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DTV Engineering STA Application Application Submitted

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Application Summary

File Number: 0000063935
 Application Purpose: Engineering STA
 Status: Submitted
 Date Submitted: 2018-12-03

Applicant Information

Name: Hearst Properties Inc.
 Title:
 Address: PO Box 1800
 Raleigh, NC 27602
 United States
 Phone: +1 (919) 839-0300
 Email: shartzell@brookspierce.com

Fees, Waivers, and Exemptions

Exempt from FCC Application Fees? No

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$200.00
Total		\$200.00

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Required Browser & Plug-ins
(<http://www.fcc.gov/encyclopedia/required-plug-ins-players-and-readers>)

2009 Recovery and Reinvestment Act
(<http://www.fcc.gov/encyclopedia/american-recovery-and-reinvestment-act-2009>)



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000063935** | Submit Date: **12/03/2018** | Call Sign: **WMOR-TV** | Facility ID: **53819** | FRN: **0002538445**
 State: **Florida** | City: **LAKELAND**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Submitted** | Status Date: **12/03/2018** | Filing Status: **Active**

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	200.0
Total		200.0

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Hearst Properties Inc. Doing Business As: Hearst Properties Inc.	PO Box 1800 Raleigh, NC 27602 United States	+1 (919) 839- 0300	shartzell@brookspierce. com	Corporation

Authorization Holder Name

- Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

**Contact
Representatives
(2)**

Contact Name	Address	Phone	Email	Contact Type
Joseph M. Davis , P.E. . <i>Consulting Engineer</i> Chesapeake RF Consultants, LLC	207 Old Dominion Road Yorktown, VA 23692 United States	+1 (703) 650- 9600	Joseph.Davis@RF- consultants.com	Technical Representative
Stephen Hartzell Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839- 0300	shartzell@brookspierce.com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	53819
	State	Florida
	City	LAKELAND
	DTV Channel	19
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	3

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1057473
Coordinates (NAD83)	Latitude	27° 49' 10.8" N+
	Longitude	082° 15' 38.0" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	485.5 meters
	Support Structure Height	440.1 meters
	Ground Elevation (AMSL)	22.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	391.7 meters
	Height of Radiation Center Above Average Terrain	394.4 meters
	Height of Radiation Center Above Mean Sea Level	414.6 meters
	Effective Radiated Power	842 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1004385
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-16WB C160
	Rotation	270 degrees
	Electrical Beam Tilt	0.55
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)	Degree	V _A (Authorized Value)
0	0.900	90	0.889	180	0.700	270	0.886
10	0.910	100	0.843	190	0.662	280	0.920
20	0.938	110	0.772	200	0.565	290	0.953
30	0.971	120	0.667	210	0.465	300	0.982
40	0.994	130	0.541	220	0.452	310	0.997
50	0.999	140	0.448	230	0.543	320	0.994
60	0.984	150	0.462	240	0.668	330	0.971
70	0.956	160	0.562	250	0.772	340	0.939
80	0.923	170	0.660	260	0.842	350	0.911

Additional Azimuths

Degree	V _A
47	1.000
313	0.998

Certification

Section	Question	Response
<p>General Certification Statements</p>	<p>The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).</p>	
	<p>The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.</p>	
<p>Authorized Party to Sign</p>	<p>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</p> <p>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</p> <p>WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).</p>	
	<p>I certify that this application includes all required and relevant attachments.</p>	<p>Yes</p>
	<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Jordan M Wertlieb <i>President</i></p> <p>12/03/2018</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WMOR-TV Exhibit for Pre-Transition Channel Interim Operation STA Request November 2018.pdf</u>	Applicant	All Purpose	Exhibit for STA Request
<u>WMOR-TV STA request for interim antenna ENG 11-27-2018.pdf</u>	Applicant	All Purpose	WMOR-TV STA engineering exhibits

Request for STA for Interim Pre-Transition Channel Operations

The instant request for STA seeks ongoing authority for WMOR-TV to operate periodically on its pre-transition channel 19 from the station’s interim antenna during certain construction phases of WMOR-TV’s repack project to transition from its existing channel 19 to its post-transition channel 18.

WMOR-TV has been assigned to Transition Phase 7, which means that testing of its post-transition facility is scheduled to begin in October 2019, and the Phase Completion Date is scheduled for January 17, 2020. As such, some of WMOR-TV’s transition-related construction activities—including but not limited to tower work, transmission line refurbishment, and installation of WMOR-TV’s post-transition primary antenna—have been scheduled to commence during January or February 2019. Thus, as some of these activities are set in motion and WMOR-TV’s post-transition construction unfolds, WMOR-TV will periodically shut down its current primary antenna and move its operation over to the side-mount interim antenna, which is described in the technical portion of this STA request. Precise dates and periods of side-mount interim antenna operation are, of course, unknowable, and WMOR-TV respectfully requests a full six-month period of STA for this purpose. (WMOR-TV may need to file for one or more extensions of STA for channel 19 operations from the side-mount interim antenna.)

Grant of this STA for interim operations from WMOR-TV’s side-mount antenna specified herein is in the public interest because it is in furtherance of WMOR-TV’s repack transition plan. Indeed, the Commission has specifically contemplated precisely this type of temporary, “interim” operation in furtherance of the overall post-Auction transition in order to facilitate continuity of service for viewers and to avoid stations being off-the-air for periods of time during construction activities of repacked stations. *See, e.g., Incentive Auction Task Force and Media Bureau Adopt a Post-Incentive Auction Transition Scheduling Plan*, Public Notice, 32 FCC Rcd 890 (2018), ¶ 62 (“[I]nterim and auxiliary facilities will be an important part of the transition for broadcasters and we will take action as appropriate to facilitate the use of such facilities and equipment.”).

* * * * *

Transition to Reassignment Channel

Television Station: WMOR-TV Facility ID 53819 Lakeland, FL

STA purpose: To operate on pre-auction Ch. 19 with an interim antenna periodically prior to transition in order to accommodate tower work, main transmission line refurbishment, and installation of post-auction Ch. 18 main antenna. Work to commence January-February 2019.

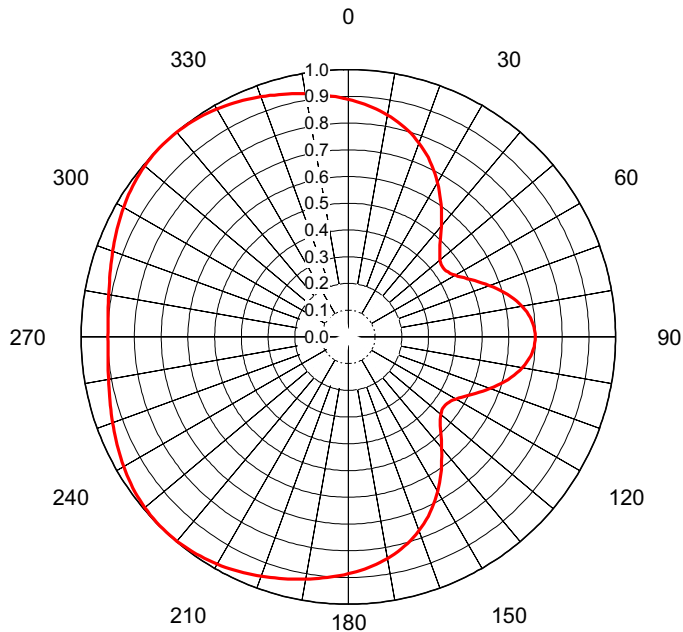
STA Site Location: WMOR-TV licensed Ch. 19 site

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

STA Power and Height: 842 kW effective radiated power
394 meters height above average terrain

STA Facility Coverage: Does not extend beyond licensed, 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 0.6 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 10 percent relative field at downward angles. 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.



AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-71170-1**
 Date **28-Jun-18**
 Call Letters **WMOR**
 Channel **19**
 Frequency **503 MHz**
 Antenna Type **TFU-16WB C160**
 Gain **1.5 (1.75dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.889	36	0.592	72	0.584	108	0.587	144	0.593	180	0.886	216	0.993	252	0.932	288	0.932	324	0.995
1	0.885	37	0.579	73	0.595	109	0.576	145	0.606	181	0.890	217	0.994	253	0.929	289	0.935	325	0.994
2	0.881	38	0.566	74	0.606	110	0.565	146	0.619	182	0.893	218	0.996	254	0.926	290	0.938	326	0.992
3	0.877	39	0.554	75	0.616	111	0.553	147	0.631	183	0.897	219	0.997	255	0.923	291	0.941	327	0.991
4	0.873	40	0.541	76	0.626	112	0.542	148	0.644	184	0.900	220	0.997	256	0.920	292	0.945	328	0.989
5	0.868	41	0.529	77	0.635	113	0.531	149	0.656	185	0.904	221	0.998	257	0.918	293	0.948	329	0.986
6	0.864	42	0.518	78	0.644	114	0.520	150	0.668	186	0.907	222	0.998	258	0.915	294	0.951	330	0.984
7	0.859	43	0.506	79	0.652	115	0.510	151	0.680	187	0.910	223	0.998	259	0.913	295	0.955	331	0.982
8	0.854	44	0.496	80	0.660	116	0.500	152	0.692	188	0.914	224	0.998	260	0.911	296	0.958	332	0.979
9	0.849	45	0.486	81	0.667	117	0.490	153	0.703	189	0.917	225	0.998	261	0.909	297	0.961	333	0.977
10	0.843	46	0.476	82	0.674	118	0.481	154	0.714	190	0.920	226	0.998	262	0.907	298	0.965	334	0.974
11	0.837	47	0.468	83	0.680	119	0.473	155	0.724	191	0.924	227	0.997	263	0.905	299	0.968	335	0.971
12	0.832	48	0.460	84	0.685	120	0.465	156	0.735	192	0.927	228	0.996	264	0.904	300	0.971	336	0.968
13	0.825	49	0.454	85	0.689	121	0.459	157	0.745	193	0.930	229	0.995	265	0.903	301	0.974	337	0.965
14	0.819	50	0.448	86	0.693	122	0.453	158	0.754	194	0.933	230	0.993	266	0.902	302	0.977	338	0.962
15	0.812	51	0.444	87	0.696	123	0.449	159	0.763	195	0.937	231	0.992	267	0.901	303	0.979	339	0.959
16	0.805	52	0.441	88	0.698	124	0.445	160	0.772	196	0.940	232	0.990	268	0.900	304	0.982	340	0.956
17	0.797	53	0.439	89	0.699	125	0.443	161	0.781	197	0.943	233	0.988	269	0.900	305	0.985	341	0.953
18	0.789	54	0.439	90	0.699	126	0.442	162	0.789	198	0.946	234	0.986	270	0.900	306	0.987	342	0.950
19	0.781	55	0.440	91	0.699	127	0.443	163	0.797	199	0.950	235	0.984	271	0.900	307	0.989	343	0.946
20	0.772	56	0.442	92	0.698	128	0.445	164	0.804	200	0.953	236	0.982	272	0.900	308	0.991	344	0.943
21	0.763	57	0.445	93	0.696	129	0.447	165	0.811	201	0.956	237	0.979	273	0.901	309	0.993	345	0.940
22	0.754	58	0.449	94	0.693	130	0.452	166	0.818	202	0.959	238	0.976	274	0.901	310	0.994	346	0.937
23	0.744	59	0.455	95	0.690	131	0.457	167	0.824	203	0.962	239	0.974	275	0.902	311	0.996	347	0.933
24	0.734	60	0.462	96	0.686	132	0.463	168	0.830	204	0.965	240	0.971	276	0.904	312	0.997	348	0.930
25	0.724	61	0.469	97	0.681	133	0.471	169	0.836	205	0.968	241	0.968	277	0.905	313	0.998	349	0.927
26	0.713	62	0.477	98	0.675	134	0.479	170	0.842	206	0.971	242	0.965	278	0.907	314	0.999	350	0.923
27	0.702	63	0.487	99	0.669	135	0.488	171	0.847	207	0.974	243	0.961	279	0.908	315	0.999	351	0.920
28	0.691	64	0.496	100	0.662	136	0.498	172	0.852	208	0.976	244	0.958	280	0.910	316	1.000	352	0.917
29	0.679	65	0.506	101	0.654	137	0.509	173	0.857	209	0.979	245	0.955	281	0.913	317	1.000	353	0.913
30	0.667	66	0.517	102	0.646	138	0.520	174	0.862	210	0.981	246	0.952	282	0.915	318	1.000	354	0.910
31	0.655	67	0.528	103	0.637	139	0.531	175	0.866	211	0.984	247	0.948	283	0.917	319	1.000	355	0.907
32	0.643	68	0.539	104	0.628	140	0.543	176	0.870	212	0.986	248	0.945	284	0.920	320	0.999	356	0.903
33	0.630	69	0.550	105	0.618	141	0.556	177	0.875	213	0.988	249	0.942	285	0.923	321	0.999	357	0.900
34	0.617	70	0.562	106	0.608	142	0.568	178	0.879	214	0.990	250	0.939	286	0.926	322	0.998	358	0.896
35	0.605	71	0.573	107	0.597	143	0.581	179	0.882	215	0.992	251	0.935	287	0.929	323	0.997	359	0.892



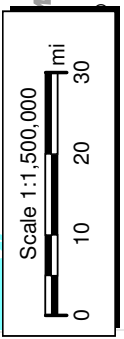
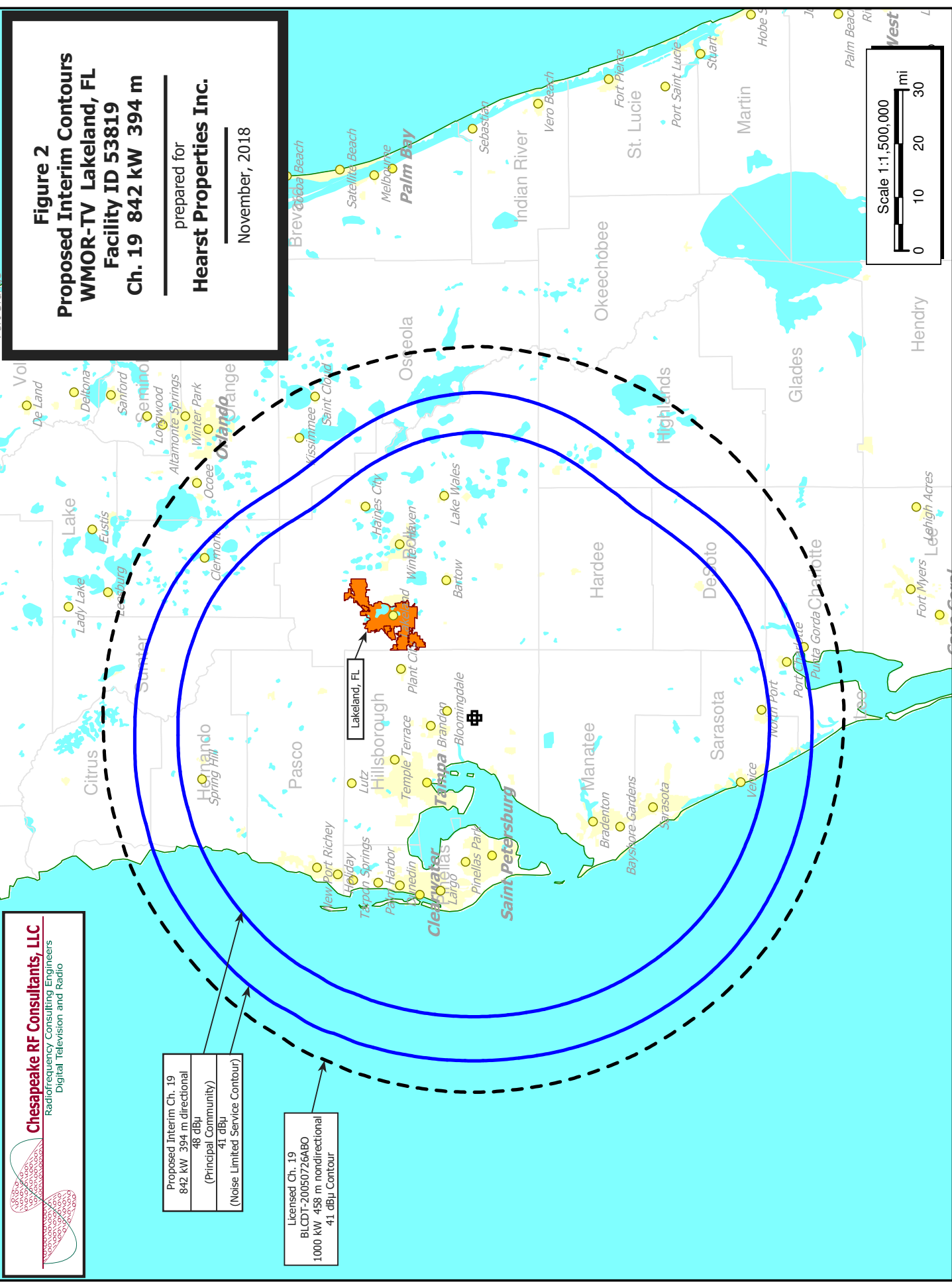
Figure 1
Interim Antenna Azimuthal Pattern
WMOR-TV Lakeland, FL
Facility ID 53819
Ch. 19 842 kW 394 m

prepared for
Hearst Properties Inc.

November, 2018

Figure 2
Proposed Interim Contours
WMOR-TV Lakeland, FL
Facility ID 53819
Ch. 19 842 kW 394 m

prepared for
Hearst Properties Inc.
 November, 2018



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

Proposed Interim Ch. 19
 842 kW 394 m directional
 48 dBu
 (Principal Community)
 41 dBu
 (Noise Limited Service Contour)

Licensed Ch. 19
 BLCOT-20050726ABO
 1000 kW 458 m nondirectional
 41 dBu Contour