

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 1
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GAMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

Following are the HAATs for BLTT970401JB which will be used in this study:

Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)	Az	HAAT (m.)
0	112.2	45	114.8	90	114.7	135	115.0	180	115.0	225	115.0	270	115.0	315	114.6
1	112.0	46	114.5	91	114.7	136	115.0	181	115.0	226	115.0	271	115.0	316	114.5
2	111.7	47	114.3	92	114.6	137	115.0	182	115.0	227	114.9	272	115.0	317	114.4
3	111.6	48	114.2	93	114.6	138	115.0	183	115.0	228	114.8	273	115.0	318	114.4
4	111.6	49	114.2	94	114.6	139	115.0	184	115.0	229	114.7	274	115.0	319	114.4
5	111.6	50	114.2	95	114.6	140	115.0	185	115.0	230	114.6	275	115.0	320	114.4
6	111.6	51	114.2	96	114.6	141	115.0	186	115.0	231	114.4	276	115.0	321	114.4
7	111.8	52	114.4	97	114.6	142	115.0	187	115.0	232	114.4	277	114.9	322	114.3
8	112.1	53	114.6	98	114.6	143	115.0	188	115.0	233	114.5	278	114.9	323	114.2
9	112.6	54	114.8	99	114.6	144	115.0	189	115.0	234	114.6	279	114.8	324	114.1
10	113.1	55	114.9	100	114.6	145	115.0	190	115.0	235	114.7	280	114.8	325	114.0
11	113.5	56	114.9	101	114.6	146	115.0	191	115.0	236	114.9	281	114.9	326	113.8
12	113.8	57	114.8	102	114.6	147	115.0	192	115.0	237	115.0	282	115.0	327	113.7
13	114.0	58	114.7	103	114.5	148	115.0	193	115.0	238	115.0	283	115.0	328	113.5
14	114.1	59	114.6	104	114.4	149	115.0	194	115.0	239	115.0	284	115.0	329	113.3
15	114.1	60	114.6	105	114.4	150	115.0	195	115.0	240	114.9	285	115.0	330	113.2
16	114.1	61	114.6	106	114.5	151	115.0	196	115.0	241	114.8	286	115.0	331	113.1
17	114.1	62	114.6	107	114.6	152	115.0	197	115.0	242	114.7	287	115.0	332	113.1
18	114.1	63	114.6	108	114.7	153	115.0	198	115.0	243	114.6	288	115.0	333	113.0
19	114.1	64	114.6	109	114.7	154	115.0	199	115.0	244	114.6	289	115.0	334	113.0
20	114.1	65	114.7	110	114.6	155	115.0	200	115.0	245	114.6	290	115.0	335	112.9
21	114.2	66	114.8	111	114.6	156	115.0	201	115.0	246	114.6	291	115.0	336	112.8
22	114.2	67	114.9	112	114.5	157	115.0	202	115.0	247	114.7	292	115.0	337	112.7
23	114.3	68	114.9	113	114.5	158	115.0	203	115.0	248	114.7	293	115.0	338	112.6
24	114.4	69	115.0	114	114.4	159	115.0	204	115.0	249	114.7	294	115.0	339	112.5
25	114.6	70	115.0	115	114.4	160	115.0	205	115.0	250	114.6	295	115.0	340	112.4
26	114.7	71	115.0	116	114.3	161	115.0	206	115.0	251	114.5	296	115.0	341	112.4
27	114.8	72	115.0	117	114.1	162	115.0	207	115.0	252	114.4	297	115.0	342	112.2
28	114.8	73	115.0	118	114.1	163	115.0	208	115.0	253	114.3	298	115.0	343	112.1
29	114.9	74	115.0	119	114.1	164	115.0	209	115.0	254	114.3	299	115.0	344	112.0
30	114.9	75	115.0	120	114.3	165	115.0	210	115.0	255	114.2	300	115.0	345	111.9
31	114.9	76	115.0	121	114.5	166	115.0	211	115.0	256	114.3	301	115.0	346	111.7
32	115.0	77	115.0	122	114.6	167	115.0	212	115.0	257	114.5	302	115.0	347	111.7
33	115.0	78	115.0	123	114.7	168	115.0	213	115.0	258	114.7	303	115.0	348	111.6
34	115.0	79	115.0	124	114.8	169	115.0	214	115.0	259	114.8	304	115.0	349	111.6
35	115.0	80	115.0	125	114.8	170	115.0	215	115.0	260	114.8	305	115.0	350	111.7
36	115.0	81	115.0	126	114.9	171	115.0	216	115.0	261	114.8	306	115.0	351	111.8
37	115.0	82	115.0	127	114.9	172	115.0	217	115.0	262	114.7	307	115.0	352	111.8
38	115.0	83	114.9	128	114.9	173	115.0	218	115.0	263	114.7	308	115.0	353	111.8
39	115.0	84	114.9	129	115.0	174	115.0	219	115.0	264	114.7	309	115.0	354	111.9
40	115.0	85	114.9	130	115.0	175	115.0	220	115.0	265	114.7	310	115.0	355	112.0
41	115.0	86	114.8	131	115.0	176	115.0	221	115.0	266	114.7	311	114.9	356	112.1
42	115.0	87	114.8	132	115.0	177	115.0	222	115.0	267	114.8	312	114.9	357	112.3
43	115.0	88	114.8	133	115.0	178	115.0	223	115.0	268	114.9	313	114.8	358	112.4
44	114.9	89	114.7	134	115.0	179	115.0	224	115.0	269	115.0	314	114.7	359	112.4

Studies for BLTT970401JB will cover from Channel 17 to Channel 47

The following operations are considered in detail:

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 2
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GAMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

BPCDT991018AB WAWS JACKSONVILLE FL CLEAR CHANNEL BROADCASTING LICENSES,
Channel 32 Bad Offset CP N Lat 30 16 51 W Long 81 34 12
ERP: 1000.000 kW; RCAMSL: 292.0 m.; HAAT: 284.0 m.; Maximum HAAT: 292.0 m.
Directional Antenna Make: AND; Model: 28883 ; Ref Az: 0.0
Last Updated
FAC_ID: 11909/CURRENT DATA/
Distance from BLTT970401JB is 248.0 kilometers on a Bearing of 198.7 degrees

From Desired Operation (WAWS JACKSONVILLE FL BPCDT991018AB Ch 32) to Protected Contour:									
Azimuth	18.3	28.3	38.3	48.3	58.3	68.3	78.3	88.3	318.3
Distance (km)	92.7	89.2	84.9	82.0	80.8	81.5	82.9	83.6	84.8
ERP (kW)	774.930	553.041	351.694	226.427	187.461	208.096	249.292	273.263	300.476
HAAT (m.)	286.8	285.3	283.4	285.4	285.6	286.2	287.2	287.8	290.9
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	198.7	193.2	189.0	185.7	183.2	181.1	179.6	179.1	218.3
Distance (km)	155.6	161.2	170.9	181.8	193.3	205.3	218.6	233.0	218.7
ERP (Watts)	7.52	11.90	14.94	14.94	14.94	14.94	16.12	17.86	6.64
HAAT (m.)	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
Sig (dBu-R.ANT)	-18.9	-17.9	-18.6	-20.6	-22.5	-24.7	-26.6	-28.5	-30.5

QRM Ratios (Desired to Undesired)									
Required (dB)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Actual (dB)	59.9	58.9	59.6	61.6	63.5	65.7	67.6	69.5	71.5

Results	OK	OK	OK	OK	OK	OK	OK	OK	OK
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From Desired Operation (WAWS JACKSONVILLE FL BPCDT991018AB Ch 32) to Protected Contour:									
Azimuth	328.3	338.3	348.3	358.3	8.3				
Distance (km)	88.8	91.9	94.2	94.4	94.5				
ERP (kW)	480.197	702.802	896.238	927.653	941.224				
HAAT (m.)	291.3	287.8	287.4	286.8	286.4				
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0				

From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	218.3	217.0	214.5	210.1	204.7				
Distance (km)	203.1	187.6	173.4	162.9	156.1				
ERP (Watts)	6.64	6.64	6.64	6.64	6.64				
HAAT (m.)	115.0	115.0	115.0	115.0	115.0				
Sig (dBu-R.ANT)	-27.8	-25.1	-22.6	-20.7	-19.5				

QRM Ratios (Desired to Undesired)									
Required (dB)	21.0	21.0	21.0	21.0	21.0				
Actual (dB)	68.8	66.1	63.6	61.7	60.5				

Results	OK	OK	OK	OK	OK				
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Interference Caused

Overall Conclusion

From Desired Operation (BPCDT991018AB
WAWS Ch 32) to Protected Contour:
Azimuth 28.3
Distance (km) 89.2
ERP (kW) 553.041
HAAT (m.) 285.3
Sig Level (dBu) 41.0

BLTT970401JB does not cause interference
to WAWS BPCDT991018AB. No problem.

Summary: No problem.

From undesired operation (BLTT970401JB
W32BJ Ch 32) to Protected Contour:
Azimuth 193.2
Distance (km) 161.2
ERP (Watts) 11.90
HAAT (m.) 115.0
Sig (dBu-14.0) -17.9

QRM Ratios (Desired-to-Undesired):	
Required (dB)	21.0
Actual (dB)	58.9

Result: No Problem

MULLANEY ENGINEERING, INC.

FIGURE 1

BLTT970401JB	W32BJ	BEAUFORT, ETC.	SC	SOUTHERN TV CORPORATION	Page 3
Channel 32	Plus Offset	LIC N Lat 32 24 05	W Long 80 44 21	Receive Antenna Discrimination	Employed
ERP: 16.600 kW	RCAMSL: 115.0 m.	GAMSL: m.	max HAAT: 115.0 m.		
Directional Antenna Make:	SCA; Model: 20735		Ref Az: 90.0		
Tendered 970401	Last Updated	Cutoff Date:	Tier 0	TV/TX Last Updated 010605;	DA Last Updated 010605
FAC_ID: 69449	CURRENT DATA/				

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BMPPTT1990607JA WHDS-LP SAVANNAH GA IVAN C. NACHMAN
Channel 32 No Offset CP N Lat 32 04 07 W Long 81 05 35
ERP: 4.460 kW; RCAMSL: 98.0 m.; Maximum HAAT: 98.0 m.
Directional Antenna Make: SCA; Model: 20751 ; Ref Az: 215.0
Last Updated
*CLASS A ELIGIBLE*FAC_ID: 29280/CURRENT DATA/
Distance from BLTT970401JB is 49.7 kilometers on a Bearing of 222.1 degrees

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From Undesired Operation (BLTT970401JB) to Protected Contour:										
Azimuth	222.1	221.7	221.4	221.1	220.8	218.8	215.0	212.5	211.0	
Distance (km)	48.1	48.2	48.2	48.4	48.5	47.5	46.8	47.5	49.0	
ERP (Watts)	8.08	7.84	7.61	7.40	7.21	6.64	6.64	6.64	6.64	
HAA T (m.)	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	
Sig (dBU-R.ANT)	15.7	15.5	15.4	15.2	15.0	15.2	15.6	15.2	14.4	

QRM Ratios (Desired to Undesired)									
Required (dB)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Actual (dB)	58.3	58.5	58.6	58.8	59.0	58.8	58.4	58.8	59.0

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From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	210.3	210.3	232.8	232.6	231.3	228.3	224.8	223.5	223.3
Distance (km)	50.8	52.7	52.4	50.6	49.0	48.1	48.5	48.7	48.5
ERP (Watts)	6.64	6.64	17.90	17.60	16.28	13.32	10.24	9.18	9.00
HAA (m.)	115.0	115.0	114.5	114.4	114.4	114.8	115.0	115.0	115.0
Sig (dBu-R.ANT)	13.4	12.4	16.8	17.7	18.2	17.8	16.5	15.9	15.9

QRM Ratios (Desired to Undesired)									
Required (dB)	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Actual (dB)	60.6	61.6	57.2	56.3	55.8	56.2	57.5	58.1	58.1

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SOUTHERN TV CORPORATION
W32BJ, BEAUFORT, SC
July 2001

MULLANEY ENGINEERING, INC.

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 4
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

From Desired Operation (WHDS-LP SAVANNAH GA BMPTTL990607JA Ch 32) to Protected Contour:
Azimuth 11.9 21.9 31.9
Distance (km) 1.6 1.6 1.6
ERP (Watts) 1.78 1.78 1.78
HAAT (m.) 98.0 97.6 98.0
Sig Level (dBu) 74.0 74.0 74.0

From Undesired Operation (BLTT970401JB) to Protected Contour:
Azimuth 223.0 222.7 222.4
Distance (km) 48.4 48.2 48.2
ERP (Watts) 8.80 8.57 8.33
HAAT (m.) 115.0 115.0 115.0
Sig (dBu-R.ANT) 15.9 15.9 15.8

QRM Ratios (Desired to Undesired)
Required (dB) 45.0 45.0 45.0
Actual (dB) 58.1 58.1 58.2

Results OK OK OK

Interference Caused

Overall Conclusion

From Desired Operation (BMPTTL990607JA
interference
WHDS-LP Ch 32) to Protected Contour:
Azimuth 321.9
Distance (km) 8.0
ERP (Watts) 956.39
HAAT (m.) 97.8
Sig Level (dBu) 74.0

BLTT970401JB does not cause
to BMPTTL990607JA. No problem.

Summary: No problem.

From undesired operation (BLTT970401JB
W32BJ Ch 32) to Protected Contour:
Azimuth 231.3
Distance (km) 49.0
ERP (Watts) 16.28
HAAT (m.) 114.4
Sig (dBu-6.0) 18.2

QRM Ratios (Desired-to-Undesired):
Required (dB) 45.0
Actual (dB) 55.8

Result: No Problem

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 5
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

BPCDT991022AB WPGA-TV MACON GA RADIO PERRY, INC.
Channel 32 Bad Offset CP N Lat 32 45 09 W Long 83 33 35
ERP: 50.000 kW; RCAMSL: 342.0 m.; HAAT: 228.0 m.; Maximum HAAT: 258.0 m.
Last Updated
FAC_ID: 54728/CURRENT DATA/
Distance from BLTT970401JB is 267.7 kilometers on a Bearing of 279.2 degrees

From Desired Operation (WPGA-TV MACON	GA BPCDT991022AB	Ch 32) to Protected Contour:	
Azimuth 97.6 107.6 117.6 127.6 137.6 147.6 157.6 167.6 177.6			
Distance (km) 67.7 67.9 68.3 68.4 68.8 69.1 69.1 70.7 71.3			
ERP (kW) 50.000 50.000 50.000 50.000 50.000 50.000 50.000 50.000 50.000			
HAAT (m.) 208.4 210.8 216.4 218.1 222.6 227.6 227.5 250.3 258.3			
Sig Level (dBu) 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0			
From Undesired Operation (BLTT970401JB) to Protected Contour:			
Azimuth 279.2 275.8 272.6 269.8 267.5 265.8 264.7 263.9 263.8			
Distance (km) 199.8 201.0 204.7 211.1 219.4 229.4 240.7 252.4 264.8			
ERP (Watts) 5.61 45.05 117.34 200.52 196.35 193.24 191.35 189.81 189.62			
HAAT (m.) 114.8 115.0 115.0 115.0 114.8 114.7 114.7 114.7 114.7			
Sig (dBu-R.ANT) -28.0 -19.1 -15.6 -14.4 -15.9 -17.6 -19.4 -21.4 -23.3			
QRM Ratios (Desired to Undesired)			
Required (dB) 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0			
Actual (dB) 69.0 60.1 56.6 55.4 56.9 58.6 60.4 62.4 64.3			
Results OK OK OK OK OK OK OK OK OK			

From Desired Operation (WPGA-TV MACON	GA BPCDT991022AB	Ch 32) to Protected Contour:
Azimuth 27.6 37.6 47.6 57.6 67.6 77.6 87.6		
Distance (km) 67.8 68.3 68.1 68.2 67.9 67.8 67.6		
ERP (kW) 50.000 50.000 50.000 50.000 50.000 50.000 50.000		
HAAT (m.) 209.1 216.7 213.1 215.2 211.2 209.7 206.0		
Sig Level (dBu) 41.0 41.0 41.0 41.0 41.0 41.0 41.0		
From Undesired Operation (BLTT970401JB) to Protected Contour:		
Azimuth 293.8 293.4 292.3 290.7 288.4 285.7 282.5		
Distance (km) 252.5 240.7 229.7 219.7 211.4 205.1 201.3		
ERP (Watts) 44.37 46.69 53.80 64.95 52.69 28.15 9.40		
HAAT (m.) 115.0 115.0 115.0 115.0 115.0 115.0 115.0		
Sig (dBu-R.ANT) -27.7 -25.6 -23.2 -20.8 -20.3 -21.9 -26.0		
QRM Ratios (Desired to Undesired)		
Required (dB) 21.0 21.0 21.0 21.0 21.0 21.0 21.0		
Actual (dB) 68.7 66.6 64.2 61.8 61.3 62.9 67.0		
Results OK OK OK OK OK OK OK		

Interference Caused

Overall Conclusion

From Desired Operation (BPCDT991022AB interference
WPGA-TV Ch 32) to Protected Contour:
problem.
Azimuth 127.6
Distance (km) 68.4
ERP (kW) 50.000
HAAT (m.) 218.1
Sig Level (dBu) 41.0

BLTT970401JB does not cause
to WPGA-TV BPCDT991022AB. No

Summary: No problem.

From undesired operation (BLTT970401JB W32BJ Ch 32) to Protected Contour:
Azimuth 269.8
Distance (km) 211.1
ERP (Watts) 200.52
HAAT (m.) 115.0
Sig (dBu-14.0) -14.4

QRM Ratios (Desired-to-Undesired):
Required (dB) 21.0
Actual (dB) 55.4

Result: No Problem

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 6
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GAMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

BMPCDT000502AA WPGA-TV MACON GA RADIO PERRY, INC.
Channel 32 Bad Offset CP N Lat 32 45 09 W Long 83 33 35
ERP: 200.000 kW; RCAMSL: 341.0 m.; HAAT: 225.0 m.; Maximum HAAT: 257.0 m.
Directional Antenna Make: AND; Model: 39204 ; Ref Az: 0.0
Last Updated
FAC_ID: 54728/CURRENT DATA/
Distance from BLTT970401JB is 267.7 kilometers on a Bearing of 279.2 degrees

From Desired Operation (WPGA-TV MACON	GA BMPCDT000502AA	Ch 32) to Protected Contour:							
Azimuth	97.6	107.6	117.6	127.6	137.6	147.6	157.6	167.6	177.6
Distance (km)	74.3	74.8	75.3	75.1	74.8	74.5	73.7	74.8	75.1
ERP (kW)	184.332	197.158	197.750	185.458	166.059	144.451	125.034	111.660	106.685
HAAT (m.)	207.4	209.8	215.4	217.1	221.6	226.6	226.5	249.3	257.3
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	279.2	275.3	271.7	268.6	266.3	264.6	263.7	262.9	262.9
Distance (km)	193.3	194.3	198.5	206.0	215.7	227.0	239.5	252.1	265.2
ERP (Watts)	5.61	53.58	143.75	198.39	194.07	191.08	189.46	188.17	188.15
HAAT (m.)	114.8	115.0	115.0	114.9	114.7	114.7	114.7	114.7	114.7
Sig (dBu-R.ANT)	-26.8	-17.2	-13.6	-13.6	-15.4	-17.3	-19.3	-21.4	-23.4

QRM Ratios (Desired to Undesired)									
Required (dB)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Actual (dB)	67.8	58.2	54.6	54.6	56.4	58.3	60.3	62.4	64.4

Results	OK	OK	OK	OK	OK	OK	OK	OK	OK
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From Desired Operation (WPGA-TV MACON	GA BMPCDT000502AA	Ch 32) to Protected Contour:							
Azimuth	17.6	27.6	37.6	47.6	57.6	67.6	77.6	87.6	
Distance (km)	61.3	61.2	63.5	66.2	69.1	71.0	72.6	73.4	
ERP (kW)	14.159	13.416	19.245	34.896	60.822	93.811	129.492	161.181	
HAAT (m.)	206.1	208.1	215.7	212.1	214.2	210.2	208.7	205.0	
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	

From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	292.4	292.3	292.3	291.9	290.9	289.0	286.3	282.9	
Distance (km)	263.9	253.2	242.1	230.6	219.1	209.0	200.9	195.6	
ERP (Watts)	53.14	53.83	53.79	56.59	63.60	58.36	32.87	11.20	
HAAT (m.)	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	
Sig (dBu-R.ANT)	-28.7	-27.0	-25.2	-23.1	-20.7	-19.4	-20.5	-24.2	

QRM Ratios (Desired to Undesired)									
Required (dB)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	
Actual (dB)	69.7	68.0	66.2	64.1	61.7	60.4	61.5	65.2	

Results	OK	OK	OK	OK	OK	OK	OK	OK	
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Interference Caused

Overall Conclusion

From Desired Operation (BMPCDT000502AA interference
WPGA-TV Ch 32) to Protected Contour:
problem.

BLTT970401JB does not cause
to WPGA-TV BMPCDT000502AA. No

Azimuth	127.6
Distance (km)	75.1
ERP (kW)	185.458
HAAT (m.)	217.1
Sig Level (dBu)	41.0

Summary: No problem.

From undesired operation (BLTT970401JB
W32BJ Ch 32) to Protected Contour:
Azimuth 268.6
Distance (km) 206.0
ERP (Watts) 198.39
HAAT (m.) 114.9
Sig (dBu-14.0) -13.6

QRM Ratios (Desired-to-Undesired):	
Required (dB)	21.0
Actual (dB)	54.6

Result: No Problem

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 7
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

BPEDT000131AA WRLK-TV COLUMBIA SC SOUTH CAROLINA EDUCATIONAL TV COMMIS
Channel 32 Bad Offset CP N Lat 34 07 07 W Long 80 56 12
ERP: 65.000 kW; RCAMSL: 417.0 m.; HAAT: 316.0 m.; Maximum HAAT: 359.0 m.
Last Updated
FAC_ID: 61013/CURRENT DATA/
Distance from BLTT970401JB is 191.3 kilometers on a Bearing of 354.6 degrees

From Desired Operation (WRLK-TV COLUMBIA	SC	BPEDT000131AA	Ch 32)	to Protected Contour:					
Azimuth	174.5	184.5	194.5	204.5	214.5	224.5	234.5	244.5	104.5
Distance (km)	79.2	80.5	81.1	79.2	78.3	78.5	79.1	79.9	77.3
ERP (kW)	65.000	65.000	65.000	65.000	65.000	65.000	65.000	65.000	65.000
HAAT (m.)	336.7	349.5	356.0	336.0	327.0	329.4	335.5	344.1	315.6
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

From Undesired Operation (BLTT970401JB) to Protected Contour:									
Azimuth	354.6	347.5	341.1	336.8	333.7	331.5	330.3	330.0	18.3
Distance (km)	112.3	113.2	118.7	129.2	140.9	153.4	166.7	180.6	180.2
ERP (Watts)	63.48	43.57	28.76	22.43	18.81	16.47	15.27	14.95	621.32
HAAT (m.)	111.9	111.6	112.4	112.7	113.0	113.1	113.2	113.2	114.1
Sig (dBu-R.ANT)	-1.7	-3.5	-6.4	-9.6	-12.3	-15.1	-17.9	-20.4	-4.1

QRM Ratios (Desired to Undesired)									
Required (dB)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Actual (dB)	42.7	44.5	47.4	50.6	53.3	56.1	58.9	61.4	45.1

Results	OK	OK	OK	OK	OK	OK	OK	OK	OK
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From Desired Operation (WRLK-TV COLUMBIA	SC	BPEDT000131AA	Ch 32)	to Protected Contour:	
Azimuth	114.5	124.5	134.5	144.5	154.5
Distance (km)	77.5	76.7	76.7	77.2	77.3
ERP (kW)	65.000	65.000	65.000	65.000	65.000
HAAT (m.)	318.0	309.3	309.7	314.9	315.6
Sig Level (dBu)	41.0	41.0	41.0	41.0	41.0

From Undesired Operation (BLTT970401JB) to Protected Contour:					
Azimuth	18.2	17.0	14.9	11.7	7.1
Distance (km)	166.8	153.8	141.6	130.5	121.8
ERP (Watts)	619.57	544.60	433.25	286.45	171.86
HAAT (m.)	114.1	114.1	114.1	113.7	111.8
Sig (dBu-R.ANT)	-1.8	0.0	1.2	1.3	0.7

QRM Ratios (Desired to Undesired)					
Required (dB)	21.0	21.0	21.0	21.0	21.0
Actual (dB)	42.8	41.0	39.8	39.7	40.3

Results	OK	OK	OK	OK	OK
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Interference Caused

Overall Conclusion

From Desired Operation (BPEDT000131AA interference
WRLK-TV Ch 32) to Protected Contour:
problem.

Azimuth	144.5
Distance (km)	77.2
ERP (kW)	65.000
HAAT (m.)	314.9
Sig Level (dBu)	41.0

From undesired operation (BLTT970401JB W32BJ Ch 32) to Protected Contour:
Azimuth 11.7
Distance (km) 130.5
ERP (Watts) 286.45
HAAT (m.) 113.7
Sig (dBu-14.0) 1.3

QRM Ratios (Desired-to-Undesired):
Required (dB) 21.0
Actual (dB) 39.7

Result: No Problem

BLTT970401JB does not cause

to WRLK-TV BPEDT000131AA. No

Summary: No problem.

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 8
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

BMPEDT010404AB WRLK-TV COLUMBIA SC SOUTH CAROLINA EDUCATIONAL TV COMMIS
Channel 32 Bad Offset APP N Lat 34 07 06 W Long 80 56 13
ERP: 65.000 kW; RCAMSL: 415.4 m.; HAAT: 314.0 m.; Maximum HAAT: 357.0 m.
Tendered 010404 Last Updated Cutoff Date:
FAC_ID: 61013/CURRENT DATA/
Distance from BLTT970401JB is 191.3 kilometers on a Bearing of 354.6 degrees

From Desired Operation (WRLK-TV COLUMBIA	SC BMPEDT010404AB	Ch 32) to Protected Contour:	
Azimuth	174.4 184.4 194.4 204.4 214.4 224.4 234.4 244.4		104.4
Distance (km)	79.1 80.3 80.9 79.0 78.2 78.4 79.0 79.8		77.1
ERP (kW)	65.000 65.000 65.000 65.000 65.000 65.000 65.000 65.000		65.000
HAAT (m.)	335.2 348.1 354.3 334.4 325.5 327.9 333.8 342.5		314.1
Sig Level (dBu)	41.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0		
From Undesired Operation (BLTT970401JB) to Protected Contour:			
Azimuth	354.6 347.5 341.1 336.8 333.7 331.5 330.4 330.0		18.2
Distance (km)	112.4 113.3 118.8 129.3 140.9 153.4 166.7 180.5		180.2
ERP (Watts)	63.46 43.59 28.82 22.47 18.85 16.51 15.31 14.99		618.37
HAAT (m.)	111.9 111.6 112.4 112.7 113.0 113.1 113.2 113.2		114.1
Sig (dBu-R.ANT)	-1.7 -3.6 -6.4 -9.6 -12.3 -15.1 -17.8 -20.4		-4.1
QRM Ratios (Desired to Undesired)			
Required (dB)	21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0		
Actual (dB)	42.7 44.6 47.4 50.6 53.3 56.1 58.8 61.4		45.1
Results	OK OK OK OK OK OK OK OK		

From Desired Operation (WRLK-TV COLUMBIA	SC BMPEDT010404AB	Ch 32) to Protected Contour:	
Azimuth	114.4 124.4 134.4 144.4 154.4 164.4		
Distance (km)	77.3 76.5 76.6 77.0 77.1 78.0		
ERP (kW)	65.000 65.000 65.000 65.000 65.000 65.000		
HAAT (m.)	316.4 307.5 308.5 313.2 314.0 323.6		
Sig Level (dBu)	41.0 41.0 41.0 41.0 41.0 41.0		
From Undesired Operation (BLTT970401JB) to Protected Contour:			
Azimuth	18.2 16.9 14.9 11.7 7.0 1.3		
Distance (km)	166.8 153.8 141.6 130.6 121.9 115.5		
ERP (Watts)	616.25 541.16 431.01 284.25 171.22 95.16		
HAAT (m.)	114.1 114.1 114.1 113.7 111.8 111.9		
Sig (dBu-R.ANT)	-1.8 0.0 1.2 1.3 0.7 -0.6		
QRM Ratios (Desired to Undesired)			
Required (dB)	21.0 21.0 21.0 21.0 21.0 21.0		
Actual (dB)	42.8 41.0 39.8 39.7 40.3 41.6		
Results	OK OK OK OK OK OK		

Interference Caused

Overall Conclusion

From Desired Operation (BMPEDT010404AB interference
WRLK-TV Ch 32) to Protected Contour:
problem.
Azimuth 144.4
Distance (km) 77.0
ERP (kW) 65.000
HAAT (m.) 313.2
Sig Level (dBu) 41.0

BLTT970401JB does not cause
to WRLK-TV BMPEDT010404AB. No

Summary: No problem.

From undesired operation (BLTT970401JB
W32BJ Ch 32) to Protected Contour:
Azimuth 11.7
Distance (km) 130.6
ERP (Watts) 284.25
HAAT (m.) 113.7
Sig (dBu-14.0) 1.3

QRM Ratios (Desired-to-Undesired):
Required (dB) 21.0
Actual (dB) 39.7

Result: No Problem

SOUTHERN TV CORPORATION
W32BJ, BEAUFORT, SC
July 2001

MULLANEY ENGINEERING, INC.

FIGURE 1

BLTT970401JB W32BJ BEAUFORT, ETC. SC SOUTHERN TV CORPORATION Page 9
Channel 32 Plus Offset LIC N Lat 32 24 05 W Long 80 44 21 Receive Antenna Discrimination Employed
ERP: 16.600 kW; RCAMSL: 115.0 m.; GAMSL: m.; max HAAT: 115.0 m.
Directional Antenna Make: SCA; Model: 20735 ; Ref Az: 90.0
Tendered 970401 Last Updated Cutoff Date: Tier 0 TV/TX Last Updated 010605; DA Last Updated 010605
FAC_ID: 69449/CURRENT DATA/

SSSS	U	U	M	M	M	M	AA	RRRRR	Y	Y
S	U	U	MM	MM	MM	MM	A A	R R	Y Y	
SSSS	U	U	M	MM	M	M	MM	M A A	RRRRR	Y
S	U	U	M	M	M	M	AAAAAA	R R		Y
S	U	U	M	M	M	M	A A	R R		Y
SSSSS	UUUU		M	M	M	M	A A	R R		Y

Summary of Results of Study of BLTT970401JB

This study has not discovered any problems that warrant return of BLTT970401JB

234 records were considered in the range from Channel 17 to 47