

ENGINEERING STATEMENT
MODIFICATION OF CONSTRUCTION PERMIT
RE DTV BROADCAST ENGINEERING DATA
ON BEHALF OF
MISSION BROADCASTING, INC.
KOLR-DT, SPRINGFIELD, MISSOURI
CHANNEL 52 1000 KW ERP ND 546 METERS HAAT

JUNE 2005

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

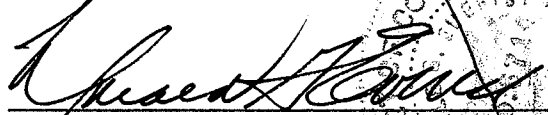
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

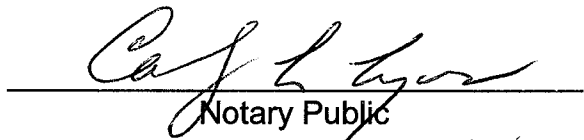
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 30th day of June, 2005.



Notary Public

My Commission Expires: 2/28/2008

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

Martin R. Doczkat being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



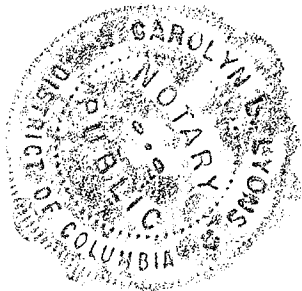
Martin R. Doczkat

Subscribed and sworn to before me this 30th day of June, 2005.



Notary Public

My Commission Expires: 2/28/2008



This engineering statement has been prepared on behalf of Mission Broadcasting, Inc., licensee of KOLR(TV), Springfield, Missouri. The purpose of this engineering statement is to accompany its request to modify its outstanding construction permit for digital television ("DTV") facilities (FCC File No. BPCDT-19990331KM) and to supplement those data required in FCC Form 301, Section III-D.

KOLR(TV) operates on NTSC Television Channel 10 with a maximum visual horizontal effective radiated power ("ERP") of 316 kW non-directional (horizontal polarization) at a height above average terrain ("HAAT") of 631 meters. KOLR-DT has been allocated DTV Channel 52 with facilities of 1000 kW at a HAAT of 631 meters in the revised DTV Table of Allotments.¹ KOLR-DT has been authorized facilities of 1000 kW non-directional ERP at a HAAT of 573 meters in the outstanding construction permit. KOLR-DT proposes to construct DTV facilities of 1000 kW non-directional (horizontal polarization) at an HAAT of 546 meters. The proposed KOLR-DT antenna will be diplexed with KSFX-DT in a dual-channel MCI antenna.

There are no AM stations located within 3.22 km of the existing KOLR(TV) tower site. There are no FM stations, however, there are three full-service NTSC stations, two other full-service DTV stations, and one TV translator located and transmitting within 100 meters of this site. The call signs for these facilities are: KOLR(TV), KOLR-DT, KSFX-TV, KSFX-DT, KSPR(TV), KSPR-DT, and K41FQ (TX).

¹"In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service", MM Docket No. 87-286, Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order (FCC 98-24), 2/12/98, DTV Table of Allotments, Appendix B.

The DTV antenna will be side-mounted on an existing tower having a total overall structure height above ground of 608.4 meters (1996 feet). The existing transmitter site is located ST Hwy. FNR (#30481), Marshfield, Missouri.

Since there is no change in overall height, FAA airspace approval is not required. The tower registration number of the existing tower is 1028721. Exhibit E-1 is a diagram of the tower and transmitting antenna.

The geographic coordinates of the existing site are:

North Latitude: 37° 13' 08"

West Longitude: 92° 56' 56"

NAD-27

Equipment Data

Antenna: MCI, Type #9551516 (or equivalent) 16-bay horizontally polarized antenna with 0.75° electrical beam tilt. The vertical plane pattern and other exhibits required by Section 73.625(c) are herein included in Exhibit E-2.

Power Data

Transmitter output	46.7 kW	16.69 dBK
8" rigid EHT transmission line loss	67.7%	1.69 dB
	94%	0.27 dB
Input power to the antenna	29.72 kW	14.73 dBk
Antenna power gain, Main Lobe	33.65	15.27 dB
Effective Radiated Power, Maximum	1000 kW	30.0 dBk

Elevation Data

Vertical dimension of Channel 52 side-mounted antenna	18.6 meters 61 feet
Overall height above ground of the antenna structure (including beacon and lightning protection)	608.4 meters 1996 feet
Center of radiation of Channel 52 antenna above ground	507.5 meters 1665 feet
Elevation of site above mean sea level	480.1 meters 1575 feet
Center of radiation of Channel 52 antenna above mean sea level	987.6 meters 3240 feet
Overall height above mean sea level of the tower (including beacon)	1088.5 meters 3571 feet
Antenna height above average terrain	546 meters

NOTE: Slight height differences result due to conversion to metric.

Allocation

An allocation spacing study from the proposed site has not been performed as the proposed DTV facilities are to be located at the coordinates authorized by the outstanding construction permit (FCC File No. BPCDT-19990331KM).

Coverage

The average elevation data for 3.2 to 16.1 km along each radial has been determined from FCC 3-Second Data. The F(50,90) DTV coverage contour has been computed from reference to the propagation data for Channels 14-69, as published by the FCC in Figure 10b and Figure 10c, Section 73.699 of the FCC Rules and Regulations.

Utilizing the formula in Section 73.625(b)(2) of the Rules for the effective heights, it is found that the depression angle, A_h , varies from 0.625 to 0.662 degrees. Since the relative vertical field is greater than 90% of the maximum at these depression angles, the maximum power was used in determining the distance to the DTV contour.

Table I includes the distances to the predicted 48 dBu and 41 dBu F(50,90) coverage contours, the average elevation 3.2 to 16.1 km, and the antenna height above average terrain for the eight cardinal radials.

Interference Analysis

A study of predicted interference caused by the proposed KOLR-DT service has not been performed as the proposed F(50,90) 41 dBu contour is not predicted to extend in any direction beyond that authorized by the F(50,90) 41 dBu contour of the outstanding construction permit.

Other Licensed and Broadcast Facilities

No adverse technical effect is anticipated by the proposed DTV operation to any other FCC licensed facility. If required, the permittee will install filters or take other measures as necessary to resolve the problem.

FCC Rule, Section 1.1307

The proposed 1000 kW operation will utilize an MCI, Type #9551516 antenna or the equivalent as described above with a center of radiation above ground of 507.5 meters. The proposed antenna will be side-mounted on a single guyed, uniform, cross-section, steel lattice tower with an overall height of 608.4 meters AGL.

As previously indicated, there are no AM stations located within 3.22 km of the existing tower site. According to the FCC data base with the exception of KOLR(TV), KOLR-DT, KSFX-TV, KSFX-DT, KSPR(TV), KSPR-DT, and K41FQ (TX), there are no other stations located within 100 meters. The property on which the proposed tower is located is ST Hwy FNR (#30481). Access to the tower will be prevented by a six foot chain link fence with a locked gate.

The radiofrequency field level ("RFF") contribution of KOLR-DT will be added to the calculated value of the total RFF level of all other broadcast stations operating from the tower. The proposed operation based upon the current OET Bulletin No.65, Edition 97-01 dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field guidelines, and thus, complies with Section 1.1307 of the FCC Rules.

<u>Station</u>	<u>Frequency</u>	<u>Ch</u>	<u>Status</u>	<u>ERP (kW)</u>	<u>RCAGL(m) ¹</u>	<u>F ²</u>	<u>S (: W/cm²)</u>	<u>RFF % ³</u>
KSFX-DT	557	28	CPmod	960	505.5	0.1	1.26	0.3
KSFX-TV	551	27	CP	5000	476.4	0.2	14.8	4.0
KOLR(TV)	195	10	Lic	316	590.9	0.2	0.6	0.2
KSPR(TV)	587	33	Lic	5000	550.9	0.2	11.0	2.8
KSPR-DT	503	19	CP	1000	550.9	0.1	1.10	0.3
KOLR-DT	701	52	Prop	1000	505.5	0.1	1.31	0.3
K41FQ	635	41	Lic	76	211.6	0.2	1.14	0.3

1. Radiation Center - 2 m

2. F = Relative Downward Field

3. Limit for an uncontrolled environment

The total contribution by the NTSC stations and the KOLR-DT proposed DTW operations at 2 meters above ground level is less than 8.2% of the current FCC guidelines for general population exposure.

Authorized personnel and rigging contractors will be alerted to the potential zone of high radiation on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations since the permittee indicates:

- (a)(1) The proposed facilities on an existing communications site are not located in an officially designated wilderness area.
- (a)(2) The proposed facilities on an existing communications site are not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities will not affect any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The proposed facilities are not located near any known Indian religious sites.
- (a)(6) The proposed facilities are not located in a flood plain.

- (a)(7) The operation of the DTV facilities on the tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to change the existing tower lighting unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines in accordance with OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A. A security fence with a locked gate precludes unauthorized access to the tower site.

ABOVE MEAN SEA LEVEL

ABOVE GROUND

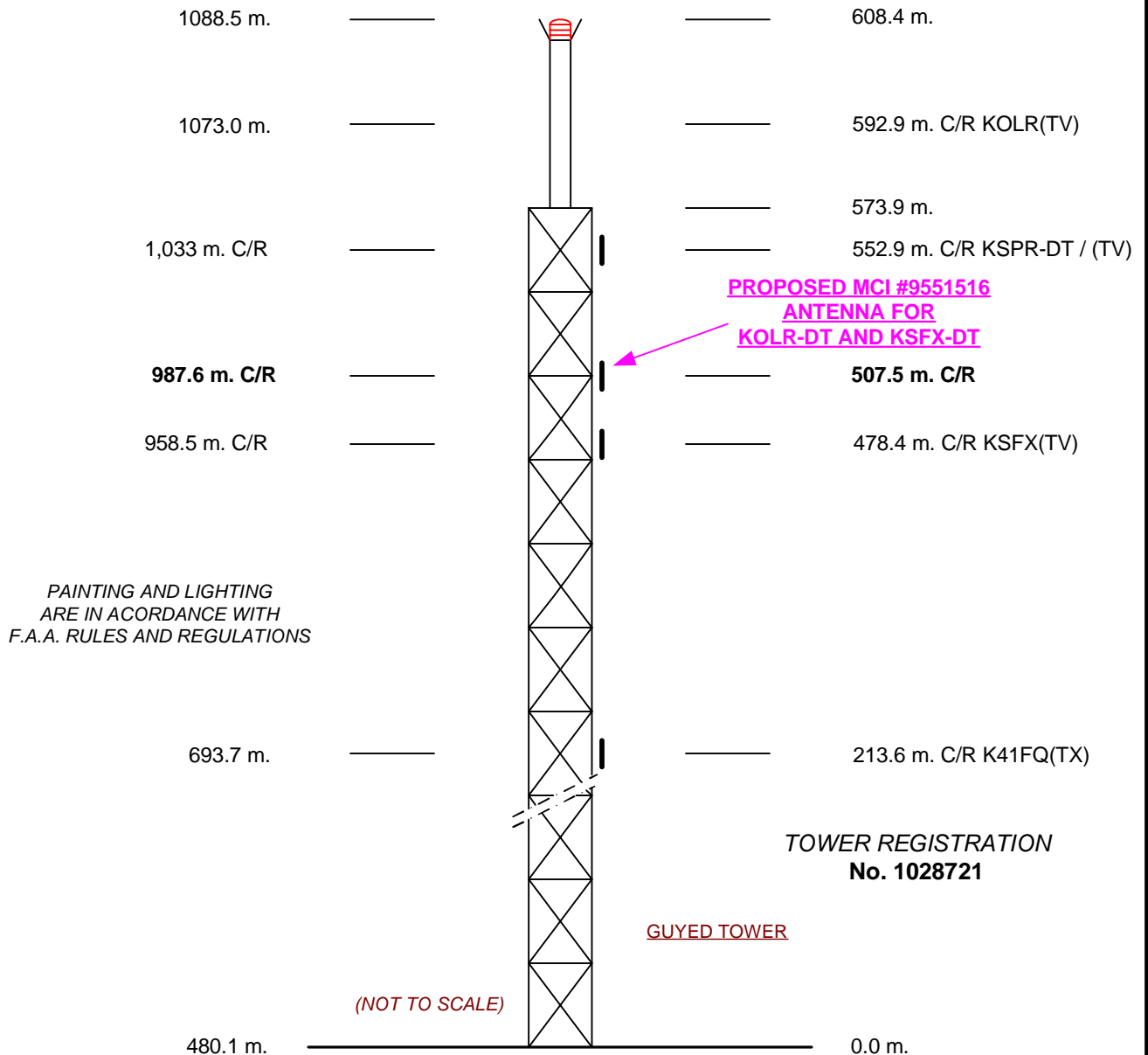


EXHIBIT E - 1
VERTICAL SKETCH
FOR THE PROPOSED OPERATION OF
KOLR-DT, SPRINGFIELD, MISSOURI
JUNE 2005

TABLE I
COMPUTED COVERAGE DATA
FOR THE PROPOSED OPERATION OF
KOLR-DT, SPRINGFIELD, MISSOURI
CHANNEL 52 1000 KW ERP 546 METERS HAAT
JUNE 2005

<u>Radial</u> <u>Bearing</u> N ° E, T	<u>Average*</u> <u>Elevation</u> <u>3.2 to 16.1 km</u>	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u>	<u>ERP At</u> <u>Radio</u> <u>Horizon</u> kW	<u>Distance to Contour F(50,90)</u>	
	meters				<u>48 dBu</u> <u>City Grade</u> km	<u>41 dBu</u> <u>Noise-Limited</u> km
0	431.6	556.0	0.653	1000	103.6	118.1
45	430.7	556.9	0.654	1000	103.7	118.1
90	468.2	519.4	0.631	1000	100.8	115.8
135	478.4	509.2	0.625	1000	99.9	115.1
180	448.3	539.3	0.643	1000	102.5	117.0
225	429.2	558.4	0.655	1000	103.8	118.2
270	417.0	570.6	0.662	1000	104.4	119.0
315	416.5	571.1	0.662	1000	104.5	119.0
Average	441.6	546.0				

*Based on data from FCC 3-second data base

DTV Channel 52 (698-704 MHz)
Average Elevation 3.2 to 16.1 km 441.6 meters AMSL
Center of Radiation 987.6 meters AMSL
Antenna Height Above Average Terrain 546 meters
Effective Radiated Power 1000 kW (30 dBk) Max.

North Latitude: 37° 13' 08"
West Longitude: 92° 56' 56"

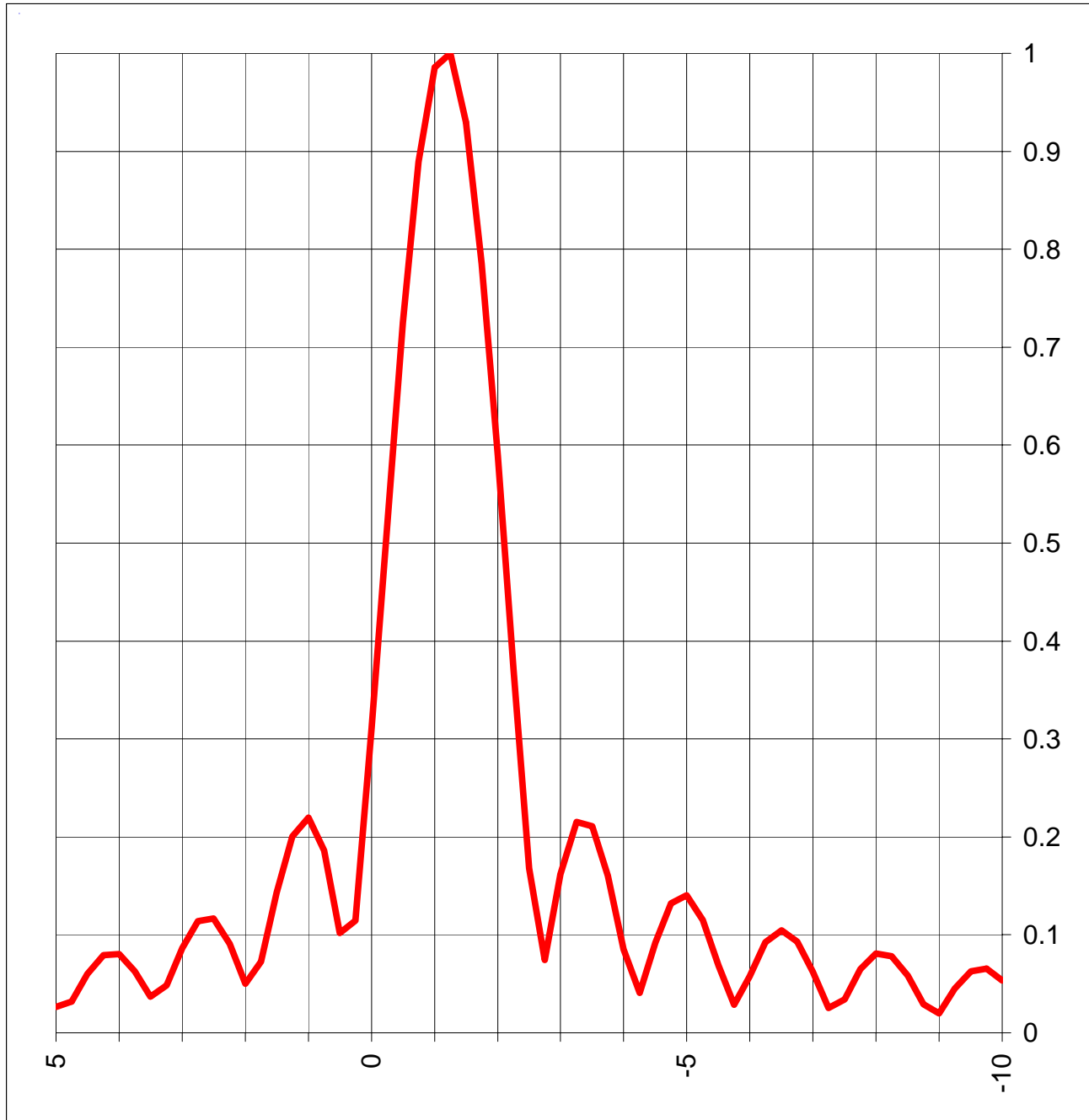
(NAD-27)

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

KOLR-DT, SPRINGFIELD, MISSOURI

Vertical Pattern Ch-52



Micro Communications, Inc.

P.O. Box 4365 Manchester, NH 03108-4365

Tel: 800-545-0608

FAX: 603-624-4822

Vertical Pattern Data Ch-52

Degrees	Field	Degrees	Field	Degrees	Field	Degrees	Field	Degrees	Field
-10.00	0.046	0.25	0.519	10.50	0.011	20.75	0.022	49	0.017
-9.75	0.028	0.50	0.725	10.75	0.030	21.00	0.021	50	0.011
-9.50	0.004	0.75	0.889	11.00	0.048	21.25	0.016	51	0.015
-9.25	0.022	1.00	0.986	11.25	0.055	21.50	0.009	52	0.018
-9.00	0.043	1.25	1.000	11.50	0.049	21.75	0.010	53	0.010
-8.75	0.053	1.50	0.930	11.75	0.032	22.00	0.017	54	0.026
-8.50	0.051	1.75	0.785	12.00	0.011	22.25	0.023	55	0.014
-8.25	0.035	2.00	0.589	12.25	0.017	22.50	0.025	56	0.023
-8.00	0.012	2.25	0.372	12.50	0.035	22.75	0.021	57	0.028
-7.75	0.019	2.50	0.168	12.75	0.044	23.00	0.014	58	0.007
-7.50	0.043	2.75	0.074	13.00	0.043	23.25	0.009	59	0.016
-7.25	0.057	3.00	0.162	13.25	0.032	23.50	0.017	60	0.014
-7.00	0.057	3.25	0.215	13.50	0.014	23.75	0.027	61	0.011
-6.75	0.042	3.50	0.211	13.75	0.007	24.00	0.035	62	0.014
-6.50	0.020	3.75	0.160	14.00	0.024	24.25	0.036	63	0.014
-6.25	0.021	4.00	0.085	14.25	0.035	24.50	0.030	64	0.007
-6.00	0.046	4.25	0.041	14.50	0.038	24.75	0.018	65	0.005
-5.75	0.062	4.50	0.092	14.75	0.032	25.00	0.014	66	0.010
-5.50	0.063	4.75	0.132	15.00	0.019	26.00	0.123	67	0.009
-5.25	0.049	5.00	0.140	15.25	0.002	27.00	0.148	68	0.003
-5.00	0.026	5.25	0.115	15.50	0.014	28.00	0.044	69	0.005
-4.75	0.032	5.50	0.069	15.75	0.026	29.00	0.040	70	0.009
-4.50	0.060	5.75	0.028	16.00	0.031	30.00	0.010	71	0.008
-4.25	0.079	6.00	0.058	16.25	0.029	31.00	0.030	72	0.004
-4.00	0.080	6.25	0.092	16.50	0.020	32.00	0.008	73	0.001
-3.75	0.063	6.50	0.105	16.75	0.008	33.00	0.025	74	0.003
-3.50	0.037	6.75	0.093	17.00	0.008	34.00	0.011	75	0.004
-3.25	0.049	7.00	0.062	17.25	0.019	35.00	0.022	76	0.006
-3.00	0.087	7.25	0.025	17.50	0.025	36.00	0.013	77	0.006
-2.75	0.114	7.50	0.034	17.75	0.026	37.00	0.018	78	0.005
-2.50	0.117	7.75	0.065	18.00	0.021	38.00	0.013	79	0.003
-2.25	0.091	8.00	0.081	18.25	0.012	39.00	0.017	80	0.002
-2.00	0.050	8.25	0.078	18.50	0.006	40.00	0.013	81	0.005
-1.75	0.073	8.50	0.058	18.75	0.013	41.00	0.018	82	0.007
-1.50	0.143	8.75	0.029	19.00	0.020	42.00	0.011	83	0.009
-1.25	0.200	9.00	0.020	19.25	0.023	43.00	0.020	84	0.010
-1.00	0.220	9.25	0.045	19.50	0.020	44.00	0.008	85	0.011
-0.75	0.186	9.50	0.063	19.75	0.013	45.00	0.021	86	0.012
-0.50	0.102	9.75	0.066	20.00	0.007	46.00	0.004	87	0.012
-0.25	0.115	10.00	0.054	20.25	0.011	47.00	0.020	88	0.012
0.00	0.311	10.25	0.030	20.50	0.018	48.00	0.006	89	0.012
								90	0.013



Micro Communications, Inc.

P.O. Box 4365 Manchester, NH 03108-4365

Tel: 800-545-0608

FAX: 603-624-4822

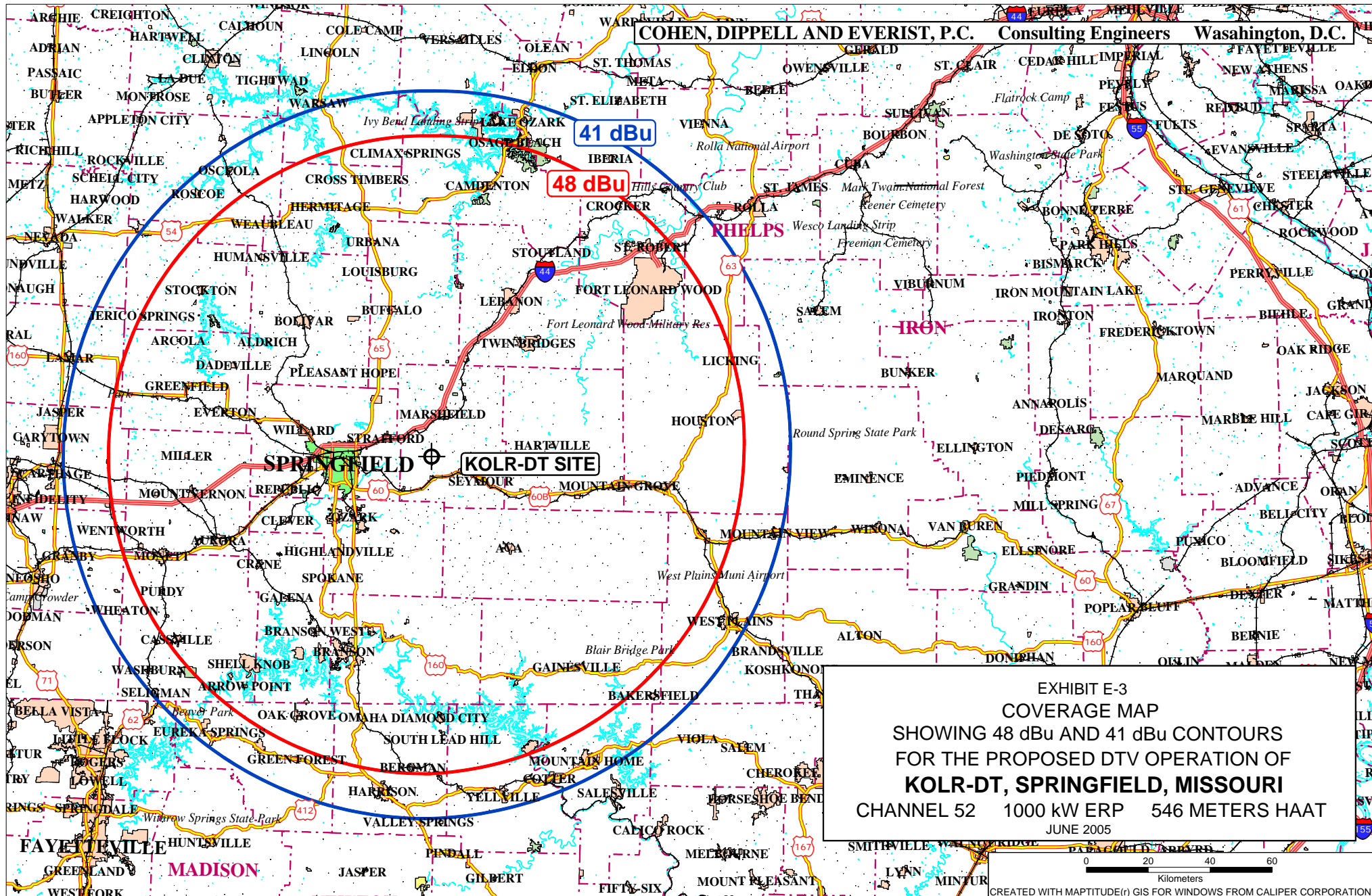


EXHIBIT E-4
COMPARISON
OF THE PROPOSED 41 dBu AND
41 dBu OF THE EXISTING CP
KOLR-DT, SPRINGFIELD, MISSOURI

JUNE 2005

0 20 40 60

Kilometers

SECTION III-D - DTV Engineering

Complete Questions 1-5 of the Certification Checklist and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Certification Checklist: A correct answer of "Yes" to all of the questions below will ensure an expeditious grant of a construction permit. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

- (a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
- (b) It will operate from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No
- (c) It will operate with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622. ☐ Yes ☐ No

2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. ☐ Yes ☐ No

Applicant must **submit the Exhibit** called for in Item 13.

3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community. ☐ Yes ☐ No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable. ☐ Yes ☐ No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require reregistration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7. ☐ Yes ☐ No

SECTION III-D DTV Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel Number: DTV _____ Analog TV, if any _____

2. Zone: ☐ I ☐ II ☐ III

3. Antenna Location Coordinates: (NAD 27)

_____ ° _____ ' _____ " ☐ N ☐ S Latitude
_____ ° _____ ' _____ " ☐ E ☐ W Longitude

4. Antenna Structure Registration Number: _____

☐ Not applicable ☐ FAA Notification Filed with FAA

5. Antenna Location Site Elevation Above Mean Sea Level: _____ meters

6. Overall Tower Height Above Ground Level: _____ meters

7. Height of Radiation Center Above Ground Level: _____ meters

8. Height of Radiation Center Above Average Terrain: _____ meters

9. Maximum Effective Radiated Power (average power): _____ kW

10. Antenna Specifications:

a.

Manufacturer	Model
--------------	-------

b. Electrical Beam Tilt: _____ degrees ☐ Not Applicable

c. Mechanical Beam Tilt: _____ degrees toward azimuth _____ degrees True ☐ Not Applicable

Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).

Exhibit No.

d. Polarization: ☐ Horizontal ☐ Circular ☐ Elliptical

TECH BOX

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

Rotation: _____ ° ☐ No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											

If a directional antenna is proposed, the requirements of 47 C.F.R. Section 73.625(c) must be satisfied. **Exhibit required.**

Exhibit No.

11. Does the proposed facility satisfy the interference protection provisions of 47 C.F.R. Section 73.623(a)? (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") ☐ Yes ☐ No

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

Exhibit No.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefor. (Applicable only if **Certification Checklist** Item 3 is answered "No.")

Exhibit No.

13. **Environmental Protection Act. Submit in an Exhibit** the following:

Exhibit No.

- a. If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R. Section 1.1311.

PREPARER'S CERTIFICATION IN SECTION III MUST BE COMPLETED AND SIGNED.

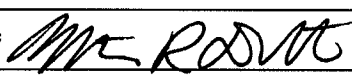
I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT
(U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT
(U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Martin R. Doczkat	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature 	Date <i>June 30, 2005</i>	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100		
City Washington	State or Country (if foreign address) DC	ZIP Code 20005
Telephone Number (include area code) (202) 898-0111	E-Mail Address (if available) cde@attglobal.net	

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