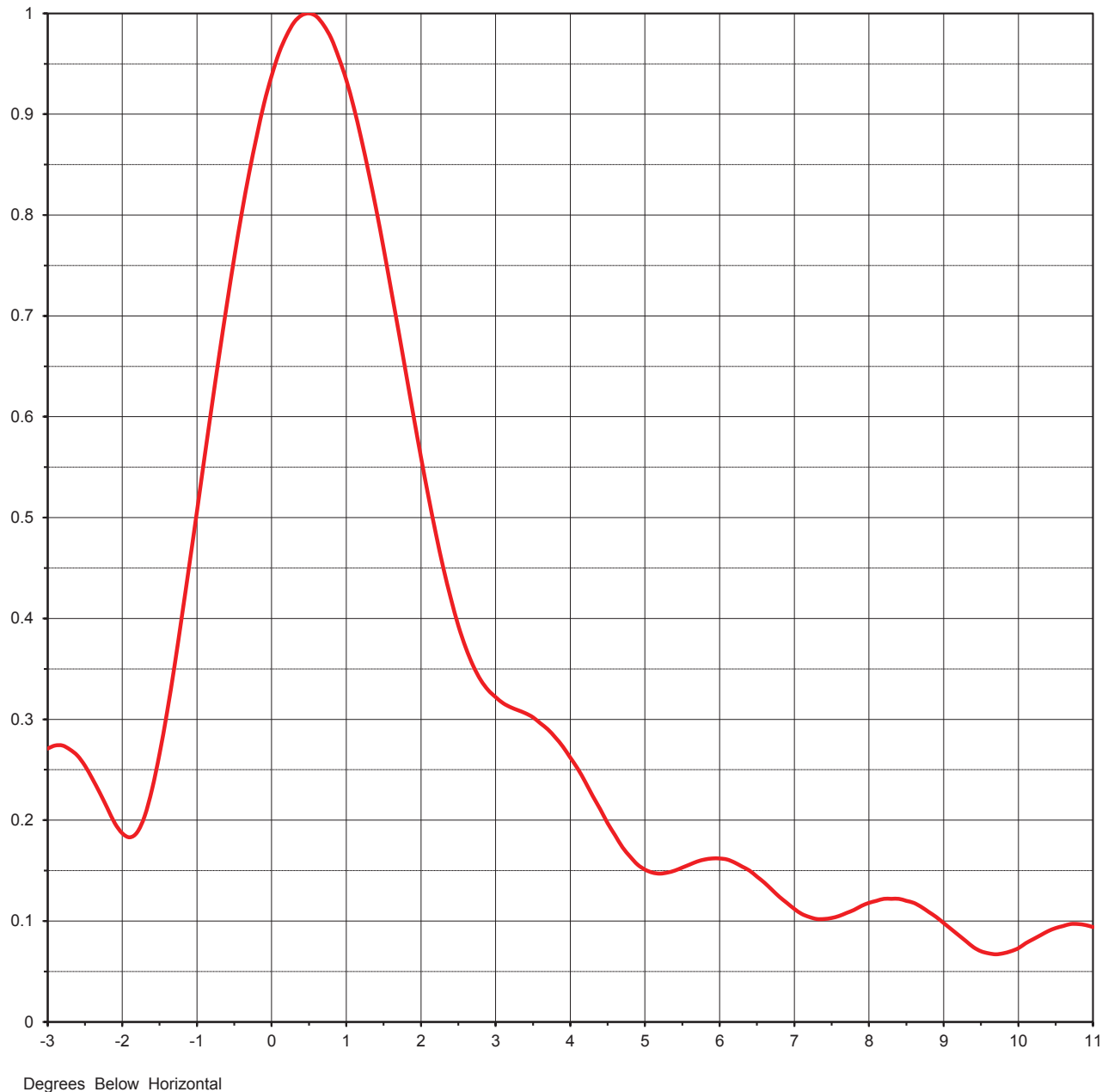
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Proposal Number	<b>C-06227</b>	<b>Exhibit 5</b>
Date	<b>27-Mar-15</b>	
Call Letters	<b>WJAR-DT</b>	Channel <b>50</b>
Location	<b>Providence, RI</b>	
Customer	<b>WJAR Licensee, LLC</b>	
Antenna Type	<b>TFU-24ETT/VP-R 4C160</b>	

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>22.00 ( 13.42 dB )</b>	Beam Tilt	<b>0.50 deg</b>
RMS Gain at Horizontal	<b>19.40 ( 12.88 dB )</b>	Frequency	<b>689.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24E220050</b>



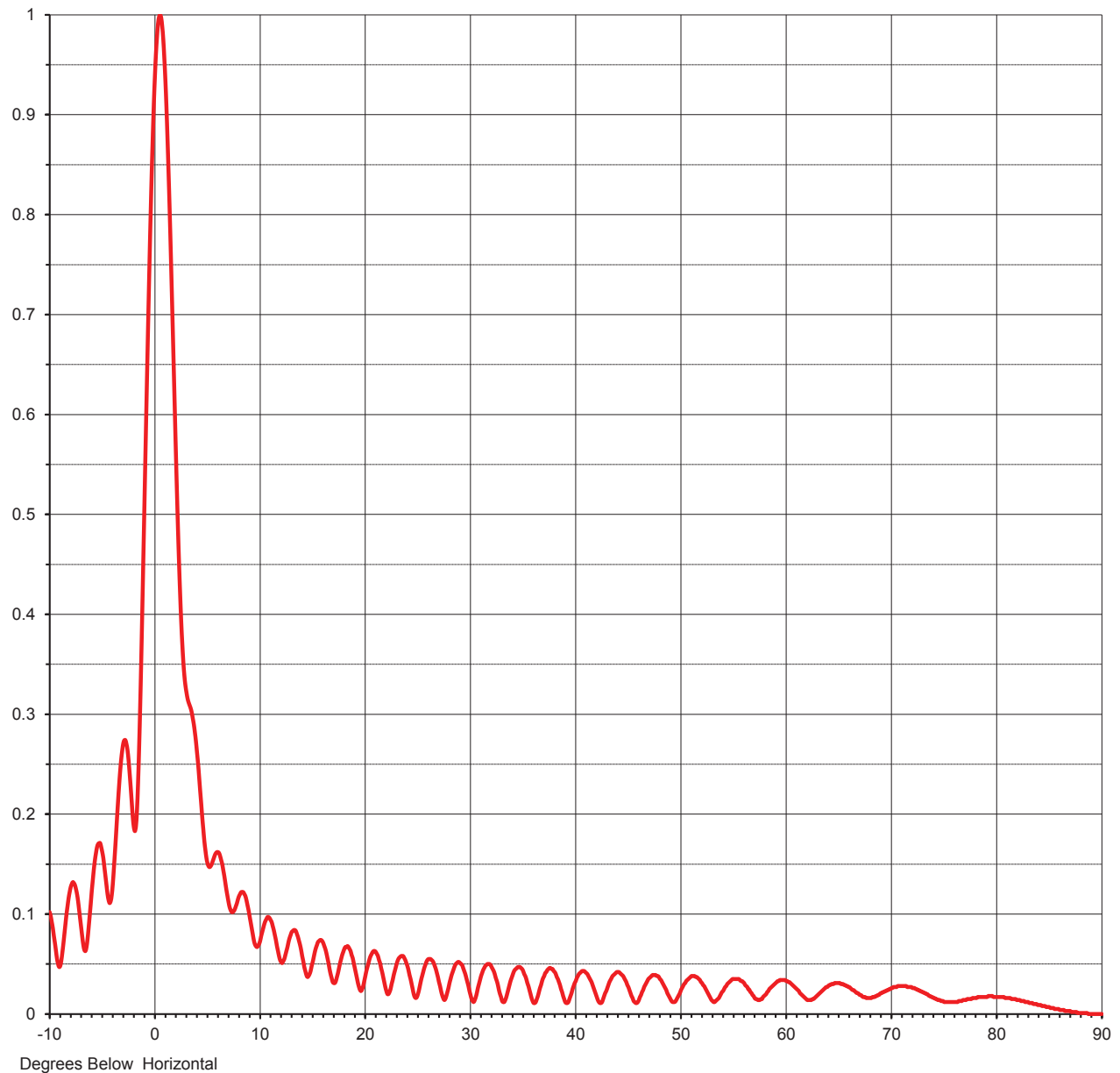
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Proposal Number	<b>C-06227</b>	<b>Exhibit 6</b>
Date	<b>27-Mar-15</b>	
Call Letters	<b>WJAR-DT</b>	Channel <b>50</b>
Location	<b>Providence, RI</b>	
Customer	<b>WJAR Licensee, LLC</b>	
Antenna Type	<b>TFU-24ETT/VP-R 4C160</b>	

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>22.00 ( 13.42 dB )</b>	Beam Tilt	<b>0.50 deg</b>
RMS Gain at Horizontal	<b>19.40 ( 12.88 dB )</b>	Frequency	<b>689.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24E220050-90</b>



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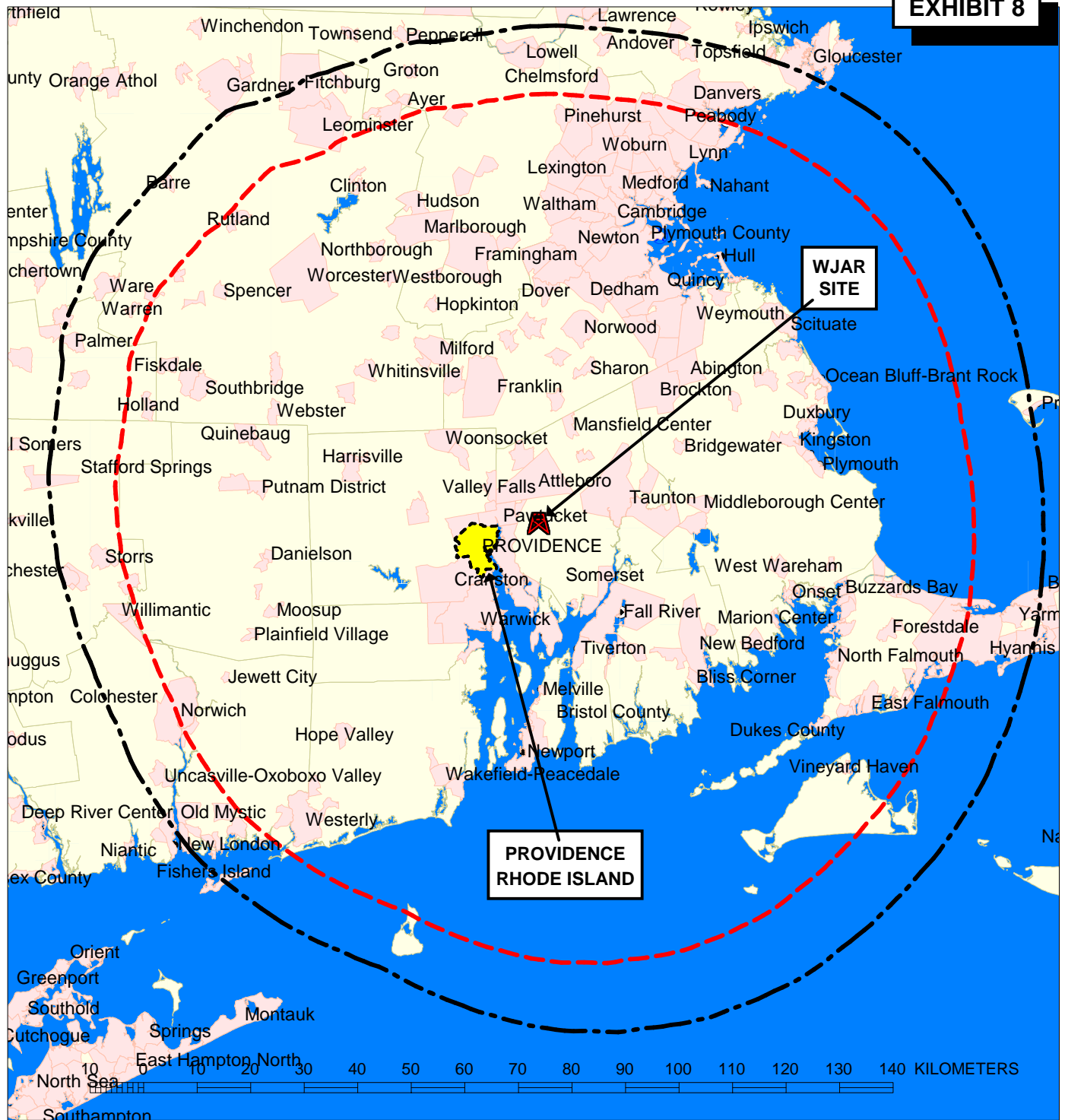
Proposal Number **C-06227** **Exhibit 7**  
 Date **27-Mar-15**  
 Call Letters **WJAR-DT** Channel **50**  
 Location **Providence, RI**  
 Customer **WJAR Licensee, LLC**  
 Antenna Type **TFU-24ETT/VP-R 4C160**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **24E220050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.102	2.4	0.420	10.6	0.093	30.5	0.014	51.0	0.037	71.5	0.027
-9.5	0.071	2.6	0.371	10.8	0.097	31.0	0.034	51.5	0.037	72.0	0.026
-9.0	0.048	2.8	0.339	11.0	0.096	31.5	0.048	52.0	0.032	72.5	0.024
-8.5	0.090	3.0	0.322	11.5	0.079	32.0	0.049	52.5	0.024	73.0	0.022
-8.0	0.127	3.2	0.312	12.0	0.054	32.5	0.036	53.0	0.014	73.5	0.019
-7.5	0.125	3.4	0.306	12.5	0.059	33.0	0.017	53.5	0.014	74.0	0.016
-7.0	0.086	3.6	0.296	13.0	0.079	33.5	0.017	54.0	0.022	74.5	0.014
-6.5	0.067	3.8	0.282	13.5	0.083	34.0	0.036	54.5	0.030	75.0	0.012
-6.0	0.123	4.0	0.262	14.0	0.064	34.5	0.046	55.0	0.035	75.5	0.012
-5.5	0.167	4.2	0.238	14.5	0.039	35.0	0.045	55.5	0.035	76.0	0.012
-5.0	0.162	4.4	0.211	15.0	0.048	35.5	0.031	56.0	0.032	76.5	0.013
-4.5	0.120	4.6	0.185	15.5	0.069	36.0	0.013	56.5	0.025	77.0	0.014
-4.0	0.130	4.8	0.164	16.0	0.073	36.5	0.018	57.0	0.018	77.5	0.015
-3.5	0.213	5.0	0.151	16.5	0.056	37.0	0.036	57.5	0.014	78.0	0.016
-3.0	0.271	5.2	0.147	17.0	0.032	37.5	0.045	58.0	0.018	78.5	0.017
-2.8	0.274	5.4	0.150	17.5	0.041	38.0	0.043	58.5	0.025	79.0	0.017
-2.6	0.264	5.6	0.156	18.0	0.062	38.5	0.032	59.0	0.030	79.5	0.018
-2.4	0.241	5.8	0.161	18.5	0.067	39.0	0.015	59.5	0.034	80.0	0.017
-2.2	0.212	6.0	0.162	19.0	0.051	39.5	0.015	60.0	0.034	80.5	0.017
-2.0	0.187	6.2	0.158	19.5	0.027	40.0	0.031	60.5	0.031	81.0	0.016
-1.8	0.188	6.4	0.150	20.0	0.033	40.5	0.041	61.0	0.026	81.5	0.015
-1.6	0.231	6.6	0.138	20.5	0.055	41.0	0.042	61.5	0.020	82.0	0.014
-1.4	0.307	6.8	0.124	21.0	0.063	41.5	0.034	62.0	0.015	82.5	0.013
-1.2	0.403	7.0	0.112	21.5	0.051	42.0	0.020	62.5	0.014	83.0	0.012
-1.0	0.506	7.2	0.104	22.0	0.027	42.5	0.011	63.0	0.018	83.5	0.010
-0.8	0.611	7.4	0.102	22.5	0.025	43.0	0.023	63.5	0.023	84.0	0.009
-0.6	0.711	7.6	0.105	23.0	0.047	43.5	0.036	64.0	0.027	84.5	0.008
-0.4	0.802	7.8	0.111	23.5	0.058	44.0	0.042	64.5	0.030	85.0	0.007
-0.2	0.878	8.0	0.118	24.0	0.051	44.5	0.039	65.0	0.031	85.5	0.005
0.0	0.938	8.2	0.122	24.5	0.030	45.0	0.029	65.5	0.029	86.0	0.004
0.2	0.978	8.4	0.122	25.0	0.017	45.5	0.016	66.0	0.027	86.5	0.003
0.4	0.998	8.6	0.118	25.5	0.038	46.0	0.012	66.5	0.023	87.0	0.003
0.6	0.997	8.8	0.109	26.0	0.054	46.5	0.024	67.0	0.019	87.5	0.002
0.8	0.975	9.0	0.098	26.5	0.053	47.0	0.035	67.5	0.017	88.0	0.001
1.0	0.934	9.2	0.086	27.0	0.037	47.5	0.039	68.0	0.016	88.5	0.001
1.2	0.876	9.4	0.074	27.5	0.016	48.0	0.037	68.5	0.018	89.0	0.000
1.4	0.806	9.6	0.068	28.0	0.026	48.5	0.028	69.0	0.021	89.5	0.000
1.6	0.726	9.8	0.067	28.5	0.045	49.0	0.017	69.5	0.023	90.0	0.000
1.8	0.643	10.0	0.070	29.0	0.052	49.5	0.012	70.0	0.026		
2.0	0.560	10.2	0.078	29.5	0.043	50.0	0.021	70.5	0.027		
2.2	0.484	10.4	0.086	30.0	0.023	50.5	0.031	71.0	0.028		

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## PREDICTED COVERAGE CONTOURS

### WJAR - PROVIDENCE, RHODE ISLAND

**DTV - CH 50 - 1000 kW 306 m HAAT**

**Predicted Noise Limited 41 dBu**

**F(50,90) Coverage Contour**

**Area = 25,039 sq km**

**Interference Free**

**Population = 6,250,739**

**DTV - CH 50 - 1000 kW 306 m HAAT**

**Predicted Principal Community 48 dBu**

**F(50,90) Coverage Contour**

**Area = 18,630 sq km**

**Interference Free**

**Population = 5,478,258**

MAY 2015

**SUMMARY OF RADIOFREQUENCY  
RADIATION STUDY**

WJAR, Providence, Rhode Island  
CHANNEL 50, 1000 kW ERP, 306 m HAAT  
MAY, 2015

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT ** mAGL</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>PREDICTED POWER DENSITY (mW/cm<sup>2</sup>)</u>	<u>FCC UNCONTROLLED LIMIT (mW/cm<sup>2</sup>)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WSBE-TV	DT	21	515	H & V	234	50.000	0.300	0.00549	0.343	1.60%
WRIW-CD	DT	36	605	H	187.7	15.000	0.300	0.00128	0.403	0.32%
WLNE-TV	DT	49	683	H	251	350.000	0.300	0.01670	0.455	3.67%
WJAR	DT	50	689	H & V	272.3	1000.000	0.300	0.08108	0.459	17.65%
WSNE-FM	FM	227	93.3	H & V	142	31.000	1.000	0.10273	0.200	51.36%
<b>TOTAL PERCENTAGE OF ANSI VALUE=</b>										<b>74.60%</b>

*\*\* The antenna heights indicated above are 2 meters less than the actual antenna heights*

*so that the predicted power densities consider the 2 meter human height allowance.*

*This evaluation includes facilities collocated at the site, and facilities located within 315 meters.*





Percent allowed new interference: 0.500  
 Percent allowed new interference to non Class A LPTV: 2.000  
 Census data selected 2000  
 Data Base Selected  
 ./data/tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-24-2015 Time: 15:11:22

Record Selected for Analysis

WJAR BLCDDT -20090811ABO PROVIDENCE RI US  
 Channel 50 ERP 1000 kW HAAT 306. m RCAMSL 334.6 m  
 Latitude 041-51-54 Longitude 0071-17-15  
 Status LIC Zone 1 Border Site number: 01  
 Dir Antenna Make CDB Model 00000000087351 Beam tilt N Ref Azimuth 180.0  
 Last update 00000000 Cutoff date 20110501 Docket  
 Comments  
 Applicant WJAR LICENSEE, LLC

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	585.225	295.0	91.2	
45.0	1000.000	304.0	97.3	
90.0	585.225	305.7	92.6	
135.0	826.281	305.3	95.7	
180.0	442.225	329.0	92.8	
225.0	280.900	320.0	87.9	
270.0	442.225	300.7	89.4	
315.0	826.281	287.5	93.4	

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap  
 to Class A stations from site # 01

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WJAR 50 PROVIDENCE RI BLCDDT 20090811ABO Site # 01  
 and station

SHORT TO: WVVH-CD 50 SOUTHAMPTON NY BLDTA 20110902AAP  
 040-57-20 0072-15-16  
 Req. separation 196.3 Actual separation 129.4 Short 66.9 km

SHORT TO: WRIW-CD 50 PROVIDENCE RI BLDTA 20120730AAD  
 041-51-53 0071-17-14  
 Req. separation 196.3 Actual separation 0.0 Short 196.3 km



**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 2**

**LANDMOBILE SPACING VIOLATIONS FOUND**

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 351.1km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

\*\*\*\*\*

**Start of Interference Analysis**

Channel	Call	Proposed Station City/State	ARN	
50	WJAR	PROVIDENCE RI	BLCDT	20090811ABO

Chans	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WEDW	BRIDGEPORT CT	170.7	LIC	BLEDT	20100513ABG
49	WLNE-TV	NEW BEDFORD MA	0.0	LIC	BLCDT	20040930BBS
49	WEKW-TV	KEENE NH	157.2	LIC	BLEDT	20120831AAG
50	WQAV-CD	GLASSBORO NJ	388.3	LIC	BLDTL	20140423AAN
50	WPHY-CD	TRENTON NJ	383.3	LIC	BLDTA	20110928AIU
50	WYPX-TV	AMSTERDAM NY	268.1	LIC	BLCDT	20040908ABO
50	WVVH-CD	SOUTHAMPTON NY	129.3	LIC	BLDTA	20110902AAP
50	WNEP-DR	SCRANTON PA	388.7	APP	BPRM	20080619ALP
50	WNEP-TV	SCRANTON PA	388.8	LIC	BMLCDT	20120410ABT
50	WRIW-CD	PROVIDENCE RI	0.0	LIC	BLDTA	20120730AAD

%%%

**Analysis of Interference to Affected Station 1**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
49	WEDW	BRIDGEPORT CT	BLEDT	-20100513ABG

Chans	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WRNNTV	KINGSTON NY	67.7	APP	BPRM	-20000328AAV
48	WRNN-TV	KINGSTON NY	67.8	LIC	BLCDT	-20140925AFG
49	WLNE-TV	NEW BEDFORD MA	170.7	LIC	BLCDT	-20040930BBS
49	WEKW-TV	KEENE NH	206.3	LIC	BLEDT	-20120831AAG
49	WWSI	ATLANTIC CITY NJ	221.4	LIC	BLCDT	-20131210CEO
50	WYPX-TV	AMSTERDAM NY	206.6	LIC	BLCDT	-20040908ABO
50	WNEP-DR	SCRANTON PA	224.6	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	224.7	LIC	BMLCDT	-20120410ABT
50	WJAR	PROVIDENCE RI	170.7	LIC	BLCDT	-20090811ABO

Proposal causes no interference

\*\*\*\*\*

**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 3**

**Analysis of Interference to Affected Station 2**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
49	WLNE-TV	NEW BEDFORD MA	BLCDT	-20040930BBS

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WRNNTV	KINGSTON NY	224.8	APP	BPRM	-20000328AAV
48	WRNN-TV	KINGSTON NY	224.9	LIC	BLCDT	-20140925AFG
49	WEDW	BRIDGEPORT CT	170.7	LIC	BLEDT	-20100513ABG
49	WEKW-TV	KEENE NH	157.2	LIC	BLEDT	-20120831AAG
49	WWSI	ATLANTIC CITY NJ	381.4	LIC	BLCDT	-20131210CEO
50	WJAR	PROVIDENCE RI	0.0	LIC	BLCDT	-20090811ABO

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 2  
 Before Analysis

Results for: 49A MA NEW BEDFORD BLCDT 20040930BBS LIC  
 HAAT 284.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	5548304	19846.8
not affected by terrain losses	5489192	19489.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	49559	554.2
lost to ATV IX only	49559	554.2
lost to all IX	49559	554.2

Potential Interfering Stations Included in above Scenario 1  
 49A CT BRIDGEPORT BLEDT 20100513ABG LIC  
 49A NH KEENE BLEDT 20120831AAG LIC

**After Analysis**

Results for: 49A MA NEW BEDFORD BLCDT 20040930BBS LIC  
 HAAT 284.0 m, ATV ERP 350.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	5548304	19846.8
not affected by terrain losses	5489192	19489.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60433	650.6
lost to ATV IX only	60433	650.6
lost to all IX	60433	650.6

Potential Interfering Stations Included in above Scenario 1  
 49A CT BRIDGEPORT BLEDT 20100513ABG LIC  
 49A NH KEENE BLEDT 20120831AAG LIC  
 50A RI PROVIDENCE BLCDT 20090811ABO LIC

Percent new IX = 0.1999%

Worst case new IX 0.1999% Scenario 1

#####

**Analysis of Interference to Affected Station 3**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
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**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 4**

49 WEKW-TV KEENE NH BLEDT -20120831AAG

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WLED-TV	LITTLETON NH	155.2	LIC	BLEDT	-20120831AAF
48	WRNNTV	KINGSTON NY	215.3	APP	BPRM	-20000328AAV
48	WRNN-TV	KINGSTON NY	215.4	LIC	BLCDDT	-20140925AFG
49	WEDW	BRIDGEPORT CT	206.3	LIC	BLEDT	-20100513ABG
49	WLNE-TV	NEW BEDFORD MA	157.2	LIC	BLCDDT	-20040930BBS
49	WWSI	ATLANTIC CITY NJ	420.7	LIC	BLCDDT	-20131210CEO
50	WYPX-TV	AMSTERDAM NY	147.6	LIC	BLCDDT	-20040908ABO
50	WJAR	PROVIDENCE RI	157.2	LIC	BLCDDT	-20090811ABO

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 49A NH KEENE BLEDT 20120831AAG LIC

HAAT 331.0 m, ATV ERP 112.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1062801	20591.9
not affected by terrain losses	540010	14755.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48921	1108.4
lost to ATV IX only	48921	1108.4
lost to all IX	48921	1108.4

Potential Interfering Stations Included in above Scenario 1

49A CT BRIDGEPORT	BLEDT	20100513ABG	LIC
49A MA NEW BEDFORD	BLCDDT	20040930BBS	LIC

**After Analysis**

Results for: 49A NH KEENE BLEDT 20120831AAG LIC

HAAT 331.0 m, ATV ERP 112.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1062801	20591.9
not affected by terrain losses	540010	14755.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48921	1108.4
lost to ATV IX only	48921	1108.4
lost to all IX	48921	1108.4

Potential Interfering Stations Included in above Scenario 1

49A CT BRIDGEPORT	BLEDT	20100513ABG	LIC
49A MA NEW BEDFORD	BLCDDT	20040930BBS	LIC
50A RI PROVIDENCE	BLCDDT	20090811ABO	LIC

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

**Analysis of Interference to Affected Station 4**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
50	WQAV-CD	GLASSBORO NJ	BLDTL	-20140423AAN

**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 5**

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WWSI	ATLANTIC CITY NJ	21.5	LIC	BLCDT	-20131210CEO
50	WDCW	WASHINGTON DC	207.0	LIC	BLCDT	-20101109AAT
50	WPHY-CD	TRENTON NJ	68.9	LIC	BLDTA	-20110928AIU
50	WYPX-TV	AMSTERDAM NY	384.0	LIC	BLCDT	-20040908ABO
50	WBQM-LD	NEW YORK NY	148.6	CP	BPDTL	-20120402ARL
50	WNEP-DR	SCRANTON PA	204.4	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	204.4	LIC	BMLCDT	-20120410ABT
50	WGNT	PORTSMOUTH VA	339.8	LIC	BLCDT	-20020718AAK
50	WGNT-DR	PORTSMOUTH VA	339.8	LIC	BPRM	-20000413AAH
50	WJAR	PROVIDENCE RI	388.3	LIC	BLCDT	-20090811ABO

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WPHY-CD	TRENTON NJ	BLDTA	-20110928AIU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WWSI	ATLANTIC CITY NJ	48.1	LIC	BLCDT	-20131210CEO
50	WDCW	WASHINGTON DC	200.0	LIC	BLCDT	-20101109AAT
50	WQAV-CD	GLASSBORO NJ	68.9	LIC	BLDTL	-20140423AAN
50	WYPX-TV	AMSTERDAM NY	334.3	LIC	BLCDT	-20040908ABO
50	WBQM-LD	NEW YORK NY	128.1	CP	BPDTL	-20120402ARL
50	W50EL-D	PORT JERVIS NY	144.5	CP	BDCCDTL	-20110630AFX
50	WPCB-TV	GREENSBURG PA	391.1	LIC	BLCDT	-20030409ABC
50	WNEP-DR	SCRANTON PA	136.0	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	136.0	LIC	BMLCDT	-20120410ABT
50	WGNT	PORTSMOUTH VA	379.0	LIC	BLCDT	-20020718AAK
50	WGNT-DR	PORTSMOUTH VA	379.0	LIC	BPRM	-20000413AAH
51	WNJN	MONTCLAIR NJ	121.4	LIC	BLEDT	-20061121ADG
50	WJAR	PROVIDENCE RI	383.3	LIC	BLCDT	-20090811ABO

Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WYPX-TV	AMSTERDAM NY	BLCDT	-20040908ABO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WEDW	BRIDGEPORT CT	206.6	LIC	BLEDT	-20100513ABG
49	WEKW-TV	KEENE NH	147.6	LIC	BLEDT	-20120831AAG
50	WNEP-DR	SCRANTON PA	243.8	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	244.0	LIC	BMLCDT	-20120410ABT
50	WJAR	PROVIDENCE RI	268.1	LIC	BLCDT	-20090811ABO

Total scenarios = 3

Result key: 3

Scenario 1 Affected station 6

Before Analysis

Results for: 50A NY AMSTERDAM BLCDT 20040908ABO LIC

**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 6**

HAAT 207.0 m, ATV ERP 450.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3838	187.7
lost to ATV IX only	3838	187.7
lost to all IX	3838	187.7

Potential Interfering Stations Included in above Scenario 1  
 50A PA SCRANTON BMLCDT 20120410ABT LIC

**After Analysis**

Results for: 50A NY AMSTERDAM BLCDDT 20040908ABO LIC  
 HAAT 207.0 m, ATV ERP 450.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5866	267.5
lost to ATV IX only	5866	267.5
lost to all IX	5866	267.5

Potential Interfering Stations Included in above Scenario 1  
 50A PA SCRANTON BMLCDT 20120410ABT LIC  
 50A RI PROVIDENCE BLCDDT 20090811ABO LIC

Percent new IX = 0.2048%

Result key: 4  
 Scenario 2 Affected station 6  
 Before Analysis

Results for: 50A NY AMSTERDAM BLCDDT 20040908ABO LIC  
 HAAT 207.0 m, ATV ERP 450.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3904	203.6
lost to ATV IX only	3904	203.6
lost to all IX	3904	203.6

Potential Interfering Stations Included in above Scenario 2  
 50A PA SCRANTON BPRM 20080619ALP APP  
 50A PA SCRANTON BMLCDT 20120410ABT LIC

**After Analysis**

Results for: 50A NY AMSTERDAM BLCDDT 20040908ABO LIC  
 HAAT 207.0 m, ATV ERP 450.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5932	283.5
lost to ATV IX only	5932	283.5
lost to all IX	5932	283.5

Potential Interfering Stations Included in above Scenario 2  
 50A PA SCRANTON BPRM 20080619ALP APP

**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 7**

50A PA SCRANTON	BMLCDT	20120410ABT	LIC
50A RI PROVIDENCE	BLCDDT	20090811ABO	LIC

Percent new IX = 0.2048%

Result key: 5  
Scenario 3 Affected station 6  
Before Analysis

Results for: 50A NY AMSTERDAM BLCDDT 20040908ABO LIC  
HAAT 207.0 m, ATV ERP 450.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3838	187.7
lost to ATV IX only	3838	187.7
lost to all IX	3838	187.7

Potential Interfering Stations Included in above Scenario 3  
50A PA SCRANTON BMLCDT 20120410ABT LIC

After Analysis

Results for: 50A NY AMSTERDAM BLCDDT 20040908ABO LIC  
HAAT 207.0 m, ATV ERP 450.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1117718	17057.5
not affected by terrain losses	994123	13795.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5866	267.5
lost to ATV IX only	5866	267.5
lost to all IX	5866	267.5

Potential Interfering Stations Included in above Scenario 3  
50A PA SCRANTON BMLCDT 20120410ABT LIC  
50A RI PROVIDENCE BLCDDT 20090811ABO LIC

Percent new IX = 0.2048%

Worst case new IX 0.2048% Scenario 2

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WVH-CD	SOUTHAMPTON NY	BLDTA -20110902AAP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	WEDW	BRIDGEPORT CT	85.9	LIC	BLEDT -20100513ABG
49	WLNE-TV	NEW BEDFORD MA	129.3	LIC	BLCDDT -20040930BBS
50	WYPX-TV	AMSTERDAM NY	276.1	LIC	BLCDDT -20040908ABO
50	WBQM-LD	NEW YORK NY	145.8	CP	BPDTL -20120402ARL
50	WNEP-DR	SCRANTON PA	304.0	APP	BPRM -20080619ALP
50	WNEP-TV	SCRANTON PA	304.1	LIC	BMLCDT -20120410ABT
50	WRIW-CD	PROVIDENCE RI	129.3	LIC	BLDTA -20120730AAD
50	WJAR	PROVIDENCE RI	129.3	LIC	BLCDDT -20090811ABO

Total scenarios = 1

**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 8**

Result key: 6  
 Scenario 1 Affected station 7  
 Before Analysis

Results for: 50A NY SOUTHAMPTON BLDTA 20110902AAP LIC  
 HAAT 0.0 m, ATV ERP 15.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	69407	1139.1
not affected by terrain losses	69407	1139.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 50A NY SOUTHAMPTON BLDTA 20110902AAP LIC  
 HAAT 0.0 m, ATV ERP 15.0 kW  

	POPULATION	AREA (sq km)
within Noise Limited Contour	69407	1139.1
not affected by terrain losses	69407	1139.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	61	8.1
lost to ATV IX only	61	8.1
lost to all IX	61	8.1

Potential Interfering Stations Included in above Scenario 1  
 50A RI PROVIDENCE BLCDDT 20090811ABO LIC

Percent new IX = 0.0879%

Worst case new IX 0.0879% Scenario 1

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**Analysis of Interference to Affected Station 8**

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WNEP-DR	SCRANTON PA	BPRM -20080619ALP

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	WEDW	BRIDGEPORT CT	224.6	LIC	BLEDT -20100513ABG
49	WWSI	ATLANTIC CITY NJ	183.0	LIC	BLCDDT -20131210CEO
50	WDCW	WASHINGTON DC	265.8	LIC	BLCDDT -20101109AAT
50	WYPX-TV	AMSTERDAM NY	243.8	LIC	BLCDDT -20040908ABO
50	WQLN	ERIE PA	361.5	LIC	BLEDT -20130603AKJ
50	WPCB-TV	GREENSBURG PA	340.7	LIC	BLCDDT -20030409ABC
50	WNEP-TV	SCRANTON PA	0.1	LIC	BMLCDDT -20120410ABT
51	WNJN	MONTCLAIR NJ	144.3	LIC	BLEDT -20061121ADG
50	WJAR	PROVIDENCE RI	388.7	LIC	BLCDDT -20090811ABO

Proposal causes no interference

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**Analysis of Interference to Affected Station 9**

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 9**

50 WNEP-TV SCRANTON PA BMLCDT -20120410ABT

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WEDW	BRIDGEPORT CT	224.7	LIC	BLEDT	-20100513ABG
49	WWSI	ATLANTIC CITY NJ	183.0	LIC	BLCDDT	-20131210CEO
50	WDCW	WASHINGTON DC	265.6	LIC	BLCDDT	-20101109AAT
50	WYPX-TV	AMSTERDAM NY	244.0	LIC	BLCDDT	-20040908ABO
50	WQLN	ERIE PA	361.4	LIC	BLEDT	-20130603AKJ
50	WPCB-TV	GREENSBURG PA	340.6	LIC	BLCDDT	-20030409ABC
50	WNEP-DR	SCRANTON PA	0.1	APP	BPRM	-20080619ALP
51	WNJN	MONTCLAIR NJ	144.4	LIC	BLEDT	-20061121ADG
50	WJAR	PROVIDENCE RI	388.8	LIC	BLCDDT	-20090811ABO

Proposal causes no interference

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**Analysis of Interference to Affected Station 10**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
50	WRIW-CD	PROVIDENCE RI	BLDTA	-20120730AAD

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WLNE-TV	NEW BEDFORD MA	0.0	LIC	BLCDDT	-20040930BBS
50	WYPX-TV	AMSTERDAM NY	268.1	LIC	BLCDDT	-20040908ABO
50	WVH-CD	SOUTHAMPTON NY	129.3	LIC	BLDTA	-20110902AAP
50	WNEP-DR	SCRANTON PA	388.7	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	388.8	LIC	BMLCDT	-20120410ABT
50	WJAR	PROVIDENCE RI	0.0	LIC	BLCDDT	-20090811ABO

Total scenarios = 1

Result key: 7

Scenario 1 Affected station 10

Before Analysis

Results for: 50A RI PROVIDENCE BLDTA 20120730AAD LIC

HAAT 0.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1126893	3241.9
not affected by terrain losses	1125509	3209.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	198322	703.0
lost to ATV IX only	198322	703.0
lost to all IX	198322	703.0

Potential Interfering Stations Included in above Scenario 1

49A MA NEW BEDFORD BLCDDT 20040930BBS LIC

After Analysis

Results for: 50A RI PROVIDENCE BLDTA 20120730AAD LIC

HAAT 0.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1126893	3241.9
not affected by terrain losses	1125509	3209.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1068012	2824.1
lost to ATV IX only	1068012	2824.1
lost to all IX	1068012	2824.1



**Appendix B**  
**WJAR - Providence, Rhode Island**  
**Channel 50 - 1000 kW - Page 10**

Potential Interfering Stations Included in above Scenario 1  
 49A MA NEW BEDFORD BLCDT 20040930BBS LIC  
 50A RI PROVIDENCE BLCDT 20090811ABO LIC

The following station failed the de minimis interference criteria.

50D RI PROVIDENCE BLCDT 20090811ABO  
 ERP 1000.00 kW HAAT 306.0 m RCAMSL 334.6 m  
 Antenna CDB 00000000087351

Due to interference to the following station and scenario: 1

50D RI PROVIDENCE BLDTA 20120730AAD  
 ERP 15.00 kW HAAT 0.0 m RCAMSL 250.0 m  
 Antenna CDB 00000000020735

Percent new interference from proposal: 93.7988 to BLDTA 20120730AAD

Worst case new IX 93.7988% Scenario 1

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**Analysis of Interference to Affected Station 11**

**Analysis of current record**

Channel	Call	City/State	Application	Ref. No.
50	WJAR	PROVIDENCE RI	BLCDT	-20090811ABO

**Stations Potentially Affecting This Station**

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WEDW	BRIDGEPORT CT	170.7	LIC	BLEDT	-20100513ABG
49	WLNE-TV	NEW BEDFORD MA	0.0	LIC	BLCDT	-20040930BBS
49	WEKW-TV	KEENE NH	157.2	LIC	BLEDT	-20120831AAG
50	WYPX-TV	AMSTERDAM NY	268.1	LIC	BLCDT	-20040908ABO
50	WNEP-DR	SCRANTON PA	388.7	APP	BPRM	-20080619ALP
50	WNEP-TV	SCRANTON PA	388.8	LIC	BMLCDT	-20120410ABT

Total scenarios = 1

Result key: 8

Scenario 1 Affected station 11

Before Analysis

Results for: 50A RI PROVIDENCE BLCDT 20090811ABO LIC

HAAT 306.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6343376	25737.8
not affected by terrain losses	6262680	25135.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11941	96.4
lost to ATV IX only	11941	96.4
lost to all IX	11941	96.4

Potential Interfering Stations Included in above Scenario 1

50A NY AMSTERDAM BLCDT 20040908ABO LIC

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