



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
MODIFICATION OF CONSTRUCTION PERMIT  
BPCDT-19991028ACK  
WSMH-DT - FLINT, MICHIGAN  
DTV - CH. 16 - 245 kW - 365.4 m HAAT**

Prepared for: WSMH Licensee, 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 Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by WSMH Licensee, LLC, licensee of WSMH(TV), channel 66, Flint, Michigan, and permittee of WSMH-DT, channel 16, to prepare this statement, FCC Form 301, Section III-D, and the associated exhibits in support of an application for modification of construction permit BPCDT-19991028ACK. The current authorization permits WSMH-DT an effective radiated power (ERP) of 895 kW with an antenna height above average terrain of 287 meters. The permittee proposes herein to relocate WSMH-DT to a new, taller tower approximately 1.8 km West of its authorized site. The instant proposal will increase WSMH-DT's antenna centerline HAAT to 365.4 meters and correspondingly reduce its ERP to 245 kW. The permittee also proposes to substitute a new directional antenna, a Dielectric model TFU-24JTT S180, for the currently authorized directional antenna. No other changes are herein proposed.

### **PROPOSED TECHNICAL FACILITIES**

It is herein proposed to locate WSMH-DT's transmission facilities on a new tower support structure located at 43° 13' 31" North latitude, 84° 4' 33" West longitude. The structure is registered in the FCC's tower registration database, registration number 1241302. The licensee has determined that the proposed relocation is necessary because the currently licensed analog TV and DTV allotment site is leased, the tower structure can not support another antenna, and the other facilities can not be altered, or expanded, to accommodate any facility for WSMH-DT.

WSMH Licensee, LLC has obtained a new site which is currently utilized by both WSMH(TV) and WSMH-DT's temporary "checklist" facility. The licensee has implemented its construction permit, BPCT-20040312AAM, which authorized it to construct a new tower and to relocate WSMH(TV) to the new site. The form 302-TV license application, BLCT-20070109AAG, is currently pending. The form 302-DTV license application, BLCDT-20061109AAN, for the temporary DTV "checklist" facility is also currently pending. The relocation of WSMH-DT's full service DTV facilities on the new tower will serve to further the Commission's goals in the deployment of DTV service in the United States since the new support structure has been designed to accommodate multiple broadcast facilities.

### **PROPOSED DIRECTIONAL ANTENNA**

The applicant proposes to install a Dielectric model TFU-24JTT S180 directional antenna on the new tower support structure at the new site. The antenna manufacturer's horizontal plane azimuth radiation pattern is shown in exhibit 2 and tabulated in exhibit 3. The manufacturer's vertical plane radiation pattern, illustrating the antenna's radiation

characteristics above and below the horizontal plane, is shown in exhibits 4A and 4B, and is tabulated in exhibit 3. The new DTV antenna will be top mounted on the new support structure after the existing channel 66 analog antenna will have been removed after the transition date. A Vertical Plan Antenna Sketch showing the various elevations at the proposed site is provided in Exhibit 1.

### **PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.684 of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), 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 National Geophysical Data Center Thirty Second Point Database (TPG-0050) as prescribed in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 6 contains the predicted DTV Noise Limited (41 dBu) contour and the predicted principal community (48 dBu) contour. The 48 dBu contour entirely encompasses the principal community of license, Flint, Michigan.

### **ALLOCATION CONSIDERATIONS**

#### **NTSC Allocation Considerations**

An allocation study was performed, using the Commission's application processing software TV\_Process, **utilizing a 1.0 km cell size**, to ensure that the proposed DTV transmitter site complies with the Commission's *de minimis* interference criteria in Section 73.622(c)(2). The study revealed that the proposed DTV facility causes no impermissible

interference to any pertinent authorized NTSC facility.

**DTV Allocation Considerations - Domestic**

The same study, **still utilizing a 1.0 km cell size**, was evaluated to determine if the proposed location of WSMH-DT at the new site is predicted to cause any level of new prohibited interference to DTV stations, expansion construction permits or DTV allotments. Results indicate that the instant proposal to locate WSMH-DT at the new site is predicted to cause no unacceptable level of new interference, exceeding 0.5%, to the populations served by any DTV station, expansion construction permit or allotment.

**DTV Allocation Considerations - International**

WSMH-DT's permittee, by modification of CP, previously resolved, to the satisfaction of Industry Canada, the issue of predicted interference to the proposed service contour of CHWI-TV, a co-channel analog TV station, licensed to Wheatley, Ontario, Canada. That resolution resulted in the grant of WSMH-DT's current construction permit on April 28, 2008. The instant proposal to increase WSMH-DT's antenna HAAT, and correspondingly reduce its ERP will reduce the predicted potential interfering signal strength toward CHWI-TV's coverage area in Canada. As shown in exhibit 7, the combination of increased HAAT with reduced ERP further suppresses WSMH-DT's signal toward CHWI-TV sufficiently to remain acceptable to Industry Canada

**Class A Television Allocation Considerations**

As required in Section 73.613 of the FCC's Rules, the interference contour overlap analysis which is provided by TV\_Process was considered, based on the proposed WSMH-DT facility, to establish compliance with the protection requirements contained

therein. The study results indicate that no prohibited contour overlap exists with any Class A LPTV stations.

### **BLANKETING AND INTERMODULATION INTERFERENCE**

A number of broadcast and non-broadcast facilities are located within 10 km of the proposed WSMH-DT transmitter/antenna site. The applicant recognizes its responsibility to remedy complaints of interference created by this proposal in accordance with applicable Rules.

### **ENVIRONMENTAL CONSIDERATIONS**

#### **RADIO FREQUENCY IMPACT**

Effective October 15, 1997 the FCC adopted new guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines establish a maximum permissible exposure (MPE) level for occupational or "controlled" situations that apply in cases that affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (DA 04-319, February 6, 2004), provides assistance in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with guideline limits for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. Bulletin No. 65 provides

the technical data required to evaluate compliance with the FCC's policies and guidelines.

The FCC's Maximum Permitted Exposure (MPE) level for "uncontrolled" environments is 0.2 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) when applied to broadcast facilities operating between 30 MHz and 300 MHz, and for broadcast facilities operating between 300 MHz and 1500 MHz, primarily UHF TV stations, is derived from the formula,  $(\text{frequency}/1500)$ . The MPE level for "controlled" environments is 1.0 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) for operations between 30 MHz and 300 MHz, and for broadcast stations operating between 300 MHz and 1500 MHz is derived from the formula,  $(\text{frequency}/300)$ . The predicted emissions of WSMH-DT must be considered, along with the predicted emissions from other proposed stations at the site. For WSMH-DT, which will operate on DTV Channel 16 (482-488 MHz), the MPE is 0.323 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) in an "uncontrolled" environment and 1.615  $\text{mW}/\text{cm}^2$  in a "controlled" environment. The proposed WSMH-DT facility will operate with a maximum ERP of 245 kW using a horizontally polarized transmitting antenna at a centerline height of 371.6 meters above ground level (AGL). Considering a very conservative vertical plane relative field factor of 0.3, the WSMH-DT facility is predicted to produce a power density at two meters above ground level of 0.00538  $\text{mW}/\text{cm}^2$ , which is 1.66% of the FCC guideline value for "uncontrolled" environments, and 0.332% of the FCC guideline value for "controlled" environments (see Appendix A). The total percentage of the ANSI value including all stations at the proposed site is only 3.96% of the limit for "uncontrolled" environments, and 0.792% of the limit for "controlled" environments.

**OCCUPATIONAL SAFETY**

The applicant for WSMH-DT is committed to the protection of station personnel and/or tower contractors working in the vicinity of the proposed WSMH-DT antenna. The applicant is committed to reducing power and/or ceasing operation during times of service or maintenance of the transmission systems, when necessary, to ensure protection to personnel.

**SUMMARY**

It is submitted that the instant application for construction permit for WSMH-DT seeking to re-locate the transmission facilities of WSMH-DT as described herein complies with the Rules, Regulations and Policies of the Federal Communications Commission. This statement, FCC Form 301, Section III-D, 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.

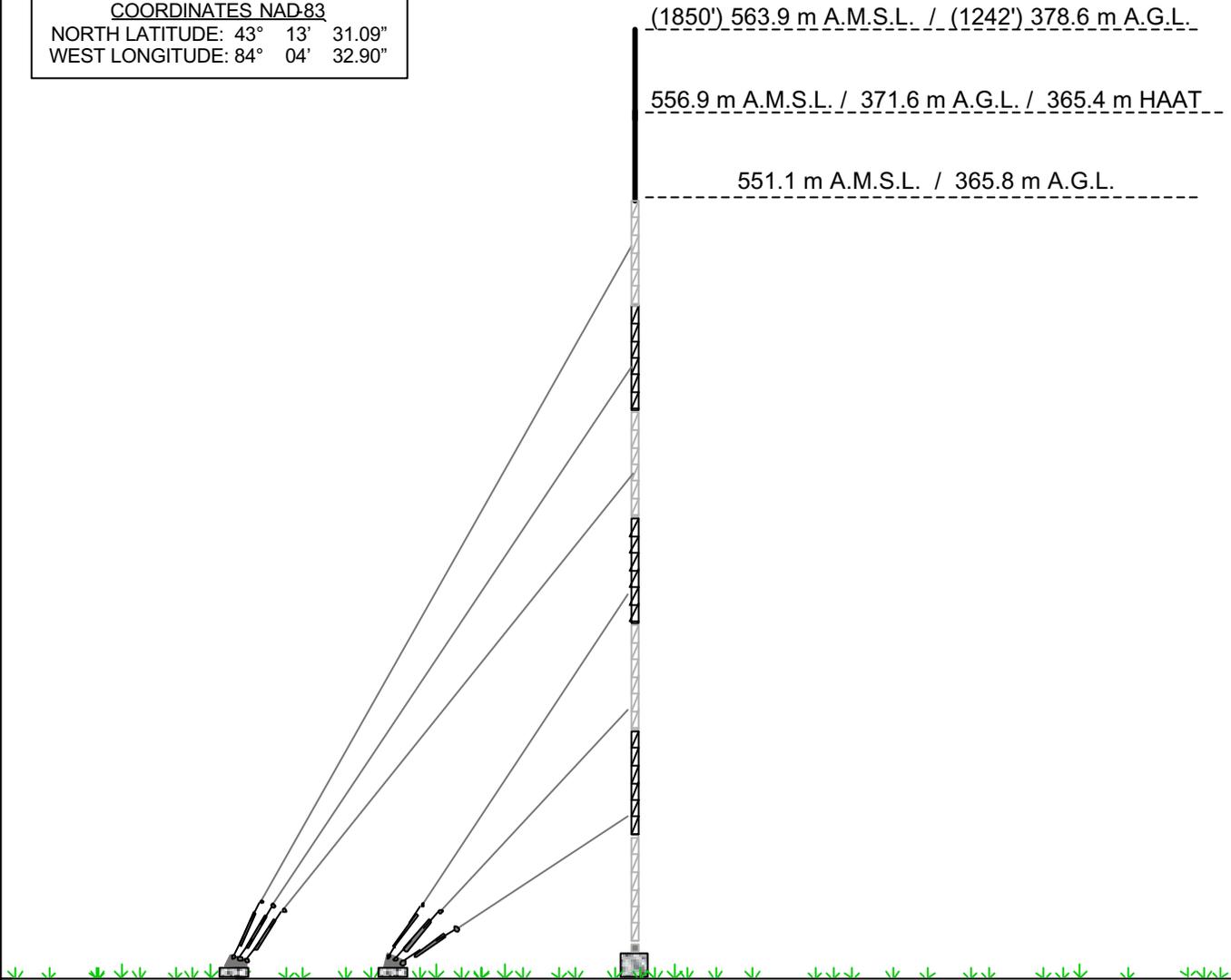
DATED: June 20, 2008

  
John E. Hidle, P.E.



COORDINATES NAD-27  
NORTH LATITUDE: 43° 13' 31"  
WEST LONGITUDE: 84° 04' 33"

COORDINATES NAD-83  
NORTH LATITUDE: 43° 13' 31.09"  
WEST LONGITUDE: 84° 04' 32.90"



GROUND ELEVATION = 608' (185.3 m) A.M.S.L. / AVERAGE TERRAIN = 191.5 m A.M.S.L.

**VERTICAL PLAN ANTENNA SKETCH**  
WSMH-DT - FLINT, MICHIGAN  
Ch. 16 - 245 kW - 365.4 m HAAT  
JUNE, 2008

**CARL T. JONES**  
CORPORATION

NOTE : NOT DRAWN TO SCALE



Exhibit No.  
2

Date **19 Jun 2008**  
Call Letters **WSMH-DT** Channel **16**  
Location **FLINT, MI**  
Customer **WSMH Licensee, LLC**  
Antenna Type **TFU-24JTT S180**

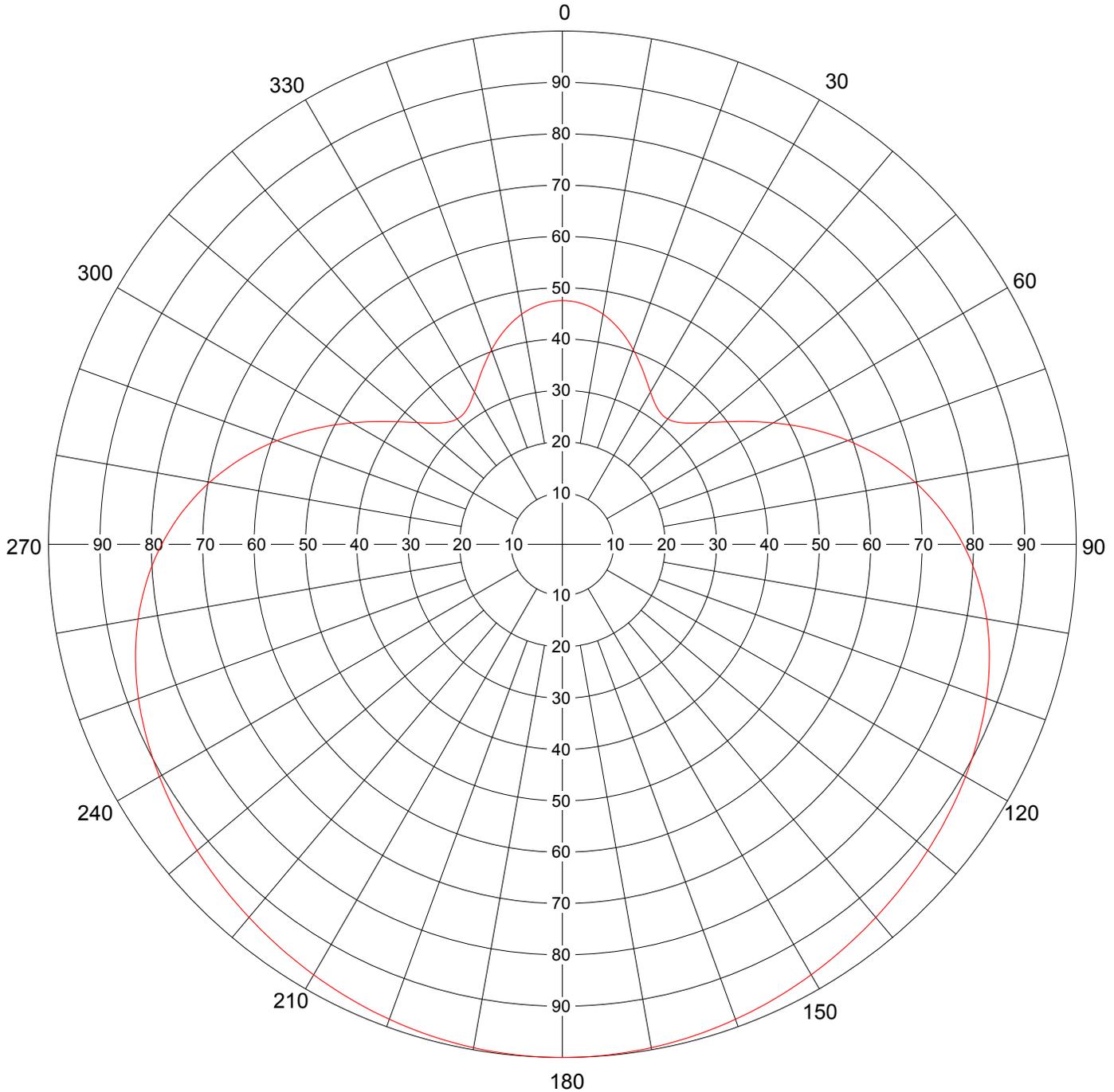
### AZIMUTH PATTERN

Gain  
Calculated / Measured

**1.80 (2.55 dB)**  
**Calculated**

Frequency  
Drawing #

**485 MHz**  
**TFU-S180**



Remarks:



Date **19 Jun 2008**  
 Call Letters **WSMH-DT** Channel **16**  
 Location **FLINT, MI**  
 Customer **WSMH Licensee, LLC**  
 Antenna Type **TFU-24JTT S180**

**TABULATION OF AZIMUTH PATTERN**

Azimuth Pattern Drawing # **TFU-S180**

Angle	Field														
0	0.475	45	0.335	90	0.780	135	0.939	180	1.000	225	0.939	270	0.780	315	0.335
1	0.475	46	0.340	91	0.787	136	0.941	181	1.000	226	0.937	271	0.773	316	0.330
2	0.474	47	0.346	92	0.793	137	0.943	182	1.000	227	0.934	272	0.765	317	0.326
3	0.473	48	0.353	93	0.800	138	0.945	183	1.000	228	0.932	273	0.758	318	0.323
4	0.472	49	0.361	94	0.806	139	0.947	184	0.999	229	0.930	274	0.750	319	0.320
5	0.470	50	0.369	95	0.812	140	0.949	185	0.999	230	0.928	275	0.741	320	0.319
6	0.468	51	0.378	96	0.818	141	0.951	186	0.999	231	0.926	276	0.733	321	0.318
7	0.465	52	0.387	97	0.823	142	0.953	187	0.998	232	0.924	277	0.724	322	0.318
8	0.462	53	0.397	98	0.829	143	0.955	188	0.997	233	0.922	278	0.715	323	0.319
9	0.459	54	0.407	99	0.834	144	0.957	189	0.997	234	0.920	279	0.706	324	0.320
10	0.455	55	0.417	100	0.839	145	0.959	190	0.996	235	0.917	280	0.697	325	0.323
11	0.451	56	0.428	101	0.843	146	0.961	191	0.995	236	0.915	281	0.687	326	0.326
12	0.447	57	0.439	102	0.848	147	0.963	192	0.994	237	0.913	282	0.677	327	0.329
13	0.442	58	0.450	103	0.852	148	0.965	193	0.993	238	0.910	283	0.667	328	0.333
14	0.438	59	0.462	104	0.856	149	0.967	194	0.992	239	0.908	284	0.657	329	0.338
15	0.432	60	0.474	105	0.860	150	0.968	195	0.991	240	0.906	285	0.647	330	0.343
16	0.427	61	0.485	106	0.864	151	0.970	196	0.990	241	0.903	286	0.636	331	0.348
17	0.421	62	0.497	107	0.868	152	0.972	197	0.989	242	0.901	287	0.625	332	0.354
18	0.416	63	0.509	108	0.871	153	0.974	198	0.988	243	0.898	288	0.614	333	0.359
19	0.410	64	0.521	109	0.875	154	0.976	199	0.986	244	0.896	289	0.603	334	0.366
20	0.403	65	0.533	110	0.878	155	0.977	200	0.985	245	0.893	290	0.591	335	0.372
21	0.397	66	0.545	111	0.881	156	0.979	201	0.983	246	0.890	291	0.580	336	0.378
22	0.391	67	0.556	112	0.884	157	0.980	202	0.982	247	0.887	292	0.568	337	0.384
23	0.384	68	0.568	113	0.887	158	0.982	203	0.980	248	0.884	293	0.556	338	0.391
24	0.378	69	0.580	114	0.890	159	0.983	204	0.979	249	0.881	294	0.545	339	0.397
25	0.372	70	0.591	115	0.893	160	0.985	205	0.977	250	0.878	295	0.533	340	0.403
26	0.366	71	0.603	116	0.896	161	0.986	206	0.976	251	0.875	296	0.521	341	0.410
27	0.359	72	0.614	117	0.898	162	0.988	207	0.974	252	0.871	297	0.509	342	0.416
28	0.354	73	0.625	118	0.901	163	0.989	208	0.972	253	0.868	298	0.497	343	0.421
29	0.348	74	0.636	119	0.903	164	0.990	209	0.970	254	0.864	299	0.485	344	0.427
30	0.343	75	0.647	120	0.906	165	0.991	210	0.968	255	0.860	300	0.474	345	0.432
31	0.338	76	0.657	121	0.908	166	0.992	211	0.967	256	0.856	301	0.462	346	0.438
32	0.333	77	0.667	122	0.910	167	0.993	212	0.965	257	0.852	302	0.450	347	0.442
33	0.329	78	0.677	123	0.913	168	0.994	213	0.963	258	0.848	303	0.439	348	0.447
34	0.326	79	0.687	124	0.915	169	0.995	214	0.961	259	0.843	304	0.428	349	0.451
35	0.323	80	0.697	125	0.917	170	0.996	215	0.959	260	0.839	305	0.417	350	0.455
36	0.320	81	0.706	126	0.920	171	0.997	216	0.957	261	0.834	306	0.407	351	0.459
37	0.319	82	0.715	127	0.922	172	0.997	217	0.955	262	0.829	307	0.397	352	0.462
38	0.318	83	0.724	128	0.924	173	0.998	218	0.953	263	0.823	308	0.387	353	0.465
39	0.318	84	0.733	129	0.926	174	0.999	219	0.951	264	0.818	309	0.378	354	0.468
40	0.319	85	0.741	130	0.928	175	0.999	220	0.949	265	0.812	310	0.369	355	0.470
41	0.320	86	0.750	131	0.930	176	0.999	221	0.947	266	0.806	311	0.361	356	0.472
42	0.323	87	0.758	132	0.932	177	1.000	222	0.945	267	0.800	312	0.353	357	0.473
43	0.326	88	0.765	133	0.934	178	1.000	223	0.943	268	0.793	313	0.346	358	0.474
44	0.330	89	0.773	134	0.937	179	1.000	224	0.941	269	0.787	314	0.340	359	0.475

Remarks:

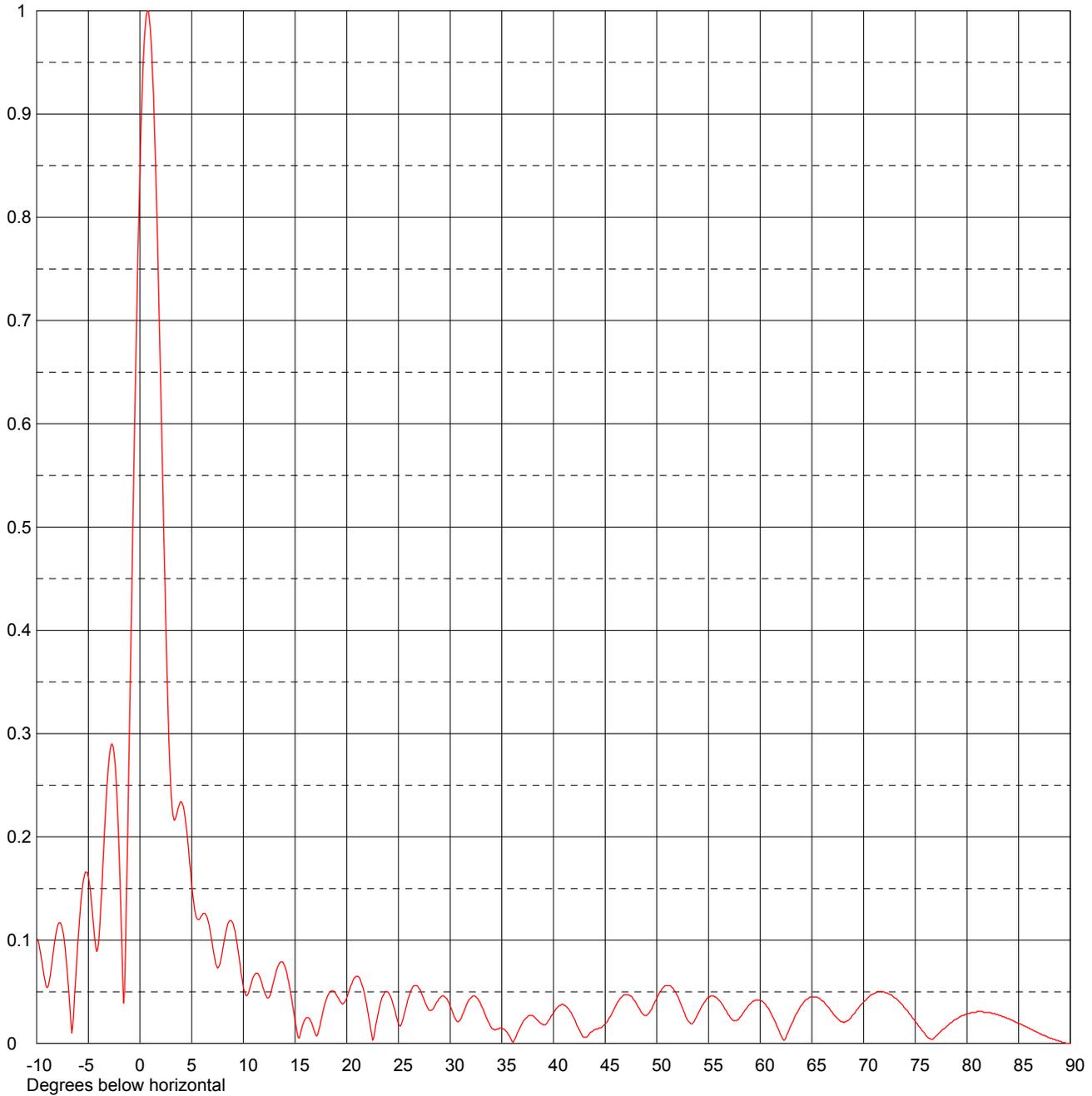


Exhibit No.  
4A

Date **19 Jun 2008**  
Call Letters **WSMH-DT** Channel **16**  
Location **FLINT, MI**  
Customer **WSMH Licensee, LLC**  
Antenna Type **TFU-24JTT S180**

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>24.0 (13.80 dB)</b>	Beam Tilt	<b>0.75 Degrees</b>
RMS Gain at Horizontal	<b>17.4 (12.41 dB)</b>	Frequency	<b>485.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24N240075-90</b>



Remarks:

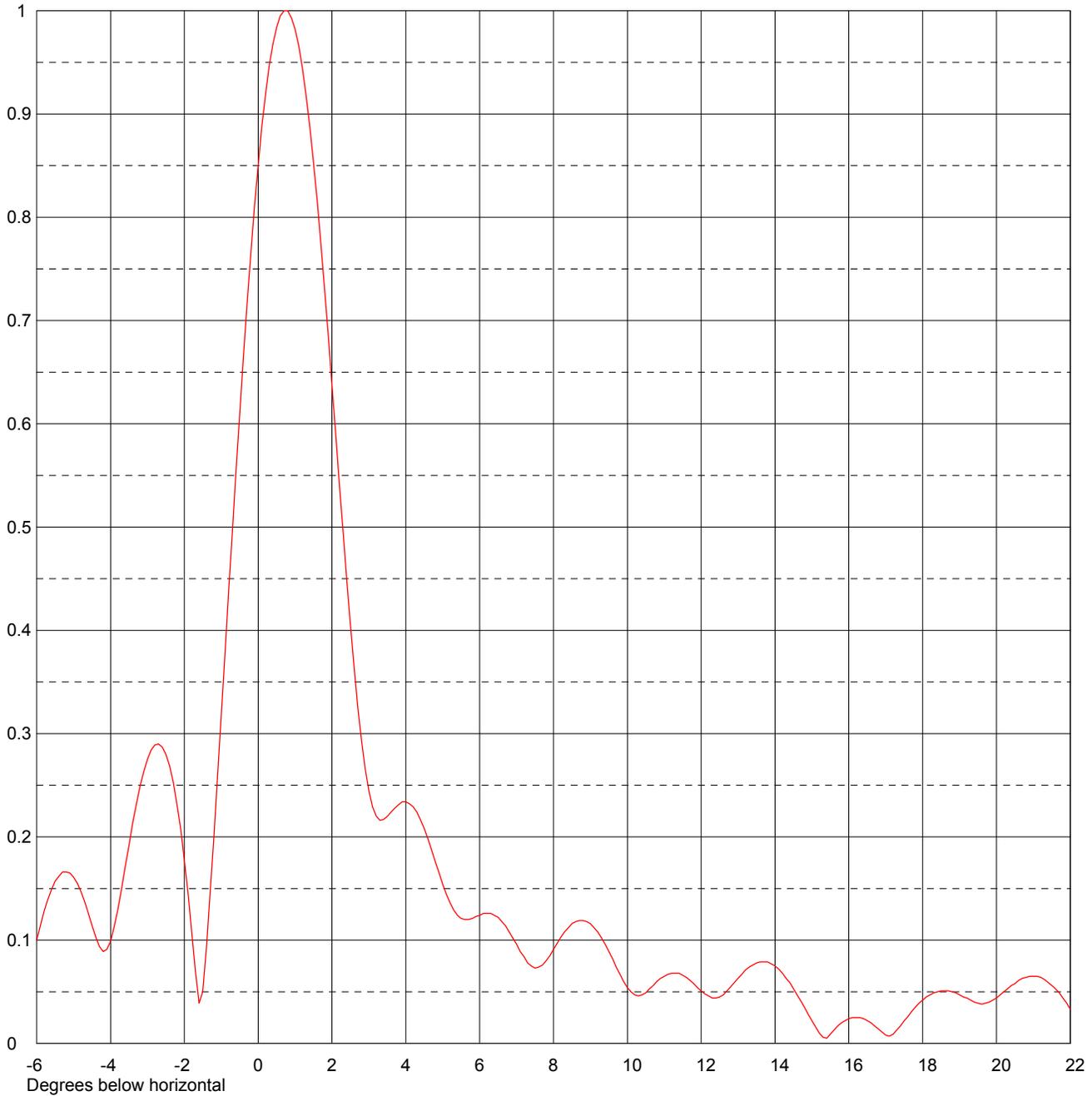


Exhibit No.  
**4B**

Date **19 Jun 2008**  
Call Letters **WSMH-DT** Channel **16**  
Location **FLINT, MI**  
Customer **WSMH Licensee, LLC**  
Antenna Type **TFU-24JTT S180**

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>24.0 (13.80 dB)</b>	Beam Tilt	<b>0.75 Degrees</b>
RMS Gain at Horizontal	<b>17.4 (12.41 dB)</b>	Frequency	<b>485.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24N240075</b>



Remarks:



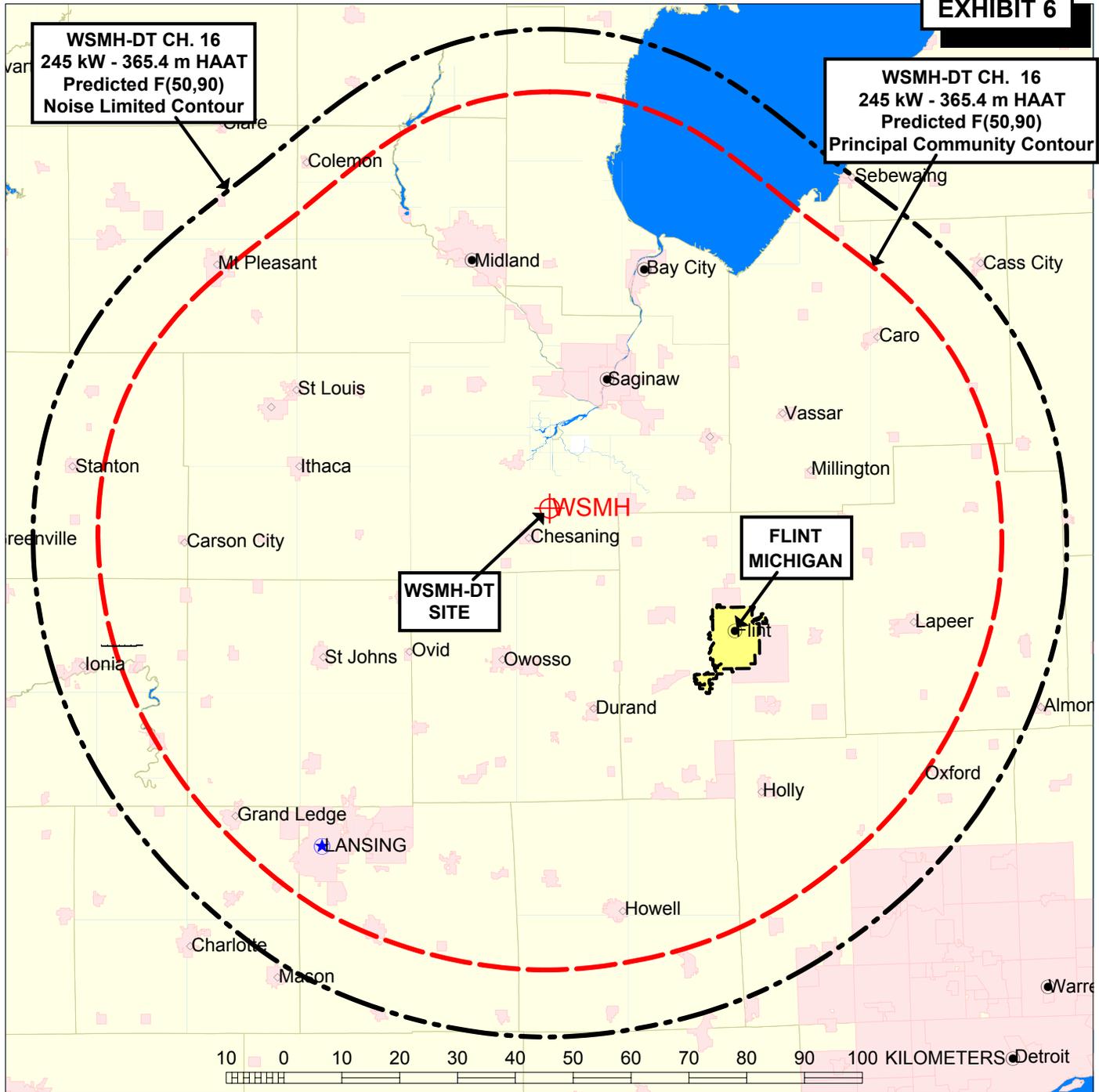
Date **19 Jun 2008**  
 Call Letters **WSMH-DT** Channel **16**  
 Location **FLINT, MI**  
 Customer **WSMH Licensee, LLC**  
 Antenna Type **TFU-24JTT S180**

**TABULATION OF ELEVATION PATTERN**

Elevation Pattern Drawing # **24N240075**

Angle	Field										
-10.0	0.104	2.4	0.449	10.6	0.053	30.5	0.024	51.0	0.056	71.5	0.050
-9.5	0.080	2.6	0.364	10.8	0.060	31.0	0.023	51.5	0.054	72.0	0.050
-9.0	0.054	2.8	0.293	11.0	0.065	31.5	0.035	52.0	0.046	72.5	0.048
-8.5	0.080	3.0	0.244	11.5	0.066	32.0	0.044	52.5	0.034	73.0	0.044
-8.0	0.113	3.2	0.220	12.0	0.051	32.5	0.045	53.0	0.022	73.5	0.040
-7.5	0.110	3.4	0.217	12.5	0.045	33.0	0.037	53.5	0.020	74.0	0.034
-7.0	0.064	3.6	0.224	13.0	0.063	33.5	0.025	54.0	0.029	74.5	0.028
-6.5	0.018	3.8	0.231	13.5	0.078	34.0	0.015	54.5	0.038	75.0	0.021
-6.0	0.100	4.0	0.234	14.0	0.075	34.5	0.014	55.0	0.045	75.5	0.015
-5.5	0.157	4.2	0.229	14.5	0.053	35.0	0.015	55.5	0.046	76.0	0.008
-5.0	0.161	4.4	0.216	15.0	0.022	35.5	0.011	56.0	0.042	76.5	0.004
-4.5	0.114	4.6	0.198	15.5	0.009	36.0	0.002	56.5	0.035	77.0	0.007
-4.0	0.099	4.8	0.176	16.0	0.024	36.5	0.010	57.0	0.027	77.5	0.012
-3.5	0.192	5.0	0.154	16.5	0.022	37.0	0.020	57.5	0.022	78.0	0.016
-3.0	0.275	5.2	0.136	17.0	0.008	37.5	0.026	58.0	0.025	78.5	0.020
-2.8	0.289	5.4	0.124	17.5	0.022	38.0	0.027	58.5	0.032	79.0	0.024
-2.6	0.287	5.6	0.120	18.0	0.042	38.5	0.022	59.0	0.038	79.5	0.027
-2.4	0.269	5.8	0.121	18.5	0.051	39.0	0.018	59.5	0.042	80.0	0.029
-2.2	0.232	6.0	0.124	19.0	0.047	39.5	0.022	60.0	0.042	80.5	0.030
-2.0	0.178	6.2	0.126	19.5	0.039	40.0	0.030	60.5	0.038	81.0	0.031
-1.8	0.108	6.4	0.124	20.0	0.044	40.5	0.036	61.0	0.030	81.5	0.031
-1.6	0.039	6.6	0.118	20.5	0.058	41.0	0.037	61.5	0.020	82.0	0.030
-1.4	0.094	6.8	0.108	21.0	0.065	41.5	0.033	62.0	0.008	82.5	0.029
-1.2	0.201	7.0	0.096	21.5	0.056	42.0	0.024	62.5	0.006	83.0	0.028
-1.0	0.318	7.2	0.084	22.0	0.033	42.5	0.013	63.0	0.018	83.5	0.026
-0.8	0.437	7.4	0.075	22.5	0.003	43.0	0.006	63.5	0.029	84.0	0.024
-0.6	0.554	7.6	0.074	23.0	0.027	43.5	0.010	64.0	0.037	84.5	0.022
-0.4	0.665	7.8	0.080	23.5	0.046	44.0	0.013	64.5	0.043	85.0	0.019
-0.2	0.765	8.0	0.091	24.0	0.050	44.5	0.015	65.0	0.045	85.5	0.017
0.0	0.851	8.2	0.103	24.5	0.037	45.0	0.019	65.5	0.045	86.0	0.015
0.2	0.920	8.4	0.112	25.0	0.019	45.5	0.026	66.0	0.041	86.5	0.012
0.4	0.968	8.6	0.118	25.5	0.026	46.0	0.036	66.5	0.036	87.0	0.010
0.6	0.995	8.8	0.119	26.0	0.045	46.5	0.044	67.0	0.030	87.5	0.008
0.8	1.000	9.0	0.116	26.5	0.056	47.0	0.047	67.5	0.024	88.0	0.005
1.0	0.982	9.2	0.108	27.0	0.053	47.5	0.046	68.0	0.021	88.5	0.004
1.2	0.944	9.4	0.096	27.5	0.042	48.0	0.039	68.5	0.022	89.0	0.002
1.4	0.887	9.6	0.082	28.0	0.032	48.5	0.030	69.0	0.028	89.5	0.001
1.6	0.815	9.8	0.067	28.5	0.036	49.0	0.027	69.5	0.034	90.0	0.000
1.8	0.730	10.0	0.054	29.0	0.044	49.5	0.033	70.0	0.040		
2.0	0.638	10.2	0.047	29.5	0.045	50.0	0.044	70.5	0.045		
2.2	0.542	10.4	0.047	30.0	0.036	50.5	0.053	71.0	0.048		

Remarks:

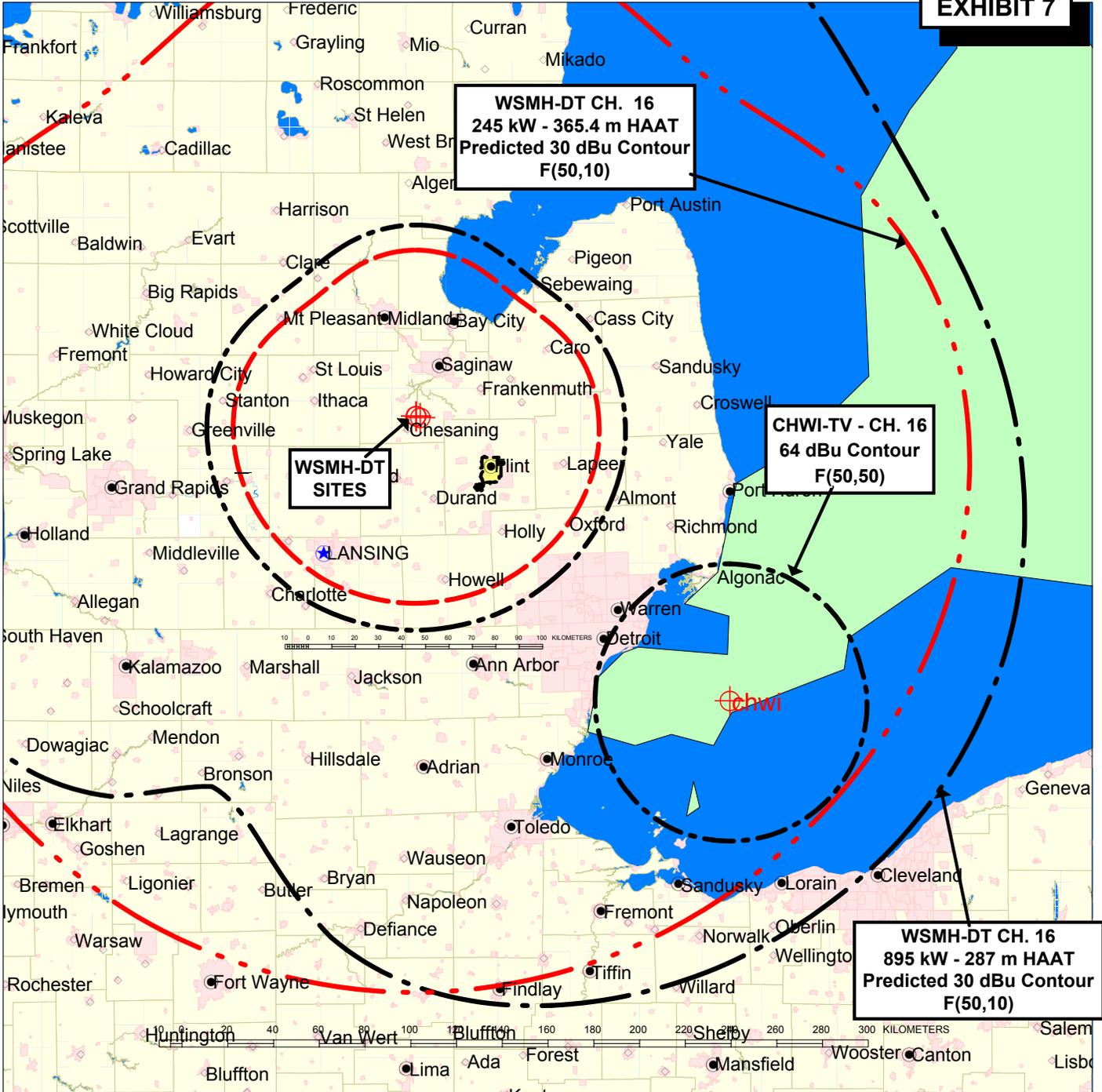


### PREDICTED COVERAGE CONTOURS

WSMH-DT FLINT, MICHIGAN  
CH. 16, 245 kW - 365.4 m HAAT

-----  
 Predicted 41 dBu  
 Noise Limited Contour  
 F(50,90)  
 POPULATION = 2,121,280  
 AREA = 22,945 sq km

-----  
 Predicted 48 dBu  
 Principal Community Contour  
 F(50,90)  
 POPULATION = 1,656,615  
 AREA = 17,435 sq km



**WSMH-DT CH. 16**  
**245 kW - 365.4 m HAAT**  
**Predicted 30 dBu Contour**  
**F(50,10)**

**CHWI-TV - CH. 16**  
**64 dBu Contour**  
**F(50,50)**

**WSMH-DT SITES**

**WSMH-DT CH. 16**  
**895 kW - 287 m HAAT**  
**Predicted 30 dBu Contour**  
**F(50,10)**

**PREDICTED COVERAGE & INTERFERENCE CONTOURS**

**WSMH-DT FLINT, MICHIGAN**  
**CH. 16, 245 kW - 365.4 m HAAT**

**WSMH-DT FLINT, MICHIGAN**  
**CH. 16, 895 kW - 287 m HAAT**

**Predicted 30 dBu**  
**Interference Contour**  
**F(50,10)**

**CHWI-TV - Wheatley, Ontario**  
**Predicted 64 dBu**  
**Coverage Contour**  
**F(50,50)**

**Predicted 30 dBu**  
**Interference Contour**  
**F(50,10)**

**JUNE 2008**

**SUMMARY OF RADIOFREQUENCY  
RADIATION STUDY**  
WSMH-DT, FLINT, MICHIGAN  
CHANNEL 16, 245 kW ERP, 365.4 m HAAT  
JUNE, 2008

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT ** mAGL</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>PREDICTED POWER DENSITY (mW/cm<sup>2</sup>)</u>	<u>FCC UNCONTROLLED LIMIT (mW/cm<sup>2</sup>)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WSMH(TV)	TV	66	785	H	369	1090.000	0.300	0.01204	0.523	2.30%
WSMH-DT	DT	16	485	H	370	245.000	0.300	0.00538	0.323	1.66%
<b>TOTAL PERCENTAGE OF ANSI VALUE=</b>										<b>3.96%</b>

*\*\* The antenna heights indicated above are 2 meters less than the actual antenna heights*

*so that the predicted power densities consider the 2 meter human height allowance.*

*This evaluation includes facilities collocated at the site, and facilities located within 315 meters.*