



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF A PETITION TO AMEND
THE DIGITAL TELEVISION TABLE OF ALLOTMENTS
WFXL - ALBANY, GEORGIA
DTV - CH. 29 - 1000 kW - 253 m HAAT**

Prepared for: WFXL 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, No. 7418, and in New York State, No. 63418.

GENERAL

This office has been authorized by WFXL LICENSEE, LLC, licensee of WFXL channel 12, licensed to Albany, Georgia, to prepare this statement in support of a Petition to Amend the Digital Television (DTV) Post Repack Table of Allotments, §73.622(i) of the FCC Rules. The petitioner requests that §73.622(i) of the Commission's Rules be modified to change WFXL's allotted channel. DTV channel 9 is currently specified in the Digital Television Table of Allotments for WFXL. The petitioner requests herein to substitute DTV channel 29 for DTV channel 12. The proposed arrangement of allotments is made to enhance potential viewers' ability to more easily receive the broadcast signal of WFXL. For example, when a signal strength of 80 dBu is compared, channel 12 provides a potential viewer population of 128,325 persons while channel 29 provides a population of 385,893 persons. Further, comparing a signal strength of 60 dBu channel 12 equals 474,482 while channel 29 equals 649,273. A signal level greater than 100 dBu provides the most dramatic comparison. For a predicted channel 12 signal greater than 100 dBu the

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predicted population is 8,797 persons while the channel 29 predicted greater than 100 dBu population is 176,049 persons. Additionally the UHF channel 29 requires a significantly smaller receiving antenna approximately one-third the size of an equivalent antenna for channel 12. This smaller antenna size by one-third and the >100 dBu signal level population by tens of thousands bodes well for changing from channel 12 to UHF channel 29, especially when the ATSC 3.0 DTV standard is considered.

Even so, serious propagation problems associated with digital television broadcast (DTV) use of high-VHF television channels (7-13) remain. These are also well documented, both before and especially after the initial digital transition on June 12, 2009. These propagation and reception problems for channels 7-13 have been severe enough for the FCC to have, in Zone I where the ERP limit for channels 7-13 is 30 kW at 305 meters HAAT, granted a construction permit for channel 7 with an ERP of 34 kW at 500 meters HAAT. The Zone I ERP Limit for high-VHF channels at 500 meters HAAT is 5.8 kW. 34 kW is more than 5 times the zone I limit. And yet when ATSC 3.0 is considered the remaining problems continue to frustrate DTV broadcasters that use VHF channels, and many of those station still struggle with propagation problems and the subsequent viewer complaints. This proposal seeks to remedy this well known systemic problem in this instance and to provide viewers with a significant improvement in reception capability.

EXPLANATION OF REASON FOR REQUEST

WFXL's licensee has determined that the proposed migration from channel 12 to channel 29 will be a favorable arrangement of allotments based on the enhanced signal levels that will be delivered to a majority of the population within the station's "protected

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service area". For example: The percentage of population receiving a signal greater than 100 dBu is 1.0% for channel 12 while the percentage that is predicted to receive a signal greater than 100 dBu is more than 17% for channel 29. The populations predicted for each channel and signal levels are shown in the attached map exhibits. Note that a change to channel 29 results in a predicted increase of more than 119,000 persons in the overall population. The licensee believes that changing WFXL to operate on channel 29 will solve most, if not all of its current reception problems.

ATSC 3.0 PERMISSIBLE DTV STANDARD

A more immediate concern is the future migration to the ATSC 3.0 permissible standard for over-the-air DTV and the multitude of potential benefits expected to accrue. Probably the most anticipated benefit is the ability to reach portable and mobile devices that have become the essence of the ubiquitous smart-phone culture. However, these devices must be small to fit the culture. Therein lies the intractable problem for VHF DTV stations. Channel 12, for example, has a wavelength of 4.75 feet. A simple half-wave dipole antenna, used as a reference with 0 dB gain, must be 2.38 feet long. The DTV planning factors set forth in the Sixth Report and Order (FCC 97-115) call for an antenna with 6 dB of gain elevated to 30 feet above the ground to just barely receive a signal at a strength of 36 dBu. An antenna for channel 12 with 6 dB of gain would measure 2.38 feet wide and at least 9 to 12 feet long. Obviously the required size of antennas for VHF channels precludes their use in the smart-phone culture. Therefore WFXL on channel 12 will likely be precluded from participation in ATSC 3.0 serving the portable and mobile users of these services. WFXL's licensee has heretofore been unable to consider a truly

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effective solution to its reception problems, and sees no viable solution to the portable, mobile problem while broadcasting on its VHF channel 12, until now. WFXL's licensee herein seeks an effective solution: change to a UHF channel.

WFXL's licensee has determined that the proposed migration to channel 29 will be a favorable arrangement of allotments based on the enhanced signal levels that will be delivered to a majority of the population within the station's "protected service area". As previously noted the percentage of population receiving a signal greater than 100 dBu is 1% for channel 12, while the percentage that is predicted to receive a signal greater than 100 dBu is 17% for channel 29. The higher signal levels provided by use of channel 29 will enable an ease of reception for mobile and portable devices users, notably the smartphone set. The populations predicted for each channel and signal levels are shown in the attached map exhibits. Please note there is a predicted population gain of more than 119,000 persons for WFXL on channel 29 compared to channel 12.

TECHNICAL STUDY

An engineering study of all pertinent allotments, assignments, applications, construction permits and DTV licenses reveals that DTV channel 29 can be allotted to Albany, Georgia in lieu of channel 12, and meet all of the Commission's interference criteria. The allotment reference coordinates for DTV channel 29 at Albany, Georgia are: 31 19' 53.0" N.L. and 83 51' 43.0" W.L.¹ The Albany allotment reference site meets the allotment standards in §73.616(b); the requirements set forth in §73.616(f); the

¹ The channel 29 DTV allotment reference coordinates are the same as the DTV channel 12 allotment reference coordinates (as defined in Section 73.622(i) of the FCC Rules) of the petitioner's licensed WFXL, Albany, Georgia tower site. License BLCDT-20070725AFF (See FCC tower registration number 1255221).

requirements set forth in §73.623(e), the requirement set forth in §73.623(f), and the principal community coverage requirements set forth in §73.625(a).

The petitioner proposes to install a new Dielectric model TFU-33ETT/VP-R O6 non-directional antenna for channel 29 at WFXL's current centerline height above mean sea level (AMSL) of 355.7 meters and 253 meters above average terrain. The proposed changes include the new non-directional antenna, an increase in ERP to 1000kW and a change from channel 12 to channel 29. The coverage area and population predicted to be served by WFXL are increased. All other station parameters are to remain unchanged.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's software, *tvstudy* v2.2.5, to determine if the instant petition to amend the post-transition Table is predicted to cause new prohibited interference to DTV stations, construction permits or DTV allotments. Results of the study indicate that the instant petition is predicted to cause no new interference greater than 0.5% to the populations served by any full-power DTV station, construction permit or allotment. See Appendix B. These results comply with the 0.5% limit for new post-repack interference set forth in §73.616(e) of the Commission's Rules.

International DTV Considerations

The WFXL site is located more than 1000 kilometers from the nearest point on the US-Canadian border and 1,400 kilometers from the nearest point on the US-Mexican border. Therefore no international coordination is required.

Class A Television Allocation Considerations

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As required in Section 73.616(f) of the FCC's Rules, the study results in Appendix B shows no Class A station predicted to be affected by the re-allotment of WFXL.

Land Mobile and FM radio Considerations

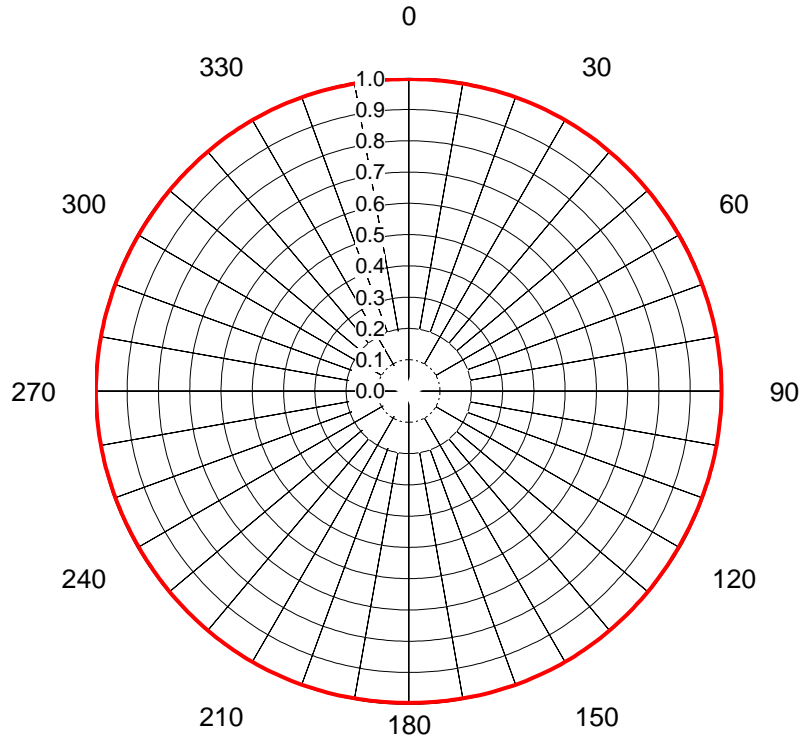
The *tvstudy* results found no Land Mobile violations for this site, and the site is deemed OK toward AM radio stations.

SUMMARY

It is submitted that the instant Petition to Amend the DTV Table of Allotments to substitute DTV channel 29 for DTV channel 12 in Albany, Georgia, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement was prepared by me, or under my direct supervision, and its contents are believed to be true and correct to the best of my knowledge and belief.

DATED: November 22, 2020



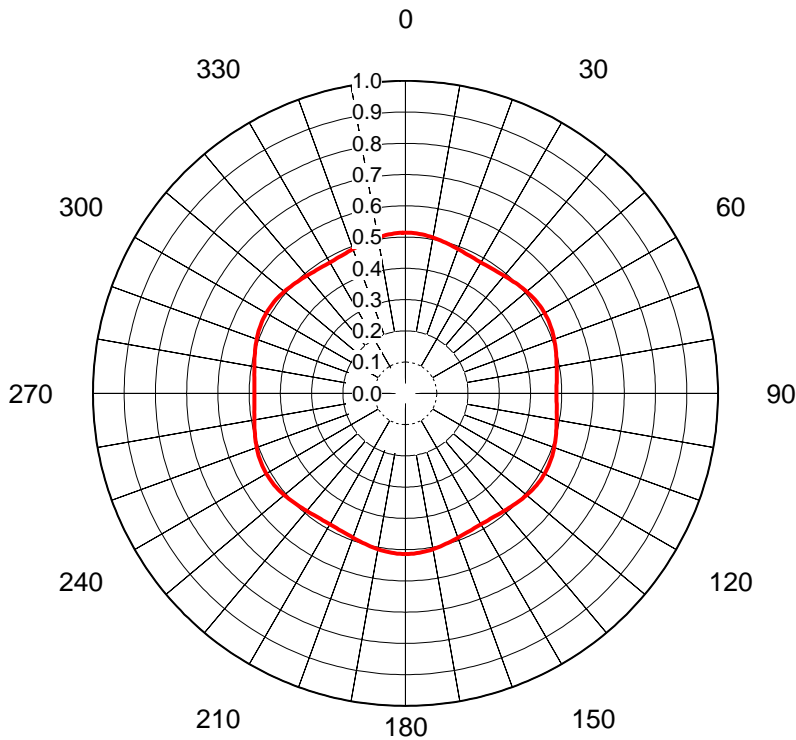


AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-71636**
 Date **9-Nov-20**
 Call Letters **WFXL**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **TFU-33ETT/VP-R O6**
 Gain **1 (0.01dB)**
 Calculated
 Circularity **+/- 1.0 dB**

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

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-71636**
 Date **9-Nov-20**
 Call Letters **WFXL**
 Channel **29**
 Frequency **563 MHz**
 Antenna Type **TFU-33ETT/VP-R O6**
 Gain **1.06 (0.26dB)**
 Calculated
 Circularity **+/- 1.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.514	36	0.486	72	0.503	108	0.503	144	0.486	180	0.514	216	0.486	252	0.503	288	0.503	324	0.486
1	0.514	37	0.487	73	0.502	109	0.505	145	0.486	181	0.514	217	0.487	253	0.502	289	0.505	325	0.486
2	0.514	38	0.489	74	0.500	110	0.506	146	0.485	182	0.514	218	0.489	254	0.500	290	0.506	326	0.485
3	0.513	39	0.490	75	0.499	111	0.508	147	0.484	183	0.513	219	0.490	255	0.499	291	0.508	327	0.484
4	0.513	40	0.491	76	0.497	112	0.509	148	0.484	184	0.513	220	0.491	256	0.497	292	0.509	328	0.484
5	0.512	41	0.493	77	0.496	113	0.510	149	0.484	185	0.512	221	0.493	257	0.496	293	0.510	329	0.484
6	0.511	42	0.494	78	0.494	114	0.511	150	0.484	186	0.511	222	0.494	258	0.494	294	0.511	330	0.484
7	0.510	43	0.496	79	0.493	115	0.512	151	0.484	187	0.510	223	0.496	259	0.493	295	0.512	331	0.484
8	0.509	44	0.497	80	0.491	116	0.513	152	0.484	188	0.509	224	0.497	260	0.491	296	0.513	332	0.484
9	0.508	45	0.499	81	0.490	117	0.513	153	0.484	189	0.508	225	0.499	261	0.490	297	0.513	333	0.484
10	0.506	46	0.500	82	0.489	118	0.514	154	0.485	190	0.506	226	0.500	262	0.489	298	0.514	334	0.485
11	0.505	47	0.502	83	0.487	119	0.514	155	0.486	191	0.505	227	0.502	263	0.487	299	0.514	335	0.486
12	0.503	48	0.503	84	0.486	120	0.514	156	0.486	192	0.503	228	0.503	264	0.486	300	0.514	336	0.486
13	0.502	49	0.505	85	0.486	121	0.514	157	0.487	193	0.502	229	0.505	265	0.486	301	0.514	337	0.487
14	0.500	50	0.506	86	0.485	122	0.514	158	0.489	194	0.500	230	0.506	266	0.485	302	0.514	338	0.489
15	0.499	51	0.508	87	0.484	123	0.513	159	0.490	195	0.499	231	0.508	267	0.484	303	0.513	339	0.490
16	0.497	52	0.509	88	0.484	124	0.513	160	0.491	196	0.497	232	0.509	268	0.484	304	0.513	340	0.491
17	0.496	53	0.510	89	0.484	125	0.512	161	0.493	197	0.496	233	0.510	269	0.484	305	0.512	341	0.493
18	0.494	54	0.511	90	0.484	126	0.511	162	0.494	198	0.494	234	0.511	270	0.484	306	0.511	342	0.494
19	0.493	55	0.512	91	0.484	127	0.510	163	0.496	199	0.493	235	0.512	271	0.484	307	0.510	343	0.496
20	0.491	56	0.513	92	0.484	128	0.509	164	0.497	200	0.491	236	0.513	272	0.484	308	0.509	344	0.497
21	0.490	57	0.513	93	0.484	129	0.508	165	0.499	201	0.490	237	0.513	273	0.484	309	0.508	345	0.499
22	0.489	58	0.514	94	0.485	130	0.506	166	0.500	202	0.489	238	0.514	274	0.485	310	0.506	346	0.500
23	0.487	59	0.514	95	0.486	131	0.505	167	0.502	203	0.487	239	0.514	275	0.486	311	0.505	347	0.502
24	0.486	60	0.514	96	0.486	132	0.503	168	0.503	204	0.486	240	0.514	276	0.486	312	0.503	348	0.503
25	0.486	61	0.514	97	0.487	133	0.502	169	0.505	205	0.486	241	0.514	277	0.487	313	0.502	349	0.505
26	0.485	62	0.514	98	0.489	134	0.500	170	0.506	206	0.485	242	0.514	278	0.489	314	0.500	350	0.506
27	0.484	63	0.513	99	0.490	135	0.499	171	0.508	207	0.484	243	0.513	279	0.490	315	0.499	351	0.508
28	0.484	64	0.513	100	0.491	136	0.497	172	0.509	208	0.484	244	0.513	280	0.491	316	0.497	352	0.509
29	0.484	65	0.512	101	0.493	137	0.496	173	0.510	209	0.484	245	0.512	281	0.493	317	0.496	353	0.510
30	0.484	66	0.511	102	0.494	138	0.494	174	0.511	210	0.484	246	0.511	282	0.494	318	0.494	354	0.511
31	0.484	67	0.510	103	0.496	139	0.493	175	0.512	211	0.484	247	0.510	283	0.496	319	0.493	355	0.512
32	0.484	68	0.509	104	0.497	140	0.491	176	0.513	212	0.484	248	0.509	284	0.497	320	0.491	356	0.513
33	0.484	69	0.508	105	0.499	141	0.490	177	0.513	213	0.484	249	0.508	285	0.499	321	0.490	357	0.513
34	0.485	70	0.506	106	0.500	142	0.489	178	0.514	214	0.485	250	0.506	286	0.500	322	0.489	358	0.514
35	0.486	71	0.505	107	0.502	143	0.487	179	0.514	215	0.486	251	0.505	287	0.502	323	0.487	359	0.514

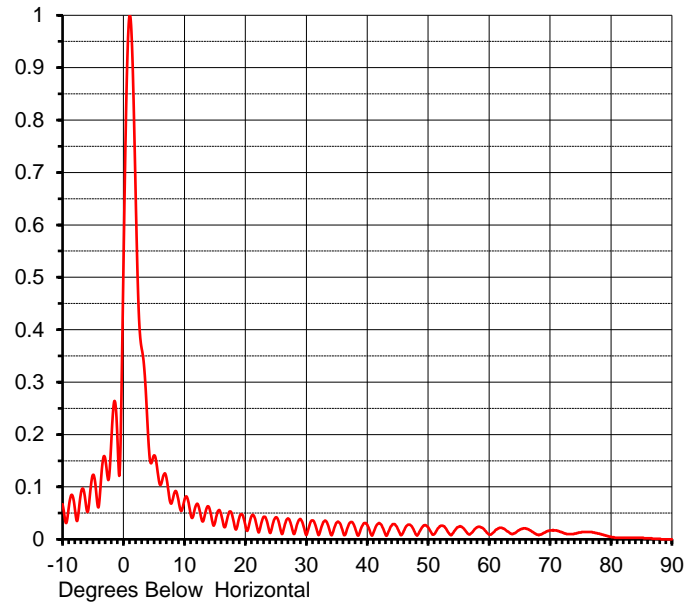
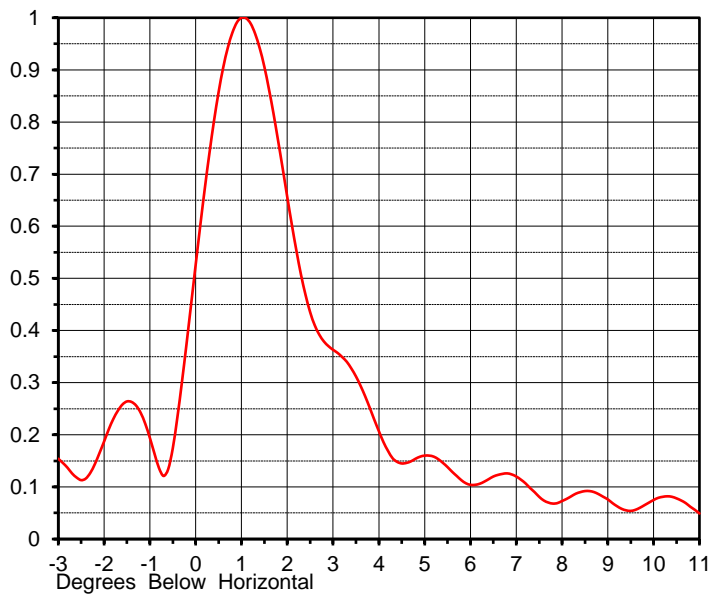
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ELEVATION PATTERN

Proposal No. **C-71636**
 Date **9-Nov-20**
 Call Letters **WFXL**
 Channel **29**
 Frequency **563MHz**
 Antenna Type **TFU-33ETT/VP-R 06**

RMS Directivity at Main Lobe **30.0 (14.77 dB)**
 RMS Directivity at Horizontal **8.3 (9.19 dB)**
Calculated

Beam Tilt **1.05 deg**
 Pattern Number **105**

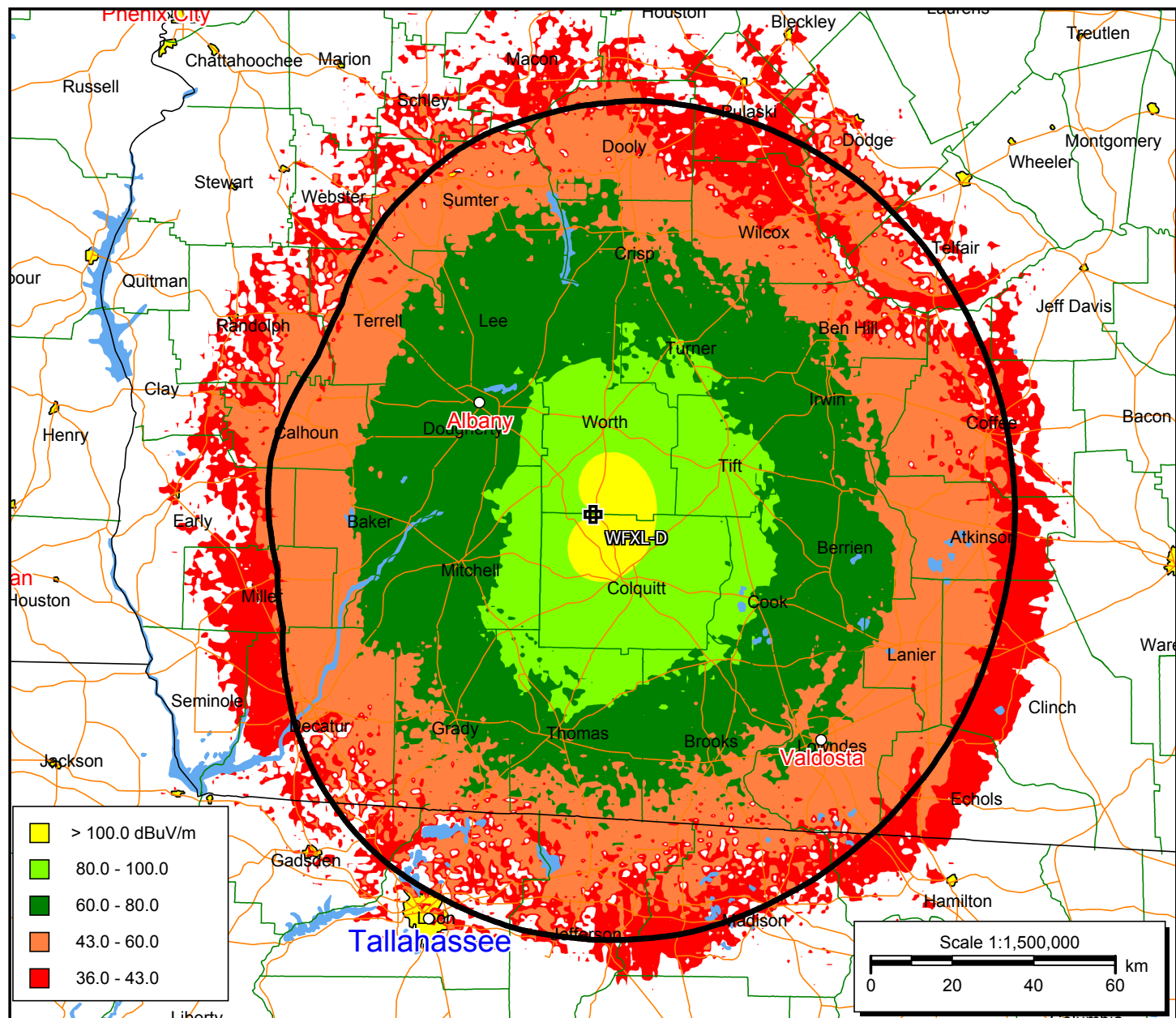


Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.067	10.0	0.075	30.0	0.008	50.0	0.023	70.0	0.017
-9.0	0.059	11.0	0.049	31.0	0.036	51.0	0.010	71.0	0.017
-8.0	0.060	12.0	0.067	32.0	0.008	52.0	0.025	72.0	0.013
-7.0	0.087	13.0	0.034	33.0	0.035	53.0	0.019	73.0	0.010
-6.0	0.054	14.0	0.062	34.0	0.010	54.0	0.011	74.0	0.011
-5.0	0.123	15.0	0.031	35.0	0.032	55.0	0.024	75.0	0.013
-4.0	0.068	16.0	0.049	36.0	0.015	56.0	0.018	76.0	0.014
-3.0	0.154	17.0	0.038	37.0	0.029	57.0	0.011	77.0	0.013
-2.0	0.187	18.0	0.038	38.0	0.022	58.0	0.023	78.0	0.011
-1.0	0.194	19.0	0.041	39.0	0.021	59.0	0.021	79.0	0.008
0.0	0.526	20.0	0.027	40.0	0.028	60.0	0.009	80.0	0.005
1.0	1.000	21.0	0.044	41.0	0.012	61.0	0.017	81.0	0.003
2.0	0.656	22.0	0.019	42.0	0.031	62.0	0.022	82.0	0.003
3.0	0.363	23.0	0.043	43.0	0.009	63.0	0.015	83.0	0.003
4.0	0.207	24.0	0.013	44.0	0.026	64.0	0.011	84.0	0.003
5.0	0.160	25.0	0.042	45.0	0.020	65.0	0.018	85.0	0.003
6.0	0.104	26.0	0.010	46.0	0.016	66.0	0.021	86.0	0.002
7.0	0.120	27.0	0.040	47.0	0.028	67.0	0.015	87.0	0.001
8.0	0.073	28.0	0.010	48.0	0.009	68.0	0.009	88.0	0.001
9.0	0.076	29.0	0.039	49.0	0.023	69.0	0.012	89.0	0.000
								90.0	0.000

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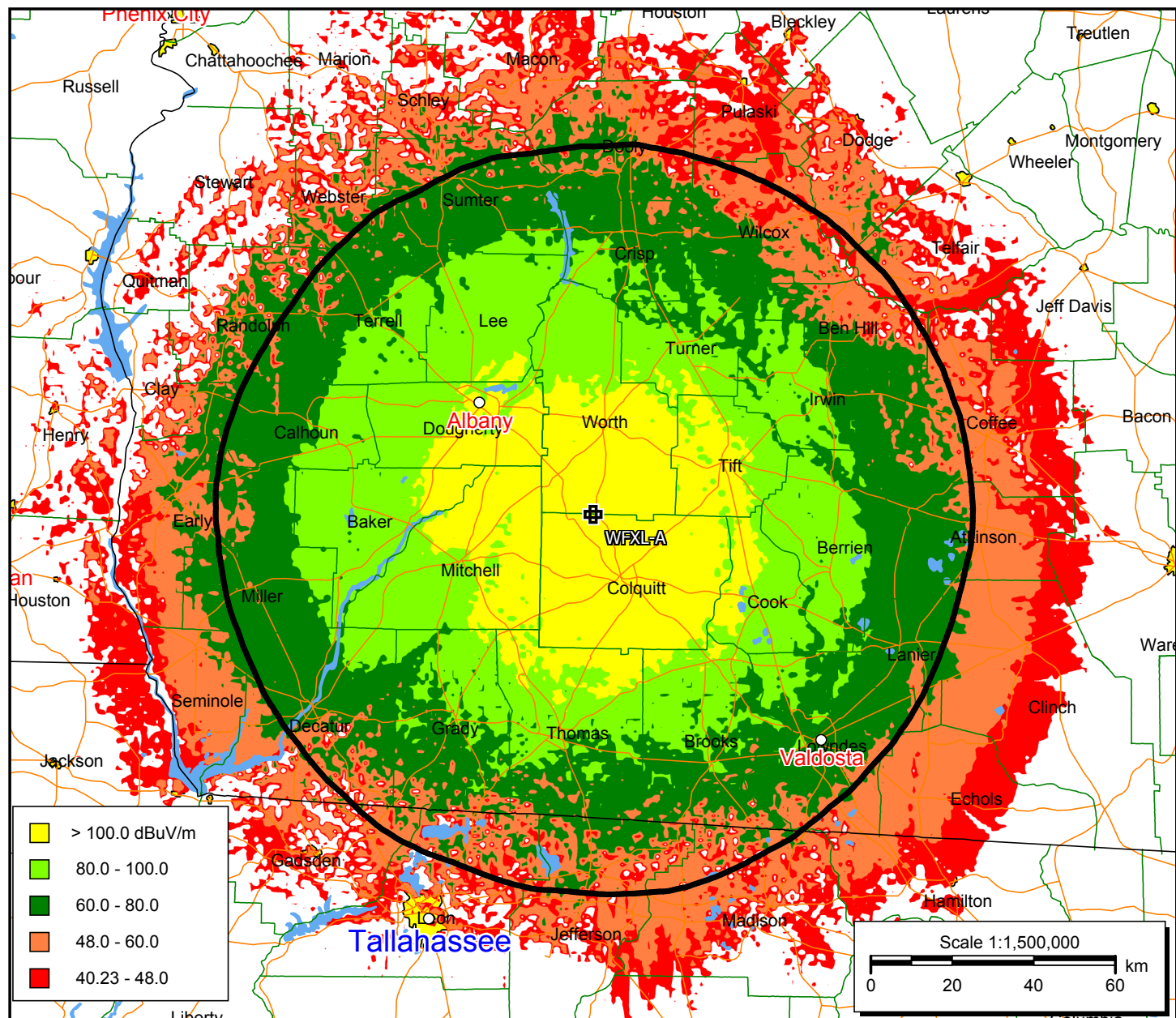
BLCDT-20070725AFF
Latitude: 31-19-53 N
Longitude: 083-51-43 W
ERP: 60.00 kW
Channel: 12
Frequency: 207.0 MHz
AMSL Height: 355.7 m
Elevation: 110.3 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 1.0
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

WFXL - Ch. 12
60 kW - 253 m HAAT
POPULATION by Signal
>100 dBu = 8,797
>80 dBu = 128,325
>60 dBu = 474,482
>Principal Community
43 dBu = 713,806
>Noise Limited
36 dBu = 872,137



WFXL-A

DTV - pet - 29
Latitude: 31-19-52.66 N
Longitude: 083-51-42.63 W
ERP: 1000.00 kW
Channel: 29
Frequency: 563.0 MHz
AMSL Height: 355.7 m
Elevation: 112.27 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 1.0
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

WFXL - Ch. 29**1000 kW - 253 m HAAT****POPULATION by Signal****>100 dBu = 176,049****>80 dBu = 385,893****>60 dBu = 649,273****>Principal Community****48 dBu = 841,886****>Noise Limited****40.23 dBu = 991,611**



WFXL - ALBANY, GEORGIA **NOVEMBER 2020** **APPENDIX B** **Longley-Rice Interference Analysis**

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: WFXL 29 1000 kW OMNI 1x1, Model: Longley-Rice
 Start: 2020.11.18 11:12:19

Study created: 2020.11.18 11:12:19

Study build station data: LMS TV 2020-11-18

Proposal: WFXL D29 DT APP ALBANY, GA
 File number: WFXL 29 1000 kW OMNI
 Facility ID: 70815
 Station data: User record
 Record ID: 62
 Country: U.S.
 Zone: III

Search options:
 Non-U.S. records included
 Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	250.6 km
No	WFSG	D28	DT	LIC	PANAMA CITY, FL	BLANK0000064507	224.1
Yes	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	365.3
No	WXPX-TV	D29	DT	LIC	BRADENTON, FL	BLANK0000105367	419.9
Yes	WFBF	D29	DT	CP	DESTIN, FL	BLANK0000027353	274.4
Yes	WGFL	D29	DT	LIC	HIGH SPRINGS, FL	BLANK0000100460	225.8
No	WQXT-CD	D29	DC	LIC	ST. AUGUSTINE, FL	BLANK0000098976	285.3
Yes	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	272.3
No	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	439.7
No	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	155.0
No	WGIQ	D30	DT	APP	LOUISVILLE, AL	BLANK0000118055	155.0
Yes	WVUP-CD	D30	DC	LIC	TALLAHASSEE, FL	BLANK0000120620	90.2
No	WMGT-TV	D30	DT	LIC	MACON, GA	BLANK0000075816	160.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
 Latitude: 31 19 53.00 N (NAD83)
 Longitude: 83 51 43.00 W
 Height AMSL: 355.7 m
 HAAT: 253.0 m
 Peak ERP: 1000 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic
 Elec Tilt: 1.00

40.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	238.4 m	89.4 km
45.0	1000	251.7	91.5

Appendix B - Interference Analysis
WFXL - Albany, Georgia
Channel 29- 1000kW - Page 2

90.0	1000	257.7	92.5
135.0	1000	252.6	91.6
180.0	1000	256.2	92.2
225.0	1000	252.2	91.6
270.0	1000	255.0	92.0
315.0	1000	241.7	89.9

Database HAAT does not agree with computed HAAT
 Database HAAT: 253 m Computed HAAT: 251 m

Distance to Canadian border: 1154.7 km

Distance to Mexican border: 1404.9 km

Conditions at FCC monitoring station: Powder Springs GA
 Bearing: 344.2 degrees Distance: 292.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 302.9 degrees Distance: 2153.3 km

Please process using these tvstudy parameters
Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
 Maximum new IX to LPTV: 2.00%

 Interference to BLANK0000081282 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	365.3 km
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	133.0
	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	277.0
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	227.6
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	380.9
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLANK0000081273	333.6
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	0.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35203.0 1,883,707	33743.0 1,847,092	32766.5 1,822,161	32653.8 1,820,015	0.34 0.12

Undesired	Total IX	Unique IX, before	Unique IX, after
WFXL D29 DT APP	178.5 3,446	112.6 2,146	
WMCF-TV D28 DT LIC	220.3 6,328	197.3 5,681	
WFBD D29 DT CP	211.2 1,638	176.1 872	
WYGA-CD D29 DC LIC	50.8 1,524	45.8 1,111	
WKOP-TV D29 DT LIC	6.0 882	5.0 669	
WKNO D29 DT LIC	138.9 2,613	134.0 2,558	
WIAT D30 DT LIC	388.4 13,061	379.4 12,925	

 Interference to BLANK0000027353 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	274.4 km
	WFSG	D28	DT	LIC	PANAMA CITY, FL	BLANK0000064507	103.4
	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	277.0
	WVUE-DT	D29	DT	LIC	NEW ORLEANS, LA	BLANK0000081282	330.4

Appendix B - Interference Analysis
WFXL - Albany, Georgia
Channel 29- 1000kW - Page 3

WG IQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	146.0
WE IQ	D30	DT	LIC	MOBILE, AL	BLANK00000111746	118.0
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24834.9	818,776	24675.7	818,258	24100.8	812,711	23981.3 811,192 0.50 0.19

Undesired	Total IX		Unique IX, before		Unique IX, after	
WFXL D29 DT APP	136.7	1,639			119.5	1,519
WFSG D28 DT LIC	194.8	3,080	194.8	3,080	189.9	2,973
WBRC D29 DT LIC	155.1	1,043	139.9	993	127.7	980
WVUE-DT D29 DT LIC	43.6	102	15.2	47	15.2	47
WE IQ D30 DT LIC	210.7	1,377	196.6	1,372	196.6	1,372

Interference to BLANK0000100460 LIC scenario 1

Desired:	Call WGFL	Chan D29	Svc DT	Status LIC	City, State HIGH SPRINGS, FL	File Number BLANK0000100460	Distance
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	225.8 km
	WXPX-TV	D29	DT	LIC	BRADENTON, FL	BLANK0000105367	203.5
	WQXT-CD	D29	DC	LIC	ST. AUGUSTINE, FL	BLANK0000098976	118.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20693.4	876,914	20693.4	876,914	20340.0	858,647	20267.9 854,364	0.35 0.50

Undesired	Total IX		Unique IX, before		Unique IX, after	
WFXL D29 DT APP	81.1	5,140			72.1	4,283
WXPX-TV D29 DT LIC	61.9	8,035	60.9	7,891	60.9	7,891
WQXT-CD D29 DC LIC	292.6	10,376	291.6	10,232	283.5	9,519

Interference to BLANK0000081313 LIC scenario 1

Desired:	Call WYGA-CD	Chan D29	Svc DC	Status LIC	City, State ATLANTA, GA	File Number BLANK0000081313	Distance
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	272.3 km
	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	227.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8836.4	4,376,836	8729.4	4,344,335	8697.7	4,334,223	8693.7 4,332,888	0.05 0.03

Undesired	Total IX		Unique IX, before		Unique IX, after	
WFXL D29 DT APP	4.0	1,335			4.0	1,335
WBRC D29 DT LIC	31.7	10,112	31.7	10,112	31.7	10,112

Interference to BLANK0000120620 LIC scenario 1

Desired:	Call WVUP-CD	Chan D30	Svc DC	Status LIC	City, State TALLAHASSEE, FL	File Number BLANK0000120620	Distance		
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	90.2 km		
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	172.9		
	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
9151.0	443,860	9143.9		443,845	9001.3	441,021	8999.2	441,015	0.02 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WFXL D29 DT APP	3.1	6			2.0	6
WG IQ D30 DT LIC	142.6	2,824	142.6	2,824	141.6	2,824

Interference to BLANK0000120620 LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
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Appendix B - Interference Analysis
WFXL - Albany, Georgia
Channel 29- 1000kW - Page 4

Desired:	WVUP-CD	D30	DC	LIC	TALLAHASSEE, FL	BLANK0000120620	
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	90.2 km
	WGIQ	D30	DT	APP	LOUISVILLE, AL	BLANK0000118055	172.9
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	9151.0	443,860	9143.9	443,845	9001.3	441,021	8999.2 441,015 0.02 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
WFXL D29 DT APP		3.1	6		2.0	6	
WGIQ D30 DT APP		142.6	2,824		141.6	2,824	

Interference to proposal scenario 1 **The applicant will accept the incoming interference**
3.59% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXL	D29	DT	APP	ALBANY, GA	WFXL 29 1000 kW OMNI	
Undesireds:	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	274.4 km
	WGFL	D29	DT	LIC	HIGH SPRINGS, FL	BLANK0000100460	225.8
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	155.0
	WVUP-CD	D30	DC	LIC	TALLAHASSEE, FL	BLANK0000120620	90.2
	Service area		Terrain-limited		IX-free	Percent IX	
	26211.7	675,692	26193.7	675,687	25300.4	651,441	3.41 3.59
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WFBD D29 DT CP		1.0	9		0.0	0	0.00 0.00
WGFL D29 DT LIC		66.0	707		31.1	287	0.12 0.04
WVUP-CD D30 DC LIC		861.2	23,950		827.3	23,539	3.16 3.48