

MULLANEY ENGINEERING, INC.

9049 SHADY GROVE COURT
GAITHERSBURG, MD 20877

ENGINEERING EXHIBIT EE-1:

**APPLICATION FOR
CONSTRUCTION PERMIT**

**APPLICATION FOR MAXIMIZATION
OF POST-TRANSITION
DIGITAL TELEVISION PERMIT**

**GOCOM MEDIA OF ILLINOIS, LLC
WRSP-DT
DIGITAL TELEVISION CHANNEL 44
SPRINGFIELD, ILLINOIS**

FCC FACILITY NUMBER 62009

JUNE 2008

**ENGINEERING EXHIBIT
IN SUPPORT OF
APPLICATION FOR A CONSTRUCTION PERMIT FOR
MAXIMIZATION OF POST-TRANSITION
DIGITAL TELEVISION FACILITY**

**DIGITAL TELEVISION STATION WRSP-DT
SPRINGFIELD, ILLINOIS**

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DECLARATION

I, Timothy Z. Sawyer, declare and that I have provided engineering services in the area of telecommunications since 1969. My qualifications are a matter of record with the Federal Communications Commission. I am a senior engineer with the firm of Mullaney Engineering, Inc., consulting radio telecommunications engineers with offices in Gaithersburg, Maryland.

The firm of Mullaney Engineering, Inc., has been retained by GOCOM MEDIA OF ILLINOIS, LLC, to prepare the instant engineering exhibit in support of *an Application for a Construction Permit - Digital Television Broadcast Station - WRSP-DT, Springfield, Illinois for Maximization of a Post-Transition Facility, FCC FACILITY ID NUMBER: 62009.*

All facts contained herein are true of my own knowledge except those stated to be on information and belief, and as to those facts, I believe them to be true. I declare under the penalty of perjury that the foregoing is true and correct.



Timothy Z. Sawyer

Executed on the 19th day of June 2008

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GOCOM MEDIA OF ILLINOIS, LLC

**WRSP-DT
DIGITAL TELEVISION CHANNEL 44
SPRINGFIELD, ILLINOIS**

FCC FACILITY NUMBER 62009

ENGINEERING STATEMENT

The technical exhibit, of which this narrative is part, was prepared on behalf of GOCOM MEDIA OF ILLINOIS, LLC, in support of an application for a construction permit to maximize the facilities of Digital Television Station WRSP-DT, Springfield, Illinois. The FCC facility identification number is 62009.

The proposed station will operate on Digital TV Channel 44 with an effective radiated power (ERP) of 750 kilowatts and an antenna height above average terrain (HAAT) of 415 meters utilizing a directional antenna.

The request to modify the current digital facility is a result of the Commission's lifting of the August 3, 2004 "freeze" concerning expansion of service area.¹ This

¹

Public Notice "*Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately*" DA 08-1213, released May 30, 2008.

instant application is intended to be filed by June 20, 2008 in response to the FCC notice.

WRSP-DT is licensed to operate on Channel 44 as a digital television facility with an effective radiated power of 335 kilowatts and a height above average terrain of 415 meters. That permit authorizes the use of a nondirectional antenna. The supporting structure has been registered with the FCC and issued tower registration number 1008934.

WRSP-DT proposes to modify its license by increasing the authorized effective radiated power to 750 kilowatts. No other changes are proposed.

The proposal would not be subject to environmental processing in accordance with 47 C.F.R. §1.1306. This proposal does not involve a site location specified under 47 C.F.R. §1.1307 (a)(1)-(7), or involve high intensity lighting under 47 C.F.R. §1.1307(a)(8) or result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in 47 C.F.R. §1.1307(b).

This application conforms with all applicable rules and regulations of the Federal Communications Commission.

The proposed transmitting facility will use the authorized nondirectional antenna a DIE TFU-26DSC-R O4, mounted on the existing guyed, uniform cross-section, steel tower. No increase in tower height will occur, and no changes to the nondirectional antenna radiation pattern or its mounting height above ground or sea level will occur.

ANTENNA DETAILS (FIGURE 1)

Figure 1 contains the details of the proposed antenna as required by the Commission's rules. The antenna employs horizontal polarization and an electrical beam tilt of 0.75 degrees. There are no changes to the antenna system from that previously authorized and in use by the station.

FCC F(50,90) COVERAGE CONTOURS (FIGURE 2)

The predicted 41 and 48 dBu f(50,90) coverage contours were calculated in accordance with the provisions of 47 C.F.R. §73.313. In accordance with current FCC practice, no consideration was given to terrain roughness correction factors.

The average terrain elevations from 3 to 16 kilometers from the proposed site were obtained from the N.G.D.C. 3-second terrain database. 360 radials, evenly spaced at 1-degree intervals were used for determining the average terrain elevations and the distance to the service contours.

The antenna radiation center heights above average terrain in the individual radial directions and the effective radiated power in the appropriate directions were used in conjunction with the appropriate F(50,90) curve contained with the Commission's rules.

The proposed digital service contours have been drawn on the map in Figure 2. As the map in Figure 2 shows, the 48 dBu (City Grade) contour from this proposal completely encompasses the city of license, Springfield, Illinois.

POPULATION AND AREA

The population to be served within the predicted digital service contour was determined by a computer program that adds the population of census districts whose centroids lie within the contour as defined in OET Bulletin 69. The 2000 U.S. Census data was employed. The area within the digital service contour was calculated by a computer program using a root mean square algorithm.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 Method	Appendix B	Proposed
Within Noise Limited Contour	881000	1,139,831
Service Match to Appendix B	----	129.4%

INTERFERENCE STUDY

Figure 3, contains a detailed interference study using the procedures outlined in OET Bulletin Number 69 ² and complies with the 0.5 percent limit of new interference caused to Appendix B facilities and/or current post-transition authorizations of nearby stations of concern. Protection requirements to Class A television stations were also considered in this study if applicable. The proposed facility is fully spaced to all post-transition facilities or allotments.

ENVIRONMENTAL CONSIDERATIONS

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

Power density contribution from the proposed operation was computed using the appropriate equations of the OET Bulletin 65. The maximum radiated power is 750 kilowatts. Using a "worst-case" relative field pattern of 0.5 for all values 10 degrees and greater below the horizon, the power density was computed at a level of 2 meters

2

The implementation of OET Bulletin number 69 for this study followed the guidelines of the bulletin as specified therein. A standard cell size of 2-kilometers was employed. Comparisons of various results of this computer program to the Commission's implementation of the bulletin shows excellent correlation.

above ground to be 0.0153 mW/cm² or 0.71% of the recommended limit of 2.167 mW/cm² for a controlled area at the base of the tower and 3.53 % of the recommended limit of 0.433 mW/cm² for an uncontrolled area.

Therefore, at ground level (and 2 meters above), at the base of the tower, the potential for radiofrequency radiation exposure will be well within the FCC guidelines.

The "worst-case" minimum distance from the antenna was computed to be 38.4 meters for a controlled environment. As the minimum distance is more than 368.6 meters above ground level, no exposure in excess of the guidelines to workers is predicted to occur from this proposal at ground level.

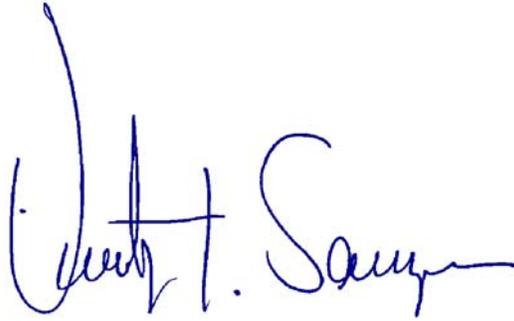
The permittee/licensee/applicant will coordinate with other users of the site and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of the FCC guidelines.

Suitable warning signs and a fence or other devices have been placed at the base of the tower to prevent unauthorized access. If work is required on the tower, the power to the antenna will be terminated or reduced as required. The applicant will fully comply with the provisions contained within the OET bulletin.

The tower has been in service for a number of years and as no new tower construction will occur this proposal is fully exempt from further environmental processing or notification.

Inquiries concerning the technical portion of this application should be directed to the office of the undersigned.

June 19, 2008

A handwritten signature in blue ink, reading "Timothy Z Sawyer". The signature is written in a cursive style with a large initial "T" and "S".

Timothy Z Sawyer
Mullaney Engineering, Inc.

FIGURE 1

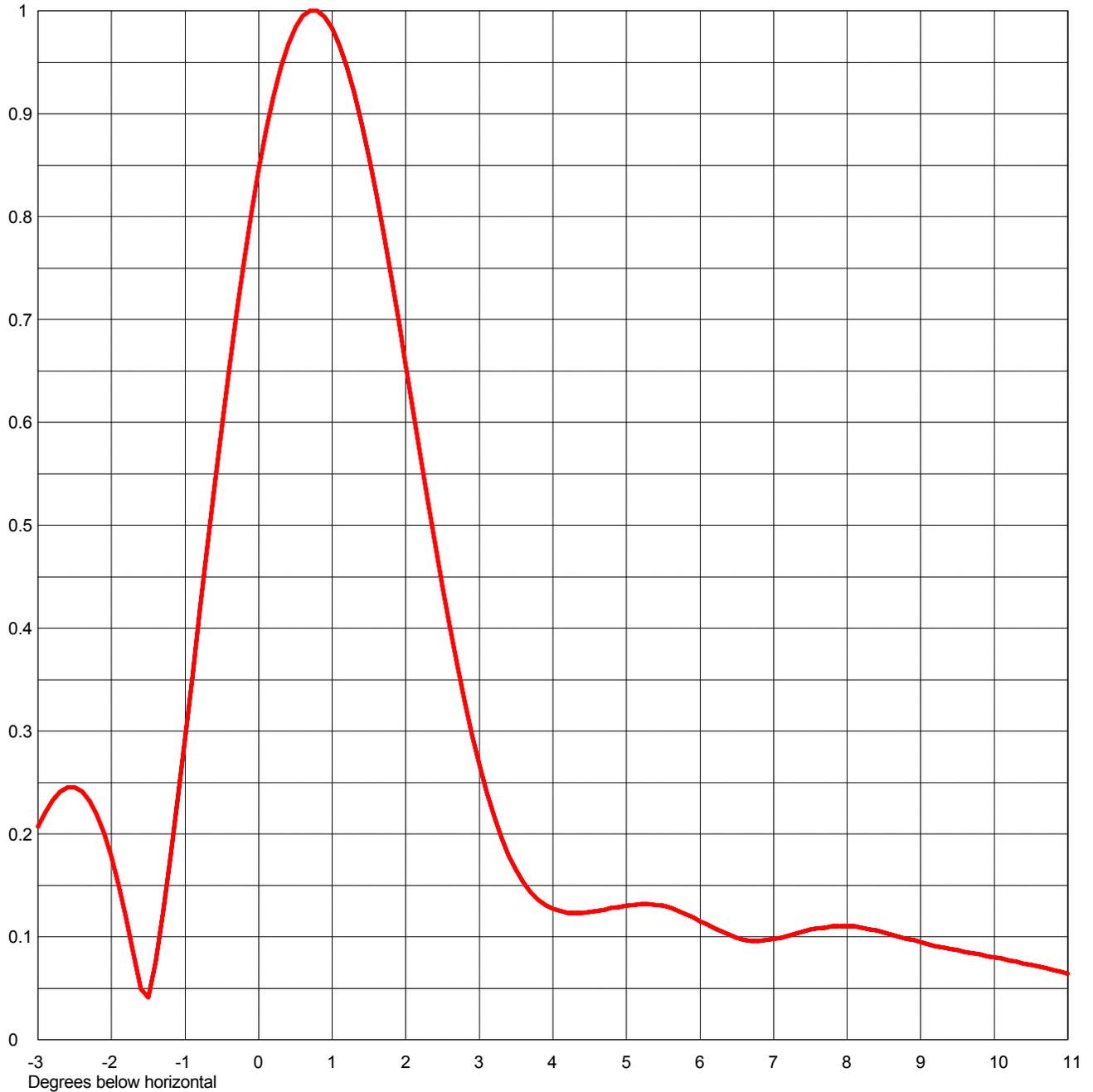
WRSP-DT NONDIRECTIONAL ANTENNA DETAILS
NO CHANGE IN PREVIOUS AUTHORIZED ANTENNA



Date 16 Dec 2004
Call Letters **WRSP-DT** Channel **44**
Location **Springfield, IL**
Customer
Antenna Type **TFU-26DSC-R O4**

ELEVATION PATTERN

RMS Gain at Main Lobe	22.5 (13.52 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	16.1 (12.07 dB)	Frequency	653.00 MHz
Calculated / Measured	Calculated	Drawing #	26Q225075



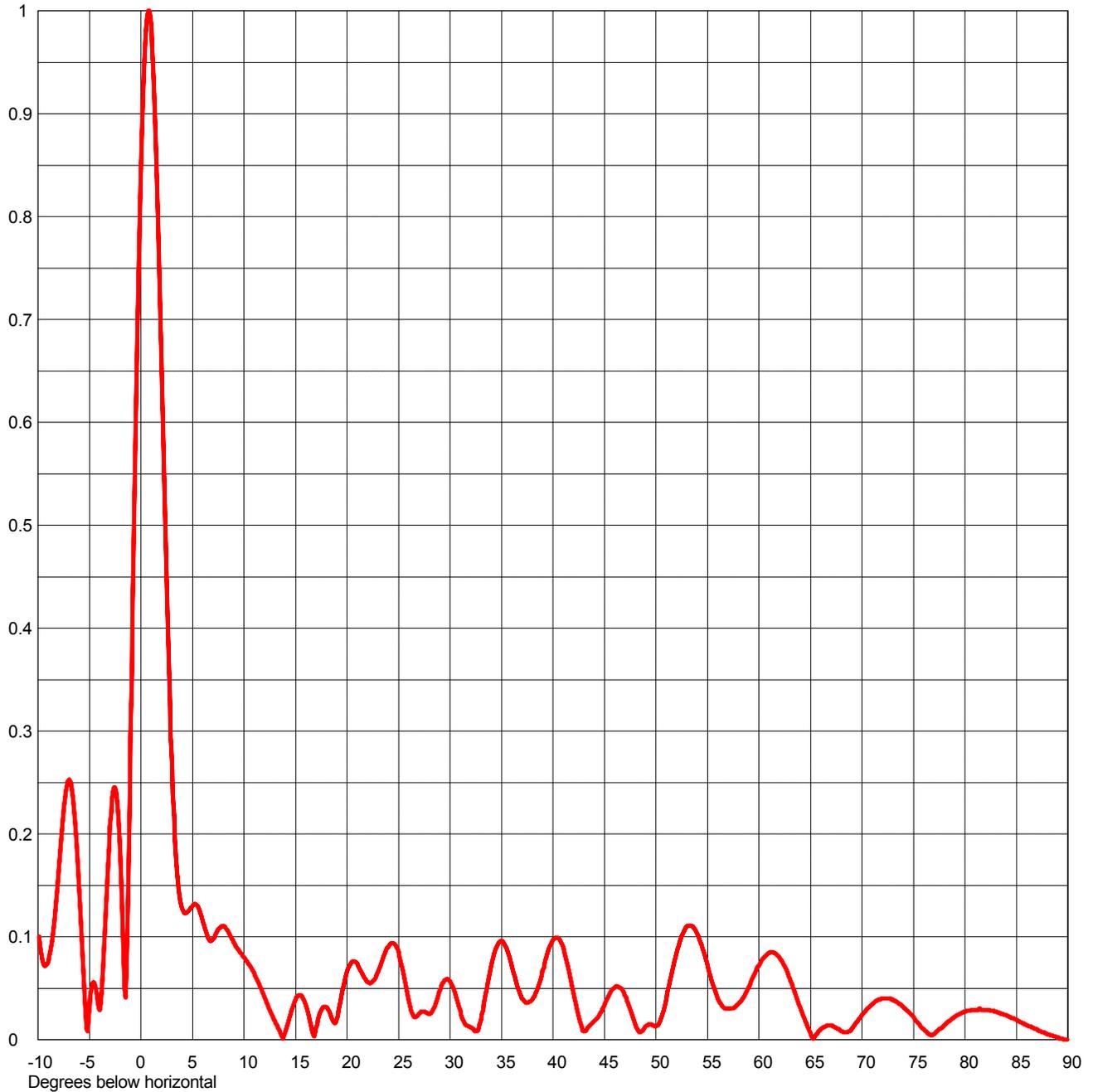
Remarks:



Date 16 Dec 2004
Call Letters **WRSP-DT** Channel **44**
Location **Springfield, IL**
Customer
Antenna Type **TFU-26DSC-R O4**

ELEVATION PATTERN

RMS Gain at Main Lobe	22.5 (13.52 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	16.1 (12.07 dB)	Frequency	653.00 MHz
Calculated / Measured	Calculated	Drawing #	26Q225075-90



Remarks:



Date 16 Dec 2004
 Call Letters **WRSP-DT** Channel **44**
 Location **Springfield, IL**
 Customer
 Antenna Type **TFU-26DSC-R O4**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **26Q225075-90**

Angle	Field										
-10.0	0.110	2.4	0.482	10.6	0.071	30.5	0.045	51.0	0.040	71.5	0.038
-9.5	0.074	2.6	0.401	10.8	0.068	31.0	0.028	51.5	0.062	72.0	0.040
-9.0	0.077	2.8	0.329	11.0	0.064	31.5	0.015	52.0	0.084	72.5	0.040
-8.5	0.106	3.0	0.267	11.5	0.054	32.0	0.012	52.5	0.101	73.0	0.039
-8.0	0.163	3.2	0.217	12.0	0.041	32.5	0.008	53.0	0.110	73.5	0.036
-7.5	0.225	3.4	0.179	12.5	0.029	33.0	0.019	53.5	0.110	74.0	0.032
-7.0	0.253	3.6	0.153	13.0	0.018	33.5	0.045	54.0	0.103	74.5	0.027
-6.5	0.225	3.8	0.136	13.5	0.008	34.0	0.071	54.5	0.089	75.0	0.022
-6.0	0.146	4.0	0.127	14.0	0.007	34.5	0.090	55.0	0.072	75.5	0.016
-5.5	0.046	4.2	0.123	14.5	0.024	35.0	0.096	55.5	0.055	76.0	0.010
-5.0	0.034	4.4	0.123	15.0	0.039	35.5	0.089	56.0	0.040	76.5	0.005
-4.5	0.055	4.6	0.125	15.5	0.043	36.0	0.072	56.5	0.032	77.0	0.005
-4.0	0.029	4.8	0.128	16.0	0.034	36.5	0.053	57.0	0.030	77.5	0.010
-3.5	0.109	5.0	0.130	16.5	0.014	37.0	0.040	57.5	0.031	78.0	0.014
-3.0	0.207	5.2	0.132	17.0	0.011	37.5	0.036	58.0	0.035	78.5	0.018
-2.8	0.233	5.4	0.131	17.5	0.028	38.0	0.039	58.5	0.041	79.0	0.022
-2.6	0.245	5.6	0.128	18.0	0.032	38.5	0.050	59.0	0.051	79.5	0.025
-2.4	0.241	5.8	0.122	18.5	0.021	39.0	0.067	59.5	0.062	80.0	0.027
-2.2	0.219	6.0	0.115	19.0	0.019	39.5	0.085	60.0	0.072	80.5	0.028
-2.0	0.178	6.2	0.108	19.5	0.044	40.0	0.097	60.5	0.080	81.0	0.029
-1.8	0.118	6.4	0.102	20.0	0.066	40.5	0.099	61.0	0.084	81.5	0.030
-1.6	0.049	6.6	0.097	20.5	0.076	41.0	0.089	61.5	0.084	82.0	0.029
-1.4	0.076	6.8	0.096	21.0	0.074	41.5	0.070	62.0	0.080	82.5	0.028
-1.2	0.178	7.0	0.098	21.5	0.064	42.0	0.045	62.5	0.071	83.0	0.027
-1.0	0.295	7.2	0.101	22.0	0.056	42.5	0.022	63.0	0.059	83.5	0.025
-0.8	0.416	7.4	0.105	22.5	0.057	43.0	0.008	63.5	0.046	84.0	0.024
-0.6	0.537	7.6	0.108	23.0	0.066	43.5	0.013	64.0	0.032	84.5	0.021
-0.4	0.652	7.8	0.110	23.5	0.079	44.0	0.018	64.5	0.018	85.0	0.019
-0.2	0.756	8.0	0.110	24.0	0.090	44.5	0.024	65.0	0.006	85.5	0.017
0.0	0.846	8.2	0.109	24.5	0.094	45.0	0.034	65.5	0.004	86.0	0.014
0.2	0.917	8.4	0.106	25.0	0.085	45.5	0.044	66.0	0.010	86.5	0.012
0.4	0.967	8.6	0.102	25.5	0.064	46.0	0.051	66.5	0.013	87.0	0.010
0.6	0.995	8.8	0.098	26.0	0.038	46.5	0.051	67.0	0.014	87.5	0.007
0.8	1.000	9.0	0.095	26.5	0.022	47.0	0.043	67.5	0.012	88.0	0.005
1.0	0.983	9.2	0.091	27.0	0.025	47.5	0.030	68.0	0.008	88.5	0.004
1.2	0.945	9.4	0.088	27.5	0.027	48.0	0.015	68.5	0.007	89.0	0.002
1.4	0.890	9.6	0.085	28.0	0.025	48.5	0.007	69.0	0.010	89.5	0.001
1.6	0.821	9.8	0.083	28.5	0.032	49.0	0.013	69.5	0.017	90.0	0.000
1.8	0.741	10.0	0.080	29.0	0.047	49.5	0.015	70.0	0.024		
2.0	0.656	10.2	0.077	29.5	0.058	50.0	0.013	70.5	0.030		
2.2	0.568	10.4	0.074	30.0	0.057	50.5	0.021	71.0	0.035		

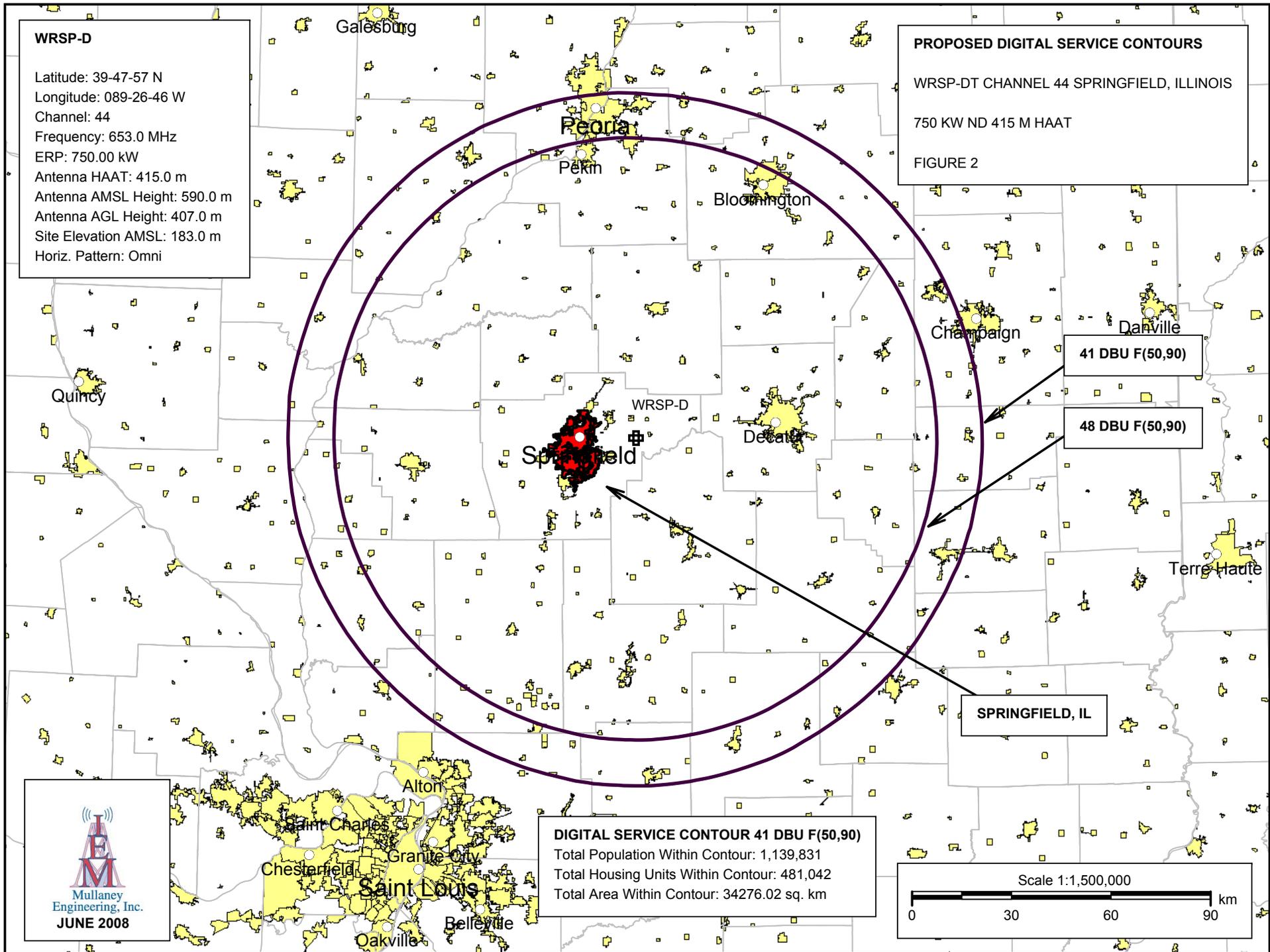
Remarks:

WRSP-D

Latitude: 39-47-57 N
Longitude: 089-26-46 W
Channel: 44
Frequency: 653.0 MHz
ERP: 750.00 kW
Antenna HAAT: 415.0 m
Antenna AMSL Height: 590.0 m
Antenna AGL Height: 407.0 m
Site Elevation AMSL: 183.0 m
Horiz. Pattern: Omni

PROPOSED DIGITAL SERVICE CONTOURS

WRSP-DT CHANNEL 44 SPRINGFIELD, ILLINOIS
750 KW ND 415 M HAAT
FIGURE 2



41 DBU F(50,90)

48 DBU F(50,90)

SPRINGFIELD, IL

DIGITAL SERVICE CONTOUR 41 DBU F(50,90)

Total Population Within Contour: 1,139,831
Total Housing Units Within Contour: 481,042
Total Area Within Contour: 34276.02 sq. km

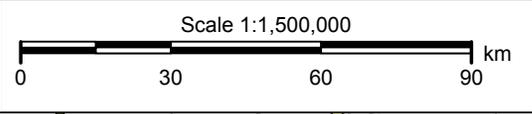


FIGURE 3 OET BULLETIN 69 INTERFERENCE STUDY RESULTS

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-19-2008 Time: 00:25:27

Record Selected for Analysis

WRSP-D USERRECORD-01 SPRINGFIELD IL US
Channel 44 ERP 750. kW HAAT 415. m RCAMSL 00590 m
Latitude 039-47-57 Longitude 0089-26-46
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	750.000	406.4	103.9
45.0	750.000	408.2	104.0
90.0	750.000	411.5	104.3
135.0	750.000	413.0	104.4
180.0	750.000	418.5	104.9
225.0	750.000	420.4	105.1
270.0	750.000	419.9	105.0
315.0	750.000	418.3	104.9

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

No spacing violations found to other full service stations

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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

Channel	Proposed Station Call	City/State	ARN
44	WRSP-D	SPRINGFIELD IL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
43	KTVI	ST. LOUIS MO	161.6	LIC	BDTV	-0883
44	WDTI	INDIANAPOLIS IN	277.0	LIC	BDTV	-0586
44	WKON	OWENTON KY	423.8	LIC	BDTV	-0663
44	KYTV	SPRINGFIELD MO	421.4	LIC	BDTV	-0874
44	WWAZ-TV	FOND DU LAC WI	411.7	LIC	BDTV	-1739

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	KTVI	ST. LOUIS MO	BDTV	-0883

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
42	WICS	SPRINGFIELD IL	161.5	LIC	BDTV	-0558
43	WKZT-TV	ELIZABETHTOWN KY	407.4	LIC	BDTV	-0641
43	KODE-TV	JOPLIN MO	400.0	LIC	BDTV	-0856
43	WBBJ-TV	JACKSON TN	354.9	LIC	BDTV	-1455
44	WRSP-D	SPRINGFIELD IL	161.6	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 43A MO ST. LOUIS BDTV 0883 LIC
 HAAT 337.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2857470	31236.9
not affected by terrain losses	2851283	30754.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4	12.1
lost to ATV IX only	4	12.1
lost to all IX	4	12.1

Potential Interfering Stations Included in above Scenario 1

43A TN JACKSON BDTV 1455 LIC

After Analysis

Results for: 43A MO ST. LOUIS BDTV 0883 LIC
 HAAT 337.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2857470	31236.9
not affected by terrain losses	2851283	30754.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	820	76.4
lost to ATV IX only	820	76.4
lost to all IX	820	76.4

Potential Interfering Stations Included in above Scenario 1

43A TN JACKSON BDTV 1455 LIC
 44A IL SPRINGFIELD USERRECORD01 APP
 *Percent Service lost without proposal: 0.0 to BDTV 0883
 *Percent Service lost with proposal: 0.0 to BDTV 0883

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 43A MO ST. LOUIS BDTV 0883 LIC
 HAAT 337.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2857470	31236.9
not affected by terrain losses	2851283	30754.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4	12.1
lost to ATV IX only	4	12.1
lost to all IX	4	12.1

Potential Interfering Stations Included in above Scenario 2

43A TN JACKSON BDTV 1455 LIC

After Analysis

Results for: 43A MO ST. LOUIS BDTV 0883 LIC
 HAAT 337.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2857470	31236.9
not affected by terrain losses	2851283	30754.1

lost to NTSC IX	0	0.0
lost to additional IX by ATV	820	76.4
lost to ATV IX only	820	76.4
lost to all IX	820	76.4

Potential Interfering Stations Included in above Scenario 2

43A TN JACKSON	BDTV	1455	LIC
44A IL SPRINGFIELD	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	0883
*Percent Service lost with proposal:	0.0	to BDTV	0883

#####

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WDTI	INDIANAPOLIS IN	BDTV	-0586

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
44	WTSF	ASHLAND KY	366.0	LIC	BDTV	-0632
44	WKON	OWENTON KY	193.2	LIC	BDTV	-0663
44	WZPX	BATTLE CREEK MI	324.3	LIC	BDTV	-0767
44	WWJ-TV	DETROIT MI	380.9	LIC	BDTV	-0780
44	WTLW	LIMA OH	196.7	LIC	BDTV	-1213
44	WJFB	LEBANON TN	415.5	LIC	BDTV	-1465
45	WXIN	INDIANAPOLIS IN	0.0	LIC	BDTV	-0587
44	WRSP-D	SPRINGFIELD IL	277.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
 Scenario 1 Affected station 2
 Before Analysis

Results for: 44A IN INDIANAPOLIS BDTV 0586 LIC

HAAT 167.0 m, ATV ERP 215.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1901372	16038.7
not affected by terrain losses	1899564	15954.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	68927	1649.8
lost to ATV IX only	68927	1649.8
lost to all IX	68927	1649.8

Potential Interfering Stations Included in above Scenario 1

44A KY OWENTON	BDTV	0663	LIC
44A OH LIMA	BDTV	1213	LIC
45A IN INDIANAPOLIS	BDTV	0587	LIC

After Analysis

Results for: 44A IN INDIANAPOLIS BDTV 0586 LIC
 HAAT 167.0 m, ATV ERP 215.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1901372	16038.7
not affected by terrain losses	1899564	15954.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	69427	1681.8
lost to ATV IX only	69427	1681.8
lost to all IX	69427	1681.8

Potential Interfering Stations Included in above Scenario 1

44A KY OWENTON	BDTV	0663	LIC
44A OH LIMA	BDTV	1213	LIC
45A IN INDIANAPOLIS	BDTV	0587	LIC
44A IL SPRINGFIELD	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BDTV 0586
*Percent Service lost with proposal:		0.0	to BDTV 0586

Result key: 4
 Scenario 2 Affected station 2
 Before Analysis

Results for: 44A IN INDIANAPOLIS BDTV 0586 LIC
 HAAT 167.0 m, ATV ERP 215.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1901372	16038.7
not affected by terrain losses	1899564	15954.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	68927	1649.8
lost to ATV IX only	68927	1649.8
lost to all IX	68927	1649.8

Potential Interfering Stations Included in above Scenario 2

44A KY OWENTON	BDTV	0663	LIC
44A OH LIMA	BDTV	1213	LIC
45A IN INDIANAPOLIS	BDTV	0587	LIC

After Analysis

Results for: 44A IN INDIANAPOLIS BDTV 0586 LIC
 HAAT 167.0 m, ATV ERP 215.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1901372	16038.7
not affected by terrain losses	1899564	15954.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	69427	1681.8
lost to ATV IX only	69427	1681.8
lost to all IX	69427	1681.8

Potential Interfering Stations Included in above Scenario 2

44A KY OWENTON	BDTV	0663	LIC
44A OH LIMA	BDTV	1213	LIC
45A IN INDIANAPOLIS	BDTV	0587	LIC
44A IL SPRINGFIELD	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BDTV 0586

*Percent Service lost with proposal: 0.0 to BDTV 0586

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WKON	OWENTON KY	BDTV	-0663

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
43	WKZT-TV	ELIZABETHTOWN KY	130.1	LIC	BDTV	-0641
43	WPBO	PORTSMOUTH OH	154.1	LIC	BDTV	-1219
44	WDTI	INDIANAPOLIS IN	193.2	LIC	BDTV	-0586
44	WTSF	ASHLAND KY	210.0	LIC	BDTV	-0632
44	WTLW	LIMA OH	254.5	LIC	BDTV	-1213
44	WJFB	LEBANON TN	297.8	LIC	BDTV	-1465
45	WXIN	INDIANAPOLIS IN	193.2	LIC	BDTV	-0587
44	WRSP-D	SPRINGFIELD IL	423.8	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	KYTV	SPRINGFIELD MO	BDTV	-0874

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
43	KODE-TV	JOPLIN MO	141.9	LIC	BDTV	-0856
44	KWBF	LITTLE ROCK AR	267.3	LIC	BDTV	-0085
44	WRSP-D	SPRINGFIELD IL	421.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WWAZ-TV	FOND DU LAC WI	BDTV	-1739

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
43	KFXB	DUBUQUE IA	198.7	LIC	BDTV	-0475
43	WCPX	CHICAGO IL	188.0	LIC	BDTV	-0527
43	WWRB-TV	MAYVILLE WI	0.3	LIC	BDTV	-1756
44	WZPX	BATTLE CREEK MI	293.3	LIC	BDTV	-0767
45	WSNS-TV	CHICAGO IL	188.0	LIC	BDTV	-0528
44	WRSP-D	SPRINGFIELD IL	411.7	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WRSP-D	SPRINGFIELD IL	USERRECORD-01	

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
43	KTVI	ST. LOUIS MO	161.6	LIC	BDTV	-0883
44	WDTI	INDIANAPOLIS IN	277.0	LIC	BDTV	-0586
44	WKON	OWENTON KY	423.8	LIC	BDTV	-0663
44	KYTV	SPRINGFIELD MO	421.4	LIC	BDTV	-0874
44	WWAZ-TV	FOND DU LAC WI	411.7	LIC	BDTV	-1739

Total scenarios = 1

Result key: 5
Scenario 1 Affected station 6
Before Analysis

Results for: 44A IL SPRINGFIELD USERRECORD01 APP
HAAT 415.0 m, ATV ERP 750.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1101646	33556.4
not affected by terrain losses	1098559	33452.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3121	132.0
lost to ATV IX only	3121	132.0
lost to all IX	3121	132.0

Potential Interfering Stations Included in above Scenario 1

43A MO ST. LOUIS BDTV 0883 LIC

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