EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of BALTIMORE (WNUV-TV) LICENSEE, INC., licensee of full-power digital television station WNUV(TV), Channel 25 in Baltimore, Maryland, in support of its Application for Construction Permit to operate with a Distributed Transmission System (DTS) comprised of two single-frequency network (SFN) nodes. This proposal meets the requirements of the new DTS Rules recently adopted by the Commission.

WNUV(TV) DTS-1 NODE (Reference Facility)

It is proposed to utilize the licensed WNUV(TV) facility (LMS-0000136472) as the reference facility for the DTS. It is important to note that, as a result, no "loss area" will be created by this proposal. No change in the authorized WNUV(TV) transmitter site, effective radiated power, antenna azimuth or elevation pattern or antenna radiation center height (above ground, above mean sea level or above average terrain) is proposed herein. It is intended to utilize the licensed Dielectric directional horizontally-polarized antenna, which is currently mounted at the 374.8-meter level of an existing 390.1-meter tower. The effective radiated power for the facility is 750 kW in the horizontal plane.

It should be noted that the licensed WNUV(TV) facility (now proposed DTS-1) does not exceed the power/height limits for a digital UHF television station located in Zone 1, as set forth in Section 73.622(f)(8)(i) of the Commission's Rules.

EXHIBIT A

Below are operating parameters for the WNUV SFN node (DTS-1) on Channel 25:

Site coordinates: 39-20-10.4 N, 76-38-57.9 W (NAD83)
Site elevation: 82.0 meters AMSL
Overall tower height: 390.1 meters AMSL
FCC Antenna Structure Registration Number: 1044237
Antenna height above ground: 374.8 meters
Antenna height above mean sea level: 456.8 meters
Antenna height above average terrain: 372.8 meters
Antenna make/model: Dielectric TUD-C55P-10/36SPH-1-B
FCC Antenna ID Number: 1004139
Antenna orientation: 30 degrees true
Line of symmetry: 246 degrees true
Electrical beam tilt: 0.9 degrees
Polarization: Horizontal
Effective radiated power: 750 kW

Exhibit B is a map upon which the predicted service contours are plotted. As shown, the community of Baltimore, Maryland, is completely encompassed by the proposed 48 dBu city-grade service contour. Azimuth and elevation pattern data for the existing antenna is provided in Exhibit C. A power density calculation appears as Exhibit D.

Since no change in the overall height or location of the existing WNUV(TV) tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission issued Antenna Structure Registration Number 10044237 to this tower.

EXHIBIT A

WNUV(TV) DTS-2 Facility

It is proposed to install a Dielectric directional panel antenna at the 65-meter level of an existing 85.3-meter tower located at 1 Olympic Place in Towson, Maryland. The proposed effective radiated power for the facility is 7.0 kW in the horizontal plane and 3.6 kW in the vertical plane.

It should be noted that the proposed WNUV(TV) DTS-2 facility does not exceed the power/height limits for a digital UHF television station located in Zone 1, as set forth in Section 73.622(f)(8)(i) of the Commission's Rules.

Below are operating parameters for the DTS-2 node operation on Channel 25:

Site coordinates: 39-24-10.4 N, 76-36-10.9 W (NAD83)
Site elevation: 145.4 meters AMSL
Overall structure height: 85.3 meters AMSL
FCC Antenna Structure Registration Number: 1037283
Antenna height above ground: 69.6 meters
Antenna height above mean sea level: 215.0 meters
Antenna height above average terrain: 110.0 meters
Antenna make/model: Dielectric TFU-4WB-C160
FCC Antenna ID Number: TBD
Antenna orientation: 220 degrees
Line of symmetry: 220 degrees true
Electrical beam tilt: 5.5 degrees
Polarization: Elliptical
Effective radiated power: 7.0 kW, horizontal; 3.6 kW, vertical

EXHIBIT A

Exhibit E is a map upon which we have plotted the predicted service contours of the Baltimore DTS-2 node. Azimuth pattern data for the proposed Dielectric antenna are provided in Exhibit F, and detailed power density calculation appears in Exhibit G.

Since no change in the overall height or location of the existing communications tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1037283 to this tower.

PROPOSAL MEETS THE REQUIREMENTS OF THE FCC'S DTS RULES

The proposed WNUV(TV) Channel 25 facility meets all of the requirements of Section 73.626(f) of the Commission's DTS Rules based on the following analysis.

Exhibit H is a map on which we have plotted the noise-limited dipole-adjusted 41 dBu F(50,90) coverage contours of the two SFN nodes in the DTS facility. As shown, each node's contour overlaps the contour of the other facility in the system. In addition, in Exhibits B and E, we plotted the 48 dBu city-grade coverage contours resulting from the DTS nodes. As shown in those exhibits, the community of Baltimore, the WNUV(TV) city of license, lies completely within both of these contours.

The new DTS Rules recently adopted by the Commission state that the 41 dBu F(50,50) contour of a UHF SFN node must be located within an F(50,50)-based arc originating from the DTS reference site. Again looking at Exhibit H, since the DTS-2 node's F(50.90) coverage is completely contained within that of the reference facility, the F(50,50) coverage of

EXHIBIT A

the DTS-2 node must similarly be located completely within that of the reference (DTS-1) facility.

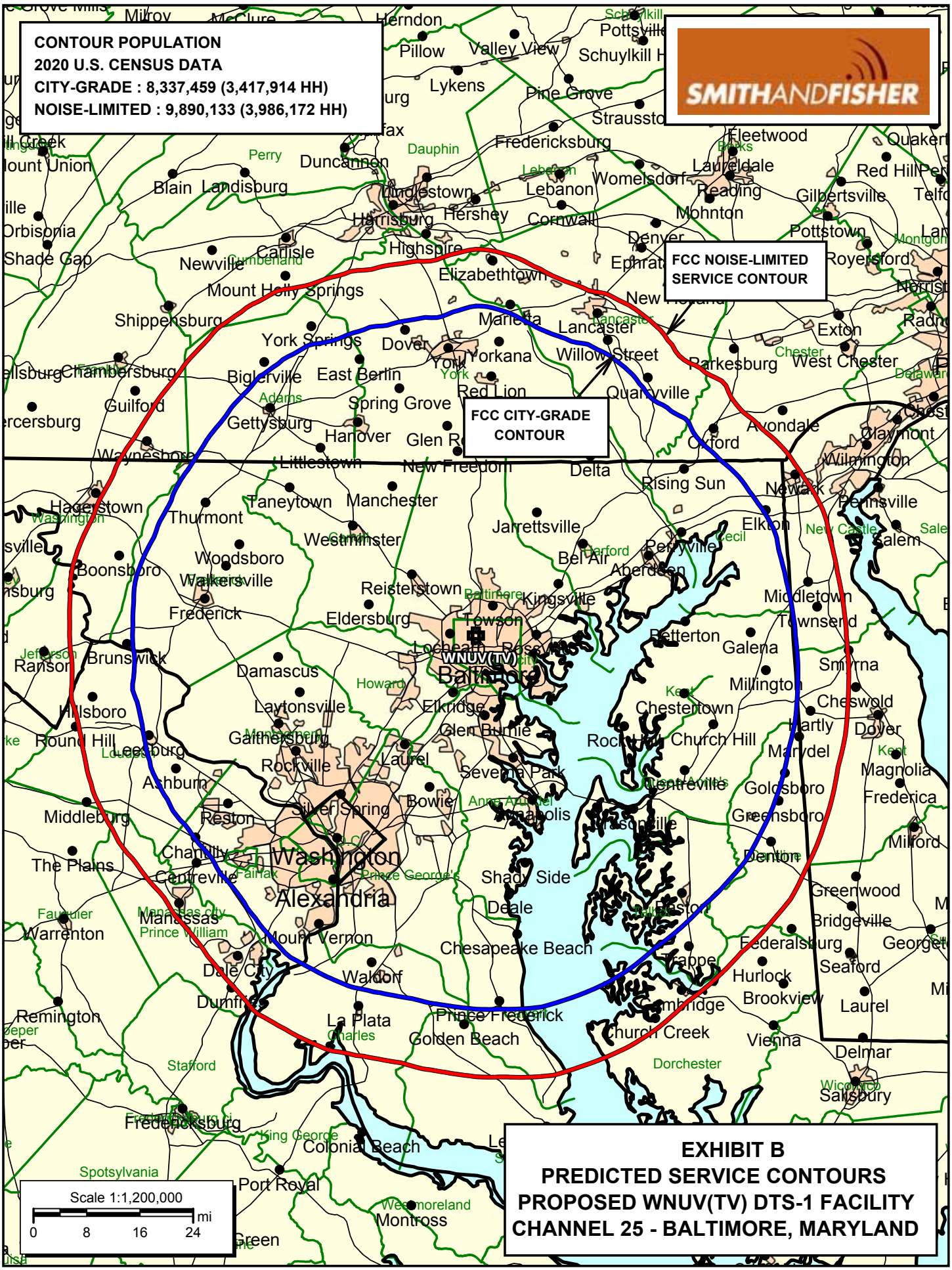
The newly adopted Rules also require that the 26.8 dBu F(50,10) contour of the DTS node be located within the 36 dBu interference F(50,10)-based contour of the reference facility. We provide a map in Exhibit I that shows that the proposed WNUV(TV) DTS-2 node's 26.8 dBu F(50,10) interference contour is completely contained within the 36 dBu F(50,10) contour of the reference (DTS-1) facility.

Finally, in Exhibit J, we provide the summary results from a TVStudy interference study, which was conducted using a cell size of 2.0 kilometer as well as an increment spacing of 1.0 kilometer. It concludes that the proposed WNUV(TV) DTS facility on Channel 25 meets the Commission's de minimis interference criteria to all co-channel and adjacent-channel full-power and Class A facilities.

I declare under penalty of perjury that the foregoing statements and the attached exhibits are true and correct to the best of my knowledge and belief.

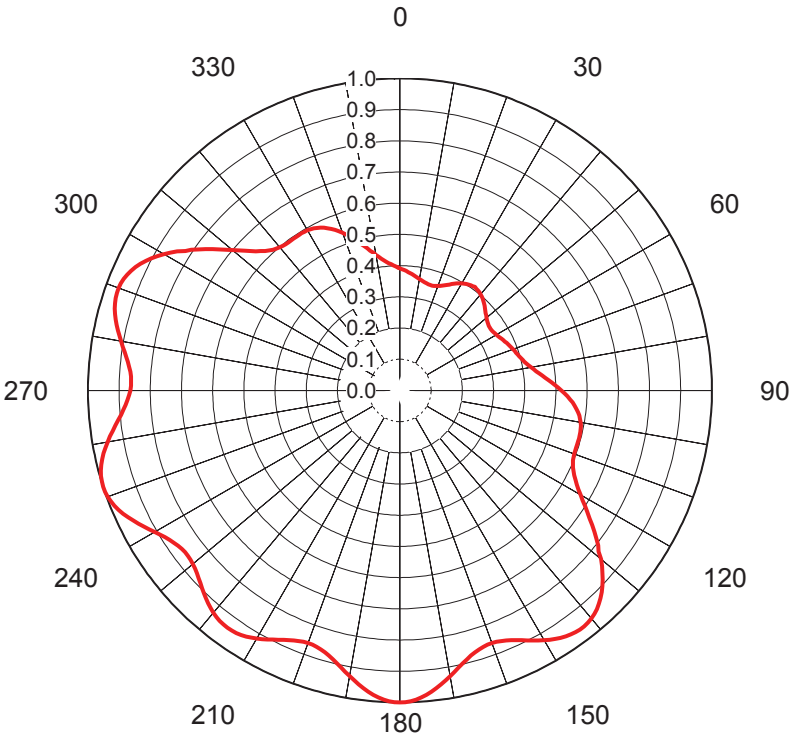
KEVIN T. FISHER

November 7, 2022


CONTOUR POPULATION
2020 U.S. CENSUS DATA
CITY-GRADE : 8,337,459 (3,417,914 HH)
NOISE-LIMITED : 9,890,133 (3,986,172 HH)
SMITHANDFISHER
FCC NOISE-LIMITED SERVICE CONTOUR
FCC CITY-GRADE CONTOUR
WNUV(TV)
Baltimore
Washington
Alexandria
Scale 1:1,200,000
0 8 16 24 mi
EXHIBIT B
PREDICTED SERVICE CONTOURS
PROPOSED WNUV(TV) DTS-1 FACILITY
CHANNEL 25 - BALTIMORE, MARYLAND

Dielectric®

EXHIBIT C



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**C-70043**
Date	**24-Mar-17**
Call Letters	**WNUV**
Channel	**25**
Frequency	**539 MHz**
Antenna Type	**TUD-C5SP-10/36SPH-1-B**
Gain	**1.84 (2.65dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.392	36	0.410	72	0.392	108	0.594	144	0.958	180	1.000	216	0.940	252	1.000	288	0.958	324	0.594
1	0.389	37	0.408	73	0.395	109	0.594	145	0.955	181	0.999	217	0.940	253	0.999	289	0.959	325	0.594
2	0.386	38	0.407	74	0.398	110	0.595	146	0.951	182	0.997	218	0.938	254	0.997	290	0.959	326	0.594
3	0.383	39	0.405	75	0.401	111	0.596	147	0.946	183	0.992	219	0.934	255	0.992	291	0.958	327	0.594
4	0.380	40	0.403	76	0.405	112	0.599	148	0.939	184	0.987	220	0.930	256	0.987	292	0.955	328	0.594
5	0.378	41	0.400	77	0.410	113	0.602	149	0.932	185	0.979	221	0.925	257	0.979	293	0.950	329	0.594
6	0.375	42	0.396	78	0.415	114	0.607	150	0.924	186	0.971	222	0.918	258	0.971	294	0.943	330	0.593
7	0.371	43	0.392	79	0.420	115	0.614	151	0.916	187	0.962	223	0.911	259	0.962	295	0.935	331	0.591
8	0.368	44	0.388	80	0.427	116	0.622	152	0.908	188	0.951	224	0.904	260	0.951	296	0.926	332	0.588
9	0.365	45	0.384	81	0.434	117	0.631	153	0.899	189	0.941	225	0.897	261	0.941	297	0.915	333	0.585
10	0.362	46	0.379	82	0.441	118	0.642	154	0.891	190	0.929	226	0.889	262	0.929	298	0.902	334	0.581
11	0.360	47	0.375	83	0.449	119	0.655	155	0.883	191	0.918	227	0.882	263	0.918	299	0.889	335	0.575
12	0.357	48	0.370	84	0.458	120	0.669	156	0.877	192	0.908	228	0.876	264	0.908	300	0.874	336	0.569
13	0.355	49	0.366	85	0.468	121	0.684	157	0.871	193	0.897	229	0.870	265	0.897	301	0.858	337	0.562
14	0.353	50	0.362	86	0.477	122	0.700	158	0.866	194	0.888	230	0.866	266	0.888	302	0.842	338	0.555
15	0.352	51	0.359	87	0.487	123	0.716	159	0.863	195	0.880	231	0.863	267	0.880	303	0.820	339	0.546
16	0.352	52	0.356	88	0.498	124	0.734	160	0.862	196	0.873	232	0.862	268	0.873	304	0.807	340	0.537
17	0.352	53	0.354	89	0.508	125	0.752	161	0.862	197	0.868	233	0.862	269	0.868	305	0.788	341	0.528
18	0.353	54	0.353	90	0.518	126	0.770	162	0.864	198	0.864	234	0.864	270	0.864	306	0.770	342	0.518
19	0.354	55	0.352	91	0.528	127	0.788	163	0.868	199	0.862	235	0.868	271	0.862	307	0.752	343	0.508
20	0.356	56	0.352	92	0.537	128	0.807	164	0.873	200	0.862	236	0.873	272	0.862	308	0.734	344	0.498
21	0.359	57	0.352	93	0.546	129	0.820	165	0.880	201	0.863	237	0.880	273	0.863	309	0.716	345	0.487
22	0.362	58	0.353	94	0.555	130	0.842	166	0.888	202	0.866	238	0.888	274	0.866	310	0.700	346	0.477
23	0.366	59	0.355	95	0.562	131	0.858	167	0.897	203	0.870	239	0.897	275	0.871	311	0.684	347	0.468
24	0.370	60	0.357	96	0.569	132	0.874	168	0.908	204	0.876	240	0.908	276	0.877	312	0.669	348	0.458
25	0.375	61	0.360	97	0.575	133	0.889	169	0.918	205	0.882	241	0.918	277	0.883	313	0.655	349	0.449
26	0.379	62	0.362	98	0.581	134	0.902	170	0.929	206	0.889	242	0.929	278	0.891	314	0.642	350	0.441
27	0.384	63	0.365	99	0.585	135	0.915	171	0.941	207	0.897	243	0.941	279	0.899	315	0.631	351	0.434
28	0.388	64	0.368	100	0.588	136	0.926	172	0.951	208	0.904	244	0.951	280	0.908	316	0.622	352	0.427
29	0.392	65	0.371	101	0.591	137	0.935	173	0.962	209	0.911	245	0.962	281	0.916	317	0.614	353	0.420
30	0.396	66	0.375	102	0.593	138	0.943	174	0.971	210	0.918	246	0.971	282	0.924	318	0.607	354	0.415
31	0.400	67	0.378	103	0.594	139	0.950	175	0.979	211	0.925	247	0.979	283	0.932	319	0.602	355	0.410
32	0.403	68	0.380	104	0.594	140	0.955	176	0.987	212	0.930	248	0.987	284	0.939	320	0.599	356	0.405
33	0.405	69	0.383	105	0.594	141	0.958	177	0.992	213	0.934	249	0.992	285	0.946	321	0.596	357	0.401
34	0.407	70	0.386	106	0.594	142	0.959	178	0.997	214	0.938	250	0.997	286	0.951	322	0.595	358	0.398
35	0.408	71	0.389	107	0.594	143	0.959	179	0.999	215	0.940	251	0.999	287	0.955	323	0.594	359	0.395

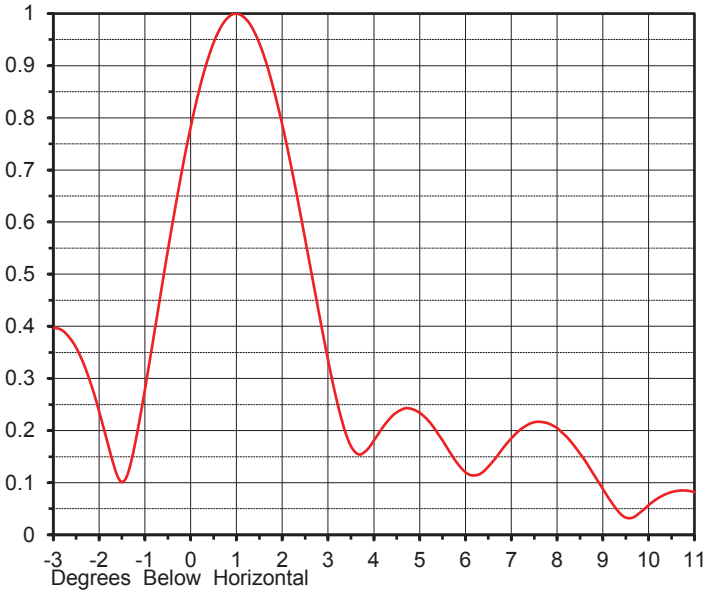
Dielectric®

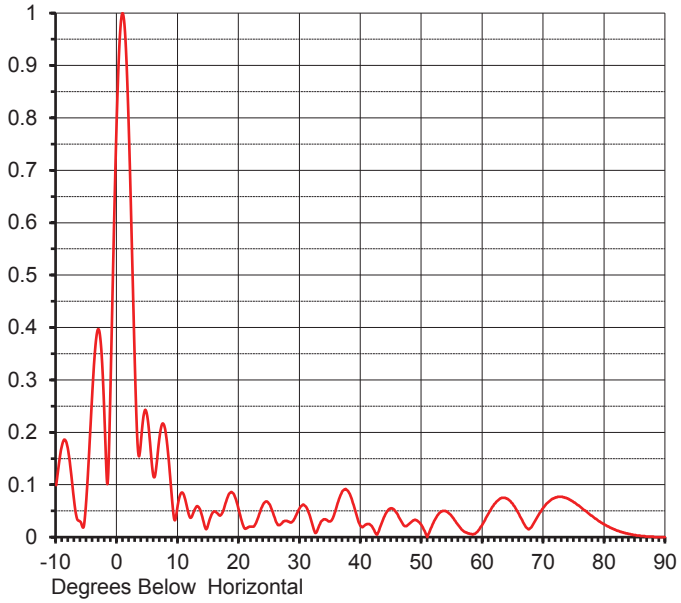
EXHIBIT C

ELEVATION PATTERN

Proposal No.	**C-70043**
Date	**24-Mar-17**
Call Letters	**WNUV**
Channel	**25**
Frequency	**539 MHz**
Antenna Type	**TUD-C5SP-10/36SPH-1-B**

RMS Directivity at Main Lobe	**20.3 (13.07 dB)**	Beam Tilt	**0.90 deg**
RMS Directivity at Horizontal	**13.7 (11.37 dB)**	Pattern Number	**10U203090**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.099	10.0	0.064	30.0	0.056	50.0	0.022	70.0	0.057
-9.0	0.177	11.0	0.079	31.0	0.058	51.0	0.003	71.0	0.069
-8.0	0.163	12.0	0.037	32.0	0.026	52.0	0.030	72.0	0.076
-7.0	0.064	13.0	0.058	33.0	0.017	53.0	0.047	73.0	0.077
-6.0	0.029	14.0	0.038	34.0	0.034	54.0	0.049	74.0	0.073
-5.0	0.081	15.0	0.026	35.0	0.030	55.0	0.039	75.0	0.066
-4.0	0.290	16.0	0.049	36.0	0.057	56.0	0.023	76.0	0.058
-3.0	0.396	17.0	0.042	37.0	0.088	57.0	0.010	77.0	0.049
-2.0	0.205	18.0	0.072	38.0	0.086	58.0	0.006	78.0	0.040
-1.0	0.331	19.0	0.084	39.0	0.054	59.0	0.009	79.0	0.031
0.0	0.822	20.0	0.051	40.0	0.021	60.0	0.025	80.0	0.024
1.0	0.997	21.0	0.016	41.0	0.025	61.0	0.046	81.0	0.018
2.0	0.747	22.0	0.020	42.0	0.017	62.0	0.064	82.0	0.013
3.0	0.293	23.0	0.033	43.0	0.013	63.0	0.074	83.0	0.009
4.0	0.194	24.0	0.063	44.0	0.043	64.0	0.073	84.0	0.006
5.0	0.227	25.0	0.063	45.0	0.055	65.0	0.062	85.0	0.004
6.0	0.115	26.0	0.032	46.0	0.044	66.0	0.043	86.0	0.002
7.0	0.194	27.0	0.026	47.0	0.023	67.0	0.021	87.0	0.001
8.0	0.197	28.0	0.030	48.0	0.026	68.0	0.019	88.0	0.001
9.0	0.074	29.0	0.033	49.0	0.033	69.0	0.039	89.0	0.000
								90.0	0.000

EXHIBIT D

POWER DENSITY CALCULATION

PROPOSED WNUV-DT DTS-1 FACILITY
CHANNEL 25 – BALTIMORE, MARYLAND

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Baltimore DTS-1 facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 750 kW (H-only), an antenna radiation center 374.8 meters above ground, and the specific elevation pattern of licensed Dielectric TUD-C55P-10/36SPH-1-B antenna, maximum power density two meters above ground of 0.00098 mW/cm^2 is calculated to occur 114 meters southeast, south, southwest, west and west-northwest of the base of the tower. Since this value is only 0.3 percent of the 0.36 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 25 (536-542 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.


CONTOUR POPULATION
2020 U.S. CENSUS DATA
CITY-GRADE : 2,575,430 (1,078,711 HH)
NOISE-LIMITED : 3,134,034 (1,295,499 HH)
SMITHANDFISHER
FCC NOISE-LIMITED SERVICE CONTOUR
FCC CITY-GRADE CONTOUR
WNUV(TV) DTS-2
Baltimore
Baltimore city
Washington
Alexandria
Columbia
Hallam
East Prospect
Spry
Red Lion
Quarryville
Adams
New Oxford
Spring Grove
Jacobus
Loganville
Felton
Hanover
Jefferson
Cross Roads
Glen Rock
Shrewsbury
Littlestown
New Freedom
Fawn Grove
Delta
Oxford
Rising Sun
Taneytown
Manchester
Hampstead
Jarrettsville
Port Deposit
North East
Union Bridge
Westminster
Carroll
New Windsor
Bel Air
Harford
Havre de Grace
Aberdeen
Perryman
Cockeysville
Reisterstown
Kingsville
Owings Mills
Perry Hall
Eldersburg
Sykesville
Mount Airy
Randallstown
Parkville
Betterton
Woodlawn
Middle River
Essex
Damascus
Dundalk
Ellicott City
Howard
Columbia
Kent
Chestertown
Laytonsville
Elkridge
Brookeville
Olney
Glen Burnie
Jessup
Severn
Green Haven
Rock Hall
Church Hill
Montgomery
Cloverly
Laurel
Lake Shore
Rockville
Fairland
Odenton
Severna Park
White Oak
Centreville
Queen Anne's
Potomac
Crownsville
Arnold
Greenbelt
Bowie
Crofton
Queenstown
Silver Spring
Anne Arundel
Annapolis
Somerset
Chillum
Woodlawn
Riva
Grasonville
McLean
Kentland
Mitchellville
Highland Beach
Queen
Largo
Mayo
District Heights
Annandale
Hillcrest Heights
Prince George's
Upper Marlboro
Alexandria
Scale 1:600,000
0
6
12
18
mi
EXHIBIT E
PREDICTED SERVICE CONTOURS
PROPOSED WNUV(TV) DTS-2 FACILITY
CHANNEL 25 - BALTIMORE, MARYLAND

EXHIBIT F

AZIMUTH PATTERN

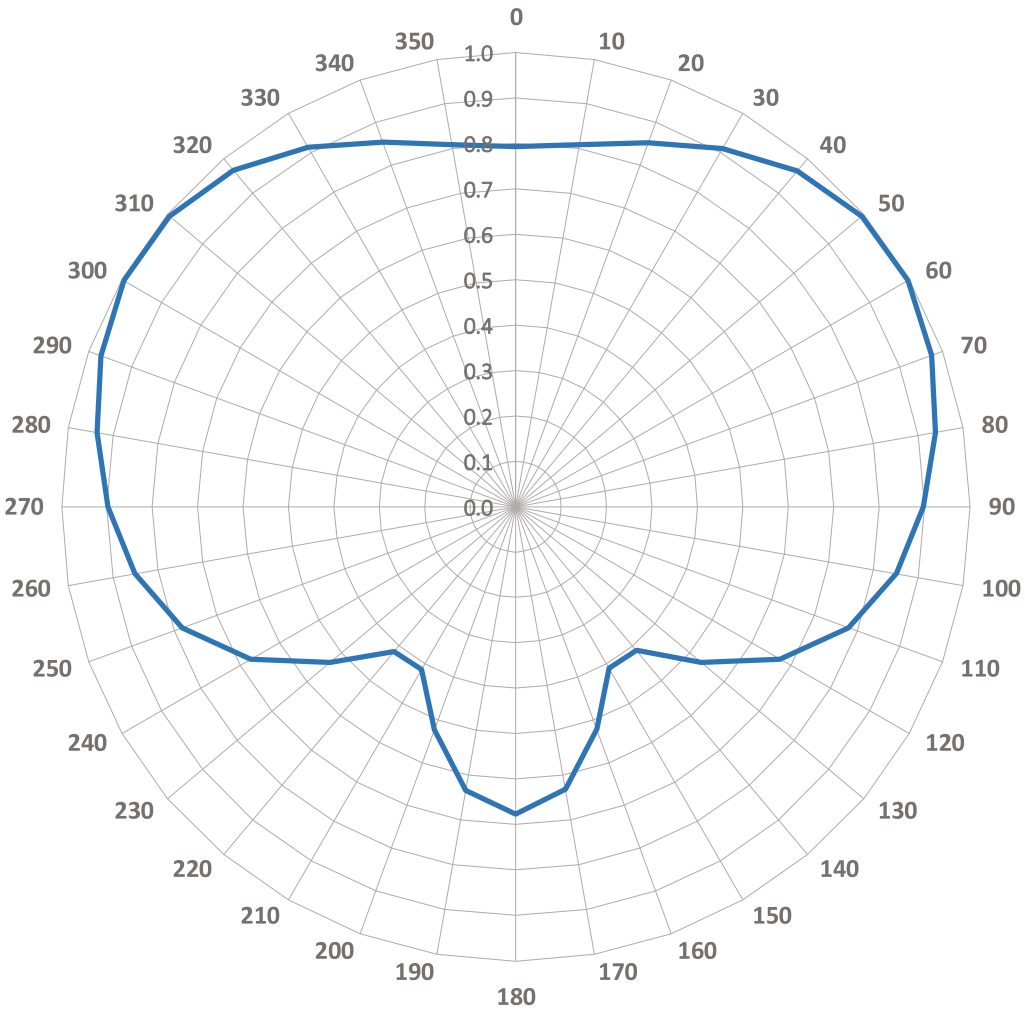
Facility ID : TX02-MileOne

Azimuth Pattern: WB-C160H

Azimuth Gain: 1.58 (1.99 dB)

Channel (Freq): 25 (536 - 542 MHz)

Polarization: Horizontal



Pre-rotation pattern shown.

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.792	-2.025	90	0.898	-0.934	180	0.677	-3.388	270	0.898	-0.934
10	0.809	-1.841	100	0.851	-1.401	190	0.634	-3.958	280	0.937	-0.565
20	0.853	-1.381	110	0.780	-2.158	200	0.523	-5.630	290	0.972	-0.247
30	0.911	-0.810	120	0.672	-3.453	210	0.414	-7.660	300	0.996	-0.035
40	0.964	-0.318	130	0.533	-5.465	220	0.416	-7.618	310	0.995	-0.044
50	0.995	-0.044	140	0.413	-7.681	230	0.534	-5.449	320	0.966	-0.300
60	0.997	-0.026	150	0.411	-7.723	240	0.673	-3.440	330	0.913	-0.791
70	0.974	-0.229	160	0.521	-5.663	250	0.781	-2.147	340	0.854	-1.371
80	0.938	-0.556	170	0.632	-3.986	260	0.851	-1.401	350	0.809	-1.841

Additional Points:

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB

ELEVATION PATTERN

Facility ID :	TX02-MileOne			
TYPE :	04U03550			
Directivity:	Numeric	dBd	Frequency:	536 MHz (Digital)
Main Lobe:	3.50	5.44	Location:	Towson, MD
Horizontal:	2.06	3.14	Beam Tilt (°):	5.45
			Polarization:	H/V

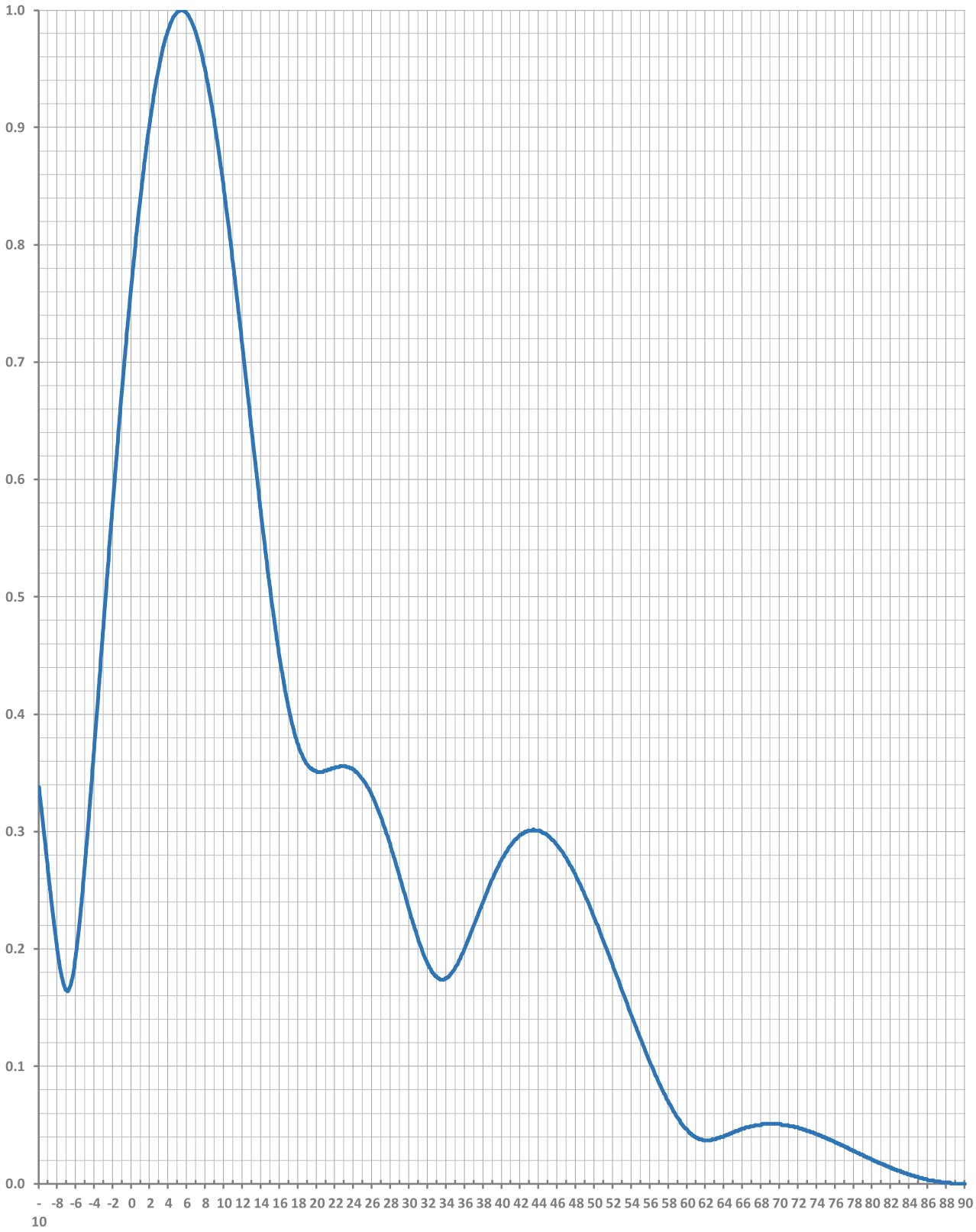


EXHIBIT G

POWER DENSITY CALCULATION

PROPOSED WNUV(TV) DTS-2 FACILITY
CHANNEL 25 – BALTIMORE, MARYLAND

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Baltimore DTS-2 facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 7.0 kW horizontal and 3.6 kW vertical, an antenna radiation center 69.6 meters above ground, and the specific elevation pattern of proposed Dielectric TFU-4WB-C160 antenna, maximum power density two meters above ground of 0.0035 mW/cm^2 is calculated to occur 67 meters south-southeast, south, southwest, west and west-northwest of the base of the tower. Since this value is only 1.0 percent of the 0.36 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 25 (536-542 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.


SMITH AND FISHER, LLC
REFERENCE (DTS-1) WNUV(TV) N/L F(50,90) CONTOUR
PROPOSED WNUV(TV) DTS-2 N/L F(50,90) CONTOUR
Proposed DTS-2 Site
WNUV(TV) DTS-1 Site
Lebanon
Reading
Harrisburg
Hershey
Pottstown
Carlisle
Ephrata
Elizabethtown
Lancaster
Chambersburg
West Chester
Hanover
Wilmington
Newark
Hagerstown
Westminster
Aberdeen
Reisterstown
Towson
Frederick
Lochearn
Baltimore
Elkridge
Glen Burnie
Dover
Gaithersburg
Leesburg
Rockville
Laurel
Severna Park
Bowie
Annapolis
Silver Spring
Reston
Chantilly
Centreville
Washington
Alexandria
Manassas
Mount Vernon
Dale City
Waldorf
Easton
Cambridge
Salisbury
Fredericksburg
Scale 1:1,200,000
mi
0
10
20
30
EXHIBIT H
CONTOUR COMPARISON
LICENSED WNUV(TV) (DTS-1) AND
PROPOSED WNUV(TV) DTS-2
CH. 25 - BALTIMORE, MARYLAND

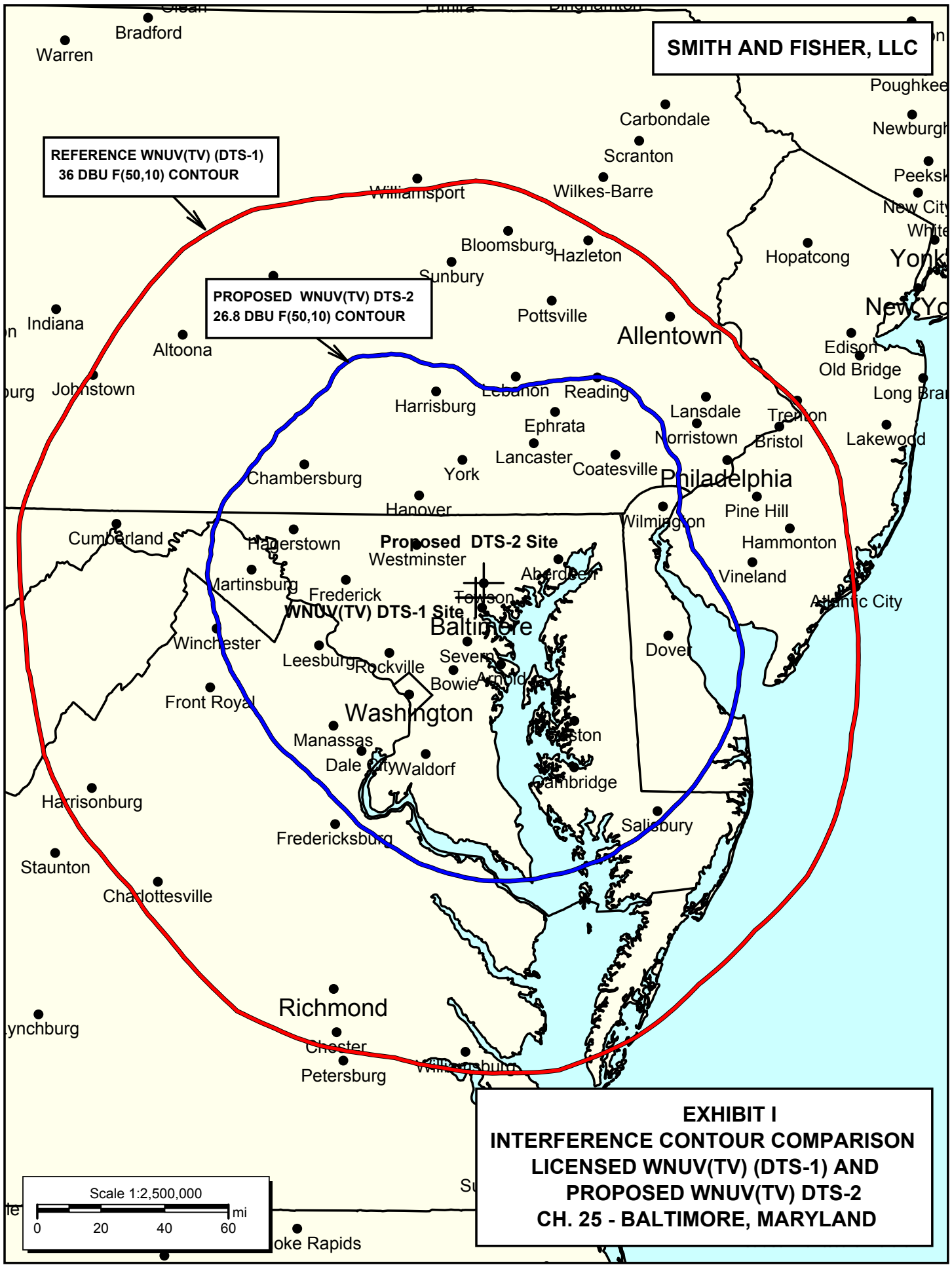

SMITH AND FISHER, LLC
REFERENCE WNUV(TV) (DTS-1)
36 DBU F(50,10) CONTOUR
PROPOSED WNUV(TV) DTS-2
26.8 DBU F(50,10) CONTOUR
Proposed DTS-2 Site
WNUV(TV) DTS-1 Site
Bradford
Warren
Carbondale
Scranton
Wilkes-Barre
Williamsport
Bloomsburg
Hazleton
Sunbury
Pottsville
Allentown
Hopatcong
Poughkeepsie
Newburgh
Peekskill
New City
Indiana
Altoona
Johnstown
Harrisburg
Lebanon
Reading
Lansdale
Norristown
Trenton
Bristol
Lakewood
Edison
Old Bridge
Long Branch
Ephrata
Lancaster
Coatesville
Philadelphia
Pine Hill
Hammonton
Vineland
Atlantic City
Wilmington
Dover
Chambersburg
York
Hanover
Cumberland
Hagerstown
Westminster
Aberdeen
Martinsburg
Frederick
Towson
Baltimore
Winchester
Leesburg
Rockville
Severn
Bowie
Arnold
Front Royal
Washington
Manassas
Dale City
Waldorf
Cambridge
Salisbury
Harrisonburg
Fredericksburg
Staunton
Charlottesville
Richmond
Chester
Petersburg
Scale 1:2,500,000
0 20 40 60 mi
EXHIBIT I
INTERFERENCE CONTOUR COMPARISON
LICENSED WNUV(TV) (DTS-1) AND
PROPOSED WNUV(TV) DTS-2
CH. 25 - BALTIMORE, MARYLAND

EXHIBIT J

TVSTUDY INTERFERENCE ANALYSIS RESULTS
PROPOSED WNUV(TV) DTS
CHANNEL 25 – BALTIMORE, MARYLAND

Study created: 2022.11.07 16:19:59

Study build station data: LMS TV 2022-11-06
Proposal: WNUV D25 DD LIC BALTIMORE, MD
File number: BLANK0000136472
Facility ID: 7933
Station data: User record
Record ID: 29
Country: U.S.
Zone: I
Ref. lat.: 39 20 10.40 N
Ref. long.: 76 38 57.90 W
DTS sites: 2

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WMDO-CD	D24	DC	LIC	WASHINGTON, DC	BLANK0000167891	57.7 km
Yes	WDPB	D24	DT	LIC	SEAFORD, DE	BLANK0000080899	117.4
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLANK0000143561	276.1
No	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	205.0
No	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	144.1
No	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000186907	219.0
Yes	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000138193	57.7
No	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	428.8
Yes	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	271.6
Yes	WSKA	D25	DT	LIC	CORNING, NY	BLANK0000080258	313.9
No	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	427.4
No	WTVU-CD	D25	DC	LIC	SYRACUSE, NY	BLANK0000107995	415.7
Yes	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	314.7
No	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	465.6
No	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	0.0
No	WGPT	D26	DT	LIC	OAKLAND, MD	BLANK0000080370	227.2
No	WQAV-CD	D26	DC	LIC	GLASSBORO, NJ	BLANK0000201734	143.9
No	WFUT-DT	D26	DT	LIC	NEWARK, NJ	BLANK0000177210	275.7
No	WHTJ	D26	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000112378	219.0

No non-directional AM stations found within 0.8 km
No directional AM stations found within 3.2 km

Record parameters as studied, DTS site # 1:

Channel: D25
Latitude: 39 24 10.40 N (NAD83)
Longitude: 76 36 10.90 W
Height AMSL: 215.0 m
HAAT: 110.0 m
Peak ERP: 7.00 kW
Antenna: DIE TFU-4WB-C160 0.0 deg
Elev Pattrn: Generic
Elec Tilt: 5.50

39.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.19 kW	88.3 m	41.4 km
45.0	3.01	97.7	47.2
90.0	2.00	126.5	47.8
135.0	5.89	165.3	55.7
180.0	6.53	165.8	56.2
225.0	4.49	99.6	49.4
270.0	6.93	83.4	49.3
315.0	5.35	52.2	42.5

Record parameters as studied, DTS site # 2:

Channel: D25
Latitude: 39 20 10.40 N (NAD83)
Longitude: 76 38 57.90 W
Height AMSL: 456.8 m
HAAT: 372.8 m
Peak ERP: 750 kW
Antenna: DIE-TUD-C5SP-10/36SPH-1-B (ID 1008185) 30.0 deg
Elev Pattrn: Generic
Elec Tilt: 0.90

39.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	264 kW	355.0 m	93.2 km
45.0	93.8	357.5	85.6
90.0	95.6	412.6	89.6
135.0	258	446.3	99.5
180.0	640	425.0	106.6
225.0	601	344.1	99.1
270.0	618	328.2	97.9
315.0	654	306.0	96.1

Database HAAT does not agree with computed HAAT
Database HAAT: 373 m Computed HAAT: 372 m

DTS proposal coverage is within reference facility and distance limit

Distance to Canadian border: 427.9 km

Distance to Mexican border: 2399.5 km

**Proposal is within coordination distance of FCC monitoring station
**Proposal exceeds field strength limit at FCC monitoring station
Conditions at FCC monitoring station: Laurel MD
DTS site # 2 Bearing: 217.9 degrees Distance: 24.1 km
ERP: 668 kW HAAT: 358.0 m Field strength: 94.1 dBu, 50.6 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
DTS site # 1 Bearing: 281.2 degrees Distance: 2435.8 km
DTS site # 2 Bearing: 281.3 degrees Distance: 2433.3 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%

No IX check failures found.