

Purpose and Description of Requested STA

This STA is requested in conjunction with the ongoing work related to development of the next-generation TV standard currently underway by the Advanced Television Systems Committee (ATSC 3.0). The facility requested in this STA will be used to test the various components and modes being proposed for the new standard so as to verify and better understand the capabilities of the new system and how they could be integrated and fully utilized by the broadcast industry.

The proposed facility will operate on channel 39 (620-626 MHz) with a directional antenna and an effective radiated power (ERP) of 50 kW. The antenna to be utilized is an ERI ETU-2U7-ESC5-39 (see parameters below) and will be side mounted (530 m AGL - COR) on an existing registered tower (ASR: 1006703) with an overall tower height of 609.5 m AGL. The installation will not increase the overall height of the tower; therefore, no new tower studies will be required.

The directional antenna is designed and will be oriented so as to protect all existing stations. OET-69 studies were performed (results attached) to ascertain if any new interference will be caused by the proposed facility. Two separate OET-69 studies were performed, one as a full service DTV proposal and a second as a digital LPTV in order to show protection to non-full service stations. The results of the studies indicate that no predicted new interference above the de minimis limit would be caused to any existing full service, Class A, LPTV or translator stations.

The proposed facility will comply with all regulations related to RF exposure as well as out-of-band emissions by use of a mask filter that complies with current emission limits.

The applicant will also coordinate all operation with the Society of Broadcast Engineers (SBE) local frequency coordinator to avoid conflicts with other uses of channel 39 in the area and will make the required notifications to local medical facilities before commencing operation.

ERI Model: ETU-2U7-ESC5-39

AZIMUTH PATTERN - HORIZONTAL POLARIZATION

PEAK GAIN 15.45 dB

Pattern without Rotation - Proposed facility will be rotated 312.5 degrees from true north

ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD
0	1.000	61	0.210	122	0.110	183	0.070	244	0.100	305	0.280
1	1.000	62	0.200	123	0.110	184	0.060	245	0.100	306	0.290
2	1.000	63	0.190	124	0.110	185	0.060	246	0.100	307	0.310
3	1.000	64	0.180	125	0.100	186	0.050	247	0.100	308	0.320
4	0.990	65	0.170	126	0.100	187	0.050	248	0.100	309	0.330
5	0.990	66	0.160	127	0.100	188	0.050	249	0.090	310	0.340
6	0.990	67	0.150	128	0.100	189	0.040	250	0.090	311	0.360
7	0.980	68	0.150	129	0.100	190	0.040	251	0.090	312	0.380
8	0.970	69	0.140	130	0.100	191	0.040	252	0.090	313	0.400
9	0.970	70	0.130	131	0.100	192	0.030	253	0.080	314	0.410
10	0.960	71	0.130	132	0.100	193	0.030	254	0.080	315	0.430
11	0.950	72	0.120	133	0.090	194	0.030	255	0.080	316	0.450
12	0.940	73	0.110	134	0.090	195	0.030	256	0.080	317	0.460
13	0.940	74	0.110	135	0.090	196	0.030	257	0.070	318	0.480
14	0.930	75	0.110	136	0.080	197	0.020	258	0.070	319	0.500
15	0.920	76	0.100	137	0.080	198	0.020	259	0.070	320	0.520
16	0.910	77	0.090	138	0.080	199	0.020	260	0.070	321	0.540
17	0.890	78	0.090	139	0.080	200	0.010	261	0.060	322	0.550
18	0.880	79	0.080	140	0.070	201	0.010	262	0.060	323	0.560
19	0.860	80	0.080	141	0.070	202	0.010	263	0.060	324	0.580
20	0.840	81	0.080	142	0.060	203	0.020	264	0.060	325	0.600
21	0.830	82	0.070	143	0.060	204	0.020	265	0.050	326	0.610
22	0.820	83	0.070	144	0.060	205	0.020	266	0.050	327	0.620
23	0.810	84	0.060	145	0.050	206	0.020	267	0.050	328	0.640
24	0.790	85	0.060	146	0.050	207	0.020	268	0.050	329	0.660
25	0.770	86	0.060	147	0.050	208	0.020	269	0.050	330	0.690
26	0.760	87	0.060	148	0.040	209	0.030	270	0.050	331	0.700

27	0.740	88	0.050	149	0.040	210	0.030	271	0.050	332	0.720
28	0.720	89	0.050	150	0.030	211	0.040	272	0.050	333	0.740
29	0.700	90	0.050	151	0.030	212	0.040	273	0.060	334	0.760
30	0.690	91	0.050	152	0.020	213	0.050	274	0.060	335	0.770
31	0.660	92	0.050	153	0.020	214	0.050	275	0.060	336	0.790
32	0.640	93	0.050	154	0.020	215	0.050	276	0.060	337	0.810
33	0.620	94	0.050	155	0.020	216	0.060	277	0.070	338	0.820
34	0.610	95	0.050	156	0.020	217	0.060	278	0.070	339	0.830
35	0.600	96	0.060	157	0.020	218	0.060	279	0.080	340	0.840
36	0.580	97	0.060	158	0.010	219	0.070	280	0.080	341	0.860
37	0.560	98	0.060	159	0.010	220	0.070	281	0.080	342	0.880
38	0.550	99	0.060	160	0.010	221	0.080	282	0.090	343	0.890
39	0.540	100	0.070	161	0.020	222	0.080	283	0.090	344	0.910
40	0.520	101	0.070	162	0.020	223	0.080	284	0.100	345	0.920
41	0.500	102	0.070	163	0.020	224	0.080	285	0.110	346	0.930
42	0.480	103	0.070	164	0.030	225	0.090	286	0.110	347	0.940
43	0.460	104	0.080	165	0.030	226	0.090	287	0.110	348	0.940
44	0.450	105	0.080	166	0.030	227	0.090	288	0.120	349	0.950
45	0.430	106	0.080	167	0.030	228	0.100	289	0.130	350	0.960
46	0.410	107	0.080	168	0.030	229	0.100	290	0.130	351	0.970
47	0.400	108	0.090	169	0.040	230	0.100	291	0.140	352	0.970
48	0.380	109	0.090	170	0.040	231	0.100	292	0.150	353	0.980
49	0.360	110	0.090	171	0.040	232	0.100	293	0.150	354	0.990
50	0.340	111	0.090	172	0.050	233	0.100	294	0.160	355	0.990
51	0.330	112	0.100	173	0.050	234	0.100	295	0.170	356	0.990
52	0.320	113	0.100	174	0.050	235	0.100	296	0.180	357	1.000
53	0.310	114	0.100	175	0.060	236	0.110	297	0.190	358	1.000
54	0.290	115	0.100	176	0.060	237	0.110	298	0.200	359	1.000
55	0.280	116	0.100	177	0.070	238	0.110	299	0.210	360	1.000
56	0.270	117	0.100	178	0.080	239	0.110	300	0.220		
57	0.260	118	0.100	179	0.090	240	0.110	301	0.240		
58	0.250	119	0.110	180	0.100	241	0.110	302	0.250		
59	0.240	120	0.110	181	0.090	242	0.100	303	0.260		
60	0.220	121	0.110	182	0.080	243	0.100	304	0.270		

AZIMUTH PATTERN - VERTICAL POLARIZATION**PEAK GAIN 14.40 dB**

ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD
0	0.490	61	0.194	122	0.040	183	0.034	244	0.046	305	0.228
1	0.490	62	0.182	123	0.034	184	0.029	245	0.046	306	0.234
2	0.490	63	0.177	124	0.034	185	0.029	246	0.046	307	0.239
3	0.490	64	0.177	125	0.034	186	0.029	247	0.051	308	0.251
4	0.490	65	0.171	126	0.034	187	0.029	248	0.051	309	0.257
5	0.485	66	0.165	127	0.029	188	0.029	249	0.051	310	0.262
6	0.485	67	0.160	128	0.029	189	0.023	250	0.051	311	0.262
7	0.485	68	0.154	129	0.029	190	0.023	251	0.051	312	0.274
8	0.485	69	0.148	130	0.029	191	0.023	252	0.051	313	0.279
9	0.479	70	0.143	131	0.029	192	0.023	253	0.051	314	0.291
10	0.479	71	0.131	132	0.029	193	0.023	254	0.051	315	0.296
11	0.473	72	0.125	133	0.029	194	0.017	255	0.051	316	0.296
12	0.473	73	0.120	134	0.029	195	0.017	256	0.051	317	0.308
13	0.473	74	0.120	135	0.023	196	0.017	257	0.051	318	0.314
14	0.467	75	0.114	136	0.023	197	0.017	258	0.051	319	0.319
15	0.467	76	0.103	137	0.023	198	0.011	259	0.057	320	0.331
16	0.462	77	0.097	138	0.023	199	0.006	260	0.057	321	0.331
17	0.456	78	0.091	139	0.023	200	0.006	261	0.057	322	0.336
18	0.450	79	0.086	140	0.023	201	0.006	262	0.057	323	0.342
19	0.445	80	0.086	141	0.023	202	0.006	263	0.057	324	0.353
20	0.439	81	0.080	142	0.017	203	0.017	264	0.057	325	0.359
21	0.439	82	0.074	143	0.017	204	0.017	265	0.051	326	0.371
22	0.439	83	0.074	144	0.017	205	0.017	266	0.051	327	0.371
23	0.433	84	0.063	145	0.017	206	0.017	267	0.051	328	0.376
24	0.428	85	0.063	146	0.017	207	0.017	268	0.051	329	0.382
25	0.422	86	0.057	147	0.017	208	0.017	269	0.051	330	0.393
26	0.410	87	0.057	148	0.017	209	0.017	270	0.051	331	0.399
27	0.405	88	0.051	149	0.017	210	0.017	271	0.051	332	0.405
28	0.405	89	0.051	150	0.017	211	0.017	272	0.051	333	0.405

29	0.399	90	0.051	151	0.017	212	0.017	273	0.057	334	0.410
30	0.393	91	0.051	152	0.017	213	0.017	274	0.057	335	0.422
31	0.382	92	0.051	153	0.017	214	0.017	275	0.063	336	0.428
32	0.376	93	0.051	154	0.017	215	0.017	276	0.063	337	0.433
33	0.371	94	0.051	155	0.017	216	0.017	277	0.068	338	0.439
34	0.371	95	0.051	156	0.017	217	0.017	278	0.074	339	0.439
35	0.359	96	0.057	157	0.011	218	0.017	279	0.074	340	0.439
36	0.353	97	0.057	158	0.006	219	0.023	280	0.080	341	0.445
37	0.342	98	0.057	159	0.006	220	0.023	281	0.080	342	0.450
38	0.336	99	0.057	160	0.006	221	0.023	282	0.086	343	0.456
39	0.331	100	0.057	161	0.006	222	0.023	283	0.086	344	0.462
40	0.331	101	0.057	162	0.011	223	0.023	284	0.103	345	0.467
41	0.319	102	0.051	163	0.017	224	0.023	285	0.120	346	0.467
42	0.314	103	0.051	164	0.017	225	0.023	286	0.120	347	0.473
43	0.308	104	0.051	165	0.017	226	0.029	287	0.120	348	0.473
44	0.296	105	0.051	166	0.017	227	0.029	288	0.125	349	0.473
45	0.296	106	0.051	167	0.023	228	0.029	289	0.131	350	0.479
46	0.291	107	0.051	168	0.023	229	0.029	290	0.143	351	0.479
47	0.279	108	0.051	169	0.023	230	0.029	291	0.148	352	0.485
48	0.274	109	0.051	170	0.023	231	0.029	292	0.154	353	0.485
49	0.262	110	0.051	171	0.023	232	0.029	293	0.160	354	0.485
50	0.262	111	0.051	172	0.029	233	0.029	294	0.165	355	0.485
51	0.257	112	0.051	173	0.029	234	0.034	295	0.171	356	0.490
52	0.251	113	0.051	174	0.029	235	0.034	296	0.177	357	0.490
53	0.239	114	0.046	175	0.029	236	0.034	297	0.177	358	0.490
54	0.234	115	0.046	176	0.029	237	0.034	298	0.182	359	0.490
55	0.228	116	0.046	177	0.034	238	0.040	299	0.194	360	0.490
56	0.228	117	0.046	178	0.040	239	0.040	300	0.194		
57	0.217	118	0.040	179	0.046	240	0.040	301	0.200		
58	0.211	119	0.040	180	0.051	241	0.040	302	0.211		
59	0.200	120	0.040	181	0.046	242	0.040	303	0.217		
60	0.194	121	0.040	182	0.040	243	0.046	304	0.228		

ELEVATION PATTERN**BEAM TILT 1.5 degrees**

ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD
-5.00	0.500	10.00	0.250	25.00	0.110	40.00	0.070	55.00	0.070	70.00	0.020	85.00	0.030
-4.75	0.535	10.25	0.215	25.25	0.110	40.25	0.070	55.25	0.070	70.25	0.015	85.25	0.030
-4.50	0.570	10.50	0.190	25.50	0.110	40.50	0.070	55.50	0.070	70.50	0.010	85.50	0.030
-4.25	0.595	10.75	0.165	25.75	0.115	40.75	0.070	55.75	0.070	70.75	0.010	85.75	0.030
-4.00	0.630	11.00	0.140	26.00	0.120	41.00	0.070	56.00	0.080	71.00	0.010	86.00	0.030
-3.75	0.655	11.25	0.115	26.25	0.120	41.25	0.080	56.25	0.080	71.25	0.010	86.25	0.030
-3.50	0.690	11.50	0.090	26.50	0.120	41.50	0.080	56.50	0.080	71.50	0.010	86.50	0.030
-3.25	0.715	11.75	0.065	26.75	0.120	41.75	0.080	56.75	0.080	71.75	0.010	86.75	0.030
-3.00	0.740	12.00	0.040	27.00	0.120	42.00	0.080	57.00	0.080	72.00	0.010	87.00	0.030
-2.75	0.775	12.25	0.025	27.25	0.120	42.25	0.080	57.25	0.080	72.25	0.000	87.25	0.030
-2.50	0.800	12.50	0.000	27.50	0.130	42.50	0.080	57.50	0.080	72.50	0.000	87.50	0.030
-2.25	0.825	12.75	0.015	27.75	0.130	42.75	0.080	57.75	0.080	72.75	0.000	87.75	0.030
-2.00	0.840	13.00	0.040	28.00	0.130	43.00	0.080	58.00	0.080	73.00	0.000	88.00	0.030
-1.75	0.865	13.25	0.060	28.25	0.130	43.25	0.075	58.25	0.080	73.25	0.000	88.25	0.030
-1.50	0.890	13.50	0.080	28.50	0.130	43.50	0.070	58.50	0.080	73.50	0.000	88.50	0.030
-1.25	0.905	13.75	0.095	28.75	0.130	43.75	0.070	58.75	0.080	73.75	0.000	88.75	0.030
-1.00	0.920	14.00	0.110	29.00	0.120	44.00	0.070	59.00	0.080	74.00	0.000	89.00	0.030
-0.75	0.940	14.25	0.120	29.25	0.120	44.25	0.070	59.25	0.080	74.25	0.010	89.25	0.030
-0.50	0.950	14.50	0.130	29.50	0.120	44.50	0.070	59.50	0.080	74.50	0.010	89.50	0.030
-0.25	0.965	14.75	0.140	29.75	0.120	44.75	0.060	59.75	0.080	74.75	0.010	89.75	0.030
0.00	0.980	15.00	0.150	30.00	0.120	45.00	0.060	60.00	0.080	75.00	0.010	90.00	0.030
0.25	0.985	15.25	0.160	30.25	0.120	45.25	0.060	60.25	0.070	75.25	0.010		
0.50	0.990	15.50	0.170	30.50	0.110	45.50	0.060	60.50	0.070	75.50	0.010		
0.75	0.995	15.75	0.170	30.75	0.110	45.75	0.060	60.75	0.070	75.75	0.010		
1.00	1.000	16.00	0.180	31.00	0.110	46.00	0.050	61.00	0.070	76.00	0.010		
1.25	1.000	16.25	0.180	31.25	0.100	46.25	0.050	61.25	0.070	76.25	0.010		
1.50	1.000	16.50	0.180	31.50	0.100	46.50	0.050	61.50	0.070	76.50	0.010		
1.75	1.000	16.75	0.180	31.75	0.090	46.75	0.050	61.75	0.070	76.75	0.010		
2.00	1.000	17.00	0.180	32.00	0.090	47.00	0.050	62.00	0.070	77.00	0.010		

2.25	0.990	17.25	0.180	32.25	0.085	47.25	0.050	62.25	0.065	77.25	0.010
2.50	0.980	17.50	0.180	32.50	0.080	47.50	0.050	62.50	0.060	77.50	0.010
2.75	0.970	17.75	0.175	32.75	0.075	47.75	0.050	62.75	0.060	77.75	0.015
3.00	0.960	18.00	0.170	33.00	0.070	48.00	0.050	63.00	0.060	78.00	0.010
3.25	0.950	18.25	0.170	33.25	0.060	48.25	0.050	63.25	0.060	78.25	0.020
3.50	0.940	18.50	0.170	33.50	0.060	48.50	0.050	63.50	0.060	78.50	0.020
3.75	0.915	18.75	0.160	33.75	0.050	48.75	0.050	63.75	0.060	78.75	0.020
4.00	0.900	19.00	0.160	34.00	0.050	49.00	0.050	64.00	0.060	79.00	0.020
4.25	0.885	19.25	0.150	34.25	0.040	49.25	0.050	64.25	0.050	79.25	0.020
4.50	0.860	19.50	0.150	34.50	0.030	49.50	0.050	64.50	0.050	79.50	0.020
4.75	0.845	19.75	0.145	34.75	0.030	49.75	0.050	64.75	0.050	79.75	0.020
5.00	0.820	20.00	0.140	35.00	0.020	50.00	0.050	65.00	0.050	80.00	0.020
5.25	0.795	20.25	0.140	35.25	0.015	50.25	0.050	65.25	0.050	80.25	0.020
5.50	0.770	20.50	0.140	35.50	0.010	50.50	0.050	65.50	0.040	80.50	0.020
5.75	0.745	20.75	0.130	35.75	0.005	50.75	0.050	65.75	0.040	80.75	0.020
6.00	0.720	21.00	0.130	36.00	0.000	51.00	0.050	66.00	0.040	81.00	0.020
6.25	0.695	21.25	0.130	36.25	0.010	51.25	0.050	66.25	0.040	81.25	0.020
6.50	0.670	21.50	0.120	36.50	0.010	51.50	0.050	66.50	0.040	81.50	0.020
6.75	0.640	21.75	0.120	36.75	0.020	51.75	0.050	66.75	0.040	81.75	0.020
7.00	0.610	22.00	0.120	37.00	0.020	52.00	0.050	67.00	0.040	82.00	0.020
7.25	0.580	22.25	0.120	37.25	0.030	52.25	0.050	67.25	0.030	82.25	0.020
7.50	0.550	22.50	0.120	37.50	0.030	52.50	0.050	67.50	0.030	82.50	0.020
7.75	0.520	22.75	0.120	37.75	0.040	52.75	0.050	67.75	0.030	82.75	0.020
8.00	0.490	23.00	0.110	38.00	0.040	53.00	0.050	68.00	0.030	83.00	0.020
8.25	0.455	23.25	0.110	38.25	0.050	53.25	0.060	68.25	0.030	83.25	0.020
8.50	0.430	23.50	0.110	38.50	0.050	53.50	0.060	68.50	0.020	83.50	0.020
8.75	0.395	23.75	0.110	38.75	0.050	53.75	0.060	68.75	0.020	83.75	0.020
9.00	0.370	24.00	0.110	39.00	0.060	54.00	0.060	69.00	0.020	84.00	0.020
9.25	0.335	24.25	0.110	39.25	0.060	54.25	0.060	69.25	0.020	84.25	0.020
9.50	0.300	24.50	0.110	39.50	0.060	54.50	0.060	69.50	0.020	84.50	0.030
9.75	0.275	24.75	0.110	39.75	0.070	54.75	0.070	69.75	0.020	84.75	0.030

ASR Registration Search

Registration 1006703[Map Registration](#)**Registration Detail**

Reg Number	1006703	Status	Constructed
File Number	A0843136	Constructed	06/17/1991
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	35-40-35.1 N 078-32-07.2 W	Address	5033 TV TOWER RD
City, State	GARNER , NC		
Zip	27529	County	WAKE
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	98.7	Overall Height Above Ground (AGL)	609.5
Overall Height Above Mean Sea Level	708.2	Overall Height Above Ground w/o Appurtenances	569.7

Painting and Lighting Specifications

FAA Chapters 4, 6, 9

Paint and Light in Accordance with FAA Circular Number 70/7460-1G

FAA Notification

FAA Study	2003-ASO-4390-OE	FAA Issue Date	09/24/2003
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Owner & Contact Information

FRN	0010988871	Owner Entity Type	Limited Liability Partnership
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Owner

AUBURN TOWER PARTNERSHIP
 Attention To: Jennifer Venable
 2619 WESTERN BLVD.
 RALEIGH , NC 27606

P: (919)821-8933
 F:
 E: jvenable@cbc-raleigh.com

Contact

O'CONNOR , DAVID A ESQ
 2300 N STREET, NW, SUITE 700
 WASHINGTON , DC 20037

P: (202)383-3429
 F:
 E: doconnor@wbklaw.com

Last Action Status

Status	Constructed	Received	07/09/2013
Purpose	Admin Update	Entered	07/09/2013
Mode	Interactive		

Related Applications

07/09/2013 A0843136 - Admin Update (AU)
01/05/2010 A0661192 - Admin Update (AU)
12/08/2009 A0659022 - Admin Update (AU)

Related applications (7)

Comments**Comments**

10/30/1996 HIGH INTENSITY WHITE STROBE LIGHTS.

History**Date****Event**

07/10/2013 Registration Printed
07/09/2013 ASR Application receipt email sent: Tower email
07/09/2013 Administrative Update Received

All History (17)

Automated Letters

07/10/2013 Authorization, Reference
01/06/2010 Authorization, Reference
12/09/2009 Authorization, Reference

All letters (6)

CLOSE WINDOW

STUDY AS FULL SERVICE DTV

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

Date: 05-24-2016 Time: 15:45:20

Record Selected for Analysis

WRAL_3.0 USERRECORD-01 RALEIGH ZZ US
Channel 39 ERP 50. kW HAAT 548. m RCAMSL 00629 m
Latitude 035-40-35 Longitude 0078-32-08
Status APP Zone 2 Border Site number: 01
Dir Antenna Make usr Model ERI_etu_2uo_c5 Beam tilt N Ref Azimuth 312.5
Last update Cutoff date Docket
Comments
Applicant

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	ERP	HAAT	41.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	7.314	562.1	77.096
45.0	0.150	557.1	51.882
90.0	0.297	545.2	55.785
135.0	0.357	550.1	57.010
180.0	0.423	553.2	58.110
225.0	0.164	543.0	52.138
270.0	11.121	530.1	78.747
315.0	48.308	544.0	90.692

Evaluation toward Class A Stations from site # 01

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

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	44.0	LIC	BLCDT	20060912ACZ
39	WJAL-DR	SILVER SPRING MD	384.8	APP	BPRM	20060424AEX
39	WMYT-TV	ROCK HILL SC	239.6	LIC	BLANK	0000001541
39	WKTC	SUMTER SC	267.1	LIC	BLCDT	20071022BDD
39	WLPX-TV	CHARLESTON WV	423.0	LIC	BLCDT	20020510AAM
40	WHKY-TV	HICKORY NC	200.2	LIC	BLCDT	20110927ACZ +
40	WTKR	NORFOLK VA	221.4	LIC	BLCDT	20050617AAW

+ Indicates station is part of a DTS

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	BLCDT	-20060912ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WEMT	GREENEVILLE TN	300.2	LIC	BLCDT	-20111130IDH
39	WMYT-TV	ROCK HILL SC	197.9	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	225.0	LIC	BLCDT	-20071022BDD
39	WRAL_3.0	RALEIGH ZZ	44.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 38A NC FAYETTEVILLE BLCDT 20060912ACZ LIC
HAAT 509.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2932642	34309.6
not affected by terrain losses	2916375	33793.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3417	40.3
lost to ATV IX only	3417	40.3
lost to all IX	3417	40.3

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE	BLCDT	20111130IDH	LIC
39A SC ROCK HILL	BLANK	0000001541	LIC

After Analysis

Results for: 38A NC FAYETTEVILLE BLCDT 20060912ACZ LIC
HAAT 509.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2932642	34309.6
not affected by terrain losses	2916375	33793.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4025	56.5
lost to ATV IX only	4025	56.5
lost to all IX	4025	56.5

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE	BLCDT	20111130IDH	LIC
39A SC ROCK HILL	BLANK	0000001541	LIC
39A ZZ RALEIGH	USERRECORD01		APP

Percent new IX = 0.0209%

Worst case new IX 0.0209% Scenario 1

#####

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WJAL-DR	SILVER SPRING MD	BPRM -20060424AEX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	WMAR-TV	BALTIMORE MD	57.5	LIC	BLCDT -20090619ACA
39	WJAL	HAGERSTOWN MD	130.2	LIC	BLCDT -20090804ACD
39	WLVT-TV	ALLENTOWN PA	228.6	LIC	BLEDT -20090605ABD
39	WLPX-TV	CHARLESTON WV	410.5	LIC	BLCDT -20020510AAM
40	WNUV	BALTIMORE MD	57.7	LIC	BMLCDT -20110131ASB
39	WRAL_3.0	RALEIGH ZZ	384.8	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WMYT-TV	ROCK HILL SC	BLANK -0000001541

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	197.9	LIC	BLCDT -20060912ACZ
38	WEMT	GREENEVILLE TN	148.2	LIC	BLCDT -20111130IDH
39	WSB-TV	ATLANTA GA	343.0	LIC	BLCDT -20100129ADE
39	WSAV-TV	SAVANNAH GA	367.4	LIC	BLCDT -20050705AAP
39	WLEX-TV	LEXINGTON KY	414.1	LIC	BLCDT -20050728AOX
39	WKTC	SUMTER SC	143.0	LIC	BLCDT -20071022BDD
39	WLPX-TV	CHARLESTON WV	349.8	LIC	BLCDT -20020510AAM
40	WHKY-TV	HICKORY NC	42.5	LIC	BLCDT -20110927ACZ
40	WHKY-TV	HICKORY NC	40.0	LIC	BLCDT -20110927ACZ
40	WLFB	BLUEFIELD WV	206.7	LIC	BLCDT -20120228ACM
39	WRAL_3.0	RALEIGH ZZ	239.6	APP	USERRECORD-01

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 3
 Before Analysis

Results for: 39A SC ROCK HILL BLANK 0000001541 LIC
 HAAT 571.0 m, ATV ERP 225.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2953090	34701.0
not affected by terrain losses	2871055	33004.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	88222	3026.2
lost to ATV IX only	88222	3026.2
lost to all IX	88222	3026.2

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE	BLCDT	20111130IDH	LIC
39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A GA SAVANNAH	BLCDT	20050705AAP	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC
40A NC HICKORY	BLCDT	20110927ACZ	LIC

After Analysis

Results for: 39A SC ROCK HILL BLANK 0000001541 LIC
 HAAT 571.0 m, ATV ERP 225.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2953090	34701.0
not affected by terrain losses	2871055	33004.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	91197	3058.1

38	WEMT	GREENEVILLE TN	226.5	LIC	BLCDT	-20111130IDH
39	WKOI-TV	RICHMOND IN	272.8	LIC	BLCDT	-20130430AAI
39	WLEX-TV	LEXINGTON KY	233.6	LIC	BLCDT	-20050728AOX
39	WJAL	HAGERSTOWN MD	364.1	LIC	BLCDT	-20090804ACD
39	WJAL-DR	SILVER SPRING MD	410.5	APP	BPRM	-20060424AEX
39	WMYT-TV	ROCK HILL SC	349.8	LIC	BLANK	-0000001541
40	WHIZ-TV	ZANESVILLE OH	163.1	LIC	BLCDT	-20080222AAV
40	WLFB	BLUEFIELD WV	146.3	LIC	BLCDT	-20120228ACM
39	WRAL_3.0	RALEIGH ZZ	423.0	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record

DTS STATION

Channel	Call	City/State	Application	Ref. No.
40	WHKY-TV	HICKORY NC	BLCDT	-20110927ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WMYT-TV	ROCK HILL SC	40.0	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	181.1	LIC	BLCDT	-20071022BDD
40	WMGT-TV	MACON GA	378.8	LIC	BLCDT	-20070112AHJ
40	WTVQ-DT	LEXINGTON KY	374.6	LIC	BLCDT	-20090519ACB
40	WDSI-TV	CHATTANOOGA TN	358.6	APP	BLANK	-0000009981
40	WDSI-TV	CHATTANOOGA TN	354.1	LIC	BLCDT	-20051011ABS
40	WLFB	BLUEFIELD WV	174.2	LIC	BLCDT	-20120228ACM
41	WBTW-DR	FLORENCE SC	237.8	APP	BPRM	-20110502AEV
41	WETP-TV	SNEEDVILLE TN	178.6	LIC	BLEDT	-20050916AAX
39	WRAL_3.0	RALEIGH ZZ	259.3	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 7

Analysis of current record

DTS STATION

Channel	Call	City/State	Application	Ref. No.
40	WTKR	NORFOLK VA	BLCDT	-20050617AAW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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40	WNUV	BALTIMORE MD	281.2	LIC	BMLCDT	-20110131ASB
40	WHKY-TV	HICKORY NC	412.9	LIC	BLCDT	-20110927ACZ
40	WLFB	BLUEFIELD WV	424.2	LIC	BLCDT	-20120228ACM
39	WRAL_3.0	RALEIGH ZZ	221.4	APP	USERRECORD-01	
40	WHKY-TV	HICKORY NC		LIC	BLCDT	-20110927ACZ

Proposal causes no interference

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WRAL_3.0	RALEIGH ZZ	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	44.0	LIC	BLCDT -20060912ACZ
39	WJAL-DR	SILVER SPRING MD	384.8	APP	BPRM -20060424AEX
39	WMYT-TV	ROCK HILL SC	239.6	LIC	BLANK -0000001541
39	WKTC	SUMTER SC	267.1	LIC	BLCDT -20071022BDD
39	WLPX-TV	CHARLESTON WV	423.0	LIC	BLCDT -20020510AAM
40	WHKY-TV	HICKORY NC	200.2	LIC	BLCDT -20110927ACZ
40	WTKR	NORFOLK VA	221.4	LIC	BLCDT -20050617AAW
40	WHKY-TV	HICKORY NC		LIC	BLCDT -20110927ACZ

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 8
Before Analysis

Results for: 39A ZZ RALEIGH USERRECORD01 APP
HAAT 548.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1469261	13464.1
not affected by terrain losses	1467326	13423.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	64905	760.1
lost to ATV IX only	64905	760.1
lost to all IX	64905	760.1

Potential Interfering Stations Included in above Scenario 1

38A NC FAYETTEVILLE	BLCDT	20060912ACZ	LIC
39A SC ROCK HILL	BLANK	0000001541	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

STUDY AS LPTV

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

Date: 05-24-2016 Time: 15:21:31

Record Selected for Analysis

WRAL_3.0 USERRECORD-01 RALEIGH ZZ US
Channel 39 ERP 50. kW HAAT 548. m RCAMSL 00629 m FULL SERVICE MASK
Latitude 035-40-35 Longitude 0078-32-08
Status APP Zone 2 Border Site number: 01
Dir Antenna Make usr Model ERI_etu_2uo_c5 Beam tilt N Ref Azimuth 312.5
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Table with 4 columns: Site number, Azimuth (Deg), ERP (kW), HAAT (m), and 51.0 dBu F(50,90) (km). It lists values for site number 1 at various azimuths from 0.0 to 315.0 degrees.

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

	Proposed Station		
Channel	Call	City/State	ARN
39	WRAL_3.0	RALEIGH ZZ	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38		Concord NC	197.7	CP	BLANK	-0000010643
38	WUVC-DT	FAYETTEVILLE NC	44.0	LIC	BLCDT	-20060912ACZ
38	W38ER-D	WILMINGTON NC	174.6	CP MOD	BLANK	-0000001303
39	WJAL-DR	SILVER SPRING MD	384.8	APP	BPRM	-20060424AEX
39	WGDO-LD	WASHINGTON NC	165.7	LIC	BLANK	-0000008899
39	WGDO-LD	WASHINGTON NC	165.7	CP	BNPDTL	-20100210AAX
39	WGDO-LD	WASHINGTON NC	119.1	CP	BLANK	-0000009756
39	WTMV-LD	WILMINGTON NC	166.8	LIC	BLDTL	-20131021ACZ
39	W39CY-D	MYRTLE BEACH SC	206.5	CP	BPDTL	-20140613ABK
39	W39CY-D	MYRTLE BEACH SC	206.5	LIC	BLDTL	-20140228ABI
39	WMYT-TV	ROCK HILL SC	239.6	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	267.1	LIC	BLCDT	-20071022BDD
39		Bristol TN	347.0	CP	BLANK	-0000008543
39	WJHJ-LP	NEWPORT NEWS VA	235.7	CP	BDFCDTL	-20090824AFH
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	235.7	LIC	BLTTL	-20060221ABX
40	WTNC-LD	DURHAM NC	56.8	LIC	BLDTL	-20100611AHD
40	WDRN-LD	FAYETTEVILLE NC	73.8	LIC	BLDTL	-20140116AAX
40	WHKY-TV	HICKORY NC	200.2	LIC	BLCDT	-20110927ACZ +
40	WILM-LD	WILMINGTON NC	153.2	LIC	BLDTL	-20080902ADL
40	WYAT-LP	MARTINSVILLE VA	164.0	LIC	BLTTL	-20060508AAA

40	WYAT-LP	MARTINSVILLE VA	164.0	CP	BDFCDTL	-20121001AHE
47	WPEM-LD	LUMBERTON NC	120.5	LIC	BLTTL	-19960530JB

+ Indicates station is part of a DTS

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
38		Concord NC	BLANK	-0000010643

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	155.5	LIC	BLCDT	-20060912ACZ
38	WSQY-LD	SPARTANBURG SC	163.5	CP	BDCCDTL	-20110726AJH
38	WEMT	GREENEVILLE TN	176.9	LIC	BLCDT	-20111130IDH
39	WMYT-TV	ROCK HILL SC	42.7	LIC	BLANK	-0000001541
39	WRAL_3.0	RALEIGH ZZ	197.7	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	BLCDT	-20060912ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WEMT	GREENEVILLE TN	300.2	LIC	BLCDT	-20111130IDH
39	WMYT-TV	ROCK HILL SC	197.9	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	225.0	LIC	BLCDT	-20071022BDD
39	WRAL_3.0	RALEIGH ZZ	44.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 2
Before Analysis

Results for: 38A NC FAYETTEVILLE BLCDT 20060912ACZ LIC
 HAAT 509.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2931634	34281.3
not affected by terrain losses	2908847	33745.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1770	37.7
lost to ATV IX only	1770	37.7
lost to all IX	1770	37.7

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE BLCDT 20111130IDH LIC
 39A SC ROCK HILL BLANK 0000001541 LIC

After Analysis

Results for: 38A NC FAYETTEVILLE BLCDT 20060912ACZ LIC
 HAAT 509.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2931634	34281.3
not affected by terrain losses	2908847	33745.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2278	55.6
lost to ATV IX only	2278	55.6
lost to all IX	2278	55.6

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE BLCDT 20111130IDH LIC
 39A SC ROCK HILL BLANK 0000001541 LIC
 39A ZZ RALEIGH USERRECORD01 APP

Percent new IX = 0.0175%

Worst case new IX 0.0175% Scenario 1

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
38	W38ER-D	WILMINGTON NC	BLANK	-0000001303

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	169.6	LIC	BLCDT	-20060912ACZ

39	WTMV-LD	WILMINGTON NC	40.2	LIC	BLDTL	-20131021ACZ
39	W39CY-D	MYRTLE BEACH SC	69.5	CP	BPDTL	-20140613ABK
39	W39CY-D	MYRTLE BEACH SC	69.5	LIC	BLDTL	-20140228ABI
39	WRAL_3.0	RALEIGH ZZ	174.6	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WJAL-DR	SILVER SPRING MD	BPRM	-20060424AEX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WMAR-TV	BALTIMORE MD	57.5	LIC	BLCDT	-20090619ACA
39	WJAL	HAGERSTOWN MD	130.2	LIC	BLCDT	-20090804ACD
39	WLVT-TV	ALLENTOWN PA	228.6	LIC	BLEDT	-20090605ABD
39	WLPX-TV	CHARLESTON WV	410.5	LIC	BLCDT	-20020510AAM
40	WNUV	BALTIMORE MD	57.7	LIC	BMLCDT	-20110131ASB
39	WRAL_3.0	RALEIGH ZZ	384.8	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WGDO-LD	WASHINGTON NC	BLANK	-0000008899

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WTMV-LD	WILMINGTON NC	146.5	LIC	BLDTL	-20131021ACZ
39	WKTC	SUMTER SC	388.7	LIC	BLCDT	-20071022BDD
39	WJHJ-LP	NEWPORT NEWS VA	176.8	CP	BDFCDTL	-20090824AFH
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	176.8	LIC	BLTTL	-20060221ABX
39	WRAL_3.0	RALEIGH ZZ	165.7	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WGDO-LD	WASHINGTON NC	BNPDTL	-20100210AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WTMV-LD	WILMINGTON NC	146.5	LIC	BLDTL	-20131021ACZ
39	WKTC	SUMTER SC	388.8	LIC	BLCDT	-20071022BDD
39	WJHJ-LP	NEWPORT NEWS VA	176.8	CP	BDFCDTL	-20090824AFH
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	176.8	LIC	BLTTL	-20060221ABX
39	WRAL_3.0	RALEIGH ZZ	165.7	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WGDO-LD	WASHINGTON NC	BLANK	-0000009756

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WTMV-LD	WILMINGTON NC	125.1	LIC	BLDTL	-20131021ACZ
39	WMYT-TV	ROCK HILL SC	350.9	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	345.9	LIC	BLCDT	-20071022BDD
39	WJHJ-LP	NEWPORT NEWS VA	188.3	CP	BDFCDTL	-20090824AFH
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	188.3	LIC	BLTTL	-20060221ABX
39	WRAL_3.0	RALEIGH ZZ	119.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WTMV-LD	WILMINGTON NC	BLDTL	-20131021ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	W38ER-D	WILMINGTON NC	40.2	CP MOD	BLANK	-0000001303
39	WGDO-LD	WASHINGTON NC	146.5	LIC	BLANK	-0000008899
39	WGDO-LD	WASHINGTON NC	146.5	CP	BNPDTL	-20100210AAX
39	WGDO-LD	WASHINGTON NC	125.1	CP	BLANK	-0000009756
39	W39CY-D	MYRTLE BEACH SC	109.6	CP	BPDTL	-20140613ABK
39	W39CY-D	MYRTLE BEACH SC	109.6	LIC	BLDTL	-20140228ABI
39	WMYT-TV	ROCK HILL SC	327.9	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	273.1	LIC	BLCDT	-20071022BDD
40	WILM-LD	WILMINGTON NC	39.2	LIC	BLDTL	-20080902ADL
39	WRAL_3.0	RALEIGH ZZ	166.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	W39CY-D	MYRTLE BEACH SC	BPDTL	-20140613ABK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	W38ER-D	WILMINGTON NC	69.5	CP MOD	BLANK	-0000001303
39	WSAV-TV	SAVANNAH GA	301.8	LIC	BLCDT	-20050705AAP
39	WTMV-LD	WILMINGTON NC	109.6	LIC	BLDTL	-20131021ACZ
39	WMYT-TV	ROCK HILL SC	270.4	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	178.9	LIC	BLCDT	-20071022BDD
40	WILM-LD	WILMINGTON NC	78.7	LIC	BLDTL	-20080902ADL
40	W40DJ-D	MYRTLE BEACH SC	32.8	CP	BNPDTL	-20090825AZN
40	W40DJ-D	MYRTLE BEACH SC	70.1	CP	BLANK	-0000009160
40	W40DJ-D	MYRTLE BEACH SC	32.8	LIC	BLANK	-0000008741
39	WRAL_3.0	RALEIGH ZZ	206.5	APP	USERRECORD-01	

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.
39	W39CY-D	MYRTLE BEACH SC	BLDTL	-20140228ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	W38ER-D	WILMINGTON NC	69.5	CP MOD	BLANK	-0000001303

39	WSAV-TV	SAVANNAH GA	301.8	LIC	BLCDT	-20050705AAP
39	WTMV-LD	WILMINGTON NC	109.6	LIC	BLDTL	-20131021ACZ
39	WMYT-TV	ROCK HILL SC	270.4	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	178.9	LIC	BLCDT	-20071022BDD
40	WILM-LD	WILMINGTON NC	78.7	LIC	BLDTL	-20080902ADL
40	W40DJ-D	MYRTLE BEACH SC	32.8	CP	BNPDTL	-20090825AZN
40	W40DJ-D	MYRTLE BEACH SC	32.8	LIC	BLANK	-0000008741
39	WRAL_3.0	RALEIGH ZZ	206.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WMYT-TV	ROCK HILL SC	BLANK	-0000001541

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	197.9	LIC	BLCDT	-20060912ACZ
38	WEMT	GREENEVILLE TN	148.2	LIC	BLCDT	-20111130IDH
39	WSB-TV	ATLANTA GA	343.0	LIC	BLCDT	-20100129ADE
39	WSAV-TV	SAVANNAH GA	367.4	LIC	BLCDT	-20050705AAP
39	WLEX-TV	LEXINGTON KY	414.1	LIC	BLCDT	-20050728AOX
39	WKTC	SUMTER SC	143.0	LIC	BLCDT	-20071022BDD
39	WLPX-TV	CHARLESTON WV	349.8	LIC	BLCDT	-20020510AAM
40	WHKY-TV	HICKORY NC	42.5	LIC	BLCDT	-20110927ACZ
40	WHKY-TV	HICKORY NC	40.0	LIC	BLCDT	-20110927ACZ
40	WLFB	BLUEFIELD WV	206.7	LIC	BLCDT	-20120228ACM
39	WRAL_3.0	RALEIGH ZZ	239.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 11
Before Analysis

Results for: 39A SC ROCK HILL BLANK 0000001541 LIC
HAAT 571.0 m, ATV ERP 225.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2953022	34755.9
not affected by terrain losses	2864937	33027.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	93505	3142.7
lost to ATV IX only	93505	3142.7
lost to all IX	93505	3142.7

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE	BLCDT	20111130IDH	LIC
39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A GA SAVANNAH	BLCDT	20050705AAP	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC
39A WV CHARLESTON	BLCDT	20020510AAM	LIC
40A NC HICKORY	BLCDT	20110927ACZ	LIC

After Analysis

Results for: 39A SC ROCK HILL BLANK 0000001541 LIC
 HAAT 571.0 m, ATV ERP 225.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2953022	34755.9
not affected by terrain losses	2864937	33027.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	94252	3158.6
lost to ATV IX only	94252	3158.6
lost to all IX	94252	3158.6

Potential Interfering Stations Included in above Scenario 1

38A TN GREENEVILLE	BLCDT	20111130IDH	LIC
39A GA ATLANTA	BLCDT	20100129ADE	LIC
39A GA SAVANNAH	BLCDT	20050705AAP	LIC
39A SC SUMTER	BLCDT	20071022BDD	LIC
39A WV CHARLESTON	BLCDT	20020510AAM	LIC
40A NC HICKORY	BLCDT	20110927ACZ	LIC
39A ZZ RALEIGH	USERRECORD01		APP

Percent new IX = 0.0270%

Worst case new IX 0.0270% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WKTC	SUMTER SC	BLCDT	-20071022BDD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	225.0	LIC	BLCDT	-20060912ACZ
39	WSB-TV	ATLANTA GA	334.0	LIC	BLCDT	-20100129ADE
39	WSAV-TV	SAVANNAH GA	234.0	LIC	BLCDT	-20050705AAP
39	WMYT-TV	ROCK HILL SC	143.0	LIC	BLANK	-0000001541

40	WHKY-TV	HICKORY NC	130.3	LIC	BLCDT	-20110927ACZ
40	WHKY-TV	HICKORY NC	181.1	LIC	BLCDT	-20110927ACZ
39	WRAL_3.0	RALEIGH ZZ	267.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39		Bristol TN	BLANK	-0000008543

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WEMT	GREENEVILLE TN	15.3	LIC	BLCDT	-20111130IDH
39	WSB-TV	ATLANTA GA	360.7	LIC	BLCDT	-20100129ADE
39	WKOI-TV	RICHMOND IN	392.8	LIC	BLCDT	-20130430AAI
39	WLEX-TV	LEXINGTON KY	253.3	LIC	BLCDT	-20050728AOX
39	W09AG-D	FRANKLIN NC	191.1	CP	BDISDTT	-20090928ACX
39	WMYT-TV	ROCK HILL SC	162.1	LIC	BLANK	-0000001541
39	WKTC	SUMTER SC	299.2	LIC	BLCDT	-20071022BDD
39	WLPX-TV	CHARLESTON WV	221.3	LIC	BLCDT	-20020510AAM
40	WHKY-TV	HICKORY NC	122.2	LIC	BLCDT	-20110927ACZ
40	WLFB	BLUEFIELD WV	118.5	LIC	BLCDT	-20120228ACM
39	WRAL_3.0	RALEIGH ZZ	347.0	APP	USERRECORD-01	
40	WHKY-TV	HICKORY NC		LIC	BLCDT	-20110927ACZ

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	WJHJ-LP	NEWPORT NEWS VA	BDFCDTL	-20090824AFH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WJGN-CD	CHESAPEAKE VA	0.0	LIC	BLANK	-0000001338
39	WJAL	HAGERSTOWN MD	364.9	LIC	BLCDT	-20090804ACD
39	WJAL-DR	SILVER SPRING MD	239.8	APP	BPRM	-20060424AEX
39	WGDO-LD	WASHINGTON NC	176.8	LIC	BLANK	-0000008899
39	WGDO-LD	WASHINGTON NC	176.8	CP	BNPDTL	-20100210AAX

40 WTKR NORFOLK VA 14.6 LIC BLCDT -20050617AAW
 39 WRAL_3.0 RALEIGH ZZ 235.7 APP USERRECORD-01
 Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	BLTTL -20060221ABX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	WAVY-TV	PORTSMOUTH VA	14.7	LIC	BLCDT -20010409ABP
38	WJGN-CD	CHESAPEAKE VA	0.0	LIC	BLANK -0000001338
39	WJAL	HAGERSTOWN MD	364.9	LIC	BLCDT -20090804ACD
39	WJAL-DR	SILVER SPRING MD	239.8	APP	BPRM -20060424AEX
40	WTKR	NORFOLK VA	14.6	LIC	BLCDT -20050617AAW
42	WCVE-TV	RICHMOND VA	132.1	LIC	BLCDT -20050606AHG
46	WPXV-TV	NORFOLK VA	14.6	LIC	BLCDT -20020510AAI
47	WUPV	ASHLAND VA	126.2	LIC	BLCDT -20060210ABA
39	WRAL_3.0	RALEIGH ZZ	235.7	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application Ref. No.
40	WTNC-LD	DURHAM NC	BLDTL -20100611AHD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
40	WDRN-LD	FAYETTEVILLE NC	108.3	LIC	BLDTL -20140116AAX
40	WHKY-TV	HICKORY NC	179.2	LIC	BLCDT -20110927ACZ
40	WHKY-TV	HICKORY NC	225.5	LIC	BLCDT -20110927ACZ
40	WILM-LD	WILMINGTON NC	204.1	LIC	BLDTL -20080902ADL
40	WAHU-CD	CHARLOTTESVILLE VA	218.0	LIC	BLDTA -20101223ABU
40	WYAT-LP	MARTINSVILLE VA	107.4	LIC	BLTTL -20060508AAA
40	WYAT-LP	MARTINSVILLE VA	107.4	CP	BDFCDTL -20121001AHE
40	WTKR	NORFOLK VA	234.3	LIC	BLCDT -20050617AAW
40	WLFB	BLUEFIELD WV	242.5	LIC	BLCDT -20120228ACM
39	WRAL_3.0	RALEIGH ZZ	56.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 16
Before Analysis

Results for: 40A NC DURHAM BLDTL 20100611AHD LIC
HAAT 149.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	943071	5703.2
not affected by terrain losses	943053	5701.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10526	153.9
lost to ATV IX only	10526	153.9
lost to all IX	10526	153.9

Potential Interfering Stations Included in above Scenario 1

40A NC FAYETTEVILLE	BLDTL	20140116AAX	LIC
40A NC HICKORY	BLCDDT	20110927ACZ	LIC
40A VA MARTINSVILLE	BDFCDTL	20121001AHE	CP
40A VA NORFOLK	BLCDDT	20050617AAW	LIC

After Analysis

Results for: 40A NC DURHAM BLDTL 20100611AHD LIC
HAAT 149.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	943071	5703.2
not affected by terrain losses	943053	5701.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	29054	184.5
lost to ATV IX only	29054	184.5
lost to all IX	29054	184.5

Potential Interfering Stations Included in above Scenario 1

40A NC FAYETTEVILLE	BLDTL	20140116AAX	LIC
40A NC HICKORY	BLCDDT	20110927ACZ	LIC
40A VA MARTINSVILLE	BDFCDTL	20121001AHE	CP
40A VA NORFOLK	BLCDDT	20050617AAW	LIC
39A ZZ RALEIGH	USERRECORD01		APP

Percent new IX = 1.9869%

Worst case new IX 1.9869% Scenario 1

#####

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application Ref. No.
40	WDRN-LD	FAYETTEVILLE NC	BLDTL -20140116AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
40	WTNC-LD	DURHAM NC	108.3	LIC	BLDTL -20100611AHD
40	WHKY-TV	HICKORY NC	164.0	LIC	BLCDDT -20110927ACZ
40	WHKY-TV	HICKORY NC	235.3	LIC	BLCDDT -20110927ACZ
40	WILM-LD	WILMINGTON NC	105.1	LIC	BLDTL -20080902ADL
40	W40DJ-D	MYRTLE BEACH SC	166.6	CP	BNPDTL -20090825AZN
40	W40DJ-D	MYRTLE BEACH SC	182.5	CP	BLANK -0000009160
40	W40DJ-D	MYRTLE BEACH SC	166.6	LIC	BLANK -0000008741
40	WYAT-LP	MARTINSVILLE VA	198.6	LIC	BLTTL -20060508AAA
40	WYAT-LP	MARTINSVILLE VA	198.6	CP	BDFCDDL -20121001AHE
40	WTKR	NORFOLK VA	288.9	LIC	BLCDDT -20050617AAW
40	WLFB	BLUEFIELD WV	317.4	LIC	BLCDDT -20120228ACM
41	WHEH-LD	LUMBERTON NC	47.3	CP	BNPDTL -20100210AAU
41	WHEH-LD	LUMBERTON NC	64.8	CP MOD	BLANK -0000008324
41	WBTW-DR	FLORENCE SC	88.3	APP	BPRM -20110502AEV
39	WRAL_3.0	RALEIGH ZZ	73.8	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record

DTS STATION

Channel	Call	City/State	Application Ref. No.
40	WHKY-TV	HICKORY NC	BLCDDT -20110927ACZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
39	WMYT-TV	ROCK HILL SC	40.0	LIC	BLANK -0000001541
39	WKTC	SUMTER SC	181.1	LIC	BLCDDT -20071022BDD
40	WMGT-TV	MACON GA	378.8	LIC	BLCDDT -20070112AHJ
40	WTVQ-DT	LEXINGTON KY	374.6	LIC	BLCDDT -20090519ACB
40	WDSI-TV	CHATTANOOGA TN	358.6	APP	BLANK -0000009981
40	WDSI-TV	CHATTANOOGA TN	354.1	LIC	BLCDDT -20051011ABS
40	WLFB	BLUEFIELD WV	174.2	LIC	BLCDDT -20120228ACM
41	WBTW-DR	FLORENCE SC	237.8	APP	BPRM -20110502AEV
41	WETP-TV	SNEEDVILLE TN	178.6	LIC	BLEDDT -20050916AAX
39	WRAL_3.0	RALEIGH ZZ	259.3	APP	USERRECORD-01

Proposed station is beyond the site to

nearest cell evaluation distance

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Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	WILM-LD	WILMINGTON NC	BLDTL	-20080902ADL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WTMV-LD	WILMINGTON NC	39.2	LIC	BLDTL	-20131021ACZ
39	W39CY-D	MYRTLE BEACH SC	78.7	CP	BPDTL	-20140613ABK
39	W39CY-D	MYRTLE BEACH SC	78.7	LIC	BLDTL	-20140228ABI
40	WTNC-LD	DURHAM NC	204.1	LIC	BLDTL	-20100611AHD
40	WDRN-LD	FAYETTEVILLE NC	105.1	LIC	BLDTL	-20140116AAX
40	WHKY-TV	HICKORY NC	249.5	LIC	BLCDT	-20110927ACZ
40	WHKY-TV	HICKORY NC	325.3	LIC	BLCDT	-20110927ACZ
40	W40DJ-D	MYRTLE BEACH SC	110.9	CP	BNPDTL	-20090825AZN
40	W40DJ-D	MYRTLE BEACH SC	147.8	CP	BLANK	-0000009160
40	W40DJ-D	MYRTLE BEACH SC	110.9	LIC	BLANK	-0000008741
40	WTKR	NORFOLK VA	317.4	LIC	BLCDT	-20050617AAW
41	WTMQ-LD	JACKSONVILLE NC	81.5	LIC	BLDTL	-20130726ABU
41	WHEH-LD	LUMBERTON NC	84.0	CP	BNPDTL	-20100210AAU
41	WBTW-DR	FLORENCE SC	100.5	APP	BPRM	-20110502AEV
41	W41DY-D	MYRTLE BEACH SC	84.5	CP	BNPDTL	-20100409ABC
39	WRAL_3.0	RALEIGH ZZ	153.2	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	WYAT-LP	MARTINSVILLE VA	BLTTL	-20060508AAA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WUNL-TV	WINSTON-SALEM NC	58.8	LIC	BLEDT	-20091112ABR
33	WMYV	GREENSBORO NC	92.6	LIC	BLCDT	-20020430ABD
36	WPXR-TV	ROANOKE VA	61.2	LIC	BLCDT	-20020510AAB
40	WTNC-LD	DURHAM NC	107.4	LIC	BLDTL	-20100611AHD

40	WHKY-TV	HICKORY NC	174.4	LIC	BLCDT	-20110927ACZ
40	WHKY-TV	HICKORY NC	181.3	LIC	BLCDT	-20110927ACZ
40	WTKR	NORFOLK VA	298.4	LIC	BLCDT	-20050617AAW
40	WLFB	BLUEFIELD WV	137.4	LIC	BLCDT	-20120228ACM
43	WLXI	GREENSBORO NC	92.6	LIC	BLCDT	-20090204ABD
39	WRAL_3.0	RALEIGH ZZ	164.0	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	WYAT-LP	MARTINSVILLE VA	BDFCDTL	-20121001AHE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	WTNC-LD	DURHAM NC	107.4	LIC	BLDTL	-20100611AHD
40	WDRN-LD	FAYETTEVILLE NC	198.6	LIC	BLDTL	-20140116AAX
40	WHKY-TV	HICKORY NC	174.4	LIC	BLCDT	-20110927ACZ
40	WHKY-TV	HICKORY NC	181.3	LIC	BLCDT	-20110927ACZ
40	WAHU-CD	CHARLOTTEVILLE VA	187.2	LIC	BLDTA	-20101223ABU
40	WTKR	NORFOLK VA	298.4	LIC	BLCDT	-20050617AAW
40	WLFB	BLUEFIELD WV	137.4	LIC	BLCDT	-20120228ACM
39	WRAL_3.0	RALEIGH ZZ	164.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	WPEM-LD	LUMBERTON NC	BLTTL	-19960530JB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WECT	WILMINGTON NC	98.8	LIC	BLCDT	-20081031ABJ
45	WJPM-TV	FLORENCE SC	77.8	LIC	BLEDT	-20090622ADM
46	WWAY	WILMINGTON NC	98.8	LIC	BLCDT	-20051221AQO
47	WJZY	BELMONT NC	207.1	LIC	BLCDT	-20080717AAP
47	WYDO-DR	GREENVILLE NC	174.6	APP	BPRM	-20080620AOY
47	WYDO	GREENVILLE NC	162.6	LIC	BLCDT	-20090805AAL

47	W47CK	SHALLOTTE NC	95.7	LIC	BLTTL	-20021220AAC
47	WCSC-TV	CHARLESTON SC	203.8	LIC	BLCDT	-20030501ABA
47	WZRB	COLUMBIA SC	192.7	LIC	BLCDT	-20110511AFZ
47	WUPV	ASHLAND VA	376.8	LIC	BLCDT	-20060210ABA
48	WRAL-TV	RALEIGH NC	120.6	LIC	BLCDT	-20090710AKG
49	WRAZ	RALEIGH NC	120.6	LIC	BLCDT	-20050502ABD
39	WRAL_3.0	RALEIGH ZZ	120.5	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	WRAL_3.0	RALEIGH ZZ	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	WUVC-DT	FAYETTEVILLE NC	44.0	LIC	BLCDT -20060912ACZ
39	WJAL-DR	SILVER SPRING MD	384.8	APP	BPRM -20060424AEX
39	WGDO-LD	WASHINGTON NC	165.7	LIC	BLANK -0000008899
39	WGDO-LD	WASHINGTON NC	165.7	CP	BNPDTL -20100210AAX
39	WGDO-LD	WASHINGTON NC	119.1	CP	BLANK -0000009756
39	WTMV-LD	WILMINGTON NC	166.8	LIC	BLDTL -20131021ACZ
39	W39CY-D	MYRTLE BEACH SC	206.5	CP	BPDTL -20140613ABK
39	W39CY-D	MYRTLE BEACH SC	206.5	LIC	BLDTL -20140228ABI
39	WMYT-TV	ROCK HILL SC	239.6	LIC	BLANK -0000001541
39	WKTC	SUMTER SC	267.1	LIC	BLCDT -20071022BDD
39	WJHJ-LP	NEWPORT NEWS VA	235.7	CP	BDFCDTL -20090824AFH
39	WJHJ-LP	NEWPORT NEWS, ETC. VA	235.7	LIC	BLTTL -20060221ABX
40	WTNC-LD	DURHAM NC	56.8	LIC	BLDTL -20100611AHD
40	WDRN-LD	FAYETTEVILLE NC	73.8	LIC	BLDTL -20140116AAX

Total scenarios = 1

Result key: 4
Scenario 1 Affected station 23
Before Analysis

Results for: 39A ZZ RALEIGH USERRECORD01 APP

HAAT 548.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1201014	8169.7
not affected by terrain losses	1201014	8169.7
lost to NTSC IX	0	0.0

lost to additional IX by ATV	12961	212.9
lost to ATV IX only	12961	212.9
lost to all IX	12961	212.9

Potential Interfering Stations Included in above Scenario 1

38A NC FAYETTEVILLE	BLCDT	20060912ACZ	LIC
39A SC ROCK HILL	BLANK	0000001541	LIC
40A NC DURHAM	BLDTL	20100611AHD	LIC

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