



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION TO MODIFY A
LICENSED DTV FACILITY - FILE NUMBER BLCDT-20060405AAI
WUCW - MINNEAPOLIS, MINNESOTA
DTV - CH. 22 - 790 kW - 436.2 m HAAT**

Prepared for: KLGT LICENSE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, No. 7418, and in New York State, No. 63418.

GENERAL

This office has been authorized by KLGT LICENSE, LLC, licensee of WUCW, channel 22, facility ID number 36395, licensed to Minneapolis, Minnesota, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for modification of its licensed DTV facility, file number BLCDT-20060405AAI. The instant application proposes to replace WUCW's licensed horizontally polarized directional antenna, a Dielectric model TFU-36DSC-R-CT160SP DC, with a new Dielectric model TFU-33EBT/VP-R SP elliptically polarized antenna with a non-directional horizontal azimuth pattern. In addition to elliptical polarization and a non-directional horizontal azimuth pattern the instant application seeks a modest increase in HAAT of 26.2 meters to 436.2 meters and a reduction in ERP from 1000 kW to 790 kW. No other modifications are herein proposed.

DETERMINATION OF THE "LARGEST STATION IN THE MARKET"

It appears from an analysis of the stations that are licensed to communities that are located in the Minneapolis-St. Paul, MN Designated Market Area (DMA) that the station with the largest service area is KARE, channel 11, Minneapolis, MN, license number 0000001486, with a coverage area of 43,465 square kilometers. The instant application for a substitute non-directional antenna and an increase in HAAT of 26.2 meters, results in a coverage area of 38,213 square kilometers for WUCW's proposed modification. Clearly WUCW is entitled, according to Section 73.622(f)(5), to its proposed change to a non-directional elliptically polarized antenna and its proposed increase in HAAT.

NON-DIRECTIONAL ANTENNA

The applicant proposes to utilize a new Dielectric model TFU-33EBT/VP-R O8 SP elliptically polarized non-directional transmitting antenna with its center of radiation located at a height above ground of 408.2 meters, and a height above average terrain of 436.2 meters. The manufacturer's vertical plane pattern, showing the radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 3.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC

Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (39.56 dBu) contour, and the principal community (48 dBu) contour, which will completely encompass the principal community of license, Minneapolis, Minnesota. Exhibit 2 shows that the noise-limited contour proposed herein completely encompasses the licensed noise-limited contour.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A new study was performed, using the FCC's software, *tvstudy*, v. 2.2.5, to determine if the instant proposed modification to WUCW's license is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for license modification is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations. (See Appendix B)

International DTV Considerations

The WUCW site is located 692 kilometers from the nearest point on the US/Canadian border and more than 2200 kilometers from the nearest point on the US/Mexican border. Therefore there are no international considerations.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WUCW site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance

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with applicable Rules. The licensee is also committed to the protection of station personnel and/or tower contractors working in the vicinity of the WUCW antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

As shown in Appendix A the WUCW channel 22 modified facility proposed herein will operate with a maximum ERP of 790 kW from an elliptically polarized non-directional transmitting antenna with a centerline height of 408.2 meters above ground level (AGL). Considering the elevation pattern submitted elsewhere in this application, the vertical plane relative field factor is less than 0.1 at all depression angles greater than 8 degrees. The WUCW proposed facility is predicted to produce a worst-case power density at two meters above ground level, at 108.8 meters from the tower base, of $0.306 \mu\text{W}/\text{cm}^2$, which is 0.09% of the FCC guideline value of $347.33 \mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 0.018% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant.

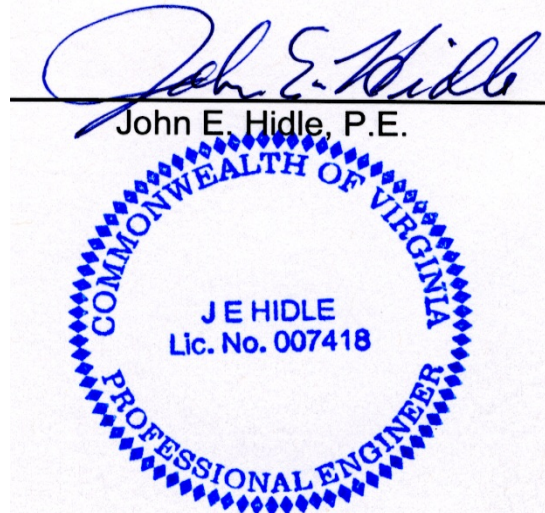
Further, the applicant will continue to cooperate and coordinate with other any other site users and reduce power or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

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SUMMARY

It is submitted that the instant application for modification of WUCW's licensed facility, BLCDT-20060405AAI, to substitute a new elliptically polarized non-directional antenna, to increase its HAAT to 436.2 meters and to reduce its ERP to 790 kW, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: March 1, 2022





PREDICTED COVERAGE CONTOURS

WUCW-D MINNEAPOLIS, MINNESOTA
DTV Channel 22 - 790 kW ERP - 436.2 M HAAT
MARCH, 2022

Predicted Noise Limited 39.56 dBu
 F(50,90) Coverage Contour



Predicted Principal Community 48 dBu
 F(50,90) Coverage Contour

WUCW-D 22 Minneapolis, MN - Licensed & Proposed - Exhibit 2

WUCW-D - 521.0 MHz

CH222C - FACID:36395
Minneapolis, MN
File:BLCDD-20060405AAI
Kigt Licensee, LLC
Lat: 45-03-44 N
Long: 093-08-22 W
ERP: 1000.00 kW
HAAT: 410.0
RCAMSL: 685.9 m

WUCW-D.A - 521.0 MHz

CH222C - FACID:36395
Minneapolis, MN
File:Proposed
Kigt Licensee, LLC
Lat: 45-03-44.12 N
Long: 093-08-21.20 W
ERP: 790.00 kW
HAAT: 436.2
RCAMSL: 712.1 m

■ WUCW-D (22)
■ WUCW-D.A (22)

39.56 dBu

39.56 dBu

WUCW-D

Population Report for All Contours

2020 US Census (PL)

	Population	Housing Units	Area (sq. km)
WUCW-D (22) [Minneapolis, MN]			
FCC F(50-90) 39.56 dBu (4,030,175	1,651,515	34050.3
WUCW-D.A (22) [Minneapolis, MN]			
FCC F(50-90) 39.56 dBu (4,216,213	1,731,354	38318.1

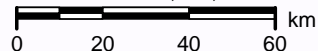


Consulting Engineers

CTJC

CARL T. JONES CORPORATION

Scale 1:1,750,000

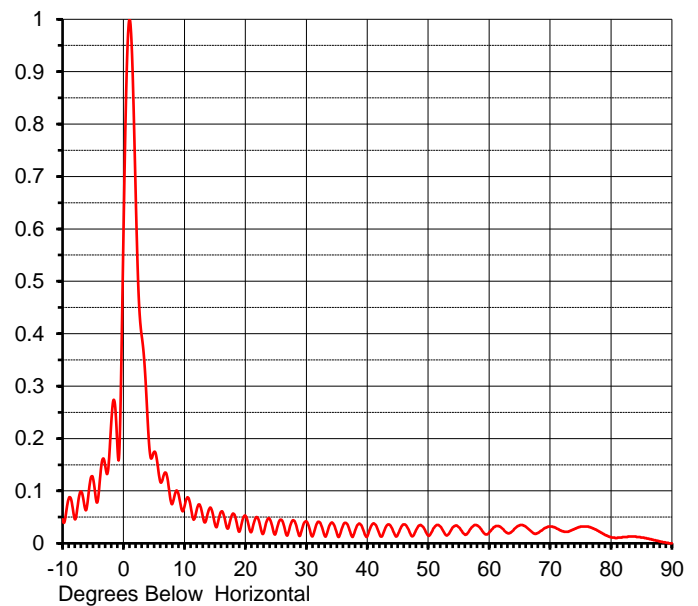
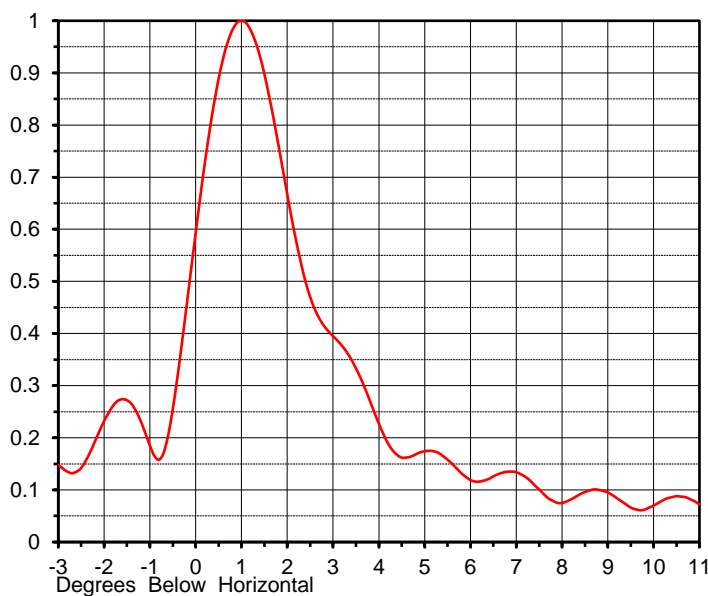


ELEVATION PATTERN

Proposal No. **C-71651-4**
 Date **5-May-21**
 Call Letters **WUCW**
 Channel **22**
 Frequency **521 MHz**
 Antenna Type **TFU-33EBT/VP-R O8 SP**

RMS Directivity at Main Lobe **27.5 (14.39 dB)**
 RMS Directivity at Horizontal **9.7 (9.87 dB)**
Calculated

Beam Tilt **1.00 deg**
 Pattern Number **33E275100**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.046	10.0	0.070	30.0	0.042	50.0	0.015	70.0	0.032
-9.0	0.085	11.0	0.072	31.0	0.013	51.0	0.030	71.0	0.029
-8.0	0.046	12.0	0.063	32.0	0.041	52.0	0.032	72.0	0.023
-7.0	0.099	13.0	0.052	33.0	0.015	53.0	0.015	73.0	0.022
-6.0	0.070	14.0	0.064	34.0	0.038	54.0	0.030	74.0	0.027
-5.0	0.124	15.0	0.037	35.0	0.020	55.0	0.031	75.0	0.032
-4.0	0.104	16.0	0.060	36.0	0.033	56.0	0.017	76.0	0.032
-3.0	0.148	17.0	0.029	37.0	0.029	57.0	0.028	77.0	0.029
-2.0	0.232	18.0	0.057	38.0	0.024	58.0	0.034	78.0	0.023
-1.0	0.185	19.0	0.022	39.0	0.035	59.0	0.022	79.0	0.016
0.0	0.593	20.0	0.053	40.0	0.013	60.0	0.020	80.0	0.012
1.0	1.000	21.0	0.022	41.0	0.038	61.0	0.032	81.0	0.010
2.0	0.667	22.0	0.049	42.0	0.018	62.0	0.030	82.0	0.012
3.0	0.395	23.0	0.020	43.0	0.030	63.0	0.020	83.0	0.013
4.0	0.227	24.0	0.046	44.0	0.030	64.0	0.025	84.0	0.013
5.0	0.174	25.0	0.020	45.0	0.016	65.0	0.034	85.0	0.011
6.0	0.119	26.0	0.044	46.0	0.036	66.0	0.032	86.0	0.009
7.0	0.134	27.0	0.018	47.0	0.020	67.0	0.022	87.0	0.006
8.0	0.075	28.0	0.043	48.0	0.025	68.0	0.020	88.0	0.004
9.0	0.095	29.0	0.015	49.0	0.033	69.0	0.028	89.0	0.001
								90.0	0.000

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RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

The licensee of WUCW is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WUCW antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the WUCW channel 22 request for a minor modification of construction permit as proposed herein will operate with a maximum ERP of 790 kW from an elliptically polarized non-directional transmitting antenna with a centerline height of 408.2 meters above ground level (AGL). Considering the elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 8 degrees. The proposed WUCW facility is predicted to produce a worst-case power density at two meters above ground level, at 108.8 meters from the tower base, of $0.306 \mu\text{W}/\text{cm}^2$, which is 0.09% of the FCC guideline value of $347.33 \mu\text{W}/\text{cm}^2$ for an "uncontrolled" environment, and 0.018% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, so the proposal's power density contribution is considered insignificant.

Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules

WUCW

Channel 22 - Minneapolis, Minnesota

ERP = 790000.00 WATTS

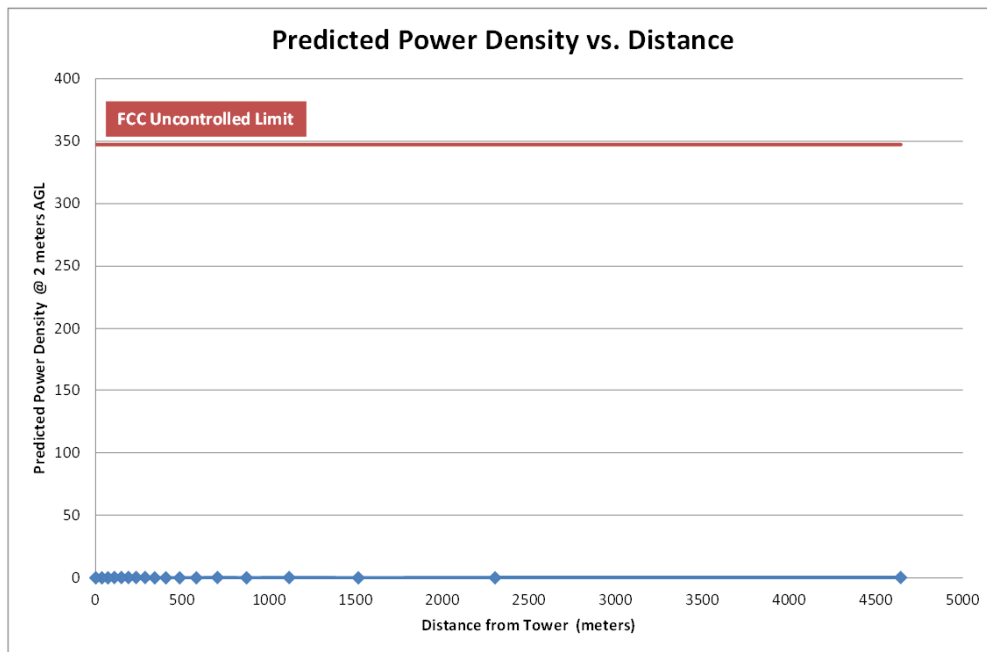
APPENDIX A

Maximum ERP 790 kW

Polarization ----- 2 Circular
Antenna Height Above Ground -- 408.2 meters 1339.2 feet
FCC Uncontrolled RFR Limit ---- 347.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 0.306 $\mu\text{W}/\text{cm}^2$
0.09% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	WUCW ERP (kW)	WUCW Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			1.000	790.0000			
5	4642.9	4660.6	0.174	23.9180	0.074	0.02%	No
10	2303.7	2339.2	0.070	3.8710	0.047	0.01%	No
15	1516.0	1569.4	0.037	1.0815	0.029	0.01%	No
20	1116.0	1187.6	0.053	2.2191	0.105	0.03%	No
25	871.1	961.2	0.020	0.3160	0.023	0.01%	No
30	703.6	812.4	0.042	1.3936	0.141	0.04%	No
35	580.1	708.2	0.020	0.3160	0.042	0.01%	No
40	484.1	631.9	0.013	0.1335	0.022	0.01%	No
45	406.2	574.5	0.016	0.2022	0.041	0.01%	No
50	340.8	530.3	0.015	0.1778	0.042	0.01%	No
55	284.4	495.9	0.031	0.7592	0.206	0.06%	No
60	234.5	469.0	0.020	0.3160	0.096	0.03%	No
65	189.4	448.2	0.034	0.9132	0.304	0.09%	No
70	147.8	432.3	0.032	0.8090	0.289	0.08%	No
75	108.8	420.5	0.032	0.8090	0.306	0.09%	No
80	71.6	412.5	0.012	0.1138	0.045	0.01%	No
85	35.5	407.8	0.011	0.0956	0.038	0.01%	No
90	0.0	406.2	0.000	0.0000	0.000	0.00%	No





WUCW - MINNEAPOLIS, MINNESOTA

MARCH 2022

APPENDIX B

Longley-Rice Interference Analysis

Please process using: **Study cell size: 0.50 km and Profile point spacing: 0.10 km**

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WUCW 22 712p1C 790K OMNI #1990, Model: Longley-Rice
Start: 2022.03.01 14:31:49

Study created: 2022.03.01 14:31:49

Study build station data: LMS TV 2022-02-28

Proposal: WUCW.A D22 DT APP MINNEAPOLIS, MN
File number: WUCW 22 712p1C 790K OMNI
Facility ID: 36395
Station data: User record
Record ID: 618
Country: U.S.
Zone: II

Build options:
Protect pre-transition records not on baseline channel

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WEUX	D21	DT	LIC	CHIPPEWA FALLS, WI	BLANK0000078776	116.2 km
Yes	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	323.6
No	WFRV-TV	D22	DT	LIC	GREEN BAY, WI	BLANK0000163103	415.4
No	WVCY-TV	D22	DT	LIC	MILWAUKEE, WI	BMLDT20091116ABD	471.6
No	KQEG-CD	D23	DC	LIC	LA CRESCENT, MN	BLANK0000001542	206.7
Yes	KTCI-TV	D23	DT	LIC	ST. PAUL, MN	BLEDT20100326AAI	1.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22
Latitude: 45 3 44.00 N (NAD83)
Longitude: 93 8 22.00 W
Height AMSL: 712.1 m
HAAT: 436.2 m
Peak ERP: 790 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.75

39.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	790 kW	438.5 m	110.6 km
45.0	790	432.3	110.1
90.0	790	422.8	109.2
135.0	790	432.0	110.1
180.0	790	438.2	110.6

Appendix B - Interference Analysis
WUCW - Minneapolis, Minnesota
Channel 22 -790 kW - Page 2

225.0 790 443.4 111.1
 270.0 790 442.0 110.9
 315.0 790 435.1 110.3

ERP exceeds maximum
 ERP: 790 kW ERP maximum: 714 kW

Proposal 24.56 dBu contour does not cross Canadian border
 Distance to Canadian border: 352.5 km

Distance to Mexican border: 1847.0 km

Conditions at FCC monitoring station: Grand Island NE
 Bearing: 224.9 degrees Distance: 629.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 245.3 degrees Distance: 1127.6 km

Study cell size: 0.50 km
 Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
 Maximum new IX to LPTV: 2.00%

 Interference to BLANK0000078776 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEUX	D21	DT	LIC	CHIPPEWA FALLS, WI	BLANK0000078776	
Undesireds:	WUCW	D22	DT	BL	MINNEAPOLIS, MN	DTVBL36395	116.2 km
	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	116.2
	WIFS	D21	DT	LIC	JANESVILLE, WI	BLANK0000090143	271.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	20083.0	380,139	19567.7	366,782	19024.0	350,902	19001.9	349,150	0.12 0.50

Undesired		Total IX	Unique IX, before	Unique IX, after
WUCW D22 DT BL	481.9	15,099	481.9	15,099
WUCW.A D22 DT APP	504.0	16,851		504.0 16,851
WIFS D21 DT LIC	61.8	781	61.8	781

 Interference to BLANK0000063428 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	
Undesireds:	WUCW	D22	DT	BL	MINNEAPOLIS, MN	DTVBL36395	323.6 km
	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	323.6
	KGCW	D21	DT	LIC	BURLINGTON, IA	BLANK0000107917	164.8
	WLS-TV	D22	DT	CP	CHICAGO, IL	BLANK0000086908	353.6
	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	364.9
	KHQA-TV	D22	DT	CP	HANNIBAL, MO	BLANK0000152836	262.3
	WOWT	D22	DT	LIC	OMAHA, NE	BLCDT20110509AAN	360.1
	WFRV-TV	D22	DT	LIC	GREEN BAY, WI	BLANK0000163103	388.5
	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	151.7
	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLANK0000142182	165.9

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	30727.0	825,945	30492.5	819,283	29907.2	797,014	29912.1	797,105	-0.02 -0.01

Undesired	Total IX	Unique IX, before	Unique IX, after

Appendix B - Interference Analysis
WUCW - Minneapolis, Minnesota
Channel 22 -790 kW - Page 3

WUCW D22 DT BL	44.1	755	44.1	755		
WUCW.A D22 DT APP	39.2	664			39.2	664
KGCW D21 DT LIC	1.5	9	0.0	0	0.0	0
WLS-TV D22 DT CP	41.0	3,228	25.8	2,735	25.8	2,735
WBUI D22 DT LIC	0.5	9	0.0	0	0.0	0
KHQA-TV D22 DT CP	175.5	7,070	158.5	6,569	158.5	6,569
WOWT D22 DT LIC	5.7	125	1.0	119	1.0	119
WFRV-TV D22 DT LIC	2.5	17	0.7	17	0.7	17
KCWI-TV D23 DT APP	337.4	11,575	333.6	11,573	333.6	11,573
WQPT-TV D23 DT LIC	2.0	9	0.0	0	0.0	0

Interference to BLANK0000063428 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPKR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	
Undesireds:	WUCW	D22	DT	BL	MINNEAPOLIS, MN	DTVBL36395	323.6 km
	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	323.6
	KGCW	D21	DT	LIC	BURLINGTON, IA	BLANK00000107917	164.8
	WLS-TV	D22	DT	CP	CHICAGO, IL	BLANK0000086908	353.6
	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	364.9
	KHQA-TV	D22	DT	CP	HANNIBAL, MO	BLANK0000152836	262.3
	WOWT	D22	DT	LIC	OMAHA, NE	BLCDT20110509AAN	360.1
	WFRV-TV	D22	DT	LIC	GREEN BAY, WI	BLANK0000163103	388.5
	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AIO	151.7
	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLANK0000142182	165.9

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	30727.0	825,945	30492.5	819,283	30179.8	805,202	30184.7 805,293 -0.02 -0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUCW D22 DT BL	44.1	755	44.1	755		
WUCW.A D22 DT APP	39.2	664			39.2	664
KGCW D21 DT LIC	1.5	9	0.0	0	0.0	0
WLS-TV D22 DT CP	41.0	3,228	25.8	2,735	25.8	2,735
WBUI D22 DT LIC	0.5	9	0.0	0	0.0	0
KHQA-TV D22 DT CP	175.5	7,070	158.8	6,571	158.8	6,571
WOWT D22 DT LIC	5.7	125	1.5	119	1.5	119
WFRV-TV D22 DT LIC	2.5	17	0.7	17	0.7	17
KCWI-TV D23 DT LIC	63.8	3,385	61.1	3,385	61.1	3,385
WQPT-TV D23 DT LIC	2.0	9	0.0	0	0.0	0

Interference to BLEDT20100326AAI LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTCI-TV	D23	DT	LIC	ST. PAUL, MN	BLEDT20100326AAI	
Undesireds:	WUCW	D22	DT	BL	MINNEAPOLIS, MN	DTVBL36395	1.2 km
	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	1.3
	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	361.0
	KQEG-CD	D23	DC	LIC	LA CRESCENT, MN	BLANK0000001542	205.6
	W23BW-D	D23	DC	CP	MADISON, WI	BLANK0000127546	366.7

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	28804.0	3,606,492	28514.7	3,597,803	28452.5	3,595,203	28348.0 3,591,809 0.37 0.09

Undesired	Total IX		Unique IX, before		Unique IX, after	
WUCW D22 DT BL	38.2	1,028	38.2	1,028		
WUCW.A D22 DT APP	142.7	4,422			142.7	4,422
KCWI-TV D23 DT APP	13.3	853	12.6	827	12.6	827
KQEG-CD D23 DC LIC	11.5	745	10.7	719	10.7	719

Interference to BLEDT20100326AAI LIC scenario 2

Appendix B - Interference Analysis
WUCW - Minneapolis, Minnesota
Channel 22 -790 kW - Page 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTCI-TV	D23	DT	LIC	ST. PAUL, MN	BLEDT20100326AAI	
Undesireds:	WUCW	D22	DT	BL	MINNEAPOLIS, MN	DTVBL36395	1.2 km
	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	1.3
	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AIO	361.0
	KQEG-CD	D23	DC	LIC	LA CRESCENT, MN	BLANK0000001542	205.6
	W23BW-D	D23	DC	CP	MADISON, WI	BLANK0000127546	366.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28804.0 3,606,492	28514.7 3,597,803	28463.6 3,596,027	28359.1 3,592,633	0.37 0.09

Undesired	Total IX	Unique IX, before	Unique IX, after
WUCW D22 DT BL 38.2	1,028	38.2 1,028	
WUCW.A D22 DT APP 142.7	4,422	142.7 4,422	
KCWI-TV D23 DT LIC 1.8	3	1.5 3	1.5 3
KQEG-CD D23 DC LIC 11.5	745	11.2 745	11.2 745

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUCW.A	D22	DT	APP	MINNEAPOLIS, MN	WUCW 22 712p1C 790K OM	
Undesireds:	WEUX	D21	DT	LIC	CHIPPEWA FALLS, WI	BLANK0000078776	116.2 km
	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	323.6

Service area	Terrain-limited	IX-free	Percent IX
38275.5 3,842,202	37727.2 3,827,353	37405.9 3,813,997	0.85 0.35

Undesired	Total IX	Unique IX	Prcnt Unique IX
WEUX D21 DT LIC 302.0	12,515	299.0 12,281	0.79 0.32
KPXR-TV D22 DT LIC 22.3	1,075	19.3 841	0.05 0.02