

Technical Summary
Request for Special Temporary Authority
Engineering Exhibit

WPXA-TV – Rome, GA

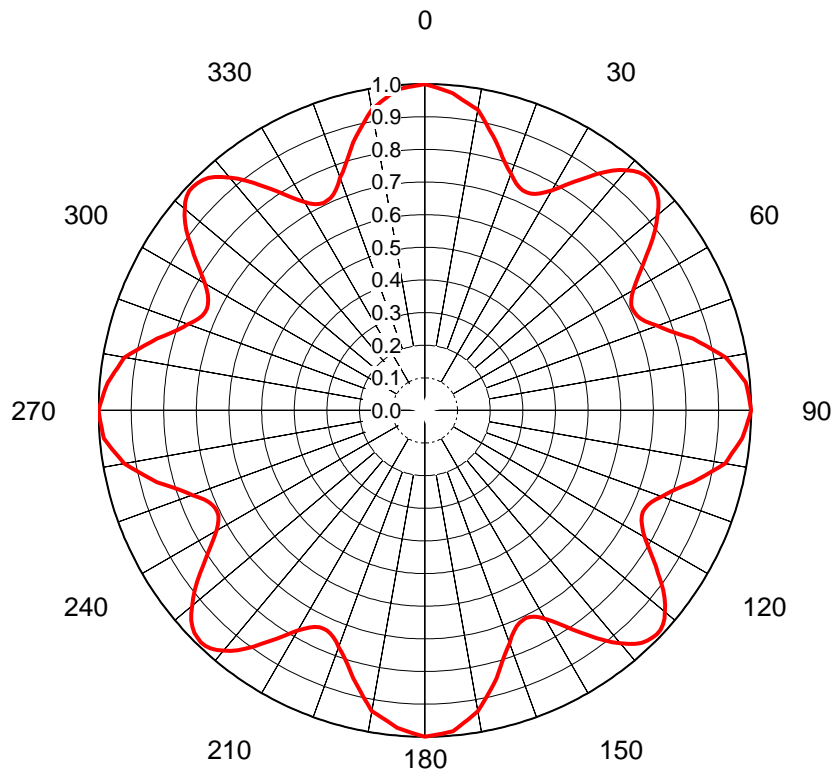
Facility ID: 51969

Licensee "ION MEDIA ATLANTA LICENSE, INC" is currently licensed to operate on Pre-Repack DTV channel 31. The Antenna Structure Registration Number is 1027632 with a Latitude of 34° 18' 48.0" N+ and a Longitude of 84° 38' 55.0" W-. The station has been assigned DTV channel 16 with a Phase 5 deadline.

The purpose of this STA is to request authority to operate from an interim antenna while the Post-Repack antenna facilities are constructed. The interim facilities will be installed on the same tower structure and the contours will not exceed those of the current licensed facilities. The HAAT is 572.54 m (AGL 201 m) with an AMSL of 903 m. An ERP of 65 kW will be utilized.

RF Hazard (Environmental)

Compliance with RF Hazard (Environmental) is provided in the attached RF Hazard Statement.



AZIMUTH PATTERN Horizontal Polarization

Proposal No. **CS 0926**
 Date **3-Jun-19**
 Call Letters **WPXA**
 Channel **31**
 Frequency **575 MHz**
 Antenna Type **TUA-O4-2/8/S**
 Gain **1.32 (1.2dB)**
 Calculated
 Circularity **+/- 2.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.895	72	0.789	108	0.797	144	0.852	180	1.000	216	0.895	252	0.789	288	0.797	324	0.852
1	0.995	37	0.915	73	0.808	109	0.784	145	0.830	181	0.995	217	0.915	253	0.808	289	0.784	325	0.830
2	0.990	38	0.933	74	0.828	110	0.772	146	0.809	182	0.990	218	0.933	254	0.828	290	0.772	326	0.809
3	0.986	39	0.948	75	0.850	111	0.759	147	0.789	183	0.986	219	0.948	255	0.850	291	0.759	327	0.789
4	0.981	40	0.960	76	0.866	112	0.749	148	0.770	184	0.981	220	0.960	256	0.866	292	0.749	328	0.770
5	0.976	41	0.973	77	0.883	113	0.742	149	0.753	185	0.976	221	0.973	257	0.883	293	0.742	329	0.753
6	0.967	42	0.982	78	0.901	114	0.738	150	0.737	186	0.967	222	0.982	258	0.901	294	0.738	330	0.737
7	0.958	43	0.987	79	0.918	115	0.737	151	0.725	187	0.958	223	0.987	259	0.918	295	0.737	331	0.725
8	0.950	44	0.988	80	0.936	116	0.739	152	0.716	188	0.950	224	0.988	260	0.936	296	0.739	332	0.716
9	0.942	45	0.985	81	0.946	117	0.745	153	0.710	189	0.942	225	0.985	261	0.946	297	0.745	333	0.710
10	0.935	46	0.981	82	0.956	118	0.754	154	0.708	190	0.935	226	0.981	262	0.956	298	0.754	334	0.708
11	0.917	47	0.974	83	0.966	119	0.765	155	0.709	191	0.917	227	0.974	263	0.966	299	0.765	335	0.709
12	0.900	48	0.963	84	0.977	120	0.778	156	0.713	192	0.900	228	0.963	264	0.977	300	0.778	336	0.713
13	0.882	49	0.948	85	0.987	121	0.796	157	0.719	193	0.882	229	0.948	265	0.987	301	0.796	337	0.719
14	0.866	50	0.931	86	0.990	122	0.814	158	0.729	194	0.866	230	0.931	266	0.990	302	0.814	338	0.729
15	0.850	51	0.914	87	0.992	123	0.834	159	0.742	195	0.850	231	0.914	267	0.992	303	0.834	339	0.742
16	0.831	52	0.895	88	0.995	124	0.854	160	0.759	196	0.831	232	0.895	268	0.995	304	0.854	340	0.759
17	0.813	53	0.874	89	0.998	125	0.873	161	0.773	197	0.813	233	0.874	269	0.998	305	0.873	341	0.773
18	0.797	54	0.852	90	1.000	126	0.895	162	0.789	198	0.797	234	0.852	270	1.000	306	0.895	342	0.789
19	0.784	55	0.830	91	0.995	127	0.915	163	0.808	199	0.784	235	0.830	271	0.995	307	0.915	343	0.808
20	0.772	56	0.809	92	0.990	128	0.933	164	0.828	200	0.772	236	0.809	272	0.990	308	0.933	344	0.828
21	0.759	57	0.789	93	0.986	129	0.948	165	0.850	201	0.759	237	0.789	273	0.986	309	0.948	345	0.850
22	0.749	58	0.770	94	0.981	130	0.960	166	0.866	202	0.749	238	0.770	274	0.981	310	0.960	346	0.866
23	0.742	59	0.753	95	0.976	131	0.973	167	0.883	203	0.742	239	0.753	275	0.976	311	0.973	347	0.883
24	0.738	60	0.737	96	0.967	132	0.982	168	0.901	204	0.738	240	0.737	276	0.967	312	0.982	348	0.901
25	0.737	61	0.725	97	0.958	133	0.987	169	0.918	205	0.737	241	0.725	277	0.958	313	0.987	349	0.918
26	0.739	62	0.716	98	0.950	134	0.988	170	0.936	206	0.739	242	0.716	278	0.950	314	0.988	350	0.936
27	0.745	63	0.710	99	0.942	135	0.985	171	0.946	207	0.745	243	0.710	279	0.942	315	0.985	351	0.946
28	0.754	64	0.708	100	0.935	136	0.981	172	0.956	208	0.754	244	0.708	280	0.935	316	0.981	352	0.956
29	0.765	65	0.709	101	0.917	137	0.974	173	0.966	209	0.765	245	0.709	281	0.917	317	0.974	353	0.966
30	0.778	66	0.713	102	0.900	138	0.963	174	0.977	210	0.778	246	0.713	282	0.900	318	0.963	354	0.977
31	0.796	67	0.719	103	0.882	139	0.948	175	0.987	211	0.796	247	0.719	283	0.882	319	0.948	355	0.987
32	0.814	68	0.729	104	0.866	140	0.931	176	0.990	212	0.814	248	0.729	284	0.866	320	0.931	356	0.990
33	0.834	69	0.742	105	0.850	141	0.914	177	0.992	213	0.834	249	0.742	285	0.850	321	0.914	357	0.992
34	0.854	70	0.759	106	0.831	142	0.895	178	0.995	214	0.854	250	0.759	286	0.831	322	0.895	358	0.995
35	0.873	71	0.773	107	0.813	143	0.874	179	0.998	215	0.873	251	0.773	287	0.813	323	0.874	359	0.998

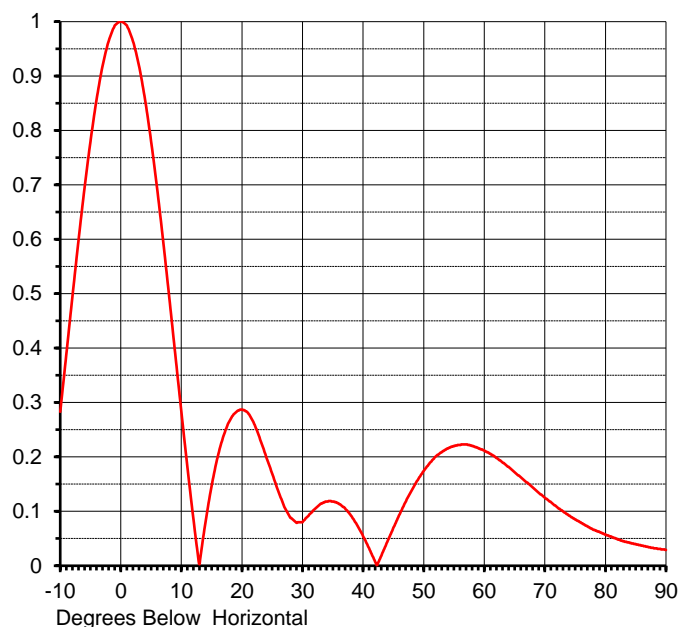
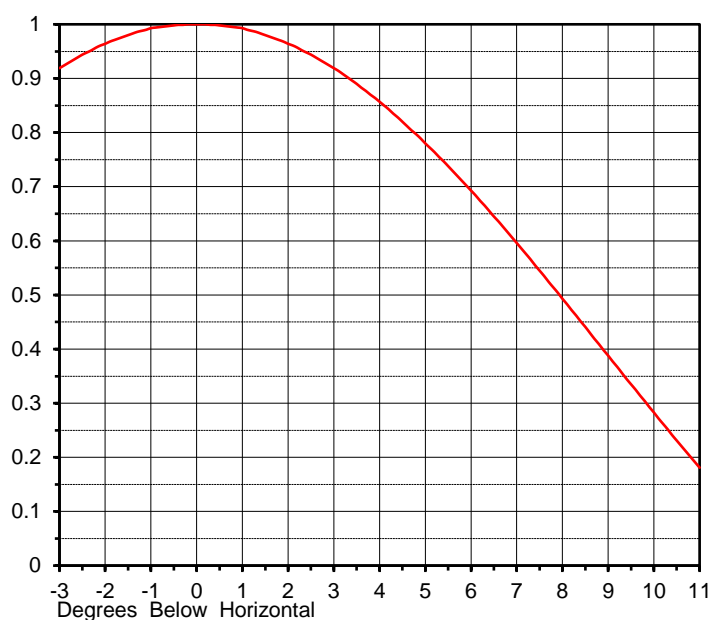
This document contains proprietary and confidential information of Dielectric. It is to be used solely for the purpose for which it is provided. No disclosure, reproduction, or use of this document or any part of it may be made without the written permission of Dielectric.

ELEVATION PATTERN

Proposal No. **CS 0926**
 Date **3-Jun-19**
 Call Letters **WPXA**
 Channel **31**
 Frequency **575 MHz**
 Antenna Type **TUA-O4-2/8/S**

RMS Directivity at Main Lobe **4.51 (6.54 dB)**
 RMS Directivity at Horizontal **4.51 (6.54 dB)**
Calculated

Beam Tilt **0.00 deg**
 Pattern Number **02U045000**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.283	10.0	0.283	30.0	0.080	50.0	0.174	70.0	0.125
-9.0	0.388	11.0	0.181	31.0	0.092	51.0	0.189	71.0	0.117
-8.0	0.493	12.0	0.085	32.0	0.104	52.0	0.201	72.0	0.108
-7.0	0.596	13.0	0.003	33.0	0.114	53.0	0.209	73.0	0.100
-6.0	0.693	14.0	0.081	34.0	0.118	54.0	0.216	74.0	0.092
-5.0	0.780	15.0	0.147	35.0	0.118	55.0	0.220	75.0	0.085
-4.0	0.857	16.0	0.200	36.0	0.114	56.0	0.222	76.0	0.079
-3.0	0.919	17.0	0.240	37.0	0.106	57.0	0.223	77.0	0.073
-2.0	0.964	18.0	0.267	38.0	0.092	58.0	0.220	78.0	0.066
-1.0	0.993	19.0	0.282	39.0	0.075	59.0	0.216	79.0	0.062
0.0	1.000	20.0	0.287	40.0	0.054	60.0	0.212	80.0	0.057
1.0	0.993	21.0	0.281	41.0	0.032	61.0	0.206	81.0	0.053
2.0	0.964	22.0	0.261	42.0	0.007	62.0	0.198	82.0	0.049
3.0	0.919	23.0	0.232	43.0	0.018	63.0	0.190	83.0	0.045
4.0	0.857	24.0	0.200	44.0	0.044	64.0	0.182	84.0	0.042
5.0	0.780	25.0	0.169	45.0	0.070	65.0	0.172	85.0	0.040
6.0	0.693	26.0	0.137	46.0	0.094	66.0	0.163	86.0	0.037
7.0	0.596	27.0	0.108	47.0	0.117	67.0	0.153	87.0	0.035
8.0	0.493	28.0	0.088	48.0	0.138	68.0	0.144	88.0	0.032
9.0	0.388	29.0	0.079	49.0	0.157	69.0	0.134	89.0	0.031
								90.0	0.029

This document contains proprietary and confidential information of Dielectric. It is to be used solely for the purpose for which it is provided.
 No disclosure, reproduction, or use of this document or any part of it may be made without the written permission of Dielectric.

WPXA-STA

Latitude: 34-18-48 N

Longitude: 084-38-55 W

ERP: 65.00 kW

Channel: 31

Frequency: 575.0 MHz

AGL: 201.0 m

HAAT: 572.54 m

AMSL: 903.0 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.0

