

TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION FOR CONSTRUCTION PERMIT
CLASS A STATION WJYL-CA
FACILITY ID 6838
CLARKSVILLE, INDIANA
CH 45 150 KW (DA)

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of a minor change application to modify the licensed facility of Class A station WJYL-CA at Clarksville, Indiana (Facility ID: 6838; File No. BLTTA-20020710AAI). Specifically, this application proposes to change the WJYL-CA directional antenna system, increase its effective radiated power (ERP) from 42 kilowatts to 150 kilowatts, and increase its antenna radiation center height above mean sea level (RCAMSL) by one meter. No other changes are proposed. This application is considered a "minor change" in facilities pursuant to Section 73.3572(a)(2), as there will be no change in frequency (output channel) and the proposed 74 dBu contour will overlap a portion of the licensed 74 dBu contour (Figure 1).

It is proposed to operate on channel 45 (656-662 MHz) with a "plus" carrier frequency offset and employing an "omnioid" type directional antenna. The maximum ERP will be 150 kW. The antenna radiation center will remain at 92 meters above ground level (AGL), and the antenna RCAMSL will be at 392 meters.

Analog TV Broadcast Station Protection

A study has been conducted using the provisions of Section 74.705 which indicates that the proposed WJYL-CA operation will not create prohibited interference to other existing, authorized or proposed NTSC full-power stations, except with respect to the licensed (BMLCT-19860915KE) and the pending application facility (BPCT-19980617KE) of NTSC station WRGT-TV on channel 45 at Dayton, Ohio, the licensed operation (BLCT-19900209KG) of station WDRB(TV) on channel 41 at Louisville, Kentucky, and the licensed operation (BLET-19830812KP) of WKON(TV) on channel 52 at Owenton, Kentucky.

However, interference studies were prepared with respect to each of the stations above (See Figure 2 attached) based on OET Bulletin No. 69.¹ Based on our analysis no prohibited interference will be caused to any of the stations, therefore, a waiver of Section 74.705 is requested with respect to each station. It is noted that a 1 kilometer grid spacing was employed for the interference analysis.

DTV Station and DTV Table of Allotments Protection

Interference calculations for the proposed WJYL-CA operation are attached as Figure 2. As shown in Figure 2, the proposed operation complies with the FCC's 0.5% "rounding allowance" for such calculations (see paragraph 78 of MM Docket No. 00-10). Thus, it is believed that the proposed WJYL-CA operation complies with the FCC's interference standards towards all DTV stations and allotments.

LPTV/TV Translator/Class A Protection

A study has been conducted using the provisions of Section 74.707 which indicates that the WJYL-CA proposal will not create prohibited interference to other existing, authorized or proposed LPTV/Class A stations.

Land Mobile Station Protection

The proposed WJYL-CA operation does not cause interference to land mobile radio stations (LMRS).

Environmental Protection Act

The proposed WJYL-CA facilities were evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to

¹The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 1 km was employed. An Alpha based processor computer system was employed.

Radiofrequency Radiation."² The calculated power density at the base of the tower was calculated using the appropriate equation on Page 13 of the Bulletin. The vertical relative field pattern and tabulation for the proposed antenna are shown on Figure 3. Based on a relative field factor of 0.25 (for angles below 60 degrees downward, a maximum visual effective radiated power of 150 kilowatts and 10 percent aural power, the calculated power density at 2 meters above ground at the tower base will be 0.0193 mW/cm². This is 4.4% of the recommended limit of 0.44 mW/cm² for channel 45, applicable to general population/uncontrolled exposure areas. If necessary, measurements will be taken to show compliance with the new RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

In addition, it appears that the existing tower is otherwise excluded from environmental processing as it complies with all the criteria for such an exclusion in Section 1.1306.

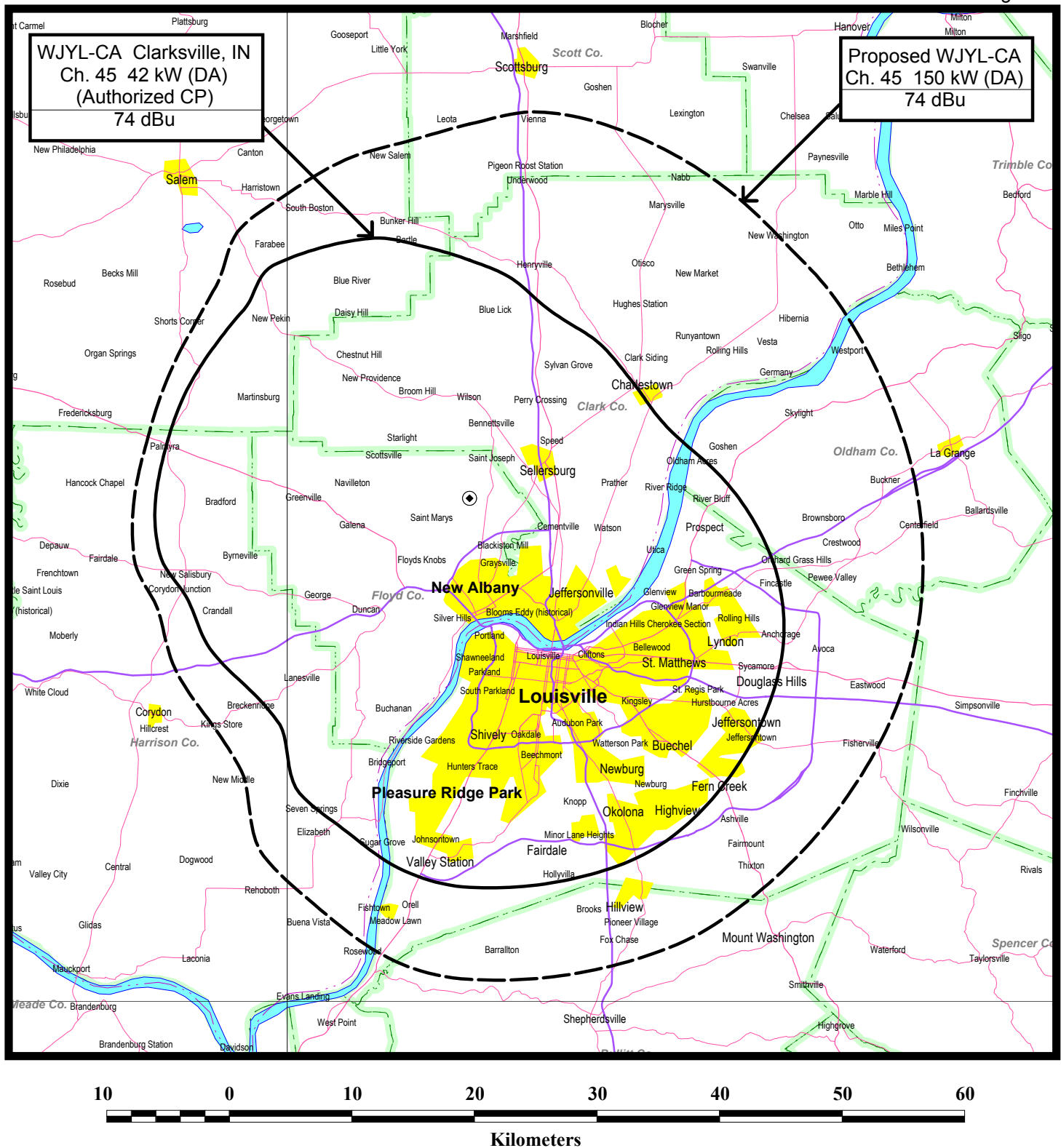

Jerome J. Manarchuck

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Sarasota, Florida 34237

December 10, 2002

² See *Report and Order* in ET Docket 93-62, FCC 96-326, adopted August 1, 1996, 11 FCC Rcd 15123 (1997). See also *First Memorandum Opinion and Order*, ET Docket 93-62, FCC 96-487, adopted December 23, 1996, 11 FCC Rcd 17512 (1997), and *Second Memorandum Opinion and Order and Notice of Proposed Rulemaking*, ET Docket 93-62, FCC 97-303, adopted August 25, 1997.

Figure 1



74 dBU COVERAGE CONTOURS

CLASS A STATION WJYL-CA
CLARKSVILLE, IN
CH 45 150 KW (DA)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

OET Bulletin No. 69 Interference Calculations with respect to pertinent NTSC and DTV stations

Study Date: 20021210
INTERFERENCE CAUSED
CELL SIZE : 1.00
Using offset in determining thresholds
Per 6th Report & Order and FCC OET-69 Bulletin

WDRB 38-21-00 085-50-57 41(+) 5000.000 kw 589 m 50.0 % 64.2 dBu
LOUISVILLE KY 23878 1395 FCC NTSC BL: 1460958 FCC IX POP%: 1.1
LIC BLCT19900209KG

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	26153.77	1460221
not affected by terrain losses	25093.06	1441326

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -23.00

	Area	Pop
Interference	0	0(0.0%)

WRGT-2 39-43-28 084-15-18 45(Z) 5000.000 kw 616 m DA 50.0 % 64.6 dBu
DAYTON OH 18391 2724 FCC NTSC BL: 2955967 FCC IX POP%: 1.2
APP BPCT19980617KE

0.88	0.74	0.61	0.51	0.46	0.47	0.55	0.66	0.80	0.93	0.99	0.98
0.88	0.74	0.61	0.52	0.46	0.48	0.55	0.66	0.80	0.92	0.99	0.97
0.88	0.71	0.60	0.50	0.46	0.47	0.54	0.65	0.80	0.92	0.99	0.98

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20144.74	2902799
not affected by terrain losses	19871.89	2848179

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 28.00

	Area	Pop
Interference	3.94	43(0.0%)

Figure 2
Sheet 2 of 12

WRGT-T 39-43-28 084-15-18 45(Z) 5000.000 kw 616 m DA 50.0 % 64.6 dBu
DAYTON OH 18391 2724 FCC NTSC BL: 2955967 FCC IX POP%: 1.2

LIC BMLCT19860915KE

0.51	0.46	0.47	0.55	0.66	0.80	0.93	0.99	0.98	0.88	0.74	0.61
0.52	0.46	0.48	0.55	0.66	0.80	0.92	0.99	0.97	0.88	0.71	0.60
0.50	0.46	0.47	0.54	0.65	0.80	0.92	0.99	0.98	0.88	0.74	0.61

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20149.80	2953897
not affected by terrain losses	19891.45	2916694

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 28.00

	Area	Pop
Interference	0	0(0.0%)

WKON2 38-31-32 084-48-40 52(+) 676.000 kw 466 m 50.0 % 65.1 dBu
OWENTON KY 10787 409 FCC NTSC BL: 428506 FCC IX POP%: 0.5

LIC BLET19830812KP

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	11233.35	429963
not affected by terrain losses	10882.06	413810

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -30.00

	Area	Pop
Interference	0	0(0.0%)

Figure 2
Sheet 3 of 12

DWKON 38-31-32 084-48-40 44(0) 50.000 kw 466 m DA 90.0 % 41.5 dBu
OWENTON KY 11101 423 DTVSERVICE: 423000 NTSCSERVICE: 409000

DTVALT DTV ALLOTMENT

0.98	0.98	0.98	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99
0.99	0.98	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00
1.00	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98

(225.0 1.00)(226.0 1.00)(227.0 1.00)(228.0 1.00)

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	11233.35	429963
not affected by terrain losses	11154.09	427397

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0(0.0%)

WKON 38-31-31 084-48-39 44(N) 49.700 kw 454 m DA 90.0 % 41.5 dBu
OWENTON KY 11101 423 DTVSERVICE: 423000 NTSCSERVICE: 409000

LIC BLEDT20011121ABI

0.67	0.68	0.67	0.66	0.64	0.62	0.61	0.60	0.61	0.63	0.67	0.71
0.77	0.82	0.87	0.92	0.95	0.98	0.99	1.00	0.99	0.98	0.95	0.92
0.87	0.82	0.77	0.71	0.67	0.63	0.61	0.60	0.61	0.62	0.64	0.66

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	13084.00	655453
not affected by terrain losses	12846.16	644238

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0(0.0%)

Figure 2
Sheet 4 of 12

DWTBU 39-50-25 086-10-34 44(0) 50.000 kw 407 m DA 90.0 % 41.5 dBu
INDIANAPOLIS IN 2526 1016 DTVSERVICE: 1016000 NTSCSERVICE: 1016000

DTVALT DTV ALLOTMENT

0.96	0.97	0.97	0.98	0.98	0.99	0.98	0.98	0.98	0.97	0.97	0.97
0.97	0.97	0.98	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.99	0.99
0.98	0.98	0.98	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	2547.386	1017210
not affected by terrain losses	2547.386	1017210

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0(0.0%)

WTBU-T 39-53-20 086-12-07 44(N) 301.000 kw 420.6 m DA 90.0 % 41.5 dBu
INDIANAPOLIS IN 2526 1016 DTVSERVICE: 1016000 NTSCSERVICE: 1016000

CP BPEDT20000428ADD

0.63	0.65	0.71	0.80	0.89	0.97	1.00	0.97	0.89	0.80	0.71	0.65
0.63	0.65	0.71	0.80	0.89	0.97	1.00	0.97	0.89	0.80	0.71	0.65
0.63	0.65	0.71	0.80	0.89	0.97	1.00	0.97	0.89	0.80	0.71	0.65

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	15789.80	1622267
not affected by terrain losses	15666.85	1620315

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -49.00

	Area	Pop
Interference	0	0(0.0%)

Figure 2
Sheet 5 of 12

WEVV 37-53-17 087-32-37 45(N) 500.000 kw 405 m 90.0 % 41.6 dBu
EVANSVILLE IN 15265 562 DTVSERVICE: 562000 NTSCSERVICE: 562000
CP BPCDT19991101AEQ

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	23977.44	712639
not affected by terrain losses	23775.12	710157

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	59.22	508(0.1%)

DWEVV 37-53-17 087-32-37 45(0) 50.000 kw 415 m DA 90.0 % 41.6 dBu
EVANSVILLE IN 15265 562 DTVSERVICE: 562000 NTSCSERVICE: 562000
DTVALT DTV ALLOTMENT

1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.98
0.98	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.99	0.99	1.00
1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	15320.04	562369
not affected by terrain losses	15308.20	562353

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	3.95	27(0.0%)

Figure 2
Sheet 6 of 12

WXIN2 39-53-20 086-12-07 45(N) 700.000 kw 536.5 m 90.0 % 41.6 dBu
INDIANAPOLIS IN 18753 1777 DTVSERVICE: 1777000 NTSCSERVICE: 1759000
CP BPCDT19991029AHB

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	25281.07	2185913
not affected by terrain losses	25048.96	2169017

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	67.86	5535(0.3%)

WXIN 39-53-20 086-12-07 45(N) 200.000 kw 536 m 90.0 % 41.6 dBu
INDIANAPOLIS IN 18753 1777 DTVSERVICE: 1777000 NTSCSERVICE: 1759000
LIC BLCDT19991105AAK

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20215.64	1856847
not affected by terrain losses	20109.43	1855112

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	24.58	1132(0.1%)

Figure 2
Sheet 7 of 12

DWXIN 39-53-20 086-12-07 45(0) 114.500 kw 554 m DA 90.0 % 41.6 dBu
INDIANAPOLIS IN 18753 1777 DTVSERVICE: 1777000 NTSCSERVICE: 1759000

DTVALT DTV ALLOTMENT

0.96	0.97	0.97	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99
0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.96

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	19269.71	1818560
not affected by terrain losses	19181.20	1816675

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	28.52	874(0.0%)

WSNS-T 41-52-44 087-38-10 45(N) 467.000 kw 652.4 m DA 90.0 % 41.6 dBu
CHICAGO IL 22393 8196 DTVSERVICE: 8196000 NTSCSERVICE: 8189000

LIC BLCDDT20010612AIB

0.79	0.71	0.55	0.41	0.46	0.46	0.51	0.52	0.50	0.60	0.68	0.69
0.70	0.68	0.70	0.68	0.54	0.42	0.50	0.41	0.45	0.68	0.60	0.69
0.77	0.74	0.88	0.89	0.92	0.95	0.88	0.89	0.90	0.68	0.74	0.78

(295.0 1.00)

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	28894.15	8481150
not affected by terrain losses	28880.17	8480972

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0(0.0%)

Figure 2
Sheet 8 of 12

DWSNS 41-53-56 087-37-23 45(0) 167.900 kw 613 m DA 90.0 % 41.6 dBu
CHICAGO IL 22393 8196 DTVSERVICE: 8196000 NTSCSERVICE: 8189000

DTVALT DTV ALLOTMENT

0.75	0.49	0.36	0.28	0.22	0.15	0.14	0.18	0.29	0.43	0.60	0.81
1.00	1.00	0.75	0.67	0.77	0.83	0.68	0.73	0.77	0.63	0.54	0.67
0.73	0.69	0.68	0.74	0.58	0.53	0.71	0.83	0.86	0.87	0.98	1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	22456.03	8208999
not affected by terrain losses	22452.03	8208894

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: 2.00

	Area	Pop
Interference	0	0(0.0%)

WFIE-2 37-53-14 087-31-07 46(N) 128.000 kw 428 m 90.0 % 41.7 dBu
EVANSVILLE IN 16742 572 DTVSERVICE: 572000 NTSCSERVICE: 577000

STA BDSTA20020709ABI

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	20148.54	653133
not affected by terrain losses	20048.85	652282

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

Figure 2
Sheet 9 of 12

WFIE-T 37-53-14 087-31-07 46(N) 250.000 kw 428 m 90.0 % 41.7 dBu
EVANSVILLE IN 16742 572 DTVSERVICE: 572000 NTSCSERVICE: 577000
CP MOD BMPCDT20020313AAW

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	22530.82	687136
not affected by terrain losses	22369.94	686292

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

DWFIET 37-53-14 087-31-07 46(0) 150.500 kw 429 m DA 90.0 % 41.7 dBu
EVANSVILLE IN 16742 572 DTVSERVICE: 572000 NTSCSERVICE: 577000
DTVALT DTV ALLOTMENT

0.50	0.39	0.29	0.22	0.20	0.17	0.15	0.16	0.15	0.17	0.20	0.23
0.31	0.43	0.54	0.63	0.74	0.91	0.91	0.84	0.97	0.97	0.93	0.97
0.96	0.95	0.96	0.93	0.89	0.92	0.89	0.81	0.86	0.86	0.73	0.64

(206.0 1.00)

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	17117.75	575847
not affected by terrain losses	17064.44	575214

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

WTHR4 39-55-43 086-10-55 46(N) 1000.000 kw 519.4 m 90.0 % 41.7 dBu
INDIANAPOLIS IN 27302 2262 DTVSERVICE: 2262000 NTSCSERVICE: 2053000
STA BEDSTA20021104AHK

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	25324.36	2194147
not affected by terrain losses	25085.50	2179929

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

WTHR3 39-55-43 086-10-55 46(N) 700.000 kw 519.4 m 90.0 % 41.7 dBu
INDIANAPOLIS IN 27302 2262 DTVSERVICE: 2262000 NTSCSERVICE: 2053000
STA BDSTA20020429ACZ

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	23489.32	2095906
not affected by terrain losses	23302.57	2080601

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

WTHR2 39-55-43 086-10-55 46(N) 250.000 kw 519 m 90.0 % 41.7 dBu
INDIANAPOLIS IN 27302 2262 DTVSERVICE: 2262000 NTSCSERVICE: 2053000
LIC BLCDT19981224KG

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	19808.08	1843766
not affected by terrain losses	19713.73	1841691

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

WTHR 39-55-43 086-10-55 46(N) 1000.000 kw 537 m 90.0 % 41.7 dBu
INDIANAPOLIS IN 27302 2262 DTVSERVICE: 2262000 NTSCSERVICE: 2053000
CP MOD BMPCDT19990715KG

Using DEFAULT vertical antenna pattern

	Area	Pop
within Noise Limited Contour	26892.35	2252721
not affected by terrain losses	26618.11	2232391

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN
LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

DWTHR 39-55-43 086-10-55 46(0) 1000.000 kw 551 m DA 90.0 % 41.7 dBu
INDIANAPOLIS IN 27302 2262 DTVSERVICE: 2262000 NTSCSERVICE: 2053000

DTVALT DTV ALLOTMENT

1.00	0.98	0.96	0.94	0.92	0.91	0.90	0.90	0.89	0.89	0.89	0.89
0.89	0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.89	0.90	0.91	0.92
0.94	0.95	0.97	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.99	1.00

Ref Az: 0.0

Using DEFAULT vertical antenna pattern

USING NTSC GRADE B FOR SERVICE AREA

	Area	Pop
within Noise Limited Contour	28295.38	2322474
not affected by terrain losses	27914.09	2292270

WJYL-C 38-22-09 085-49-46 45(+) 150.000 kw 392 m DA 10.0 % 74.0
CLARKSVILLE IN

LIC BLTTA20020710AAI

1.00	0.99	0.98	0.95	0.92	0.87	0.82	0.77	0.71	0.67	0.63	0.61
0.60	0.61	0.62	0.64	0.66	0.67	0.68	0.67	0.66	0.64	0.62	0.61
0.60	0.61	0.63	0.67	0.71	0.77	0.82	0.87	0.92	0.95	0.98	0.99

Ref Az: 150.0

Using DEFAULT vertical antenna pattern

D/U Baseline: -48.00

	Area	Pop
Interference	0	0(0.0%)

Summary of Interference:

Facility	Channel	Type	Baseline	Permissible	IX	%Base
WDRB, LOUISVILLE, KY	41	TV	1460958	0.5	0	0.00
WRGT-2, DAYTON, OH	45	TV	2955967	0.5	43	0.00
WRGT-T, DAYTON, OH	45	TV	2955967	0.5	0	0.00
WKON2, OWENTON, KY	52	TV	428506	0.5	0	0.00
DWKON, OWENTON, KY	44	DTV	423000	0.5	0	0.00
WKON, OWENTON, KY	44	DTV	423000	0.5	0	0.00
DWTBU, INDIANAPOLIS, IN	44	DTV	1016000	0.5	0	0.00
WTBU-T, INDIANAPOLIS, I	44	DTV	1016000	0.5	0	0.00
WEVV, EVANSVILLE, IN	45	DTV	562000	0.5	508	0.09
DWEVV, EVANSVILLE, IN	45	DTV	562000	0.5	27	0.00
WXIN2, INDIANAPOLIS, IN	45	DTV	1777000	0.5	5535	0.31
WXIN, INDIANAPOLIS, IN	45	DTV	1777000	0.5	1132	0.06
DWXIN, INDIANAPOLIS, IN	45	DTV	1777000	0.5	874	0.05
WSNS-T, CHICAGO, IL	45	DTV	8196000	0.5	0	0.00
DWSNS, CHICAGO, IL	45	DTV	8196000	0.5	0	0.00
WFIE-2, EVANSVILLE, IN	46	DTV	577000	0.5	0	0.00
WFIE-T, EVANSVILLE, IN	46	DTV	577000	0.5	0	0.00
DWFIET, EVANSVILLE, IN	46	DTV	577000	0.5	0	0.00
WTHR4, INDIANAPOLIS, IN	46	DTV	2262000	0.5	0	0.00
WTHR3, INDIANAPOLIS, IN	46	DTV	2262000	0.5	0	0.00
WTHR2, INDIANAPOLIS, IN	46	DTV	2262000	0.5	0	0.00
WTHR, INDIANAPOLIS, IN	46	DTV	2262000	0.5	0	0.00
DWTHR, INDIANAPOLIS, IN	46	DTV	2262000	0.5	0	0.00

Figure 3

