

ENGINEERING EXHIBIT

Incentive Auction Channel Reassignment

Application for Digital Television Station Construction Permit

LeSEA Broadcasting of South Bend, Inc.

WHME-TV South Bend, IN

Facility ID. 36117

Ch. 36 236 kW (H), 70.8 kW (V) 293 m

LeSEA Broadcasting of South Bend, Inc. is the licensee of digital television station WHME-TV, Channel 48, Facility ID 36117, South Bend, IN. LeSEA proposes construction of the WHME-TV post-auction facility on Channel 36, which was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice*, DA 17-317, released April 23, 2017.

The proposed Channel 36 operation will employ a new side-mounted antenna, replacing the existing side-mounted Channel 48 antenna. The Antenna Structure Registration is 1060842. The antenna height above average terrain has been adjusted to 293 m, which agrees with the *TVStudy* results.

The antenna is an elliptically polarized directional Dielectric model TFU-10DSC-R T160. LeSEA proposes to operate WHME-TV with an effective radiated power of 236 kW (H) and 70.8 kW (V) at 293 m above average terrain.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on equation 10 and considering 20 percent antenna relative field in downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $5.18 \mu\text{W}/\text{cm}^2$, which is 1.29 percent of the general population/uncontrolled maximum permitted exposure limit.

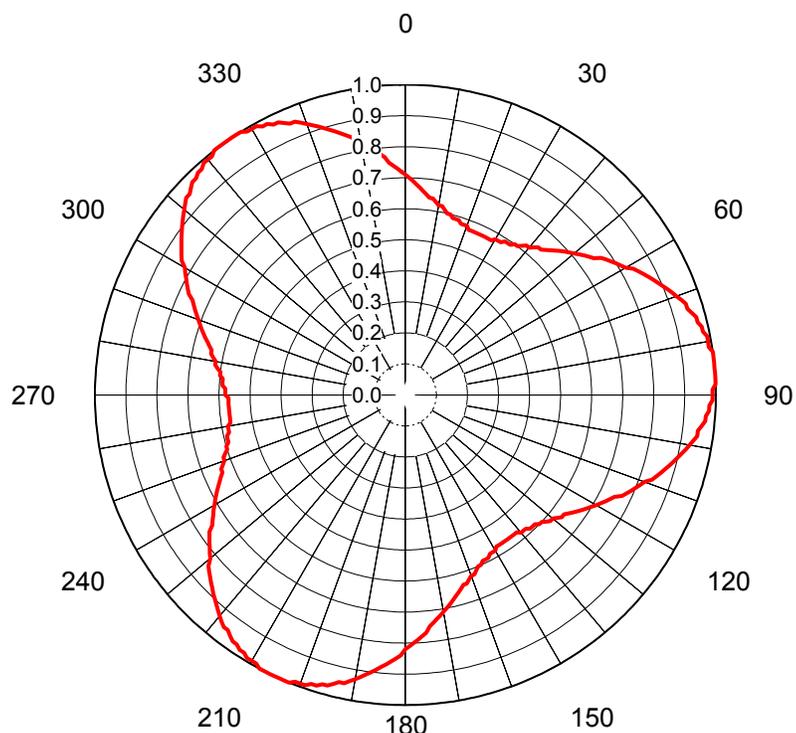
Prepared by

Larry Vehorn

Director of Engineering

LeSEA Broadcasting

AZIMUTH PATTERN Horizontal Polarization

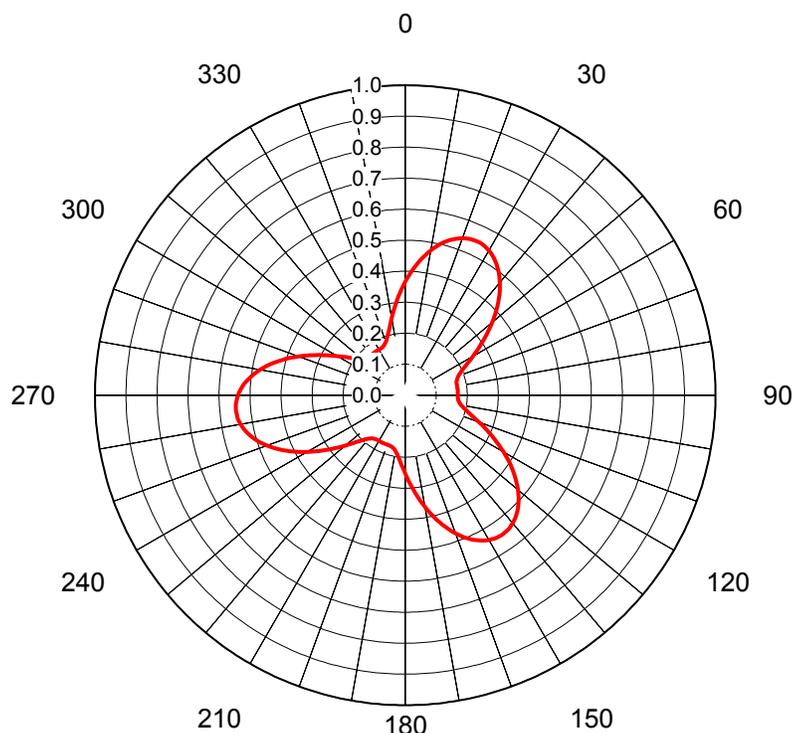


Proposal No. **C-70177**
 Date **19-Feb-17**
 Call Letters **WHME**
 Frequency **605 MHz**
 Channel **36**
 Antenna Type **TFU-10DSC-R T160**
 Gain **1.6 (2.04dB)**
Calculated
 Directional
 Drawing # **TFU-T160**

Deg	Value																		
0	0.710	36	0.600	72	0.950	108	0.850	144	0.570	180	0.820	216	0.960	252	0.610	288	0.690	324	1.000
1	0.700	37	0.600	73	0.950	109	0.840	145	0.570	181	0.840	217	0.950	253	0.600	289	0.700	325	1.000
2	0.690	38	0.610	74	0.960	110	0.820	146	0.570	182	0.850	218	0.950	254	0.600	290	0.710	326	1.000
3	0.680	39	0.620	75	0.970	111	0.810	147	0.570	183	0.860	219	0.940	255	0.590	291	0.720	327	1.000
4	0.670	40	0.620	76	0.970	112	0.800	148	0.570	184	0.870	220	0.930	256	0.590	292	0.730	328	1.000
5	0.660	41	0.630	77	0.980	113	0.790	149	0.570	185	0.880	221	0.920	257	0.590	293	0.740	329	0.990
6	0.650	42	0.640	78	0.980	114	0.780	150	0.580	186	0.890	222	0.910	258	0.580	294	0.750	330	0.990
7	0.640	43	0.640	79	0.990	115	0.770	151	0.580	187	0.900	223	0.900	259	0.580	295	0.770	331	0.990
8	0.640	44	0.650	80	0.990	116	0.750	152	0.580	188	0.910	224	0.890	260	0.580	296	0.780	332	0.980
9	0.630	45	0.660	81	0.990	117	0.740	153	0.590	189	0.920	225	0.880	261	0.570	297	0.790	333	0.980
10	0.620	46	0.670	82	1.000	118	0.730	154	0.590	190	0.930	226	0.870	262	0.570	298	0.800	334	0.970
11	0.620	47	0.680	83	1.000	119	0.720	155	0.590	191	0.940	227	0.860	263	0.570	299	0.810	335	0.970
12	0.610	48	0.690	84	1.000	120	0.710	156	0.600	192	0.950	228	0.850	264	0.570	300	0.820	336	0.960
13	0.600	49	0.700	85	1.000	121	0.700	157	0.600	193	0.950	229	0.840	265	0.570	301	0.840	337	0.950
14	0.600	50	0.710	86	1.000	122	0.690	158	0.610	194	0.960	230	0.820	266	0.570	302	0.850	338	0.950
15	0.590	51	0.720	87	1.000	123	0.680	159	0.620	195	0.970	231	0.810	267	0.570	303	0.860	339	0.940
16	0.590	52	0.730	88	1.000	124	0.670	160	0.620	196	0.970	232	0.800	268	0.570	304	0.870	340	0.930
17	0.590	53	0.740	89	0.990	125	0.660	161	0.630	197	0.980	233	0.790	269	0.570	305	0.880	341	0.920
18	0.580	54	0.750	90	0.990	126	0.650	162	0.640	198	0.980	234	0.780	270	0.580	306	0.890	342	0.910
19	0.580	55	0.770	91	0.990	127	0.640	163	0.640	199	0.990	235	0.770	271	0.580	307	0.900	343	0.900
20	0.580	56	0.780	92	0.980	128	0.640	164	0.650	200	0.990	236	0.750	272	0.580	308	0.910	344	0.890
21	0.570	57	0.790	93	0.980	129	0.630	165	0.660	201	0.990	237	0.740	273	0.590	309	0.920	345	0.880
22	0.570	58	0.800	94	0.970	130	0.620	166	0.670	202	1.000	238	0.730	274	0.590	310	0.930	346	0.870
23	0.570	59	0.810	95	0.970	131	0.620	167	0.680	203	1.000	239	0.720	275	0.590	311	0.940	347	0.860
24	0.570	60	0.820	96	0.960	132	0.610	168	0.690	204	1.000	240	0.710	276	0.600	312	0.950	348	0.850
25	0.570	61	0.840	97	0.950	133	0.600	169	0.700	205	1.000	241	0.700	277	0.600	313	0.950	349	0.840
26	0.570	62	0.850	98	0.950	134	0.600	170	0.710	206	1.000	242	0.690	278	0.610	314	0.960	350	0.820
27	0.570	63	0.860	99	0.940	135	0.590	171	0.720	207	1.000	243	0.680	279	0.620	315	0.970	351	0.810
28	0.570	64	0.870	100	0.930	136	0.590	172	0.730	208	1.000	244	0.670	280	0.620	316	0.970	352	0.800
29	0.570	65	0.880	101	0.920	137	0.590	173	0.740	209	0.990	245	0.660	281	0.630	317	0.980	353	0.790
30	0.580	66	0.890	102	0.910	138	0.580	174	0.750	210	0.990	246	0.650	282	0.640	318	0.980	354	0.780
31	0.580	67	0.900	103	0.900	139	0.580	175	0.770	211	0.990	247	0.640	283	0.640	319	0.990	355	0.770
32	0.580	68	0.910	104	0.890	140	0.580	176	0.780	212	0.980	248	0.640	284	0.650	320	0.990	356	0.750
33	0.590	69	0.920	105	0.880	141	0.570	177	0.790	213	0.980	249	0.630	285	0.660	321	0.990	357	0.740
34	0.590	70	0.930	106	0.870	142	0.570	178	0.800	214	0.970	250	0.620	286	0.670	322	1.000	358	0.730
35	0.590	71	0.940	107	0.860	143	0.570	179	0.810	215	0.970	251	0.620	287	0.680	323	1.000	359	0.720

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AZIMUTH PATTERN Vertical Polarization



Proposal No. **C-70177**
 Date **19-Feb-17**
 Call Letters **WHME**
 Frequency **605 MHz**
 Channel **36**
 Antenna Type **TFU-10DSC-R T160**
 Gain **2.32 (3.66dB)**
Calculated
 Directional
 Drawing # **t160-V**

Deg	Value																		
0	0.366	36	0.507	72	0.177	108	0.234	144	0.547	180	0.252	216	0.173	252	0.492	288	0.389	324	0.170
1	0.378	37	0.500	73	0.175	109	0.243	145	0.548	181	0.243	217	0.175	253	0.500	289	0.378	325	0.170
2	0.389	38	0.492	74	0.173	110	0.252	146	0.547	182	0.234	218	0.177	254	0.507	290	0.366	326	0.170
3	0.401	39	0.483	75	0.172	111	0.263	147	0.546	183	0.225	219	0.179	255	0.514	291	0.354	327	0.170
4	0.412	40	0.474	76	0.171	112	0.273	148	0.545	184	0.217	220	0.183	256	0.520	292	0.342	328	0.170
5	0.424	41	0.465	77	0.170	113	0.284	149	0.542	185	0.210	221	0.187	257	0.526	293	0.330	329	0.170
6	0.434	42	0.455	78	0.170	114	0.295	150	0.539	186	0.203	222	0.191	258	0.531	294	0.318	330	0.170
7	0.445	43	0.445	79	0.170	115	0.307	151	0.535	187	0.197	223	0.197	259	0.535	295	0.307	331	0.170
8	0.455	44	0.434	80	0.170	116	0.318	152	0.531	188	0.191	224	0.203	260	0.539	296	0.295	332	0.170
9	0.465	45	0.424	81	0.170	117	0.330	153	0.526	189	0.187	225	0.210	261	0.542	297	0.284	333	0.170
10	0.474	46	0.412	82	0.170	118	0.342	154	0.520	190	0.183	226	0.217	262	0.545	298	0.273	334	0.171
11	0.483	47	0.401	83	0.170	119	0.354	155	0.514	191	0.179	227	0.225	263	0.546	299	0.263	335	0.172
12	0.492	48	0.389	84	0.170	120	0.366	156	0.507	192	0.177	228	0.234	264	0.547	300	0.252	336	0.173
13	0.500	49	0.378	85	0.170	121	0.378	157	0.500	193	0.175	229	0.243	265	0.548	301	0.243	337	0.175
14	0.507	50	0.366	86	0.170	122	0.389	158	0.492	194	0.173	230	0.252	266	0.547	302	0.234	338	0.177
15	0.514	51	0.354	87	0.170	123	0.401	159	0.483	195	0.172	231	0.263	267	0.546	303	0.225	339	0.179
16	0.520	52	0.342	88	0.170	124	0.412	160	0.474	196	0.171	232	0.273	268	0.545	304	0.217	340	0.183
17	0.526	53	0.330	89	0.170	125	0.424	161	0.465	197	0.170	233	0.284	269	0.542	305	0.210	341	0.187
18	0.531	54	0.318	90	0.170	126	0.434	162	0.455	198	0.170	234	0.295	270	0.539	306	0.203	342	0.191
19	0.535	55	0.307	91	0.170	127	0.445	163	0.445	199	0.170	235	0.307	271	0.535	307	0.197	343	0.197
20	0.539	56	0.295	92	0.170	128	0.455	164	0.434	200	0.170	236	0.318	272	0.531	308	0.191	344	0.203
21	0.542	57	0.284	93	0.170	129	0.465	165	0.424	201	0.170	237	0.330	273	0.526	309	0.187	345	0.210
22	0.545	58	0.273	94	0.171	130	0.474	166	0.412	202	0.170	238	0.342	274	0.520	310	0.183	346	0.217
23	0.546	59	0.263	95	0.172	131	0.483	167	0.401	203	0.170	239	0.354	275	0.514	311	0.179	347	0.225
24	0.547	60	0.252	96	0.173	132	0.492	168	0.389	204	0.170	240	0.366	276	0.507	312	0.177	348	0.234
25	0.548	61	0.243	97	0.175	133	0.500	169	0.378	205	0.170	241	0.378	277	0.500	313	0.175	349	0.243
26	0.547	62	0.234	98	0.177	134	0.507	170	0.366	206	0.170	242	0.389	278	0.492	314	0.173	350	0.252
27	0.546	63	0.225	99	0.179	135	0.514	171	0.354	207	0.170	243	0.401	279	0.483	315	0.172	351	0.263
28	0.545	64	0.217	100	0.183	136	0.520	172	0.342	208	0.170	244	0.412	280	0.474	316	0.171	352	0.273
29	0.542	65	0.210	101	0.187	137	0.526	173	0.330	209	0.170	245	0.424	281	0.465	317	0.170	353	0.284
30	0.539	66	0.203	102	0.191	138	0.531	174	0.318	210	0.170	246	0.434	282	0.455	318	0.170	354	0.295
31	0.535	67	0.197	103	0.197	139	0.535	175	0.307	211	0.170	247	0.445	283	0.445	319	0.170	355	0.307
32	0.531	68	0.191	104	0.203	140	0.539	176	0.295	212	0.170	248	0.455	284	0.434	320	0.170	356	0.318
33	0.526	69	0.187	105	0.210	141	0.542	177	0.284	213	0.170	249	0.465	285	0.424	321	0.170	357	0.330
34	0.520	70	0.183	106	0.217	142	0.545	178	0.273	214	0.171	250	0.474	286	0.412	322	0.170	358	0.342
35	0.514	71	0.179	107	0.225	143	0.546	179	0.263	215	0.172	251	0.483	287	0.401	323	0.170	359	0.354

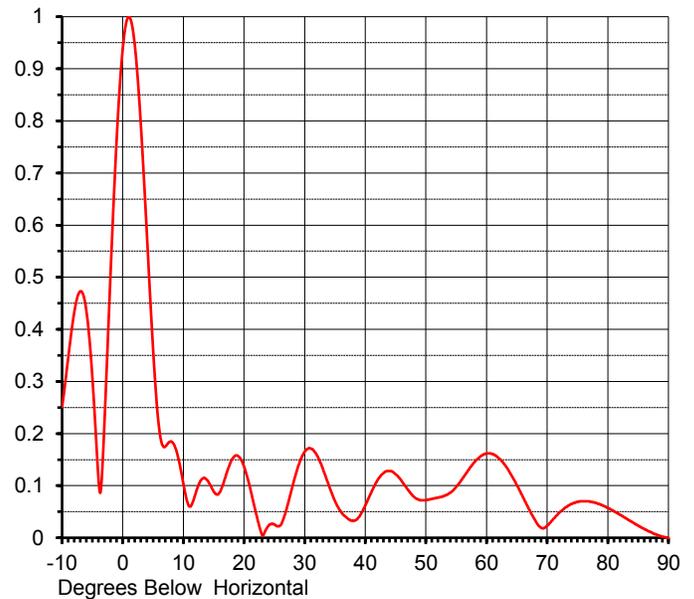
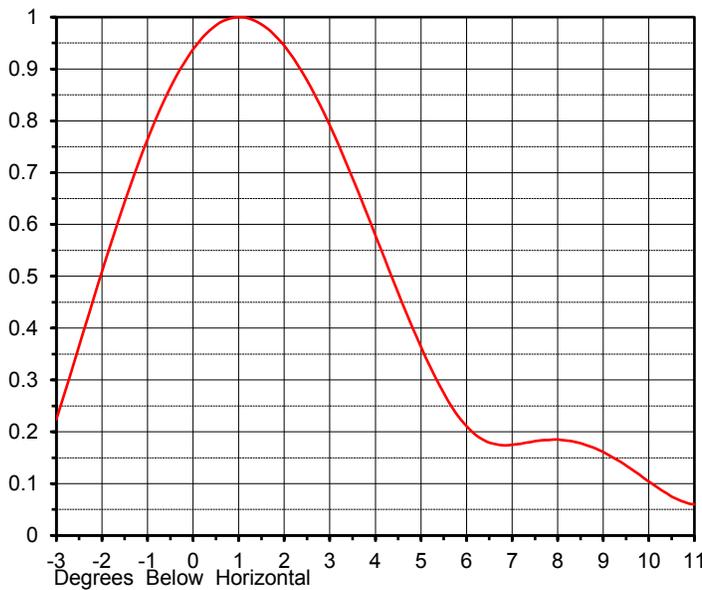
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ELEVATION PATTERN

Proposal No. **C-70177**
 Date **19-Feb-17**
 Call Letters **WHME**
 Frequency **605 MHz**
 Channel **36**
 Antenna Type **TFU-10DSC-R T160**

RMS Directivity at Main Lobe **9.50 (9.78 dB)**
 RMS Directivity at Horizontal **8.40 (9.24 dB)**
Calculated

Beam Tilt **1.00 deg**
 Drawing Number **10Q095100**



Angle	Field								
-10.0	0.251	10.0	0.104	30.0	0.165	50.0	0.072	70.0	0.023
-9.0	0.344	11.0	0.060	31.0	0.171	51.0	0.075	71.0	0.036
-8.0	0.432	12.0	0.084	32.0	0.159	52.0	0.077	72.0	0.048
-7.0	0.473	13.0	0.112	33.0	0.133	53.0	0.080	73.0	0.058
-6.0	0.436	14.0	0.110	34.0	0.100	54.0	0.086	74.0	0.065
-5.0	0.307	15.0	0.089	35.0	0.071	55.0	0.098	75.0	0.069
-4.0	0.114	16.0	0.087	36.0	0.050	56.0	0.113	76.0	0.070
-3.0	0.224	17.0	0.119	37.0	0.038	57.0	0.130	77.0	0.070
-2.0	0.509	18.0	0.150	38.0	0.032	58.0	0.145	78.0	0.067
-1.0	0.764	19.0	0.157	39.0	0.040	59.0	0.156	79.0	0.063
0.0	0.938	20.0	0.137	40.0	0.062	60.0	0.162	80.0	0.057
1.0	1.000	21.0	0.096	41.0	0.087	61.0	0.161	81.0	0.051
2.0	0.945	22.0	0.046	42.0	0.110	62.0	0.153	82.0	0.044
3.0	0.791	23.0	0.005	43.0	0.124	63.0	0.140	83.0	0.037
4.0	0.579	24.0	0.022	44.0	0.128	64.0	0.122	84.0	0.030
5.0	0.364	25.0	0.026	45.0	0.122	65.0	0.101	85.0	0.023
6.0	0.211	26.0	0.024	46.0	0.109	66.0	0.078	86.0	0.017
7.0	0.175	27.0	0.054	47.0	0.093	67.0	0.055	87.0	0.011
8.0	0.185	28.0	0.099	48.0	0.079	68.0	0.034	88.0	0.006
9.0	0.161	29.0	0.139	49.0	0.072	69.0	0.019	89.0	0.002
								90.0	0.000

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Summary

Proposal No. **C-70177**
Date **19-Feb-17**
Call Letters **WHME**
Frequency **605 MHz**
Channel **36**
Antenna Type **TFU-10DSC-R T160**

Antenna

	Hpol		Vpol	
ERP:	236.0 kW	(23.73 dBk)	70.8 kW	(18.50 dBk)
Peak Gain*	12.60	(11.00 dB)	3.78	(5.78 dB)

Antenna Input Power **18.7 kW (12.73 dBk)**

Transmission Line

Type	Rigid	Attenuation	(1.66 dB)
Size	4-1/16"	Efficiency	68.3%
Impedance	50 Ohm		
Length	1000 ft	304.8 m	

Transmitter Output

27.4 kW (14.38 dBk)

Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. Includes losses within antenna.

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tvstudy v2.2.2

Database: localhost, Study: DTVBL36117 293M, Model: Longley-Rice
Start: 2017.06.20 11:16:11

Study created: 2017.06.20 11:16:06

Study build station data: LMS TV 2017-05-19 (8)

Proposal: WHME-TV D36 DT BL SOUTH BEND, IN
File number: DTVBL36117 293M
Facility ID: 36117
Station data: User record
Record ID: 21
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number
Distance WGB0-DT 125.9 km	D35	DT	BL	JOLIET, IL	DTVBL12498
WOLP-CD 132.7	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892
WMEC 405.9	D36	DT	BL	MACOMB, IL	DTVBL70537
WQRF-TV 260.5	D36	DT	BL	ROCKFORD, IL	DTVBL52408
WCCU 205.1	D36	DT	BL	URBANA, IL	DTVBL69544
WBXI-CD 202.9	D36	DC	BL	INDIANAPOLIS, IN	DTVBL70416
WKAS 460.4	D36	DT	BL	ASHLAND, KY	DTVBL34171
WAVE 359.7	D36	DT	BL	LOUISVILLE, KY	DTVBL13989
WAQP 250.1	D36	DT	BL	SAGINAW, MI	DTVBL67792
WQHS-DT 371.9	D36	DT	BL	CLEVELAND, OH	DTVBL60556
WRGT-TV 262.8	D36	DT	BL	DAYTON, OH	DTVBL411
WMNT-CD 218.6	D36	DC	BL	TOLEDO, OH	DTVBL51913
WACY-TV 340.9	D36	DT	BL	APPLETON, WI	DTVBL361
WMKE-CD 219.9	D36	DC	BL	MILWAUKEE, WI	DTVBL35091

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Latitude: 41 35 43.17 N (NAD83)
Longitude: 86 9 38.02 W
Height AMSL: 538.6 m
HAAT: 293.0 m
Peak ERP: 236 kW
Antenna: DIE-TFU-10DSC T160 0.0 deg

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	119 kW	307.1 m	80.4 km
45.0	104	308.1	79.7
90.0	231	289.8	82.9
135.0	85.0	282.1	76.0
180.0	159	286.7	80.1
225.0	181	280.4	80.2
270.0	79.4	286.8	76.1
315.0	217	303.6	84.2

Proposal service area is within baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

**Proposal is within coordination distance of Canadian border

Distance to Canadian border: 254.3 km

Distance to Mexican border: 1897.2 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 8.5 degrees Distance: 113.6 km

ERP: 94.7 kW Field strength: 36.7 dBu, 0.1 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 270.6 degrees Distance: 1607.0 km

Study cell size: 2.00 km

Profile point spacing: 1.00 km

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

Maximum new IX to LPTV: 2.00%

Interference to DTVBL12498 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired: DTVBL12498	WGB0-DT	D35	DT	BL	JOLIET, IL
Undesireds: DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN 125.9 km
DTVBL36117 293M	WHME-TV	D36	DT	BL	SOUTH BEND, IN 125.9
DTVBL10981	WCPX-TV	D34	DT	BL	CHICAGO, IL 2.5
DTVBL68547	WWRS-TV	D34	DT	BL	MAYVILLE, WI 186.1
BLEDT20050218ABQ	KRIN	D35	DT	LIC	WATERLOO, IA 352.3
DTVBL28311	WTVP	D35	DT	BL	PEORIA, IL 215.4
DTVBL20426	WTWO	D35	DT	BL	TERRE HAUTE, IN 295.9
DTVBL167892	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI 194.6
DTVBL21253	WPBN-TV	D35	DT	BL	TRAVERSE CITY, MI 378.0
DTVBL25067	WPTD	D35	DT	BL	DAYTON, OH 372.9
DTVBL52408	WQRF-TV	D36	DT	BL	ROCKFORD, IL 134.8
DTVBL69544	WCCU	D36	DT	BL	URBANA, IL 178.0
DTVBL35091	WMKE-CD	D36	DC	BL	MILWAUKEE, WI 135.0

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
27733.7	9,771,498	27697.7
27280.5	9,744,541	9,769,627
		27280.5
		9,744,541

Undesired	Total IX	Unique IX, before
Unique IX, after		
WHME-TV D36 DT BL	24.2	4,901
WHME-TV D36 DT BL	24.2	4,901
24.2	4,901	
WCPX-TV D34 DT BL	149.3	9,242
149.3	9,242	
KRIN D35 DT LIC	19.9	550
0.0	0	0
WTVP D35 DT BL	60.2	8,332
28.2	3,126	

WTW0 D35 DT BL	43.7	120	39.7	114
39.7	114			
WQRF-TV D36 DT BL	171.8	7,697	143.8	2,497
143.8	2,497			

Interference to DTVBL167892 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL70537 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL52408 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL
DTVBL52408					
Undesireds:	WHME-TV	D36	DT	BL	SOUTH BEND, IN
DTVBL36117				260.5 km	
	WHME-TV	D36	DT	BL	SOUTH BEND, IN
DTVBL36117	293M			260.5	
	WGB0-DT	D35	DT	BL	JOLIET, IL
DTVBL12498				134.8	
	KFPX-TV	D36	DT	BL	NEWTON, IA
DTVBL81509				337.3	
	WMEC	D36	DT	BL	MACOMB, IL
DTVBL70537				247.1	
	WCCU	D36	DT	BL	URBANA, IL
DTVBL69544				243.2	
	KAAL	D36	DT	LIC	AUSTIN, MN
BLC DT20091110AAF				311.7	
	WACY-TV	D36	DT	BL	APPLETON, WI
DTVBL361				249.5	
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI
DTVBL35091				137.1	

	Service area	Terrain-limited		IX-free, before
IX-free, after	Percent	New IX		
16605.7	1,326,682	16421.5	1,308,021	15940.4
15940.4	1,205,062	0.00	0.00	1,205,062

Undesired	Total IX	Unique IX, before
Unique IX, after		

WHME-TV D36 DT BL	60.1	13,639	8.0	3,037
WHME-TV D36 DT BL	60.1	13,639		
8.0	3,037			
WGB0-DT D35 DT BL	160.2	80,648	124.2	69,643
124.2	69,643			
WMEC D36 DT BL	40.0	617	8.0	511
8.0	511			
WCCU D36 DT BL	128.5	7,656	72.4	1,571
72.4	1,571			
KAAL D36 DT LIC	52.0	296	24.1	187
24.1	187			
WACY-TV D36 DT BL	16.0	839	0.0	0
0.0	0			
WMKE-CD D36 DC BL	188.4	22,798	132.4	11,841
132.4	11,841			

 Interference to DTVBL69544 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired: DTVBL69544	WCCU	D36	DT	BL	URBANA, IL
Undesireds: DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN
		205.1	km		
DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN
293M		205.1			
DTVBL28311	WTVP	D35	DT	BL	PEORIA, IL
		144.1			
DTVBL20426	WTWO	D35	DT	BL	TERRE HAUTE, IN
		127.1			
DTVBL37238	W50CH-D	D36	DC	BL	ALTON, IL
		243.0			
DTVBL70537	WMEC	D36	DT	BL	MACOMB, IL
		238.6			
DTVBL52408	WQRF-TV	D36	DT	BL	ROCKFORD, IL
		243.2			
DTVBL70416	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN
		161.4			
DTVBL13989	WAVE	D36	DT	BL	LOUISVILLE, KY
		280.8			
DTVBL19593	KBSI	D36	DT	BL	CAPE GIRARDEAU, MO
		353.0			
DTVBL411	WRGT-TV	D36	DT	BL	DAYTON, OH
		318.5			
DTVBL35091	WMKE-CD	D36	DC	BL	MILWAUKEE, WI
		309.4			

IX-free, after	Service area	Percent New IX	Terrain-limited	IX-free, before
14558.6	395,101	14546.5	395,097	14530.4
14534.4	394,937	-0.03	-0.00	394,933

Undesired Unique IX, after		Total IX	Unique IX, before
WHME-TV D36 DT BL	16.1	164	12.0
WHME-TV D36 DT BL	12.0	160	
8.0	145		
WAVE D36 DT BL	4.0	15	0.0
0.0	0		0
WRGT-TV D36 DT BL	4.0	15	0.0
0.0	0		0

 Interference to DTVBL70416 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL34171 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL13989 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL67792 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired: DTVBL67792	WAQP	D36	DT	BL	SAGINAW, MI
Undesireds: DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN
			250.1 km		
DTVBL36117	293M WHME-TV	D36	DT	BL	SOUTH BEND, IN
			250.1		
DTVBL167892	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI
			132.5		
DTVBL21253	WPBN-TV	D35	DT	BL	TRAVERSE CITY, MI
			188.1		
DTVBL60556	WQHS-DT	D36	DT	BL	CLEVELAND, OH
			281.3		
	WMNT-CD	D36	DC	BL	TOLEDO, OH

DTVBL51913		179.5			
	WACY-TV	D36 DT BL			APPLETON, WI
DTVBL361		339.4			
	WMKE-CD	D36 DC BL			MILWAUKEE, WI
DTVBL35091		312.5			

	Service area		Terrain-limited		IX-free, before
IX-free, after	Percent New IX				
23322.0	1,992,185	23289.9	1,984,909	23201.5	1,963,885
23201.5	1,963,885	0.00	0.00		

Undesired			Total IX		Unique IX, before
Unique IX, after					
WHME-TV	D36 DT BL	16.1	2,393	0.0	0
WHME-TV	D36 DT BL	16.1	2,393		
0.0	0				
WQHS-DT	D36 DT BL	60.2	17,751	16.0	6,440
16.0	6,440				
WMNT-CD	D36 DC BL	72.3	14,584	28.1	3,273
28.1	3,273				

Interference to DTVBL60556 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL411 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired: DTVBL411	WRGT-TV	D36	DT	BL	DAYTON, OH
Undesireds: DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN
			262.8 km		
DTVBL36117	WHME-TV	D36	DT	BL	SOUTH BEND, IN
	293M		262.8		
DTVBL25067	WPTD	D35	DT	BL	DAYTON, OH
			0.6		
DTVBL69544	WCCU	D36	DT	BL	URBANA, IL
			318.5		
DTVBL70416	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN
			162.6		
DTVBL34171	WKAS	D36	DT	BL	ASHLAND, KY
			198.9		
DTVBL13989	WAVE	D36	DT	BL	LOUISVILLE, KY
			202.9		
	WAQP	D36	DT	BL	SAGINAW, MI

DTVBL67792		389.1			
	WQHS-DT	D36 DT BL			CLEVELAND, OH
DTVBL60556		283.6			
	WMNT-CD	D36 DC BL			TOLEDO, OH
DTVBL51913		223.0			
	WWLM-CD	D36 DC BL			WASHINGTON, PA
DTVBL267		346.6			

	Service area		Terrain-limited		IX-free, before
IX-free, after	Percent	New IX			
24104.9	3,251,805	23853.4	3,217,425	23425.5	3,136,905
23425.5	3,136,905	0.00	0.00		

Undesired			Total IX		Unique IX, before
Unique IX, after					
WHME-TV D36 DT BL		28.0	788	0.0	0
WHME-TV D36 DT BL		28.0	788		
0.0	0				
WPTD D35 DT BL		35.9	23,843	23.9	20,029
23.9	20,029				
WCCU D36 DT BL		4.0	73	0.0	0
0.0	0				
WKAS D36 DT BL		47.9	8,233	19.9	392
19.9	392				
WAVE D36 DT BL		364.0	59,596	211.7	40,391
211.7	40,391				
WQHS-DT D36 DT BL		140.5	8,363	16.1	249
16.1	249				
WMNT-CD D36 DC BL		12.0	388	0.0	0
0.0	0				

Interference to DTVBL51913 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL361 BL, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WACY-TV	D36	DT	BL	APPLETON, WI
DTVBL361					
Undesireds:	WHME-TV	D36	DT	BL	SOUTH BEND, IN
DTVBL36117				340.9 km	
	WHME-TV	D36	DT	BL	SOUTH BEND, IN
DTVBL36117	293M			340.9	
	WQRF-TV	D36	DT	BL	ROCKFORD, IL

DTVBL52408		249.5			
	WAQP	D36 DT BL		SAGINAW, MI	
DTVBL67792		339.4			
	KAAL	D36 DT LIC		AUSTIN, MN	
BLCDT20091110AAF		372.1			
	WMKE-CD	D36 DC BL		MILWAUKEE, WI	
DTVBL35091		140.4			
	WLEF-TV	D36 DT LIC		PARK FALLS, WI	
BLEDT20110323AB0		251.8			

	Service area	Terrain-limited	IX-free, before		
IX-free, after	Percent New IX				
16463.9	920,090	16455.9	919,821	16423.8	918,560
16423.8	918,560	0.00	0.00		

Undesired			Total IX	Unique IX, before	
Unique IX, after					
WHME-TV D36 DT BL		4.0	109	0.0	0
WHME-TV D36 DT BL		4.0	109		
0.0	0				
WQRF-TV D36 DT BL		8.1	324	4.0	215
4.0	215				
WMKE-CD D36 DC BL		16.1	811	16.1	811
16.1	811				
WLEF-TV D36 DT LIC		8.0	126	8.0	126
8.0	126				

Interference to DTVBL35091 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WHME-TV	D36	DT	BL	SOUTH BEND, IN
DTVBL36117	293M				
Undesireds:	WGB0-DT	D35	DT	BL	JOLIET, IL
DTVBL12498					125.9 km
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI
DTVBL167892					132.7
	WQRF-TV	D36	DT	BL	ROCKFORD, IL
DTVBL52408					260.5
	WCCU	D36	DT	BL	URBANA, IL
DTVBL69544					205.1
	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN

DTVBL70416		202.9			
	WAVE	D36 DT BL			LOUISVILLE, KY
DTVBL13989		359.7			
	WAQP	D36 DT BL			SAGINAW, MI
DTVBL67792		250.1			
	WQHS-DT	D36 DT BL			CLEVELAND, OH
DTVBL60556		371.9			
	WRGT-TV	D36 DT BL			DAYTON, OH
DTVBL411		262.8			
	WMNT-CD	D36 DC BL			TOLEDO, OH
DTVBL51913		218.6			
	WACY-TV	D36 DT BL			APPLETON, WI
DTVBL361		340.9			
	WMKE-CD	D36 DC BL			MILWAUKEE, WI
DTVBL35091		219.9			

	Service area		Terrain-limited		IX-free
	Percent IX				
20104.6	1,267,689	20100.6	1,267,608	20036.5	1,264,579
0.32	0.24				

	Undesired		Total IX		Unique IX
	Prcnt Unique IX				
WGB0-DT	D35 DT BL	16.1	1,852	8.1	261
0.04	0.02				
WQRF-TV	D36 DT BL	8.1	1,591	0.0	0
0.00	0.00				
WAQP	D36 DT BL	35.9	887	35.9	887
0.18	0.07				
WRGT-TV	D36 DT BL	12.1	290	12.1	290
0.06	0.02				