Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Transition to Reassignment Channel

Television Station: WVFX(DT) Facility ID 10976 Clarksburg, WV

Pre-Auction Channel:	10
Reassignment Channel:	13
Transition Phase Assignment:	Phase 10
Phase Testing Period Start Date:	05/02/2020
Phase Completion Date:	07/03/2020
Extension Granted To:	09/08/2020
Construction Permit LMS file#:	0000034189

STA purpose: To commence initial operation on reassignment Ch. 13 with an interim antenna, pending implementation of the final WVFX post-auction facility.

STA Channel: 13

STA Site Location: WVFX authorized Ch. 13 site
Antenna Structure Registration # 1034466

STA Antenna System: Side-mount directional (Figure 1)

STA Power and Height: 25.3 kW effective radiated power
4.5 kW transmitter power output (post-filter)
112.5 meters height above ground level
527.0 meters height above mean sea level
167.7 meters height above average terrain

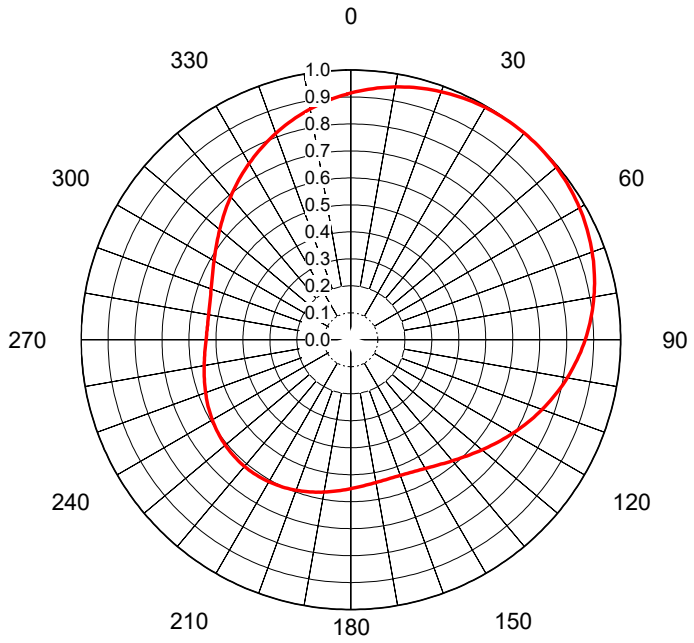
STA Facility Coverage: Does not extend beyond authorized, provides required principal community coverage (Figure 2)

RF Exposure: The calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 1.1 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 20 percent relative field at downward angles (from antenna elevation pattern data). This is below the

five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

Chesapeake RF Consultants, LLC
Joseph M. Davis, P.E. July 30, 2020
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

Dielectric®



AZIMUTH PATTERN
Horizontal Polarization

Proposal No.	**20200730 JMD**
Date	**30-Jul-20**
Call Letters	**WVFX**
Channel	**13**
Frequency	**213 MHz**
Antenna Type	**TLS-V4B**
Gain	**1.83 (2.63dB)** Calculated
Pattern Number	**TLS-B-13 Hpol**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.915	36	0.999	72	0.945	108	0.767	144	0.570	180	0.552	216	0.612	252	0.569	288	0.546	324	0.718
1	0.919	37	0.999	73	0.942	109	0.761	145	0.566	181	0.554	217	0.612	253	0.566	289	0.549	325	0.724
2	0.923	38	1.000	74	0.938	110	0.755	146	0.563	182	0.556	218	0.613	254	0.564	290	0.551	326	0.730
3	0.927	39	1.000	75	0.935	111	0.748	147	0.560	183	0.558	219	0.613	255	0.562	291	0.554	327	0.736
4	0.931	40	1.000	76	0.931	112	0.742	148	0.556	184	0.560	220	0.613	256	0.560	292	0.556	328	0.742
5	0.935	41	1.000	77	0.927	113	0.736	149	0.554	185	0.562	221	0.613	257	0.558	293	0.560	329	0.748
6	0.938	42	1.000	78	0.923	114	0.730	150	0.551	186	0.564	222	0.613	258	0.556	294	0.563	330	0.755
7	0.942	43	0.999	79	0.919	115	0.724	151	0.549	187	0.566	223	0.612	259	0.554	295	0.566	331	0.761
8	0.945	44	0.999	80	0.915	116	0.718	152	0.546	188	0.569	224	0.612	260	0.552	296	0.570	332	0.767
9	0.948	45	0.999	81	0.911	117	0.711	153	0.544	189	0.571	225	0.611	261	0.550	297	0.573	333	0.773
10	0.952	46	0.998	82	0.906	118	0.705	154	0.542	190	0.573	226	0.611	262	0.548	298	0.577	334	0.779
11	0.955	47	0.997	83	0.902	119	0.699	155	0.541	191	0.575	227	0.610	263	0.546	299	0.581	335	0.785
12	0.958	48	0.997	84	0.897	120	0.693	156	0.539	192	0.577	228	0.609	264	0.545	300	0.585	336	0.791
13	0.961	49	0.996	85	0.893	121	0.687	157	0.538	193	0.579	229	0.609	265	0.543	301	0.590	337	0.797
14	0.964	50	0.995	86	0.888	122	0.681	158	0.537	194	0.582	230	0.608	266	0.542	302	0.594	338	0.803
15	0.966	51	0.993	87	0.883	123	0.675	159	0.536	195	0.584	231	0.607	267	0.540	303	0.599	339	0.808
16	0.969	52	0.992	88	0.878	124	0.669	160	0.535	196	0.586	232	0.605	268	0.539	304	0.604	340	0.814
17	0.972	53	0.991	89	0.873	125	0.663	161	0.535	197	0.588	233	0.604	269	0.538	305	0.609	341	0.820
18	0.974	54	0.989	90	0.869	126	0.657	162	0.534	198	0.590	234	0.603	270	0.537	306	0.614	342	0.826
19	0.976	55	0.988	91	0.863	127	0.652	163	0.534	199	0.591	235	0.601	271	0.536	307	0.619	343	0.831
20	0.978	56	0.986	92	0.858	128	0.646	164	0.534	200	0.593	236	0.600	272	0.535	308	0.624	344	0.837
21	0.981	57	0.984	93	0.853	129	0.640	165	0.534	201	0.595	237	0.598	273	0.535	309	0.629	345	0.842
22	0.983	58	0.983	94	0.848	130	0.635	166	0.534	202	0.597	238	0.597	274	0.534	310	0.635	346	0.848
23	0.984	59	0.981	95	0.842	131	0.629	167	0.535	203	0.598	239	0.595	275	0.534	311	0.640	347	0.853
24	0.986	60	0.978	96	0.837	132	0.624	168	0.535	204	0.600	240	0.593	276	0.534	312	0.646	348	0.858
25	0.988	61	0.976	97	0.831	133	0.619	169	0.536	205	0.601	241	0.591	277	0.534	313	0.652	349	0.863
26	0.989	62	0.974	98	0.826	134	0.614	170	0.537	206	0.603	242	0.590	278	0.534	314	0.657	350	0.869
27	0.991	63	0.972	99	0.820	135	0.609	171	0.538	207	0.604	243	0.588	279	0.535	315	0.663	351	0.873
28	0.992	64	0.969	100	0.814	136	0.604	172	0.539	208	0.605	244	0.586	280	0.535	316	0.669	352	0.878
29	0.993	65	0.966	101	0.808	137	0.599	173	0.540	209	0.607	245	0.584	281	0.536	317	0.675	353	0.883
30	0.995	66	0.964	102	0.803	138	0.594	174	0.542	210	0.608	246	0.582	282	0.537	318	0.681	354	0.888
31	0.996	67	0.961	103	0.797	139	0.590	175	0.543	211	0.609	247	0.579	283	0.538	319	0.687	355	0.893
32	0.997	68	0.958	104	0.791	140	0.585	176	0.545	212	0.609	248	0.577	284	0.539	320	0.693	356	0.897
33	0.997	69	0.955	105	0.785	141	0.581	177	0.546	213	0.610	249	0.575	285	0.541	321	0.699	357	0.902
34	0.998	70	0.952	106	0.779	142	0.577	178	0.548	214	0.611	250	0.573	286	0.542	322	0.705	358	0.906
35	0.999	71	0.948	107	0.773	143	0.573	179	0.550	215	0.611	251	0.571	287	0.544	323	0.711	359	0.911

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Figure 1
Interim Antenna Azimuthal Pattern
WVFX(DT) Clarksburg, WV
Facility ID 10976
Ch. 13 25.3 kW 168 m

prepared for
Gray Television Licensee, LLC

July, 2020

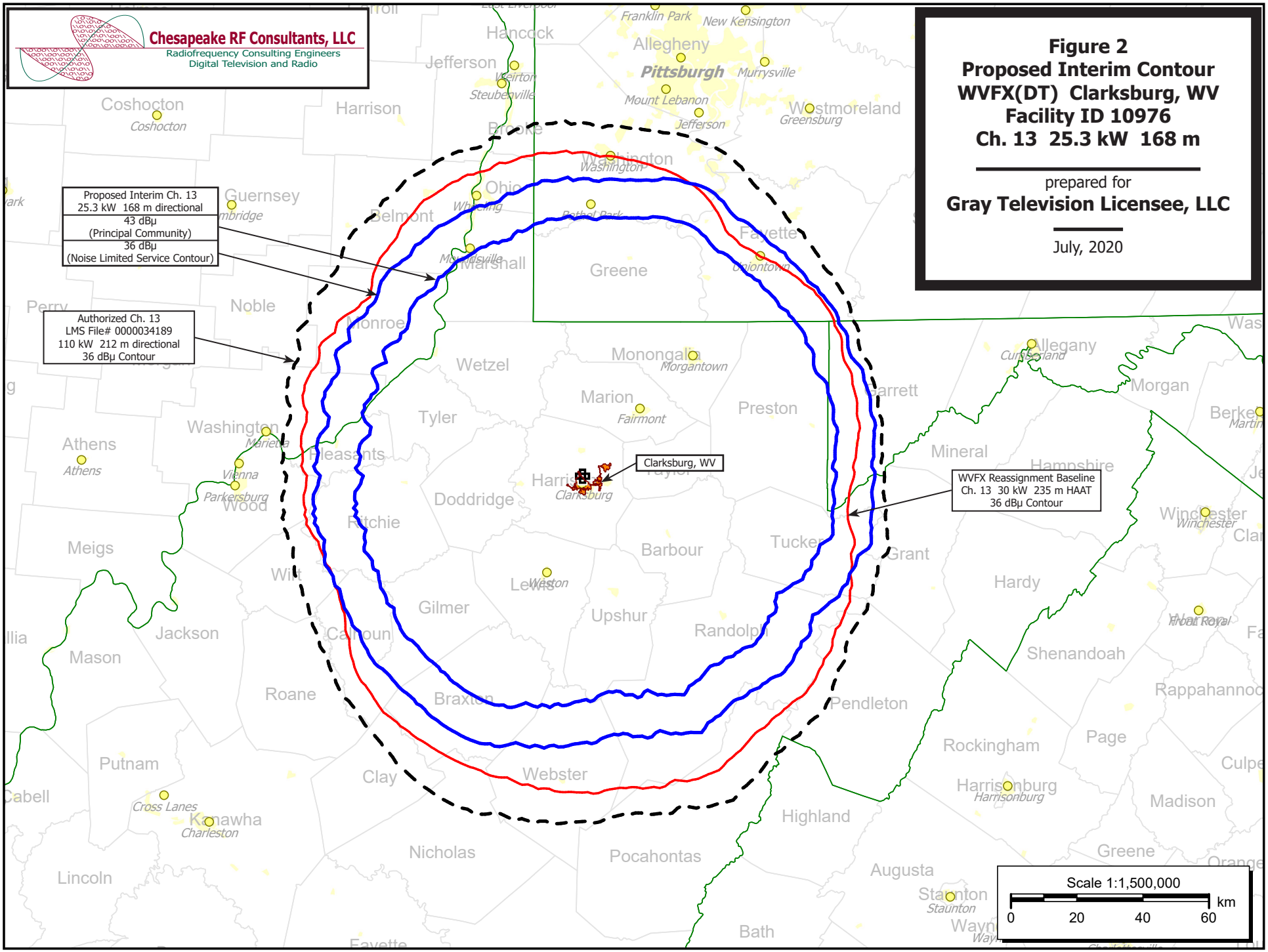
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Figure 2
Proposed Interim Contour
WVFX(DT) Clarksburg, WV
Facility ID 10976
Ch. 13 25.3 kW 168 m
prepared for
Gray Television Licensee, LLC
July, 2020
Proposed Interim Ch. 13
25.3 kW 168 m directional
43 dBµ
(Principal Community)
36 dBµ
(Noise Limited Service Contour)
Authorized Ch. 13
LMS File# 0000034189
110 kW 212 m directional
36 dBµ Contour
Clarksburg, WV
WVFX Reassignment Baseline
Ch. 13 30 kW 235 m HAAT
36 dBµ Contour
Scale 1:1,500,000
km
0
20
40
60