

ENGINEERING STATEMENT
RE DTV BROADCAST ENGINEERING DATA
APPLICATION FOR MAXIMIZED POST-TRANSITION
CONSTRUCTION PERMIT
KQTV-DT, ST. JOSEPH, MISSOURI
CHANNEL 7 72 KW DA ERP 179 METERS HAAT

AUGUST 2009

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)

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

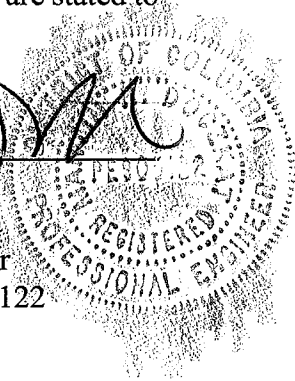
He is a graduate electrical engineer of the Pennsylvania State University, a Registered Professional Engineer in the District of Columbia, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington,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

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

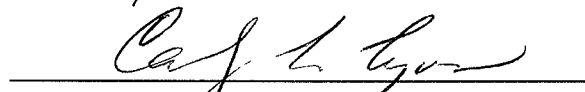
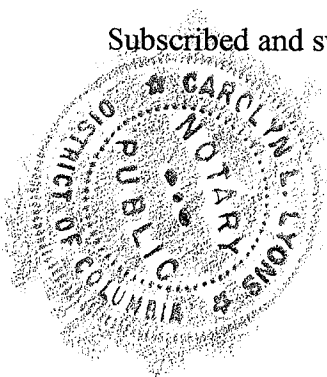
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Martin R. Doczkat
District of Columbia
Professional Engineer
Registration No. PE905122



Subscribed and sworn to before me this 21st day of August, 2009.



Notary Public

My Commission Expires: 2/28/2013

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc. (“Nexstar”), licensee of KQTV(TV), St. Joseph, Missouri. The purpose of this engineering statement is to request an amendment to the outstanding construction permit application (FCC File No. BMPCDT-20080620ALE) for maximized post-transition digital television (“DTV”) facilities.

KQTV(TV) operated on NTSC television Channel 2 with a maximum visual effective radiated power (“ERP”) of 100 kW (horizontal polarization) and height above average terrain (“HAAT”) of 247 meters. KQTV-DT has been allocated DTV Channel 7 with facilities of 7.451 kW directional ERP and HAAT of 247 meters in the final DTV Table of Allotments.¹ KQTV-DT requested in its pending application (FCC File No. BMPCDT-20080620ALE) to construct its post-transition DTV operation with Channel 7 DTV facilities of 100 kW directional ERP (horizontal polarization) at an HAAT of 86.5 meters from a different site. KQTV-DT now requests to construct its post-transition DTV operation with Channel 7 DTV facilities of 72 kW directional ERP (horizontal polarization) at an HAAT of 179 meters from its currently licensed NTSC site.

The DTV antenna will be top-mounted on an existing tower. The proposed modified tower has an overall structure height above ground of 154.8 meters (508 feet). Exhibit E-1 shows a vertical sketch and the arrangement of the antenna on the tower. The existing transmitter site is located at 40th & Faraon Street, St. Joseph, south of Pickett, St. Joseph,

¹“In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service”, MM Docket 87-268, Memorandum Opinion and Order on Reconsideration of the Seventh Report and Order and Eighth Report and Order (FCC 08-72) Released March 6, 2008.

Missouri. The antenna structure registration number (“ASRN”) for the existing tower is 1000389, however, this tower proposes a modification in its overall structure height, and therefore, sought Federal Aviation Administration (“FAA”) approval. The FAA approval has just been received and ASRN will be modified accordingly.

The geographic coordinates of the site are:

North Latitude: 39° 46' 12"

West Longitude: 94° 47' 53"

NAD-27

Equipment Data

Antenna:	MCI	954134 (or equivalent)
	Beam Tilt	0° electrical
	Power Gain	8.28 (9.18 dBd)
		Antenna information provided by antenna manufacturer per Section 73.625 of the FCC Rules is provided in Exhibit E-2.

Power Data

Transmitter output	10.36 kW	10.15 dBk
Total Transmission line efficiency/loss	83.9%	0.76 dB
Dielectric, 3-1/8", 50 ohm rigid or equivalent, length: 177 meters (581 feet)		
Input Power to the antenna	8.70 kW	9.39 dBk
Antenna power gain	8.28	9.18 dB
Effective Radiated Power	72 kW	18.57 dBk

Elevation Data

Vertical dimension of Channel 7 antenna	12.8 meters 42 feet
Overall height above ground of existing antenna structure (including appurtenances)	154.8 meters 508 feet
Center of radiation of Channel 7 antenna above ground	146.6 meters 481 feet
Elevation of site above mean sea level	310.9 meters 1020 feet
Center of radiation of Channel 7 antenna above mean sea level	457.5 meters 1501 feet
Overall height above mean sea level of existing tower (including beacon)	465.7 meters 1528 feet
Antenna height above average terrain	179 meters

Note: Slight height differences may result due to conversion to/from metric.

Maximization Request

Nexstar proposes a minor expansion of its post-transition KQTV-DT allotment which will accommodate the use of a new DTV antenna and also avoid a significant reduction in post-transition service from its current analog service area while also avoiding allocation constraints by not exceeding the 0.5 percent new interference criteria to any other potentially affected station. Exhibit E-3 shows a comparison of the proposed service area to the authorized service area and the allotted KQTV-DT service area in the final DTV Table of Allotments.

Coverage

The average elevation data for 3.2 to 16.1 km along each radial has been determined from the NGDC 3-second database. The F(50,90) DTV coverage contours have been computed from reference to the propagation data for Channel 7 as published by the FCC in Figure 10 and 10a, 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 0.34 to 0.39 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 provides a tabulation of that coverage data.

Exhibit E-4 shows the proposed KQTV-DT, 43 dBu and 36 dBu F(50,90) coverage contours on a map and includes the legal boundaries of St. Joseph, Missouri.

Interference Analysis

A study of predicted interference caused by the proposed KQTV-DT operation has been performed using a version of the Longley-Rice program as described in OET Bulletin No. 69 (February 6, 2004) and the Public Notice, "Additional Application Processing Guidelines for Digital Television (DTV)" (August 1998). The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run on a WindowsXP platform. Comparison of service/interference areas and population indicates that this model closely matches the FCC's evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 2 sq. km. Using 3-second terrain data

sampled approximately every 1.0 km at one-degree azimuth intervals with 2000 census centroids, all studies are based upon data in the current CDBS database update of the FCC's engineering database and the final DTV Table of Allotments. A Longley-Rice study was performed with the proposed KQTV-DT facilities and all relevant stations listed in the FCC database as of July 20, 2009. The study results and the included stations are listed in Table II. No potentially affected station is predicted to receive more than 0.5% interference.

Other Licensed and Broadcast Facilities

There is one AM station, KGNM, located within 3.22 km of the proposed site, however, no interference is anticipated. According to CDBS, the proposed operation of KQTV-DT is the only broadcast station located within 2 km of the proposed site. No adverse technical effect is anticipated by the DTV operation to any other FCC licensed facility, however, if any problems occur, the permittee will take the necessary steps to resolve them.

Radio Frequency Field Level ("RFF" Level)

<u>Station</u>	<u>ERP</u> (kW)	<u>HAAT</u> (m)	<u>Frequency</u> (MHz)	<u>Ch</u>	<u>RCAGL**</u> (m)	<u>F*</u>	<u>S (μW/cm²)</u>	<u>Uncontrolled</u> <u>RFF</u> (%)	<u>Controlled</u> <u>RFF</u> (%)
KQTV-DT Proposed	72	86.5	174-180	7	146.6	0.23	6	3	0.6

*F = assumed value

** RCAGL - 2 meters

The proposed KQTV-DT facilities are predicted to contribute no more than approximately 6 μW/cm² or 3% of the limit for an uncontrolled environment which is 0.6% of the limit for a controlled environment according to FCC guidelines.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels 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.

Environmental Assessment

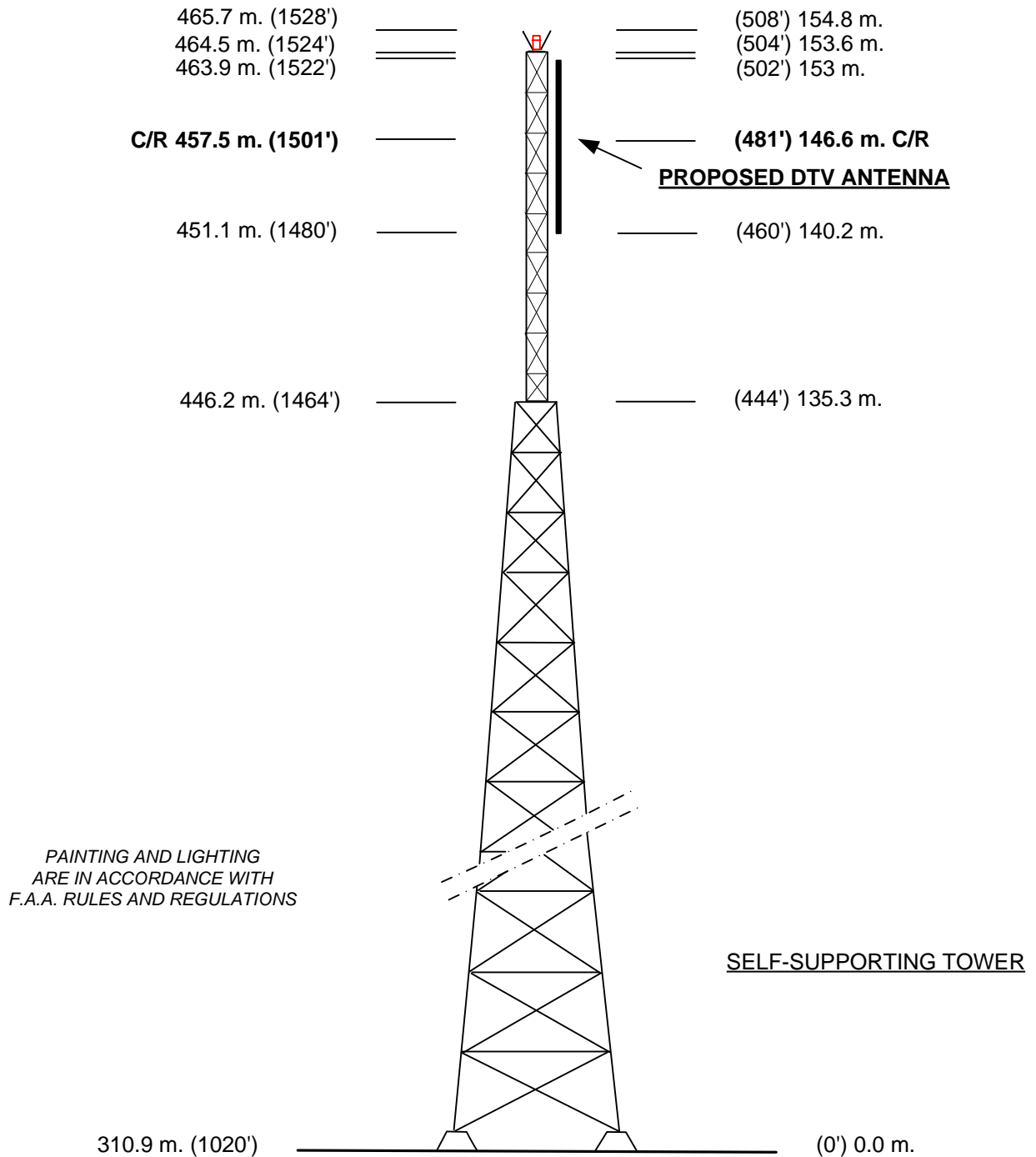
An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the permittee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is 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 located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.

- (a)(7) The installation of the DTV facilities on an existing guyed 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 equip the tower with high intensity white lights 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 contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

ABOVE MEAN SEA LEVEL

ABOVE GROUND



NOT TO SCALE

EXHIBIT E - 1
VERTICAL SKETCH
FOR THE PROPOSED OPERATION OF
KQTV-DT, ST. JOSEPH, MISSOURI
AUGUST 2009

COHEN, DIPPELL and EVERIST, P.C. Consulting Engineers

COHEN, DIPPELL AND EVERIST, P.C.

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

KQTV-DT, ST. JOSEPH, MISSOURI

System Analysis

Station:

Call Letters:	KQTV
Channel:	7
Frequency:	177 MHz
Service:	DTV

Antenna:

Gain (dbd):	9.18 dbd
Power Gain:	8.28
Electrical Beam Tilt:	0 degrees
Null Fill:	10 %
Input Connector:	3-1/8 in.
Input VSWR:	<1.10 to 1 174 to 216 MHz
Effective Radiated Power:	40.00 kW
	16.02 dbk
Antenna Input Power:	6.84 dbk
Antenna Type:	Panel:
Antenna Length:	42 ft.
Antenna Mounting:	Side
Model Number:	954134

Transmission Line:

Line Type:	3-1/8 in.
Line Length:	330 ft.
Attenuation per/100ft.:	0.123 db
Line Loss:	0.4059 db
System Efficiency:	91.08 %

Transmitter Power:

5.30 kW
7.25 dbk

Combiner Loss:

0 db



Micro Communications, Inc.

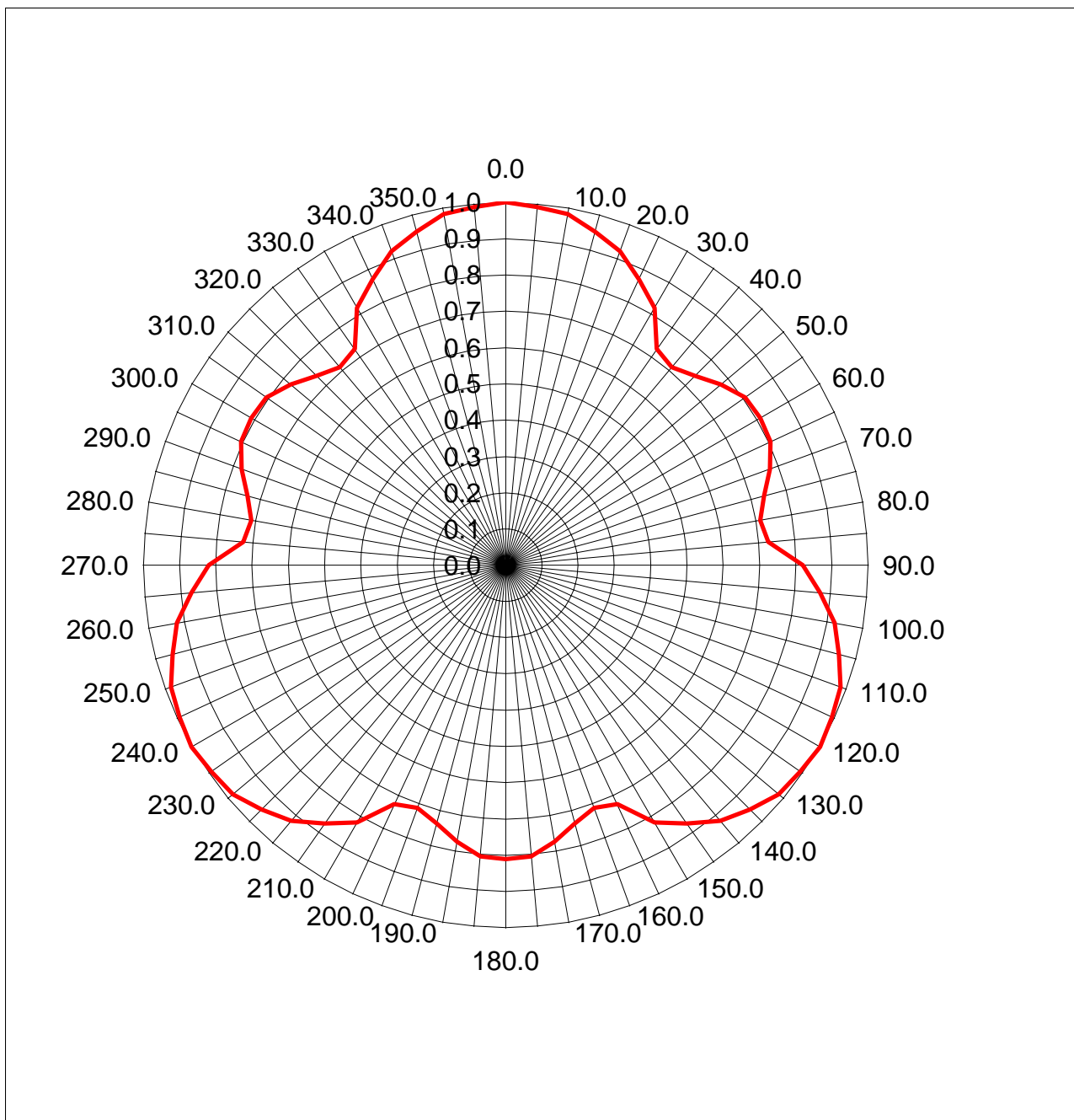
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Page 2

Horizontal Pattern



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Horizontal Pattern Data

Degrees	Field	Degrees	Field	Degrees	Field	
0	1.000	120	1.000	240	1.000	
5	0.991	125	0.991	245	0.991	
10	0.982	130	0.982	250	0.982	
15	0.951	135	0.951	255	0.951	
20	0.920	140	0.920	260	0.920	
25	0.869	145	0.869	265	0.869	
30	0.818	150	0.818	270	0.818	
35	0.726	155	0.726	275	0.726	
40	0.712	160	0.712	280	0.712	
45	0.737	165	0.737	285	0.737	
50	0.774	170	0.774	290	0.774	
55	0.805	175	0.805	295	0.805	
60	0.810	180	0.810	300	0.810	
65	0.805	185	0.805	305	0.805	
70	0.774	190	0.774	310	0.774	
75	0.737	195	0.737	315	0.737	
80	0.712	200	0.712	320	0.712	
85	0.726	205	0.726	325	0.726	
90	0.818	210	0.818	330	0.818	
95	0.869	215	0.869	335	0.869	
100	0.920	220	0.920	340	0.920	
105	0.951	225	0.951	345	0.951	
110	0.982	230	0.982	350	0.982	
115	0.991	235	0.991	355	0.991	



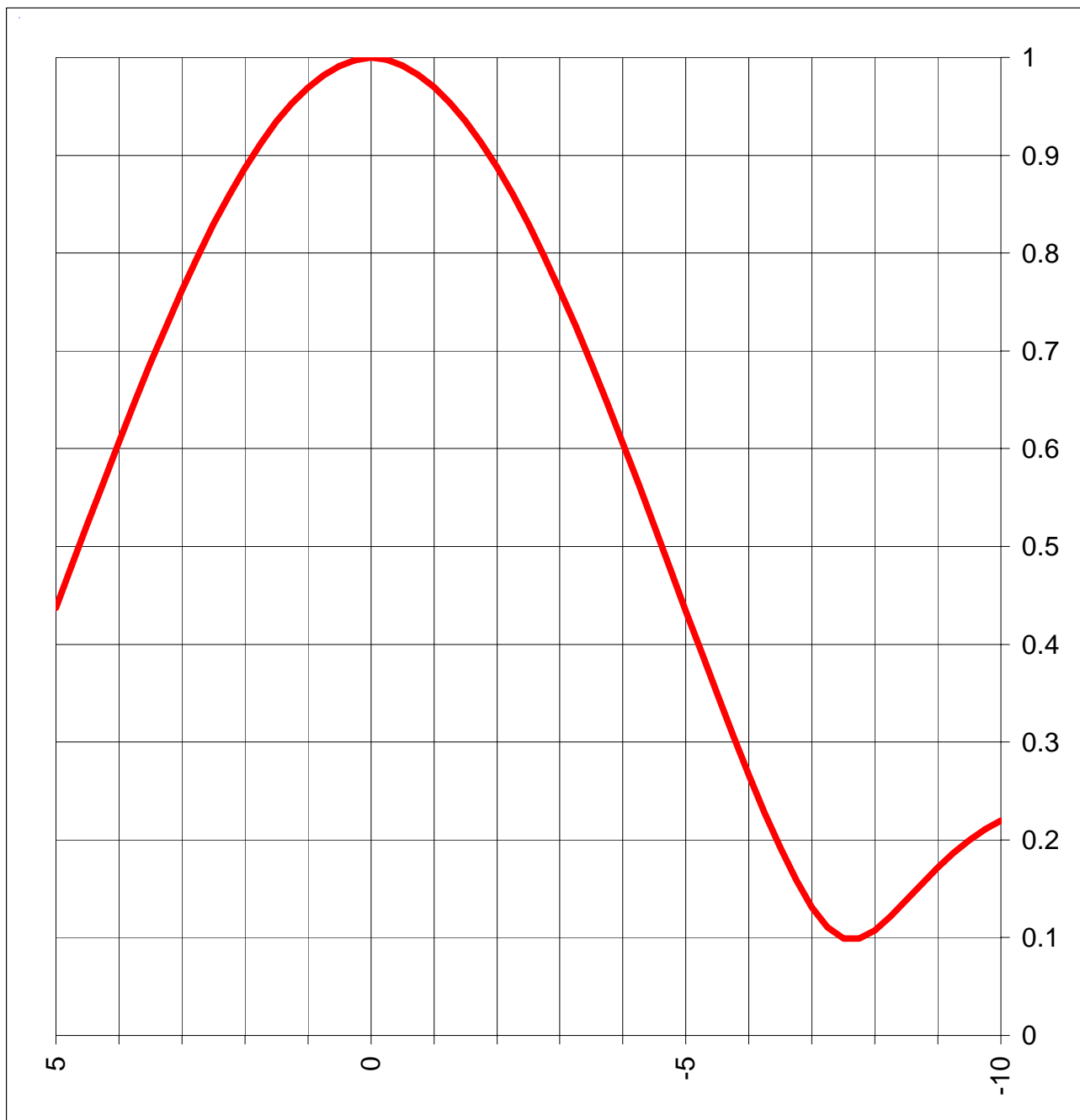
Micro Communications, Inc.

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Tel: 800-545-0608

FAX: 603-429-1633

Vertical Pattern



Micro Communications, Inc.
15 Caron Street, Merrimack, NH 03054
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FAX: 603-429-1633

Vertical Pattern Data

Degrees	Field	Degrees	Field	Degrees	Field	Degrees	Field	Degrees	Field
-10.00	0.204	0.25	0.998	10.50	0.230	20.75	0.119	49	0.065
-9.75	0.196	0.50	0.992	10.75	0.232	21.00	0.111	50	0.054
-9.50	0.186	0.75	0.982	11.00	0.231	21.25	0.102	51	0.043
-9.25	0.174	1.00	0.970	11.25	0.229	21.50	0.093	52	0.032
-9.00	0.161	1.25	0.954	11.50	0.224	21.75	0.083	53	0.026
-8.75	0.146	1.50	0.935	11.75	0.218	22.00	0.073	54	0.030
-8.50	0.131	1.75	0.913	12.00	0.210	22.25	0.063	55	0.039
-8.25	0.117	2.00	0.888	12.25	0.200	22.50	0.054	56	0.049
-8.00	0.106	2.25	0.860	12.50	0.189	22.75	0.045	57	0.057
-7.75	0.100	2.50	0.830	12.75	0.177	23.00	0.037	58	0.063
-7.50	0.104	2.75	0.797	13.00	0.164	23.25	0.032	59	0.066
-7.25	0.118	3.00	0.762	13.25	0.150	23.50	0.030	60	0.066
-7.00	0.139	3.25	0.725	13.50	0.136	23.75	0.032	61	0.064
-6.75	0.167	3.50	0.687	13.75	0.122	24.00	0.037	62	0.060
-6.50	0.199	3.75	0.647	14.00	0.108	24.25	0.043	63	0.054
-6.25	0.235	4.00	0.606	14.25	0.095	24.50	0.050	64	0.046
-6.00	0.273	4.25	0.563	14.50	0.083	24.75	0.058	65	0.038
-5.75	0.312	4.50	0.521	14.75	0.073	25.00	0.065	66	0.031
-5.50	0.353	4.75	0.477	15.00	0.066	26.00	0.088	67	0.025
-5.25	0.395	5.00	0.434	15.25	0.064	27.00	0.098	68	0.023
-5.00	0.437	5.25	0.391	15.50	0.066	28.00	0.096	69	0.026
-4.75	0.480	5.50	0.349	15.75	0.071	29.00	0.081	70	0.031
-4.50	0.523	5.75	0.307	16.00	0.078	30.00	0.056	71	0.037
-4.25	0.565	6.00	0.267	16.25	0.087	31.00	0.026	72	0.041
-4.00	0.607	6.25	0.228	16.50	0.097	32.00	0.011	73	0.044
-3.75	0.647	6.50	0.192	16.75	0.106	33.00	0.040	74	0.046
-3.50	0.687	6.75	0.159	17.00	0.115	34.00	0.066	75	0.046
-3.25	0.725	7.00	0.131	17.25	0.123	35.00	0.085	76	0.044
-3.00	0.762	7.25	0.110	17.50	0.130	36.00	0.095	77	0.041
-2.75	0.797	7.50	0.099	17.75	0.136	37.00	0.095	78	0.036
-2.50	0.829	7.75	0.099	18.00	0.141	38.00	0.087	79	0.030
-2.25	0.859	8.00	0.108	18.25	0.145	39.00	0.071	80	0.023
-2.00	0.887	8.25	0.122	18.50	0.148	40.00	0.050	81	0.021
-1.75	0.912	8.50	0.139	18.75	0.149	41.00	0.027	82	0.020
-1.50	0.934	8.75	0.156	19.00	0.150	42.00	0.011	83	0.018
-1.25	0.953	9.00	0.172	19.25	0.148	43.00	0.026	84	0.016
-1.00	0.969	9.25	0.187	19.50	0.146	44.00	0.045	85	0.014
-0.75	0.982	9.50	0.200	19.75	0.143	45.00	0.060	86	0.011
-0.50	0.991	9.75	0.211	20.00	0.138	46.00	0.069	87	0.008
-0.25	0.997	10.00	0.220	20.25	0.133	47.00	0.073	88	0.006
0.00	1.000	10.25	0.226	20.50	0.126	48.00	0.071	89	0.003
								90	0.000



Micro Communications, Inc.
 15 Caron Street, Merrimack, NH 03054
 Tel: 800-545-0608
 FAX: 603-429-1633

TABLE I
COMPUTED COVERAGE DATA
FOR PROPOSED DTV OPERATION OF
KQTV-DT, ST. JOSEPH, MISSOURI
CHANNEL 7 72 KW DA ERP 179 METERS HAAT
AUGUST 2009

<u>Radial</u> N ° E, T	<u>Average*</u> <u>Elevation</u> meters	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u> degrees	<u>ERP</u> kW	<u>Distance to Contour F(50,90)</u>	
					<u>43 dBu</u> <u>City Grade</u> km	<u>36 dBu</u> <u>Noise-Limited</u> km
0	273.9	183.6	0.375	72.0	87.7	99.3
10	284.1	173.4	0.365	69.4	86.7	98.0
20	266.3	191.2	0.383	60.9	87.2	98.8
30	283.0	174.5	0.366	48.2	84.2	95.5
40	288.5	169.0	0.360	26.5	79.4	90.8
50	283.8	173.7	0.365	37.7	82.4	93.7
60	279.3	178.2	0.370	47.2	84.4	95.7
70	274.9	182.6	0.374	37.7	83.1	94.5
80	274.3	183.2	0.375	26.5	80.5	92.1
90	283.0	174.5	0.366	48.2	84.2	95.5
100	287.3	170.2	0.361	60.9	85.5	96.8
110	285.5	172.0	0.363	69.4	86.6	97.9
120	279.2	178.3	0.370	72.0	87.3	98.8
130	278.7	178.8	0.370	69.4	87.1	98.6
140	282.5	175.0	0.366	60.9	85.9	97.2
150	279.4	178.1	0.370	48.2	84.5	95.8
160	275.9	181.6	0.373	26.5	80.4	91.9
170	265.9	191.6	0.383	37.7	83.8	95.4
180	287.6	169.9	0.361	47.2	83.8	94.9
190	297.0	160.5	0.351	37.7	81.1	92.5
200	302.8	154.7	0.345	26.5	77.9	89.5
210	306.3	151.2	0.341	48.2	81.9	93.4
220	304.8	152.7	0.342	60.9	83.8	95.2
230	292.8	164.7	0.356	69.4	85.9	97.2
240	278.9	178.6	0.370	72.0	87.4	98.8
250	270.1	187.4	0.379	69.4	87.8	99.5
260	261.3	196.2	0.388	60.9	87.6	99.4
270	264.4	193.1	0.385	48.2	85.7	97.3
280	266.2	191.3	0.383	26.5	81.1	92.8

TABLE I
COMPUTED COVERAGE DATA
FOR PROPOSED DTV OPERATION OF
KQTV-DT, ST. JOSEPH, MISSOURI
CHANNEL 7 72 KW DA ERP 179 METERS HAAT
AUGUST 2009
(continued)

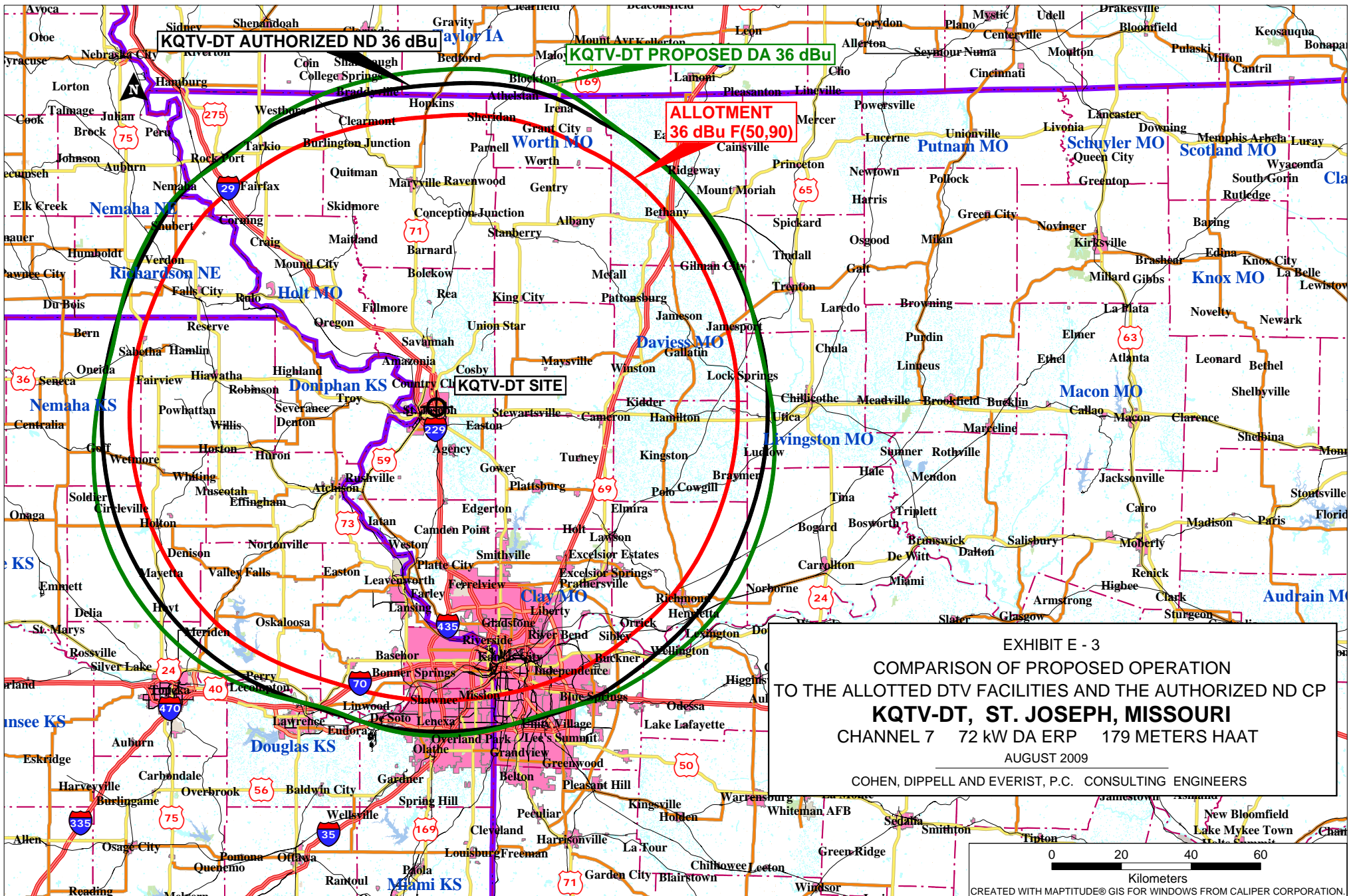
<u>Radial</u> N ° E, T	<u>Average*</u> <u>Elevation</u> meters	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u> degrees	<u>ERP</u> kW	<u>Distance to Contour F(50,90)</u>	
					<u>43 dBu</u> <u>City Grade</u> km	<u>36 dBu</u> <u>Noise-Limited</u> km
290	272.2	185.3	0.377	37.7	83.3	94.8
300	280.8	176.7	0.368	47.2	84.3	95.5
310	292.2	165.3	0.356	37.7	81.6	93.0
320	300.1	157.4	0.348	26.5	78.2	89.8
330	299.4	158.1	0.348	48.2	82.7	94.0
340	292.0	165.5	0.356	60.9	85.1	96.3
350	269.8	187.7	0.380	69.4	87.9	99.5

*Based on data from FCC 3-second data base.

DTV Channel 7 (174-180 MHz)
Average Elevation 3.2 to 16.1 km 282.3 meters AMSL
Center of Radiation 457.5 meters AMSL
Antenna Height Above Average Terrain 175.2 meters
Effective Radiated Power 72 kW (18.57 dBk) Max.

North Latitude: 39° 44' 42"
West Longitude: 94° 45' 06"

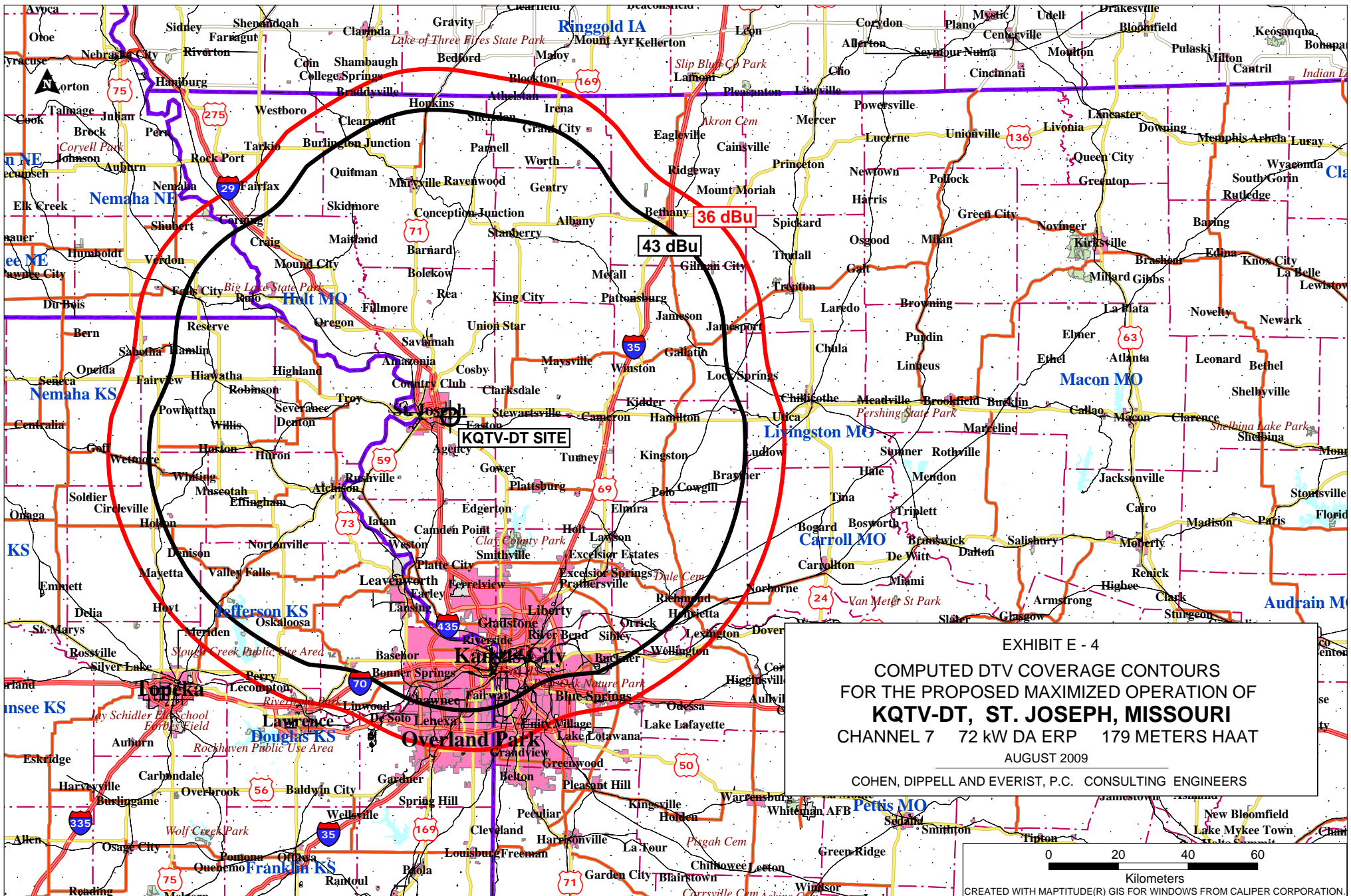
(NAD-27)



COHEN, DIPPELL AND EVERIST, P.C.

TABLE II
LONGLEY-RICE INTERFERENCE ANALYSIS
FOR THE PROPOSED OPERATION
ABOVE ITS ALLOTTED APPENDIX B FACILITIES AND
IN RELATION TO OTHER ALLOTTED APPENDIX B FACILITIES
AND OTHER POTENTIALLY AFFECTED STATIONS IN CDBS
KQTV-DT, ST. JOSEPH, MISSOURI
CHANNEL 7 72 KW DA ERP 179 METERS HAAT
AUGUST 2009

<u>Channel</u>	<u>Call</u>	<u>City/State</u>	<u>Dist(km)</u>	<u>Status</u>	<u>FCC File No.</u>	<u>Result</u>
7	KWWL	WATERLOO IA	383	ALLOT		0.00%
7	KWWL-DT	WATERLOO IA	383	CP MOD	BMPCDT-20080619ADP	0.00%
7	KWWL-DT	WATERLOO IA	383	APP	BMPCDT-20090409AEB	0.00%
7	KBSH-DT	HAYS KS	402.5	CP	BPCDT-20090630ADM	No interference
7	KBSH-TV	HAYS KS	402.5	ALLOT		No interference
7	KOAM-DT	PITTSBURG KS	283.5	CP	BPCDT-20080314ADI	0.47%
7	KOAM-TV	PITTSBURG KS	283.5	ALLOT		0.47%
7	KHQA-TV	HANNIBAL MO	296.5	ALLOT		0.26%
7	KHQA-TV	HANNIBAL MO	296.5	CP	BPCDT-20080317AGY	0.31%



SECTION III - D - DTV Engineering

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

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to modify pre-transition facilities. 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.

Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed on or before March 17, 2008 (45 days of the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91).

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 a pre-transition facility 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 a pre-transition facility 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
 - (d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"). ☐ Yes ☐ No
☐ N/A
 - (e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B. ☐ Yes ☐ No
☐ N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RIF 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 pre-transition 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.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?

☐

Yes

☐

No

If "No," attach as an Exhibit justification therefore, 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 therefore. (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 radio frequency 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.

10. **Auction Authorization.** If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.

Exhibit No.

An exhibit is required unless this question is inapplicable.

11. **Anti-Drug Abuse Act Certification.** Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.

☐ Yes ☐ No

12. **Equal Employment Opportunity (EEO).** If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.

☐ Yes ☐ No ☐ N/A

13. **Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments.** If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. Section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.

☐ Yes ☐ No ☐ N/A

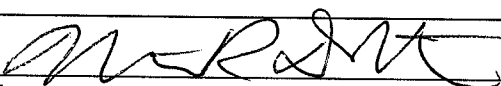
I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in 'good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular 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 August 21, 2009	
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, N.W., 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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